



## **ARIS Connect**

# **ADMINISTRATOR USER MANUAL**

Version 10.0 - Service Release 2

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This manual contains the online help that is provided for ARIS Connect users with **ARIS Connect administration** function privileges and using an **ARIS Connect Designer** license.

This document applies to ARIS Version 10.0 and to all subsequent releases.

Specifications contained herein are subject to change and these changes will be reported in subsequent release notes or new editions.

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# 1 ARIS Connect

ARIS Connect is an integrated environment in which you can create, display, and change processes, as well as discuss and improve them jointly with other ARIS Connect users. When you open ARIS Connect in your Web browser you receive role-based access to the process descriptions that are relevant to you.

As a process expert, you receive access to the corresponding views and options for analyzing and improving processes.

In ARIS Connect projects participants can directly enter comments pertaining to modeled processes and discuss improvement potential with others. With dashboards KPIs can be visualized and controlled and relevant documents can be entered and distributed. The seamless integration with existing ARIS installations is ensured, which also allows users to cooperate with regard to existing processes using the integrated social media.

The functional scope of ARIS Connect depends on the license being used.

News on ARIS is available in ARIS Community.

([http://www.ariscommunity.com/system/files/files/ARIS\\_10\\_SR2\\_Features\\_Overview.pdf](http://www.ariscommunity.com/system/files/files/ARIS_10_SR2_Features_Overview.pdf))

Note: You can view videos for some procedures in the help. If your browser is unable to open the quick videos within the help, please use a different browser. The videos are also available in ARIS Community (<http://www.ariscommunity.com/help/quick-videos>).

## 2 Basics

This area lists some basic points that make your life easier when working with the ARIS Connect and its online help.

### 2.1 Text conventions

Menu items, file names, etc. are indicated in texts as follows:

- Menu items, key combinations, dialogs, file names, entries, etc. are displayed in **bold**.
- User-defined entries are shown **<in bold and in angle brackets>**.
- Single-line example texts (e.g., a long directory path that covers several lines due to a lack of space) are separated by ↵ at the end of the line.
- File extracts are shown in this font format:  
This paragraph contains a file extract.
- Warnings have a colored background:

#### **Warning**

This paragraph contains a warning.

### 2.2 Help content shown

The ARIS Connect help content shown depends on your function or license privileges.

- If you are logged in with **ARIS Connect administrator** function privileges, the whole ARIS Connect help content is shown.
- If you are logged in with **ARIS Connect Designer** license privileges, the **Administrate ARIS Connect** content is hidden, because you do not have access to administration features such as **Manage users** functionality.
- If you are logged in with **ARIS Connect Viewer** license privileges, the **Use ARIS Connect > Using the repository** content is hidden, because you do not have access to the repository to create and edit models. Even if you do not have the **Contribution** license privileges, the **Working in the portal > Contribute as viewer** descriptions are offered in the **Viewer** help. This is because the **Contribution** feature is an additional feature that is directly linked to the viewer features.

## 2.3 Select language

You can change the interface language, the language for Help, and the language for models all at the same time.

### Procedure

1. Click your user name. The menu opens.
2. Click **Languages**. The available languages are listed.
3. Click the language in which the interface language, Help, and model content are to be displayed.




The language is changed.

If content such as Help or model content is not available in the selected language, it is displayed in the alternative language. The alternative language is the database language in which database content is displayed if attribute values are not specified in the database language used. Using this, for example, you prevent names from being displayed as **(Untitled)** if they have not been specified in the relevant database language. When you create a database, **English (United States)** is selected automatically.

## 2.4 Edit your user account

Change the data of your user account. Data from LDAP users can be edited only to a limited extent.

### Procedure



1. Click **<user name> > User settings**. If the Browser window is scaled-down, click  **User icon > User settings** instead. The user data (details) is displayed.
2. Click  **Edit** to change the e-mail address, telephone number, etc. Some entries cannot be changed, such as the user name.
3. Click **Save**.
4. Click  **Change picture** to change or delete your picture. The dialog opens.
5. Click **Select file** to navigate to the picture file you want to upload.
6. In the **File Upload** dialog, select the picture file and click **Open**. The picture is displayed in the preview of the **Change picture** dialog.
7. Click **Upload**. The picture is added to your user account. If a different picture is uploaded in ARIS Connect or in Collaboration, it is automatically transferred to the other application.

You have changed your user account.

## 2.5 Change password

Change your password in the user profile after your first login or after the password was reset by the administrator.

### Procedure

1. Click **<user name> > User settings**. If the Browser window is scaled-down, click  **User icon > User settings** instead. The user data (details) is displayed.
2. Click  **Edit**.
3. Enable the **Change password** check box. The **Old password**, **New password**, and **Confirm password** fields are displayed.
4. Enter a new password, and reenter it. If you want to use the webMethods integration, passwords must not contain a colon.
5. Click **Save**.

The password is changed. The user receives a notification by e-mail.

## 2.6 Switch your profile

You can switch between profiles (page 8) if more than one profile is assigned to you in ARIS Administration. Profiles provide you a profile based view of the portal. Depending on the profile, you have access to different content and functionality. Only one profile can be active at a time.

### Procedure

1. Click **<user name>**.
2. Click **Profiles > <profile\_xy>**.

The content and functionality of the selected profile is displayed.

## 2.7 Start search

Searching in ARIS Connect enables you to conveniently find items such as models, objects, documents, groups in Collaboration, etc., throughout the system.

### Procedure

1. Click your user name. The menu opens.
2. Click **Search**.

The Search area (page **Error! Bookmark not defined.**) opens.



## 2.8 Show tasks in ARIS Process Board

In ARIS Connect you can show new tasks in ARIS Process Board without logging in again.

### Prerequisite

Tasks have been assigned to you.

### Procedure

1. Click  **Portal** if it is not activated yet.
2. Click  **Edit tasks**.

ARIS Process Board opens.

## 2.9 Open ARIS Download Client page

You can switch to the ARIS Download Client page to download and use an ARIS product, e. g., ARIS Architect/Designer.

### Prerequisite

Your administrator has enabled the use of download clients.

### Procedure

1. Click your user name. The menu opens.
2. Click **Download clients**.

A new tab opens with the **Download clients** page. You can download and start the ARIS products your administrator has configured for use.

## 2.10 Open Help

You can open Help to find out about the range of functions normally delivered with ARIS Connect. Since ARIS Connect is fully configurable, the range of functions and the user interface in your product may differ significantly from what is described in the Help.

### Procedure

1. Click your user name. The menu opens.
2. Click **Help**.

A new tab opens. You will be offered different content depending on your role as a viewer, designer, or administrator. You can obtain the information you want using the **Contents** tab, the **Index** tab, and the **Search** field.


## 2.11 Forward a page of the online help

You can forward a link to the current page of the online help to others.

### Prerequisite

- An e-mail program is associated with the **mailto** command.
- The recipients you are sending the link to can access the server on which the online help is located.

### Procedure

1. Open the page of the online help that you want to refer to.
2. Click  **E-mail this page**. An e-mail opens, in which the link to the current page is already inserted.
3. Enter the e-mail recipient and send the e-mail.

The link to the help page is available to the e-mail recipients.

## 2.12 Open ARIS Administration

You can open ARIS Administration, e.g., to publish databases, create users, or activate Collaboration.

### Prerequisite

You are logged in as a user with the **ARIS Connect administrator** function privilege.

### Procedure

1. Click your user name. The menu opens.
2. Click **Administration**.

The administration areas such as **User management** and **Configuration** are opened for editing.

## 2.13 Play videos

You can watch videos for some procedures. The procedure pages contain links for playing the videos.

### Procedure

On the procedure page, click the video link. The video plays.

Note: If your browser is unable to open the quick videos within the help, please use a different browser. The videos are also available in ARIS Community (<http://www.ariscommunity.com/help/quick-videos>). If empty pages are displayed after opening a video page, please press F5 to refresh the page.

## 2.14 Open information window

You can view information about ARIS Connect.

### Procedure

1. Click your user name. The menu opens.
2. Click **About**.

Information about ARIS Connect will be displayed.

## 2.15 Known issues

### AD BLOCKERS

Some ad blockers may prevent ARIS Connect from being started correctly.

If you have logged in to ARIS Connect and a white screen is displayed instead of the start page, please configure the ad blocker to consider ARIS Connect secure.

### POP-UP BLOCKERS

Under certain circumstances, if the response time is too long, a Web browser may consider the tab of the Model Editor as a pop-up. In this case, no new tab is created and no model opens.

If you attempt to open a model, but the tab with the model is not displayed, please check whether your pop-up blocker prevents the tab from opening and allow ARIS Connect pop-ups.

### PERFORMANCE

The system has been tested using 30,000 documents with an average size of 5 MB. Depending on the use cases, these numbers may vary.

### MICROSOFT® INTERNET EXPLORER® AND MICROSOFT® EDGE®

When you open many dashboards, switch back to the Portal and back to the dashboards again, it can happen that the browser freezes and no content is displayed. You have to close the browser and open it again.

## 2.16 Log out of ARIS Connect

You can log out of ARIS Connect when you have finished editing.

### Procedure

1. Click your user name. The menu opens.
2. Click **Log out**.

You will be logged out and the ARIS Connect Log in page will be displayed.

You can log in with your current user name or another user name, if you have different user names for different roles.











## 2.17 Valuable information

This section provides background information to assist you in carrying out the relevant procedures.

### 2.17.1 What profiles include which content?

Profiles provide users a profile based view of the portal. Depending on the profile, users have access to different information and functionalities. Example: For users with the profile **Viewer** the **Steps** fact sheet is displayed when selecting a model. They do not see the **Tasks** fact sheet and the **Contribute** function as they do not have an active role. Profiles are applied in addition to the function (page 45) and license (page 48) privileges. If more than one profile is assigned, the user can switch between these profiles via **<user name> > Profiles > <profile\_xy>**. Only one profile can be active at a time. You can assign (page 37) the following profiles to users or user groups in ARIS Administration.

Profile name	Views and functionalities
<b>CoE member</b>	The <b>Overview</b> fact sheet is displayed when selecting a model in the  <b>Portal</b> .
<b>Contributor</b>	The <b>Steps</b> fact sheet is displayed when selecting a model in the  <b>Portal</b> . If the <b>Steps</b> fact sheet is not available, the <b>Overview</b> fact sheet is displayed.
<b>Designer</b>	The <b>Diagram</b> fact sheet is displayed when selecting a model in the  <b>Portal</b> .
<b>Manager/Owner</b>	The <b>Dashboards</b> fact sheet is displayed when selecting a model in the  <b>Portal</b> .
<b>Viewer</b>	<ul style="list-style-type: none"> <li>▪ The <b>Steps</b> fact sheet is displayed when selecting a model in the  <b>Portal</b>. If the <b>Steps</b> fact sheet is not available, the <b>Overview</b> fact sheet is displayed.</li> <li>▪ The <b>Tasks</b> area is not available.</li> <li>▪ The  <b>Contribute</b> function is not available.</li> </ul>
<b>Viewer (accessible)</b>	<ul style="list-style-type: none"> <li>▪ The <b>Steps</b> fact sheet is displayed when selecting a model in the  <b>Portal</b>. If the <b>Steps</b> fact sheet is not available, the <b>Overview</b> fact sheet is displayed.</li> <li>▪ The <b>Tasks</b> area is not available.</li> <li>▪ The  <b>Contribute</b> function is not available.</li> <li>▪ ARIS document storage and Process Governance are not available.</li> </ul>

These profiles are predefined in XML configuration.

## 2.17.2 What licenses and privileges are available?

For working with ARIS Cloud, the **Designer** and **Viewer** licenses are available. Furthermore, the **Administrator** privilege exists. Licenses and privileges are assigned to invited users.

While the licenses manage the use of the databases available in a project room, the **Administrator** privilege serves to manage project rooms.

- The **Designer** license enables users to create, edit, and delete models in databases. This means that these users edit databases.
- The **Viewer** license enables users to view models in databases. This means that these users use databases for review and information purposes.
- Users with the **Administrator** privilege can manage project rooms, e.g., invite users, assign licenses, and create or import databases. These users thus ensure that the project room users are provided with an optimal working environment.

## 3 Manage ARIS Connect

Manage users, user groups, privileges, licenses, documents, configurations, and processes for all ARIS products. This ensures single sign-on for various ARIS products. Users can also be created using an LDAP system.

### 3.1 Open ARIS Administration

Centrally manage users, user groups, privileges, licenses, documents, and configurations for all ARIS products. This ensures single sign-on for various ARIS products. Users can also be created using an LDAP system.

#### Prerequisite

You have the **User administrator** function privilege.

#### Procedure

1. Click the link that was provided to you by e-mail or that you have saved as a bookmark in your browser. The **Login** dialog opens.
2. Enter your user name and your password.
3. Click **Log in**.
4. Click **<user name> > Administration**.

ARIS Administration opens.

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#### ARIS video tutorial

ARIS Architect 'Administration' tab versus ARIS Administration

(<http://www.ariscommunity.com/videos/aris-architect-administration-tab-versus-aris-administration>) (approx. 2 minutes)

### 3.2 What is ARIS Administration for?

Manage users, user groups, privileges, licenses, documents, configurations, and processes for all ARIS products. This ensures single sign-on for various ARIS products. Users can also be created using an LDAP system.

### 3.3 Manage licenses

Centrally manage licenses for all ARIS products to give users the required privileges for the programs.



### 3.3.1 Import and display license file

Import a license file to give users the required privileges for the programs.


#### Prerequisite

You have the **License administrator** function privilege.


#### Procedure

1. Click  **Licenses**.
2. Click  **Import license file**. The dialog opens.
3. Select the relevant license file.
4. Click **Upload**.

The license file is transferred. It is shown how many licenses were imported, as well as which licenses could not be installed and why.

You can now assign users the required license privileges. If you need additional licenses later, simply import the new license file as described above. To display imported license files, click the relevant license, and select  **Open license file**.



### 3.3.2 Delete licenses

You can delete license files when they have expired. Before deleting licenses, back up user data, if required, in order to be able to reuse (page 41) them when new license are available. In the configuration, you can specify that administrators are notified before a license expires. Expired licenses are marked in the license overview: . Users or groups can no longer be assigned. Login is impossible with an expired license.

#### Prerequisite

You have the **License administrator** function privilege.

#### Procedure

1. Click  **Licenses**.
2. Click the relevant product or a subgroup.
3. Move the mouse pointer over the relevant license. The buttons of the available functions are displayed.
4. Click  **Delete license file**.

The license file is deleted.



### 3.3.3 Display information about licenses/license file

You can display information about licenses, such as the expiration date, number of licenses, etc. You can also open the imported license files.

#### Prerequisite

You have the **License administrator** function privilege.

#### Procedure

1. Click  **Licenses**.
2. Click the relevant product or a subgroup.
3. Move the mouse pointer over the relevant license. The buttons of the available functions are displayed.
4. Click  **Open license file**.

The imported license file is displayed as an XML file.

## 3.3.4 Valuable information

This section provides background information to assist you in carrying out the relevant procedures.

### 3.3.4.1 What license types exist?

You can use only one license type for each product. Exceptions are the **Named user** and **Cross-client** license types.

#### LICENSE TYPES FOR CLIENT PRODUCTS

The license types for client products must be assigned manually to users or user groups. You can increase the number of licenses by installing additional licenses.

##### NAMED USER

Users assigned to this license type have guaranteed login as the license is registered in their name. The number of licenses that can be assigned is specified in the license file.

##### CONCURRENT USER

For this license type, the number of users who can log in at the same time is specified. The assigned users share the available licenses. If the number of users logged in is the same as the number of available licenses, no other users can log in. The user must wait until another user logs off. However, the administrator can end (page 27) the sessions of users.


##### CROSS-CLIENT

This license type corresponds to a license of the **Named user** type. However, it can be imported and used for various tenants. It is intended for administrators who manage several tenants. The assigned users can log in with all tenants.

#### SERVER LICENSES

The license types for server products are activated automatically after the import.

### 3.3.4.2 What happens when a license expires?

Expired licenses are marked in the license overview: . Users or groups can no longer be assigned. Login is impossible with an expired license.

Before deleting licenses, back up user data, if required, in order to be able to reuse (page 41) them when new license are available. In the configuration, you can specify that administrators are notified before a license expires.

### 3.3.4.3 What is the difference between the license types 'Named user' and 'Concurrent user'

	<b>Concurrent user</b>	<b>Named user</b>
<b>Assignment</b>	Via user or user group	Via user or user group
<b>License volume</b>	Unlimited	Limited number
<b>Guaranteed login</b>	No	Yes
<b>Term of guaranteed login</b>	Current session	Unlimited

### 3.3.4.4 What dependencies exist within the privileges?

There are certain license privileges that you cannot assign to a user in combination with others. For example, you cannot assign ARIS Architect and ARIS Designer to a user at the same time. You can only activate the subgroups of a license privilege if the superior license privilege is activated. If you remove a superior license privilege of a user, the user also automatically loses the assignment to the subgroups.

## 3.4 Manage users

Users and privileges are managed centrally in ARIS Administration for all ARIS products. The role-dependent data access is controlled by privileges and filters that are assigned per database in ARIS Architect on the **Administration** tab.

### 3.4.1 Use case - Manage users

This use case provides a comprehensive description of all procedures that administrators must carry out for a tenant so that all authorized employees can work with ARIS Architect.

We recommend that you use ARIS Administration to manage users, user groups, privileges, licenses, documents, configurations, and processes in ARIS Connect. This is what the use case is based on. Using User Management is advisable only for users of ARIS Risk & Compliance Manager, ARIS Publisher, PPM, and MashZone.



#### Scenario

After installation, the following system users exist: 'superuser' and 'system'. They are responsible for the user management of an activated tenant. The server was started, the password for the system user **superuser** has not been changed yet.

#### USER MANAGEMENT IN ARIS ADMINISTRATION


1. Open ARIS Administration and log in as 'superuser'.
2. Click the link that was provided to you by e-mail or that you have saved as a bookmark in your browser. The **Login** dialog opens.
3. Enter your user name and your password.
4. Click **Log in**.
5. Click **<user name> > Administration**.

ARIS Administration opens.



1. Change the passwords for the users 'superuser' and 'system'.
  - a. Change the passwords of the users **superuser** and **system** to prevent unauthorized access to the system. These users are created automatically after installation and have comprehensive function privileges and authorizations.
  - b. Click the user whose password you want to change.
  - c. Click  **Edit** >  **Contribute**.
  - d. Enable the **Change password** check box. The **Old password**, **New password**, and **Confirm password** fields are displayed.
  - e. Enter a new password, and reenter it. If you want to use the webMethods integration, passwords must not contain a colon.
  - f. Click **Save**.




The password is changed. The user receives a notification by e-mail.



2. Import the license purchased. Create users or synchronize them from your LDAP system.
  - a. Click  **Add user**. The **Create user** form opens.
  - b. Enter the user name, first and last name, e-mail address, if applicable, and password. If a user that already exists in the LDAP system is created, the user name must match. The e-mail address is transferred automatically. For the other specifications you can enter any characters you wish because this information will automatically be transferred from the LDAP system after the user is created.

The user name does not necessarily have to correspond to a person's first or last name. In many cases, a randomly selected character string is used, or an abbreviation of the first and/or last name.
  - c. Click **Save**. The detail view of the user is displayed.

The user has been created.
  - d. Click  **Licenses**.
  - e. Click  **Import license file**. The dialog opens.
  - f. Select the relevant license file.
  - g. Click **Upload**.

The license file is transferred. It is shown how many licenses were imported, as well as which licenses could not be installed and why.
3. Create user groups or synchronize them from your LDAP system.
  - a. Click **User management**, and select **User groups**. The list of user groups opens.
  - b. Click  **Add user group**.
  - c. Enter the name of the user group and an optional description.
  - d. Click **Save**.
  - e. The user group is created.
4. Assign a user group to the user.
  - a. Click the user whose user group association you want to change.
  - b. Click **Associated user groups**.
  - c. Click  **Edit assignment**. The **Associate user groups** dialog opens.
  - d. Enable the check boxes of the relevant items in the **Available user groups** box, and click  **Add**. The user groups are transferred to the **Associated user groups** box.
  - e. Click **OK**.
5. Assign function privileges to the user, if required.
  - a. Click the user you wish to assign function privileges to. The user data (details) is displayed.
  - b. Click **Privileges**. The list of function privileges is displayed.
  - c. Enable/disable the check boxes of the privileges whose assignment you want to add/remove.

The user is assigned the selected privileges. This provides the user with privileges for functions (e.g., the Database administrator privilege).

6. Assign license privileges to the user.
  - a. Click the user you wish to assign license privileges to. The user data (details) is displayed.
  - b. Click **Privileges**. The list of function privileges is displayed.
  - c. Click **License privileges**.
  - d. Enable/disable the check boxes of the privileges whose assignment you want to add/remove.








The user is assigned the selected privileges. This provides the user with access to the ARIS products relevant to him.

Users can now log in with their assigned privileges. Product-specific privileges are assigned in each ARIS product.




## USER MANAGEMENT IN ARIS ARCHITECT

These actions can also be carried out by users with the **Database administrator** and **User administrator** function privileges.






1. Start ARIS Architect.
  2. Log in as **system** user and connect to the **default** tenant.

Please use the new password that you just changed in ARIS Administration. ARIS Architect starts.
  3. Create databases. All users with the **Database administrator** function privilege can do so.
  4. Click **ARIS >  Administration** or **ARIS >  Explorer**.
  5. Click  **Navigation** in the bar panel if the **Navigation** bar is not activated yet.
  6. In the Explorer tree, right-click your connection to the ARIS Server and select  **New >  Database**.
  7. Enter a name. Do not use any special characters.
  8. Enable the **Versionable** check box if you want the content of the new database to be versioned.
  9. Click **OK**. The database is created and displayed in the **Navigation** bar, either as a  non-versionable or  versionable database.
- All users and user groups are automatically transferred from ARIS Administration.
10. Change the password of the system user **system**.
  11. Assign access privileges.
  12. Assign function privileges to users and user groups.
  13. Assign filters to users and user groups.

The database is available to authorized users.

1. Assign access privileges for database groups. These actions can be carried out by all users with the **User administrator** function privilege.
2. Click **ARIS >  Explorer**.
3. Log in to the database.
4. Click  **Navigation** in the bar panel if the **Navigation** bar is not activated yet.
5. Right-click the group for which you want to edit the access privileges, and select  **Properties**.
6. Click **Access privileges (users)** or **Access privileges (user groups)** on the **Selection** tab.
7. Select the users/user groups for which you want to assign privileges.
8. Select the required access privileges. You can assign **Read (r)**, **Write (w)**, and **Delete (d)** access privileges. The **Version (v)** access privilege is available for versionable databases only. The selection is displayed in the **Privileges** column.
9. If you click the **Pass on privileges** button, the selected access privileges are applied to all subgroups. This also applies to all new subgroups created below this group in the future.
10. Click **OK**.

After the user logs in to the database again the changed access privileges will be in effect.

1. Assign database-specific function privileges to users and user groups.
2. Click **ARIS >  Administration**.
3. Click  **Navigation** in the bar panel if the **Navigation** bar is not activated yet.
4. Log in to the database.
5. In the **Navigation** bar, click  **Users** or  **User groups**.
6. In the table, right-click the user or user group, and select  **Properties**.
7. Click **Function privileges** on the **Selection** tab.
8. In the **Assign** column, click the relevant function privileges. You can assign only function privileges that are assigned to you, too.





You cannot change function privileges for system users.

If you selected **User** in the **Navigation** bar and are logged on as system user, you can enable the **System user** check box. This user receives all function and access privileges.

9. Click **OK**.

The function privileges are now assigned.

For users to be able to view specific content of the database, you assign access privileges to them.

1. Assign filters to users and user groups.
2. Click **ARIS >  Administration**.
3. Click  **Navigation** in the bar panel if the **Navigation** bar is not activated yet.
4. Log in to the database.
5. In the **Navigation** bar, click  **Users** or  **User groups**.

6. In the table, right-click the user or user group, and select **i Properties**.
7. Click **Method filter** on the **Selection** tab.
8. In the **Assign** column, click the relevant filters.
9. Click **OK**.

The selected filters are assigned. Users can now log in using these filters.

You can select a default filter for each database. This filter is automatically assigned when you create users and user groups.

All users with the corresponding privileges can work with ARIS Architect.

For new databases, these privileges must be assigned by authorized users.

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### **ARIS video tutorial**

ARIS Architect 'Administration' tab versus ARIS Administration

(<http://www.ariscommunity.com/videos/aris-architect-administration-tab-versus-aris-administration>) (approx. 2 minutes)

## 3.4.2 Create user

Create a user for authorized employees. The default users system (page 43), superuser (page 44), arisservice (page 44), and guest (page 44) are created automatically. You can create additional system users (page 22).

### Prerequisite


You have the **User administrator** function privilege.

### Warning



If this user is also modeled in an organizational chart, all differing data and assignments are overwritten when the executable process is subsequently generated or the organizational chart is updated. This does not apply to LDAP users.

To prevent this, activate the attribute **Consider user group association from user management**.


### Procedure

1. Click **User management**. The list of users is displayed.
2. Click  **Add user**. The **Create user** form opens.
3. Enter the user name, first and last name, e-mail address, if applicable, and password. If a user that already exists in the LDAP system is created, the user name must match. The e-mail address is transferred automatically. For the other specifications you can enter any characters you wish because this information will automatically be transferred from the LDAP system after the user is created.

The user name does not necessarily have to correspond to a person's first or last name. In many cases, a randomly selected character string is used, or an abbreviation of the first and/or last name.

4. Click **Save**. The detail view of the user is displayed.
5. Assign a user group to the user, if required.
6. Click **Associated user groups**.
7. Click  **Edit assignment**. The **Associate user groups** dialog opens.
8. Enable the check boxes of the relevant items in the box of the available items, and click **Add**. The items are transferred to the box of the assigned items. To remove items from the **Assigned items** box, enable the check boxes of the relevant items in this box, and click **Remove**.
9. Click  **Save**.
10. Enable (page 35) the required function and license privileges for the user under **Privileges**.

In order to make a user a system user, enable all function privileges.

The user is created with the corresponding user group and privilege assignments. The user cannot be created if a mandatory field was not filled out or a user name was entered that is already in use by another user in the system. LDAP users are indicated by a different symbol: 

Additional information about the user is displayed under Attributes.

**Tip**

- To assign all available items, click **Add all**, and click **Remove all** to remove all assignments.
- To transfer a user's group and privilege assignments to a new user, go to the overview of users and click **Copy user** in the row of the relevant user. Enable the check box of assignments to be transferred and add the remaining data, such as user name, first and last name, etc. of the new user.


### 3.4.3 Edit user

Edit user accounts. You cannot change the user name. If you are using an LDAP system, you cannot change the password either.

**Prerequisite**


You have the **User administrator** function privilege.

**Procedure**

1. Click **User management**. The list of users is displayed.
2. Click the user whose data you want to change. The user data (details) is displayed.
3. Click  **Edit**.
4. Change the relevant information, such as name, e-mail address, etc.
5. To change a password, enable **Change password**. The **Old password**, **New password**, and **Confirm password** fields are displayed.
6. Enter a new password, and reenter it. If you want to use the webMethods integration, passwords must not contain a colon.
7. Change the user group association (page 26), if necessary.
8. If required, change the profile or the function, license, and database privileges for the user.
9. Click **Save**.

The user's data is changed. After you have changed the password, the user is informed per e-mail about the new password.

**Tip**

To change or delete a user's picture, click  **Change picture**. If a different picture is uploaded in ARIS Administration or in Collaboration, it is automatically transferred to the other application.


### 3.4.4 How to make a user a system user

Create additional system (page 43) users. Having more than one system user can avoid problems, if, for example, your single system user has forgotten his password.

#### Prerequisite

You have the **User administrator** function privilege. If all users including the system users are deleted, use the superuser. The superuser cannot be deleted.

#### Procedure

1. Click **User management**. The list of users is displayed.
2. Click the relevant user. The user data (details) is displayed.
3. Click  **Edit**.
4. Click **Privileges**. The list of function privileges is displayed.
5. Enable all check boxes.

Now, the user is a system user. The **system** user has all function privileges. This user can log in to process administration, ARIS Administration, User Management, and ARIS Process Board. In ARIS Architect and ARIS Designer, this user has all access privileges for all database groups of all databases.

If your only system user was deleted accidentally, create a new one by using the superuser (page 44).

### 3.4.5 Copy a system user

Copy an existing system (page 43) user. Having more than one system user can avoid problems, if, for example, your single system user has forgotten his password.

#### Prerequisite


You have the **User administrator** function privilege.

#### Warning

If this user is also modeled in an organizational chart, all differing data and assignments are overwritten when the executable process is subsequently generated or the organizational chart is updated. This does not apply to LDAP users.

To prevent this, activate the attribute **Consider user group association from user management**.

#### Procedure

1. Click **User management**. The list of users is displayed.
2. Click the relevant user. The user data (details) is displayed.
3. Click  **Copy**. The **Copy user** form opens.
4. Enable **Transfer function privileges**.
5. Enable **Transfer user group associations** and/or **Transfer license privileges**, if required.
6. Enter the user name, first and last name, e-mail address, if applicable, and password. If a user that already exists in the LDAP system is created, the user name must match. The e-mail address is transferred automatically. For the other specifications you can enter any characters you wish because this information will automatically be transferred from the LDAP system after the user is created.

The user name does not necessarily have to correspond to a person's first or last name. In many cases, a randomly selected character string is used, or an abbreviation of the first and/or last name.

7. Click  **Save**.

An additional system user is created. The **system** user has all function privileges. This user can log in to process administration, ARIS Administration, User Management, and ARIS Process Board. In ARIS Architect and ARIS Designer, this user has all access privileges for all database groups of all databases.






### 3.4.6 How to make a user a system user for a specific database in ARIS Architect

You can assign users system user function privileges for a specific database in ARIS Architect.

#### Prerequisite

- You have the **User administrator** function privilege.
- The user is already created (page 20) in ARIS Administration.

#### Procedure

1. Start ARIS Architect.
2. Click **ARIS >  Administration**. The **Administration** tab opens.
3. Log in to the database for which you want to create a system user.
4. Double-click the database name to expand the tree.
5. Click ** Users**.
6. In the user list, right-click the user's name you want to assign system user privileges to and click ** Properties**. The **Properties** dialog opens.
7. Click **Function privileges**.
8. At the bottom of the dialog, enable the **System user** check box.
9. Click **OK**.

The user receives all function and access privileges for this database in ARIS Architect. This affects the privileges in ARIS only. The user's function privileges in ARIS Connect are not changed.

### 3.4.7 Find users/user groups


You can search for users and user groups.

#### Prerequisite

You have the **User administrator** function privilege.

#### Procedure

In the Find box, enter the characters contained in the user name, user group name, first or last name, or e-mail address you want to find.

If there are hits for the search query, the first fifty items are displayed. LDAP users are indicated by a different symbol: .

### 3.4.8 Display assignment of users to a privilege

Obtain an overview of what privileges are assigned to which users. License privileges can be assigned through the group or directly to the user. The type of assignment is displayed in the user management.

#### Prerequisite

You have the **User administrator** function privilege.

#### Procedure

1. Click **User management**. The list of users is displayed.
2. Click **Privileges**.
3. Click the privileges for which you want to display the assignment.

The associated users are displayed.

#### Note

To obtain an overview of the privileges assigned, you can also export (page 42) a user statistics.

### 3.4.9 Display information on users/user groups

You can retrieve history and information on all users and their active sessions.

#### Prerequisite

You have the **User administrator** function privilege.

#### Procedure

1. Click **User management**. The list of users is displayed.
2. Click the user you want to retrieve information about.
3. Click **Active sessions** to obtain information on the time the user was logged in. This is where you can also log out (page 27) the user.
4. Click the relevant user/user group.
5. Click History (page 52) to retrieve information on the events and details of a user/user group, for example, the privilege assigned to a user.

The requested information is displayed.


### 3.4.10 Change association of user groups to a user

You can change the association of user groups for a user. License privileges can be assigned through the group or directly to the user. The type of assignment is displayed in the user management. If required, product-specific groups must be created and assigned in each ARIS product.

#### Prerequisite

You have the **User administrator** function privilege.

#### Procedure

1. Click **User management**. The list of users is displayed.
2. Click the user whose user group association you want to change.
3. Click **Associated user groups**.
4. Click  **Edit assignment**. The **Associate user groups** dialog opens.
5. Enable the check boxes of the relevant user groups in the **Available user groups** box, and click ► **Add**. The user groups are transferred to the **Associated user groups** box. To remove user groups from the **Associated user groups** box, enable the check boxes of the relevant user groups in this box, and click ◀ **Remove**.
6. Click **OK**.

The user groups assigned to the user have been changed.

#### Tip

To assign all available items, click **Add all**, and click **Remove all** to remove all assignments.

### 3.4.11 Log out user


You can end the sessions of users. This may be necessary, for example, if all licenses of the **Concurrent user** license type (page 13) are used up because users have forgotten to log out. It can also be useful to end sessions if the assignment of function or license privileges was changed, as these privileges only take effect after users have logged in again.

#### Prerequisite

You have the **User administrator** function privilege.

#### LOG OUT SINGLE USER


##### Procedure

1. Click **User management**. The list of users is displayed.
2. Click the user you wish to log out. The user data (details) is displayed.
3. Click **Active sessions**.
4. Click  **Log out user**.
5. Click **OK**.

The user is logged out and can log back in again.

#### LOG OUT MULTIPLE USERS USING A SPECIFIC LICENSE

##### Procedure

1. Click **Privileges**, and select **License privileges**.
2. Click the license privilege for which you want to log out users.
3. Click **Active sessions**.
4. Enable the check boxes of the users you want to log out.
5. Click  **Log out user**.
6. Click **OK**.

The users are logged out.

#### Note

To obtain an overview of all users currently logged in, export (page 42) a user statistics.

### 3.4.12 Delete user

Delete users when they are no longer relevant.


#### Prerequisite

You have the **User administrator** function privilege.

#### Warning


Do not delete your system user (page 43). Having more than one system user can avoid problems. If your single system user was deleted accidentally, create a new one by using the superuser (page 44). The superuser cannot be deleted.

#### Procedure

1. Click **User management**. The list of users is displayed.
2. Move the mouse pointer to the relevant user name. The buttons of the available functions are displayed.
3. Click  **Delete**. The **Confirmation** dialog opens.
4. Click **OK**.

The user is deleted.

#### Tip

To delete several users at the same time, enable the check boxes for the relevant users, and click  **Delete**.



### 3.4.13 Delete all users and user groups

If you want to set up user management from scratch, you should delete all users and user groups. This is recommended before you change to or deactivate LDAP, for example. The default users system (page 43), superuser (page 44), arisservice (page 44), and guest (page 44) are retained.

#### Prerequisite

You have the **User administrator** function privilege.

#### Procedure

1. Click **User management**. The list of users is displayed.
2. Click  **Additional functions**.
3. Click  **Remove all**. The **Confirmation** dialog opens.
4. Click **OK**.

All users and user groups are deleted except for the default users.


### 3.4.14 Refresh items

Refresh items in user management. This can be useful if several users are working in user management simultaneously.

#### Prerequisite

You have the **User administrator** function privilege.

#### Procedure

1. Click **User management**. The list of users is displayed.
2. Click  **Refresh**.

The users and user groups are refreshed.

### 3.4.15 Manage user groups

User groups define the tasks or functions that a person performs in a company. A certain set of function, license and database privileges, as well as profiles, is assigned to different user groups. If a user group is assigned to a user, the user has all privileges and profiles assigned to that user group. You can combine different user groups, i.e., a user can belong to several different user groups at the same time, or the user's user groups may change, depending on the context.


#### 3.4.15.1 Create user group

Create a new user group. If required, product-specific groups must be created and assigned in each ARIS product.

#### Prerequisite

You have the **User administrator** function privilege.

#### Procedure

1. Click **User management**, and select **User groups**. The list of user groups opens.
2. Click  **Add user group**.
3. Enter the name of the user group and an optional description. If a user group that already exists in the LDAP system is created, the user group name must match. This is the only way to assign an existing ARIS user group with the LDAP user group.
4. Click **Save**.

The user group is created.

#### Tip

To transfer user and privilege assignments of a group to a new group, go to the overview of groups and click **Copy group** in the row of the relevant group. Enable the check box of assignments to be transferred and add the remaining data, such as group name, etc. of the new group.


### 3.4.15.2 Copy user group

You can copy user groups. If required, product-specific groups must be created and assigned in each ARIS product.

#### Prerequisite

You have the **User administrator** function privilege.

#### Procedure

1. Click **User management**, and select **User groups**. The list of user groups opens.
2. Move the mouse pointer over the user group you want to copy. The buttons of the available functions are displayed.
3. Click  **Copy user group**.
4. Click **Transfer user associations** to assign the users of the group copied to the new group.
5. Click **Transfer privilege assignments** to assign the function privileges of the group copied to the new group. License privileges are transferred only with the **Concurrent user** license type. For the other license types, the license privileges must be assigned (page 34) in a separate step.
6. Enter the name of the user group.
7. Click **Save**.

The user group is created based on the group copied.

If applicable, assign the group the required license privileges.


### 3.4.15.3 Edit user group

You can change user group data. If required, product-specific groups must be created and assigned in each ARIS product.

#### Prerequisite

You have the **User administrator** function privilege.

#### Procedure

1. Click **User management**, and select **User groups**. The list of user groups opens.
2. Click the user group whose data you want to change.
3. Click  **Edit**.
4. Change the description, if necessary.
5. Click **Save**.
6. Change the user association (page 32), if necessary.
7. Change the function privileges for the user group, if necessary.

The user group data is changed.

### 3.4.15.4 Find users/user groups


You can search for users and user groups.

#### Prerequisite

You have the **User administrator** function privilege.

#### Procedure

In the Find box, enter the characters contained in the user name, user group name, first or last name, or e-mail address you want to find.

If there are hits for the search query, the first fifty items are displayed. LDAP users are indicated by a different symbol: .

### 3.4.15.5 Display information on users/user groups

You can retrieve history and information on all users and their active sessions.

#### Prerequisite

You have the **User administrator** function privilege.

#### Procedure

1. Click **User management**. The list of users is displayed.
2. Click the user you want to retrieve information about.
3. Click **Active sessions** to obtain information on the time the user was logged in. This is where you can also log out (page 27) the user.
4. Click the relevant user/user group.
5. Click History (page 52) to retrieve information on the events and details of a user/user group, for example, the privilege assigned to a user.

The requested information is displayed.




### 3.4.15.6 Change association of users to a user group

You can change the association of users for a user group. License privileges can be assigned through the group or directly to the user. The type of assignment is displayed in the user management. If required, product-specific groups must be created and assigned in each ARIS product.

#### Prerequisite

You have the **User administrator** function privilege.

#### Procedure

1. Click **User management**, and select **User groups**. The list of user groups opens.
2. Click the user group whose user association you want to change.
3. Click **Associated users**. Use the filter to limit the list of users based on specific search criteria.
4. Click  **Edit association**. The **Associate users** dialog opens.  
Enable the check boxes of the relevant items in the box of the available items, and click **▶ Add**. The items are transferred to the box of the assigned items. To remove items from the **Assigned items** box, enable the check boxes of the relevant items in this box, and click **◀ Remove**.
5. Click **OK**.

The users associated to the user group have been changed.

#### Tip

To assign all available items, click **Add all**, and click **Remove all** to remove all assignments.


### 3.4.15.7 Delete user group

You can delete user groups that are no longer relevant. If required, product-specific groups must be created and assigned in each ARIS product.

#### Prerequisite


You have the **User administrator** function privilege.

#### Procedure

1. Click **User management**, and select **User groups**. The list of user groups opens.
2. Move the mouse pointer over the relevant user group name. The buttons of the available functions are displayed.
3. Click  **Delete**. The **Confirmation** dialog opens.
4. Click **OK**.

The user group is deleted.

#### Tip

To delete several user groups at the same time, enable the check boxes for the relevant groups, and click  **Delete**.



### 3.4.15.8 Delete all users and user groups

If you want to set up user management from scratch, you should delete all users and user groups. This is recommended before you change to or deactivate LDAP, for example. The default users system (page 43), superuser (page 44), arisservice (page 44), and guest (page 44) are retained.

#### Prerequisite

You have the **User administrator** function privilege.

#### Procedure

1. Click **User management**. The list of users is displayed.
2. Click  **Additional functions**.
3. Click  **Remove all**. The **Confirmation** dialog opens.
4. Click **OK**.

All users and user groups are deleted except for the default users.

## 3.4.16 Assign privileges and profiles



### 3.4.16.1 Assign a license privilege to new users/user groups

Assign license privileges to new users or user groups.

#### Prerequisite

You have the **User administrator** function privilege.

#### Procedure

1. Click **User management**. The list of users is displayed.
2. Click **Privileges**.
3. Click the privilege you want to assign to the user or user groups. The current assignment is displayed.
4. Click  **Edit assignment**. The **Associate user groups** dialog opens.
5. Click  **Edit assignment**. The **Associate users/user groups** dialog opens.
6. Enable the check boxes of the relevant items in the box of the available items, and click ► **Add**. The items are transferred to the box of the assigned items. To remove users/user groups from the **Associated users/user groups** box, enable the check boxes of the relevant users/user groups in this box, and click ◀ **Remove**.

The user/user group is assigned the corresponding privileges. If users are assigned a privilege directly and via associated user groups, this is detected automatically so that the user only uses one license.

#### Tip

To assign all available items, click **Add all**, and click **Remove all** to remove all assignments.

### 3.4.16.2 Assign a license pool to a user group


Assign a number of licenses (license pool) exclusively to a user group.

#### Prerequisite

- You have the **User administrator** function privilege.
- License pools at user group level is activated in ARIS Administration (**Configuration > Security > Advanced settings**).
- The used license type (page 13) is **Concurrent user**.

#### Procedure

1. Click **User management**, and select **User groups**. The list of user groups opens.
2. Click the user group whose license limit you want to change.
3. Click **Privileges > License privileges**.
4. Move the mouse pointer over the relevant license. The buttons of the available functions are displayed.

5. Click  **Change licenses**. The dialog opens.
6. Enable the **Granted** check box.
7. Enter the number of licenses you want to assign in the **Assigned licenses** box.
8. Click **Save**.

The licenses are assigned to the user group.

### 3.4.16.3 Change function, license, and database privileges for users or user groups

Assign the relevant function, license, and database privileges to allow usage of specific programs and functions. Product-specific privileges are assigned in each ARIS product.

There are certain license privileges that you cannot assign to a user in combination with others. For example, you cannot assign ARIS Architect and ARIS Designer to a user at the same time.


You can only activate the subgroups of a license privilege if the superior license privilege is activated. If you remove a superior license privilege of a user, the user also automatically loses the assignment to the subgroups.

#### Prerequisite

You have the **User administrator** function privilege.

#### CHANGE FUNCTION, LICENSE, AND DATABASE PRIVILEGES FOR INDIVIDUAL USERS


##### Procedure

1. Click **User management**. The list of users is displayed.
2. Click the user whose privileges you want to change.
3. Click **Privileges**. The list of function privileges is displayed. A distinction is made between privileges assigned directly and those assigned via a user group.
4. Enable/disable the check boxes of the privileges whose assignment you want to add/remove. In order to make a user a system user, enable all function privileges.
5. Click **License privileges**. A distinction is made between privileges assigned directly and those assigned via a user group.
6. Enable/disable the check boxes of the privileges whose assignment you want to add/remove.
7. Click **Database privileges**.
8. Enable/disable the check boxes of the privileges whose assignment you want to add/remove. No database privileges are assigned yet.
9. Click  **Edit**. The **Edit database privileges** dialog opens.
10. Assign the relevant privilege.
11. Click **OK**.

The user is assigned the selected privileges. The assignment of these privileges is displayed as **Granted** in the overview of function and license privileges for a user.

## CHANGE FUNCTION PRIVILEGES FOR ALL MEMBERS OF A USER GROUP

### Procedure

1. Click **User management**, and select **User groups**. The list of user groups opens.
2. Click the user group whose privileges you want to change.
3. Click **Privileges**. The list of function privileges is displayed.
4. Enable/disable the check boxes of the privileges whose assignment you want to add/remove.
5. Click **License privileges**.
6. Enable/disable the check boxes of the privileges whose assignment you want to add/remove.
7. Click **Database privileges**.
8. Enable/disable the check boxes of the privileges whose assignment you want to add/remove.  
No database privileges are assigned yet.
9. Click  **Edit**. The **Edit database privileges** dialog opens.
10. Assign the relevant privilege.
11. Click **OK**.

All members of the user group are assigned the selected privileges. The assignment of these privileges is displayed as **Via user group** in the overview of function and license privileges for a user.

Product-specific privileges are assigned in each ARIS product.

The following special features apply for process automation:

If the **Process Governance administrator** function privilege has been assigned to the user in the model but not in user management, the user is also assigned the **Process Governance administrator** function privilege in user management the next time the executable process is generated. If the user has the **Process Governance administrator** function privilege from user management but not from the model, the **Process Governance administrator** function privilege is removed from the user in user management the next time the executable process is generated.

### 3.4.16.4 Assign profiles to users or user groups

Assign the relevant profile (page 8) in order to enable a profile based view of the portal. Depending on the profile, users have access to different information and functionalities. Example: For users with the profile **Viewer** the **Steps** fact sheet is displayed when selecting a model. They do not see the **Tasks** fact sheet and the **Contribute** function as they do not have an active role. Profiles are applied in addition to the function (page 45) and license (page 48) privileges.

#### Prerequisite

- Assignment of profiles is activated in the Configuration.
- You have the **User administrator** function privilege.

#### ASSIGN PROFILES TO INDIVIDUAL USERS

##### Procedure

1. Click **User management**. The list of users is displayed.
2. Click the user you want to assign a profile to. The user data (details) is displayed.
3. Click **Privileges > Profiles**. The list of profiles is displayed. A distinction is made between profiles assigned directly and those assigned via a user group.
4. Enable/disable the check boxes of the profiles whose assignment you want to add/remove.

The user is assigned the selected profiles.

If more than one profile is assigned, the user can switch between these profiles via **<user name> > Profiles > <profile\_xy>**. Only one profile can be active at a time.

#### ASSIGN PROFILES TO ALL MEMBERS OF A USER GROUP

##### Procedure

1. Click **User management**, and select **User groups**. The list of user groups opens.
2. Click the user group you want to assign a profile to. The user data (details) is displayed.
3. Click **Privileges > Profiles**. The list of profiles is displayed.
4. Enable/disable the check boxes of the profiles whose assignment you want to add/remove.

All members of the user group are assigned the selected profiles. The assignment of these profiles is displayed in the overview of profiles for a user as **Via user group**.

If more than one profile is assigned, the user can switch between these profiles via **<user name> > Profiles > <profile\_xy>**. Only one profile can be active at a time.

## 3.4.17 Handle password

Assign a new password to a user or generate it automatically. You can request a new password if you have forgotten your current password.

### 3.4.17.1 Change user password


Assign a new password to a user or generate it automatically. Passwords of LDAP users cannot be changed.

#### Prerequisite

You have the **User administrator** function privilege.

#### CHANGE PASSWORD MANUALLY


##### Procedure

1. Click **User management**. The list of users is displayed.
2. Click the user whose password you want to change. The user data (details) is displayed.
3. Click  **Edit**.
4. Enable the **Change password** check box. The **Old password**, **New password**, and **Confirm password** fields are displayed.
5. Enter a new password, and reenter it. If you want to use the webMethods integration, passwords must not contain a colon.
6. Click **Save**.

The password is changed. The user receives a notification by e-mail.

#### GENERATE PASSWORD

##### Procedure

1. Click **User management**. The list of users is displayed.
2. Click the user whose password you want to change. The user data (details) is displayed.
3. Click  **Generate password**. The button is only displayed for users who are not LDAP users.

The password is changed. The user receives a notification by e-mail.

### 3.4.17.2 Request new password

You can request a new password if you have forgotten your current password. If an LDAP system is used for user management, please contact your LDAP administrator to request a new password.

#### Procedure

1. Click **Reset password** in the **Login** dialog. The dialog opens.
2. Enter your user name.
3. Click **Reset password**.

Depending on your configuration, you will either receive an e-mail with a new password immediately or you must first confirm your password change using a link.



## 3.4.18 Apply LDAP

You can import users from the LDAP system and you can synchronize user and user group data with the data stored in the LDAP system.



### 3.4.18.1 Import LDAP users

You can import users from the LDAP system.

#### Prerequisite


You have the **User administrator** function privilege.

#### Procedure

1. Click **User management**. The list of users is displayed.
2. Click  **Additional functions**.
3. Click  **Start LDAP import**. The button is active only if an LDAP system is configured on the server.
4. Select whether you want to import only users or user groups and associated users.
5. Select if you want to use the default filter or create a custom one.
6. Click **Preview** to check how many users or user groups are imported. The number is displayed, as well as up to 100 elements to be imported in alphabetical order.
7. Click **Start import**.

The users or user groups and associated users are transferred from the LDAP system according to the selected options.


### 3.4.18.2 Synchronize users with the LDAP system

You can synchronize user and user group data with the data stored in the LDAP system. LDAP users are indicated by a different symbol: .

#### Prerequisite

You have the **User administrator** function privilege.

#### Procedure

1. Click **User management**. The list of users is displayed.
2. Click the user you wish to synchronize.
3. Click  **Synchronize with LDAP**. The button is active only if an LDAP system is configured on the server.

Data is transferred from the LDAP system for the selected item.

## 3.4.19 Manage user data

You can backup and restore management data, export user statistics and generate reports (page 54) about users, user groups, privileges, licenses, assignments, etc.

### 3.4.19.1 Back up user management data



You can create a backup file based on the data in user management.

You do not need to stop the Process Governance runnable to back up or restore Process Governance data. To avoid inconsistencies, you can't back up or restore Process Governance data while a process is still running. During a backup or restore, Process Governance is not accessible to avoid inconsistencies.

#### Prerequisite

You have the **User administrator** function privilege.

#### Procedure

1. Click **User management**. The list of users is displayed.
2. Click  **Additional functions**.
3. Click  **Back up data**. The **Back up user management data** dialog opens.
4. Enter a password and confirm it. The password is required for restoring this file.
5. Optionally, you can include the user's photos in the data backup.
6. Click Start.

The user management data is saved in JSON format in a ZIP file. The file is separated into several areas to enable even large data volumes to be saved easily: Users, User groups, Licenses, Pictures, Privileges, Configuration, and Charts. Backups from an ARIS installation version 9.7 and older can be restored. Backups from the current ARIS installation cannot be restored in older versions.

### 3.4.19.2 Restore user management data



You can restore previously backed up user management data in Administration. Deactivate LDAP before restoring the data to speed up the process. You do not need to stop the Process Governance runnable to back up or restore Process Governance data. To avoid inconsistencies, you can't back up or restore Process Governance data while a process is still running. During a backup or restore, Process Governance is not accessible to avoid inconsistencies.

Backups from an ARIS installation version 9.7 and older can be restored. Backups from the current ARIS installation cannot be restored in older versions.

#### Prerequisite

You have the **User administrator** function privilege.

#### Procedure

1. Click **User management**. The list of users is displayed.
2. Click  **Additional functions**.
3. Click  **Restore data**. The dialog opens.
4. Select the backup file.
5. Enter the password to open the file.

6. Click Start.

The user management data is restored.



### 3.4.19.3 Export user statistics

Export statistics about users. Optionally, you can export usage patterns, assignments, changes to data and database items made by the user, the information used most often or the information used last, etc.

#### Prerequisites

- You have the **User administrator** function privilege.
- **Generate user statistics (com.aris.umc.audit.enabled)** is enabled in the configuration (page 433).

#### Procedure

1. Click **User management**. The list of users is displayed.
2. Click  **Additional functions**.
3. Click  **Export user statistics**. The dialog opens.
4. Select the information that the report should output (event type).
5. Select the output format.
6. Select the time period over which the statistics should be created.
7. Click **OK**.

The user statistics are output in the selected format.



### 3.4.19.4 Generate report

Generate reports (page 54) about users, user groups, privileges, licenses, assignments, etc.

#### Prerequisite

You have the **User administrator** function privilege.

#### Procedure

1. Click **User management**. The list of users is displayed.
2. Click  **Additional functions**.
3. Click  **Generate report**. The dialog opens.
4. Select the relevant report.
5. Select the output format.
6. Click Start.
7. Click **OK**.

The relevant report is output as an Excel file.

## 3.4.20 Valuable information

This section provides background information to assist you in carrying out the relevant procedures.

### 3.4.20.1 What is the difference between ARIS Architect 'Administration' tab and ARIS Administration?

Users and privileges are managed centrally for all databases and ARIS products of an activated tenant. The role-dependent data access is controlled by access privileges and filters that are assigned per database in ARIS Architect on the **Administration** tab.

#### MANAGEMENT IN ARIS ADMINISTRATION

You can use User Management to manage users, user groups, privileges, licenses, and configurations for all ARIS products. This ensures single sign-on for various ARIS products. Users can also be created using an LDAP system.

#### MANAGEMENT IN ARIS ARCHITECT

When you create a database, all users and user groups from the user management are automatically imported into the database. Administrators assign function and access privileges, as well as filters to users and user groups in each database so that only authorized users can view certain database content or perform specified actions. Use the prefix management to track which user created or changed database items.

If you are using the server LOCAL, you can log in only with the user **system**.

---

#### ARIS video tutorial

ARIS Architect 'Administration' tab versus ARIS Administration

(<http://www.ariscommunity.com/videos/aris-architect-administration-tab-versus-aris-administration>) (approx. 2 minutes)

### 3.4.20.2 What is the 'system' user?

The **system** user is created automatically. By default, the system user has all function privileges. This user can log in to process administration, ARIS Administration, User Management, and ARIS Process Board. In ARIS Architect and ARIS Designer, this user has all access privileges for all database groups of all databases. This user only uses up a license if a license privilege is activated for this user. The default password is manager. You should change the default password to prevent unauthorized access. You can change all user data except for the user name.

Having more than one system user can avoid problems, if, for example, your single system user has forgotten his password. You can create (page 22) additional system users or copy (page 23) the existing system user. If your only system user was deleted accidentally, create a new one by using the superuser (page 44).

### 3.4.20.3 What is the user superuser?

The user **superuser** is created automatically. By default, this user is assigned the **User management**, **License management**, and **Configuration administrator** function privileges. This user can also activate this function privilege for other users. Users of the **superuser** type do not use up a license. They manage the system administration, but cannot use ARIS products due to license restrictions. The default password is **superuser**. You should change the default password to prevent unauthorized access. The password of the superuser is very important, as it is the only user who cannot be deleted. You can change all user data except for the user name.

### 3.4.20.4 What is the user 'arisservice'?

The user **arisservice** is created automatically. By default, this user is assigned the **Database administrator** and **Process Governance administrator** function privileges. This user only uses up a license if a license privilege is activated for this user. The default password is **arisservice**. You should change the default password to prevent unauthorized access. You can change all user data except for the user name.

### 3.4.20.5 What is the user 'guest'?

The user **guest** is created automatically. By default, no function or license privileges are assigned to this user. This user serves technical purposes only. It is not for use by end users. Logging in to ARIS Connect or other Software AG products with this user is not allowed. Further information is available in the Software AG license terms (<http://softwareag.com/licenses> (<http://softwareag.com/licenses>)).

### 3.4.20.6 What are user groups used for?

User groups define the tasks or functions that a person performs in a company. A certain set of function, license and database privileges, as well as profiles, is assigned to different user groups. If a user group is assigned to a user, the user has all privileges and profiles assigned to that user group. You can combine different user groups, i.e., a user can belong to several different user groups at the same time, or the user's user groups may change, depending on the context.

### 3.4.20.7 What function privileges can be assigned?

Function privileges provide users with specific functions and control their privileges. Additionally the user must be assigned to a license privilege. You can assign (page 35) the following function privileges to users or user groups. Additional privileges can be assigned in each ARIS product at the database level.

#### **ARCM administrator**

Manage ARIS Risk & Compliance Manager system settings and run data exports/imports.

#### **ARIS Connect administrator**

Specify which version of which database is to be published in the portal, and manage the corporate design.

#### **Analysis administrator**

Back up, restore, and manage a tenant's analysis database. Import and export queries and ad hoc analyses.

#### **Analysis publisher**

Publish and delete ad hoc analyses and queries for other users. Back up ad hoc analyses and queries.

#### **ARIS Cloud Controller configuration administrator**

Edit the ARIS Cloud Controller server configuration including registered nodes and application types.

#### **Collaboration administrator**

Manage private groups, flagged posts, announcements and e-mail templates.

#### **Component administrator**

Add, start, stop, and remove components on the ARIS Cloud Controller server.

#### **Configuration administrator**

Configure ARIS Design Server or ARIS Connect server, export and import a tenant's configuration files, e.g., ARIS filters, templates, and XML structures.

#### **Dashboard administrator**

Create and manage visual content in ARIS Connect, e.g., dashboards.

**Database administrator**

Manage tenant databases. System user (page 43) in all databases.

**Document administrator**

Manage documents, document versions, folders, and access privileges in ARIS document storage.

**Impersonation**

Manage data in other tenants using impersonated users and their privileges.

**License administrator**

Use ARIS Administration/User Management to import, export, or delete licenses.

**Portal administrator**

Manage the portal's corporate design.

**PPM user**

Use PPM.

**Process Governance administrator**

Manage Process Governance processes.

**Publisher administrator**

Generate, update, and delete ARIS Publisher exports.

**Publishing administrator**

Specify which version of which database is to be published in the portal.

**Script administrator**

Manage report scripts and macros of ARIS Design Server or ARIS Connect Server.

**Server administrator**

Query and terminate sessions on ARIS Design Server or ARIS Connect Server. Back up and update the system database, and display database statistics and all databases.

**Service administrator**

Register external systems and services (e.g., external database systems, mail servers, or proxy servers) on the ARIS Cloud Controller server.

### **Technical configuration administrator**

Configure systems, such as LDAP or SMTP, use ARIS Administration/User Management to import or export configuration files, and manage documents.

### **Tenant administrator**

Create, back up, restore, and delete tenants on the ARIS Cloud Controller server.

### **UML Viewer**

View UML content in ARIS Connect.

### **User administrator**

Manage users, user groups, and privileges in ARIS Administration/User Management.

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### **ARIS video tutorial**

ARIS Architect 'Administration' tab versus ARIS Administration

(<http://www.ariscommunity.com/videos/aris-architect-administration-tab-versus-aris-administration>) (approx. 2 minutes)



### 3.4.20.8 What license privileges can be assigned?

License privileges provide users with specific products and components. You can assign (page 35) the following license privileges to users or user groups. Additional privileges can be assigned in each ARIS product at the database level.

#### ARCM Contribute

Perform tasks in ARIS Risk & Compliance Manager that do not require GRC-specific knowledge.

#### ARCM Operate

Perform all administrative and operative GRC-specific tasks in ARIS Risk & Compliance Manager.

#### ARIS API Full Access (ARIS Connect)

View and edit ARIS data of ARIS Connect Server using external applications.

#### ARIS API Full Access (ARIS Design Server)

View and edit ARIS data of ARIS Design Server using external applications.

#### ARIS API Mobile Access (ARIS Connect)

View and edit ARIS data of ARIS Connect Server using mobile applications.

#### ARIS API Mobile Access (ARIS Design Server)

View and edit ARIS data of ARIS Design Server using mobile applications.

#### ARIS API Read Access (ARIS Connect)

View ARIS data of ARIS Connect Server using external applications.

#### ARIS API Read Access (ARIS Design Server)

View ARIS data of ARIS Design Server using external applications.

#### ARIS API System Access (ARIS Connect)

Retrieve ARIS data of ARIS Connect Server using external applications.

#### ARIS API System Access (ARIS Design Server)

Retrieve ARIS data of ARIS Design Server using external applications.

#### ARIS Alfabet Interoperability

Exchange information between ARIS and Alfabet.

## ARIS Architect

Develop, model, analyze, control, and manage the corporate process architecture.

- **ARIS Access**  
Access ARIS data and ARIS Repository content via external applications.
- **Business Strategy**  
Define, analyze, and control corporate strategies, business models, and KPIs.
- **Enterprise Architecture Management**  
Create a uniform inventory of systems and technologies to align business requirements with IT changes.
- **Process Governance**  
Design and deploy BPM governance processes to coordinate, automate, and monitor BPM projects.
- **SAP®**  
Support SAP® projects by means of process design (business blueprints), test design, and process implementation, and by connecting ARIS with SAP® Solution Manager.
- **Simulation**  
Identify process bottlenecks and run what-if analyses in order to obtain valuable decision support for process improvement programs.
- **Test Designer**  
Create end-to-end test paths based on business processes.
- **webMethods integration**  
Develop, model, and improve business processes, and make them available for implementation by IT via an automated process.

## ARIS Connect Designer

Create, modify, and maintain models in the Web browser and make them available in the cloud.

- **ARIS Aware**  
Use ARIS Aware.

## ARIS Connect Viewer

View ARIS Connect content.

- **Contribution**  
View and add ARIS Connect content.
- **ARIS Aware**  
Use ARIS Aware.

### ARIS Designer

Provide models for business process management representing aspects such as business processes, business organization, data modeling, IT landscapes, or workflows.

- **Business Strategy**

Define, analyze, and control corporate strategies, business models, and KPIs.

- **Enterprise Architecture Management**

Create a uniform inventory of systems and technologies to align business requirements with IT changes.

- **SAP®**

Support SAP® projects by means of process design (business blueprints), test design, and process implementation, and by connecting ARIS with SAP® Solution Manager.

- **Test Designer**

Create end-to-end test paths based on business processes.

### ARIS Optimizer

Calculate meaningful business process data and plan your operational structure and process organization based on these calculations.

### ARIS Smart Input

Record data to be processed using ARIS Optimizer, or record the duration of processes.

### ARIS UML Designer

Use ARIS UML Designer to integrate business processes and UML in software development processes and develop and supply high-quality software.

- **ARIS Access**

Access ARIS UML data and UML Repository content via external applications.

### ARIS Viewer

View published process content in ARIS Publisher, participate in Process Governance workflows using the Web-based ARIS Process Board, and edit content in IT Inventory.

### ARIS Cloud Advanced Administration

Manage databases.

### ARIS Cloud Basic Viewer

View ARIS Cloud content.

ARIS Cloud Basic Designer

Create models.

ARIS Cloud Advanced Designer

Create models.

ARIS Cloud Advanced Viewer

Check models.

webMethods integration (for Software AG Designer)

Make business processes available for implementation and optimization by IT via an automated process.

### 3.4.20.9 What information does the history of users and user groups show?

Various events including their timestamp are shown in the history.

#### **USERS**

- User created
- User updated
- Privilege assigned
- User assigned to a group
- Synchronized with LDAP
- Login failed
- Password changed

#### **USER GROUPS**

- User group created
- User group updated
- Privilege assigned
- User assigned
- Synchronized with LDAP

### 3.4.20.10 How can the password be changed?

There are several possibilities for changing a user's password. Passwords of LDAP users cannot be changed.

#### PASSWORD IS CHANGED BY THE ADMINISTRATOR

A user with the **User management** function privilege can change the passwords of other users.

#### CHANGE PASSWORD MANUALLY

A password can be changed (page 38) manually in the user management (**Change password**).

#### GENERATE PASSWORD

Alternatively, a password can be generated (page 38) automatically in the user management (**Generate password**).

#### PASSWORD IS CHANGED BY THE USER

The user has two possibilities for changing his password in the login dialog.

#### CHANGE PASSWORD

If a user's password has expired, he will be asked to change it in the login dialog (**Change password**). The user will receive an e-mail containing the new password.

#### RESET PASSWORD

If the user has forgotten his password, he can request a new one (**Reset password**). The rest of the procedure depends upon whether a one-stage or two-stage password change is enabled (**Administration > Configuration > User management**). For the one-stage change the user immediately receives an e-mail with the new password. For a two-stage change the user first receives an e-mail asking him to confirm the resetting of his password within a specific period of time. The user receives a new password after he has confirmed.

### **3.4.20.11 Which reports exist?**

You can generate the following reports as Excel files.

#### **ACTIVE USER SESSIONS**

Outputs a list of all users currently logged in to ARIS, along with the start date and time of the session.

#### **USER GROUPS WITH ASSIGNED USERS AND PRIVILEGES**

Outputs a list of the selected user groups and the users assigned to them, along with the function and license privileges granted to the user via the group.

#### **ASSIGNED AND UNUSED ARIS LICENSES**









Outputs the total number of products and licenses, along with the number of licenses used and available.

#### **USERS WITH ASSIGNED PRIVILEGES**

Outputs a list of the selected users with their assigned function and license privileges.

### 3.4.20.12 What profiles include which content?

Profiles provide users a profile based view of the portal. Depending on the profile, users have access to different information and functionalities. Example: For users with the profile **Viewer** the **Steps** fact sheet is displayed when selecting a model. They do not see the **Tasks** fact sheet and the **Contribute** function as they do not have an active role. Profiles are applied in addition to the function (page 45) and license (page 48) privileges. If more than one profile is assigned, the user can switch between these profiles via **<user name> > Profiles > <profile\_xy>**. Only one profile can be active at a time. You can assign (page 37) the following profiles to users or user groups in ARIS Administration.

Profile name	Views and functionalities
<b>CoE member</b>	The <b>Overview</b> fact sheet is displayed when selecting a model in the  <b>Portal</b> .
<b>Contributor</b>	The <b>Steps</b> fact sheet is displayed when selecting a model in the  <b>Portal</b> . If the <b>Steps</b> fact sheet is not available, the <b>Overview</b> fact sheet is displayed.
<b>Designer</b>	The <b>Diagram</b> fact sheet is displayed when selecting a model in the  <b>Portal</b> .
<b>Manager/Owner</b>	The <b>Dashboards</b> fact sheet is displayed when selecting a model in the  <b>Portal</b> .
<b>Viewer</b>	<ul style="list-style-type: none"> <li>▪ The <b>Steps</b> fact sheet is displayed when selecting a model in the  <b>Portal</b>. If the <b>Steps</b> fact sheet is not available, the <b>Overview</b> fact sheet is displayed.</li> <li>▪ The <b>Tasks</b> area is not available.</li> <li>▪ The  <b>Contribute</b> function is not available.</li> </ul>
<b>Viewer (accessible)</b>	<ul style="list-style-type: none"> <li>▪ The <b>Steps</b> fact sheet is displayed when selecting a model in the  <b>Portal</b>. If the <b>Steps</b> fact sheet is not available, the <b>Overview</b> fact sheet is displayed.</li> <li>▪ The <b>Tasks</b> area is not available.</li> <li>▪ The  <b>Contribute</b> function is not available.</li> <li>▪ ARIS document storage and Process Governance are not available.</li> </ul>

These profiles are predefined in XML configuration.



### 3.4.20.13 What licenses and privileges are available?

For working with ARIS Cloud, the **Designer** and **Viewer** licenses are available. Furthermore, the **Administrator** privilege exists. Licenses and privileges are assigned to invited users.

While the licenses manage the use of the databases available in a project room, the **Administrator** privilege serves to manage project rooms.

- The **Designer** license enables users to create, edit, and delete models in databases. This means that these users edit databases.
- The **Viewer** license enables users to view models in databases. This means that these users use databases for review and information purposes.
- Users with the **Administrator** privilege can manage project rooms, e.g., invite users, assign licenses, and create or import databases. These users thus ensure that the project room users are provided with an optimal working environment.

## 3.5 Manage documents

ARIS document storage enables you to manage and temporarily or permanently save documents. Access restriction on folder level is possible in ARIS document storage.

ARIS document storage was tested with 40.000 documents. We recommend monitoring the number and overall size of stored documents and if needed some documents should be archived.


### 3.5.1 Configure jobs for ARIS document storage

You can configure jobs for ARIS document storage, which are executed regularly at a defined time.

#### Prerequisite

You have the **Technical configuration administrator** function privilege.

#### Procedure

1. Click your user name and select **Administration**.
2. Click  **Configuration**.
3. Click **Document storage**.
4. Click the arrow next to **Infrastructure**.
5. In the **Batch job schedule** field, enter the time at which a lock should be removed automatically. The time defined in the string must be a CRON expression (e.g., '0 0 2 \* \* ?' if this is to happen every night at 2:00 a.m.).

You have defined the point in time at which the automatic jobs should be run.


### 3.5.2 Display charts for documents

You can display various charts for documents.

#### Prerequisite

You have the **Technical configuration administrator** function privilege.

#### Procedure

1. Open ARIS Connect and log in with your user name and password.
2. Click  **Charts**.
3. Click **Documents**.

The charts for documents are displayed.

### 3.5.3 Use ARIS document storage with WebDAV

ARIS document storage supports WebDAV. You can connect only one tenant with a specific repository.

To grant users without the **Document management** role access to ARIS document storage content, ARIS document storage can be used as a WebDAV network drive.

With a Microsoft® Windows 7 operating system you just need to connect the relevant network and access ARIS document storage directly. With older operating systems, you need to use Web folders (select **Tools > Map Network Drive > Sign up for online storage connect to a network server** in Microsoft® Windows Explorer). If this does not work you need to configure your computer as follows.

#### Procedure

1. Open the Registry Editor.
2. Navigate to **HKEY\_LOCAL\_MACHINE\SYSTEM\CurrentControlSet\Services\WebClient\Parameters** and find the DWORD entry **BasicAuthLevel**.
3. Check if the value of this entry is **2**. If the value of this entry differs, please change it to **2**. If the DWORD entry does not exist, create it.
4. With operating systems older than Microsoft® Windows 7 you also need to find the DWORD entry **UseBasicAuth**. If it does not exist, create it.
5. Change the value of this entry to the hexadecimal value **1**. Thus, you enable HTTP Basic Access Authentication for SSL and non-SSL connections.
6. Close the Registry Editor.
7. Restart Microsoft® Windows.

You can now use ARIS document storage as a WebDAV network drive.

## 3.5.4 Use metadata

Metadata can be used to classify documents and is displayed in the properties (page 60) of a document.




### 3.5.4.1 Define custom metadata for documents

You can define custom metadata for documents saved in ARIS document storage. You can define attributes of type **String** or **Value**. If you define an attribute of type **Value**, you need to specify the allowed value range. For example, this user-defined metadata could be the color (green, blue, yellow) or the company size (small, medium, large). This metadata can be used to classify documents and is displayed in the properties (page 60) of a document.

#### Prerequisite

You have the **Document management** function privilege.

#### Procedure

1. Click your user name and select **Administration**.
2. Click  **Documents**.
3. Click the arrow next to ARIS document storage.
4. Click  **Open properties**. The details (page 78) of the folder are displayed.
5. Click **Attribute types**.
6. Click  **Add new attributes**. The **Add attribute type** dialog opens. Add the relevant attribute type.

You have defined custom metadata.

A user-defined attribute type cannot be changed. You can add or delete values.




### 3.5.4.2 Delete custom metadata

You can delete custom metadata.

#### Prerequisite

You have the **Document management** function privilege.

#### Procedure

1. Click your user name and select **Administration**.
2. Click  **Documents**.
3. Click the arrow next to ARIS document storage.
4. Click  **Open properties**. The details (page 78) of the folder are displayed.
5. Click **Attribute types**.
6. Move the mouse pointer over the attribute type to be deleted.
7. Click  **Delete**.

You have deleted custom metadata.


### 3.5.4.3 Display document properties

You can view the properties of a document or a folder.

#### Prerequisite

You have the **Document management** function privilege.

#### Procedure

1. Click  **Repository**.
2. Click **Documents**.
3. Click a folder in the navigation.
4. Click the relevant document. The **Document details** page opens.

The properties of the document are displayed.



### 3.5.4.4 Edit document properties

You can edit the properties of a document.

#### Prerequisite

You have the **Document management** function privilege.

#### Procedure

1. Click  **Repository**.
2. Click **Documents**.
3. Click a folder in the navigation.
4. Click the relevant document. The **Document details** page opens.
5. Click  **Edit**. Edit the document properties, e.g., change the description.

You have edited the properties of the document.


### 3.5.4.5 Edit document tags


You can edit the tags of a document. You cannot edit an existing tag, you can only delete it and replace it with a new one.

#### Prerequisite

You have the **Document management** function privilege.

#### Procedure

1. Click  **Repository**.
2. Click **Documents**.
3. Click a folder in the navigation.
4. Click the relevant document. The **Document details** page opens.

5. Click  **Edit**.
6. Enter a new tag. You can separate multiple tags by a comma.
7. Click **Save**.

You have edited the tags of the document.



### 3.5.4.6 Delete tags of a document

You can delete the tags of a document.

#### Prerequisite

You have the **Document management** function privilege.

#### Procedure

1. Click  **Repository**.
2. Click **Documents**.
3. Click a folder in the navigation.
4. Click the relevant document. The **Document details** page opens.
5. Click  **Edit**.
6. Click the little cross beside the tag name.
7. Click **Save**.

You have deleted a tag.




### 3.5.4.7 Change the document owner

You can change the owner of a document.

#### Prerequisite

You have the ARIS Connect Designer license.

#### Procedure

1. Click  **Repository**.
2. Click **Documents**.
3. Click a folder in the navigation.
4. Click the relevant document. The **Document details** page opens.
5. Click  **Edit**.
6. Next to the **Owner** field, click  **Edit**. The **Select owner** dialog opens.
7. Enter a character string that is part of the user name of the new owner. The matching users are displayed.
8. Enable the relevant user.

You have changed the owner of a document.

## 3.5.5 Use folders

The folder structure of ARIS document storage provides a better overview, and the possibility to specify access privileges (page 63).



### 3.5.5.1 Create folder in ARIS document storage

You can manage documents in your ARIS document storage. For a better overview, create a folder structure.

#### Prerequisite

You have the license right ARIS Connect Designer and have the corresponding permissions (Document administrator, Local administrator, or write permission).

#### Procedure

1. Click  **Repository**.
2. Click **Documents**.
3. Click a folder in the navigation.
4. Click the arrow next to a folder to open the menu.
5. Click  **Add folder**.
6. Enter a name for the folder, and click **OK**.

You have created a new folder.



### 3.5.5.2 Display folder details

You can view the details of a folder.

#### Prerequisite

You have the license right ARIS Connect Designer and have the corresponding permissions (Document administrator, Local administrator, or write permission).

#### Procedure

1. Click  **Repository**.
2. Click **Documents**.
3. Click the relevant folder, and click the arrow to open the menu.
4. Click  **Open properties**.

The details (page 78) of the folder are displayed.




### 3.5.5.3 Edit folder details

You can edit the properties of a folder.

#### Prerequisite

You have the license right ARIS Connect Designer and have the corresponding permissions (Document administrator, Local administrator, or write permission).

#### Procedure

1. Click  **Repository**.
2. Click **Documents**.
3. Click the relevant folder, and click the arrow to open the menu.
4. Click  **Open properties**. The details (page 78) of the folder are displayed.
5. Click  **Edit**.

You can edit the properties (page 78) of the folder.

### 3.5.5.4 Manage folder access for user groups

By default, no access privileges are defined in ARIS document storage. All users have access to all folders - including the root folder - and documents. You can limit the access (page 66) to individual folders of ARIS document storage so that not all ARIS document storage users can access all folders and their contents.




#### Warning

If you edit the access of a user or a user group to a folder for the first time, you also have to adapt the access privileges of the remaining users or user groups accordingly. Otherwise, all the remaining users or user groups will have no access at all.

#### Prerequisite

You have the **Document management** function privilege.

#### Procedure


1. Click  **Repository**.
2. Click **Documents**.
3. Click the relevant folder, and click the arrow to open the menu.
4. Click  **Open properties**.
5. Click **Access privileges**.
6. Click **Users groups**.
7. Enable the check boxes of the user groups you want to change the access privileges.
8. Click  **Edit access privileges**. The **Edit access privileges** dialog opens.
9. Enable **Pass access privileges on to all subfolders** if users or user groups should have access to the subfolders below the selected folder. Select the relevant access privilege from the list.



10. Click **OK**.

You have restricted the access to ARIS document storage folders.

#### Tip

If you want to change the access for a single user group, move the mouse pointer on the row of the relevant user group and click  **Edit access privileges**.

### 3.5.5.5 Manage folder access for users

By default, no access privileges are defined in ARIS document storage. All users have access to all folders - including the root folder - and documents. You can limit the access (page 66) to individual folders of ARIS document storage so that not all ARIS document storage users can access all folders and their contents.




#### Warning

If you edit the access of a user or a user group to a folder for the first time, you also have to adapt the access privileges of the remaining users or user groups accordingly. Otherwise, all the remaining users or user groups will have no access at all.

#### Prerequisite

You have the **Document management** function privilege.

#### Procedure

1. Click  **Repository**.
2. Click **Documents**.
3. Click the relevant folder, and click the arrow to open the menu.
4. Click  **Open properties**.
5. Click **Access privileges**.
6. Click **Users**.
7. Enable the check boxes of the users for whom you want to change the access privileges.
8. Click  **Edit access privileges**. The **Edit access privileges** dialog opens.
9. Enable **Pass access privileges on to all subfolders** if users or user groups should have access to the subfolders below the selected folder. Select the relevant access privilege from the list.
10. Click **OK**.

You have restricted the access to ARIS document storage folders.

#### Tip

If you want to change the access for a single user, move the mouse pointer on the row of the relevant user and click  **Edit access privileges**.



### 3.5.5.6 Show assigned users or user groups

You can restrict the view to those users or user groups who have access privileges to the selected folder.

#### Prerequisite

You have the **Document management** function privilege.

#### Procedure

1. Click  **Repository**.
2. Click **Documents**.
3. Click the relevant folder, and click the arrow to open the menu.
4. Click  **Open properties**.
5. Click **Access privileges**.
6. Click **Users** or **User groups**.
7. Enable **Show assigned users**.

Users or user groups who have access privileges to folders in ARIS document storage are displayed.



### 3.5.5.7 Delete folder in ARIS document storage

You can manage documents in your ARIS document storage. For a better overview, create a folder structure.

#### Prerequisite

You have the license right ARIS Connect Designer and have the corresponding permissions (Document administrator, Local administrator, or write permission).

#### Procedure

1. Click  **Repository**.
2. Click **Documents**.
3. Click a folder in the navigation.
4. Click the arrow next to a folder to open the menu.
5. Click  **Delete**. The **Confirmation** dialog opens.
6. Click **OK**.

You have deleted the folder.

## 3.5.6 Valuable information

This section provides background information to assist you in carrying out the relevant procedures.

### 3.5.6.1 What are the access privileges for folders?

By default, no access privileges are defined in ARIS document storage. All users have access to all folders - including the root folder - and documents. You can limit the access to individual folders of ARIS document storage so that not all ARIS document storage users can access all folders and their contents. The following access privileges exist:

- All access privileges  
The users or user groups with this privilege have full access to the folder and can view, edit, create subfolders and delete the folder but cannot assign privileges to users or user groups. They can upload new documents, new document versions, and delete documents.
- Folder administration access  
The users or user groups members with this privilege are local administrators for the folder and can view, edit, create subfolders, delete the folder, and assign privileges to the users and groups. But they cannot assign the **Folder administration access** privilege to other users or user groups. They can upload new documents, new document versions, and delete documents.  
When the **Folder administration** access privilege of a folder is revoked, the user also loses the **Folder administration** access privilege for all the subfolders that have implicit pass-on behavior. Thus, if no other restrictions apply, all users have access to these folders again.
- Reset access privileges  
The users or user groups with this privilege can revoke the permission on the folder if already assigned.
- 'Read' access privilege  
The users or user groups with this privilege can view the folder but are unable to upload new documents and new document versions or delete documents in the folder nor create new subfolders.
- 'Read + Write' Access privilege  
The users or user groups with this privilege can view and edit the properties of the folder and create subfolders. They can upload new documents, new document versions, and delete documents.

### 3.5.6.2 What are permanent documents?

Permanent documents remain in the ARIS document storage until they are explicitly deleted.

You can set up (page 63) access restrictions on the folder level for permanent documents.

If you use Process Governance, it is recommended that you specify that documents are to be saved permanently in ARIS document storage when modeling a dialog for an executable process, otherwise the location for these documents within ARIS document storage cannot be specified in the dialog. These documents are called temporary documents (page 67).

You can restrict access privileges on folder level only, not for individual documents. Users having the **Document management** function privilege can access all folders. If no roles are defined for access to a folder, all users have access to it.



### 3.5.6.3 What are temporary documents?



Temporary documents are documents that were not explicitly uploaded to ARIS document storage, but were added to the process during process instance runtime if you use Process Governance. They can be transformed into permanent documents and added (page 857) to ARIS document storage, if required.



Temporary documents are also saved in the safe area of ARIS document storage when you use an external document management system. These documents are deleted when the process instance is terminated.



You can transform a temporary document into a permanent document by moving it to ARIS document storage.

### 3.5.6.4 Which options are available for models or objects?

There are two options to connect documents with an object or model: The first is using the **ARIS document storage** attribute of an object or model. In the document details, documents connected with an object are preceded by the  symbol, and documents connected with a model are preceded by the  symbol.

The second option is to assign documents to an object or model in Model Editor. The assignment is marked by the  link symbol for objects and  for models.

In this case, the document details show that this document is connected via attributes with an object () or a model (.

The second option includes direct attachment to an object or model in the ARIS Connect Model Editor. This is marked by the  or  link symbols.

### 3.5.6.5 Which external document management systems can you use?

Only one external document management system may be used. This is where permanent documents (page 67) are managed. The storage for temporary documents (page 67) is not affected by this.

- Available is Microsoft® SharePoint 2013

### 3.5.6.6 What is the folder Dashboarding?

Data collected by scheduled reports (page 68) which are the basis for data feeds are stored in the **Dashboarding** folder in ARIS document storage.

These reports generate XML files.

By default, all users have access to the **Dashboarding** folder. Therefore it is strongly recommended to restrict the access (page 63) to the **Dashboarding** folder and all its subfolders to the user which is configured in the the URL alias (page 103).

The **United Motor Group** database is always delivered with your ARIS installation. With this database, you receive a set of default dashboards that can be displayed within ARIS Connect.

You find at least the following folders under the **Dashboarding** folder:

- Collaboration - containing the dashboard data for Collaboration
- Governance - containing the dashboard data for Process Governance
- Piwik - containing the dashboard data collected by Piwik (page 672)

#### **Under United Motor Group**

- CoE - containing the dashboard data for Center of Excellence (page 643)
- CXM - containing the dashboard data for Customer Experience Management (page 660)
- EA - containing the dashboard data for Enterprise Architecture (page 683)
- Exported Tables - containing the dashboard data for meta data, e.g., the person responsible for a process.
- Piwik - containing the dashboard data of the **United Motor Group** database collected by Piwik (page 672)

### 3.5.6.7 What are scheduled reports?

Scheduled reports are reports that start automatically at a defined point in time.

They run in the background and you can view the results later. For example, you can define that a report that strongly affects system performance is to run only at night when no one is working with the system.

You specify the schedule for reports in ARIS Architect. For further information please refer to the **Evaluate data > Use reports > Create schedule for report** chapter of the ARIS Architect online help.

### **3.5.6.8 What charts are available for documents?**

#### **3.5.6.8.1 What does the 'Number of documents' chart show?**

This chart only displays information.

It shows the total number of all documents per repository in ARIS document storage, if multiple repositories exist. Otherwise, the total number of documents is displayed.

#### **3.5.6.8.2 What does the 'Used space' chart show?**

This chart is a speedometer display.

If memory space (in kilobyte) for ARIS document storage for a tenant is restricted, the memory used is shown in the form of a speedometer. If no maximum memory space has been defined, the memory used is shown in megabytes.

#### **3.5.6.8.3 What does the 'Most viewed documents' chart show?**

This chart is a bar chart.

It shows the 15 most viewed or downloaded documents including their file size.

#### **3.5.6.8.4 What does the 'Most changed documents' chart show?**

This chart is a bar chart.

It shows the 15 most changed documents including their file size.

#### **3.5.6.8.5 What does the 'Largest documents' chart show?**

This chart is a bar chart.

It shows the 20 largest documents including their file size.

#### **3.5.6.8.6 What does the 'Latest documents' chart show?**

This chart is a simple list.

This chart shows the 15 latest documents.

### 3.5.6.8.7 What does the 'Document status overview' chart show?

This chart is a pie chart.

It shows the distribution and number of documents in the various document statuses. Document statuses are **In progress**, **Under review**, **Reviewed**, **Rejected**, and **Published**.

### 3.5.6.8.8 What does the 'Outdated documents' chart show?

This chart is a simple list.

This chart shows the 15 oldest documents.

## 3.5.7 What pages are there in ARIS document storage?

### 3.5.7.1 ARIS document storage attribute types

Enables the definition of custom metadata for documents saved in ARIS document storage. This page is available only for the root folder.

#### GENERAL BUTTONS

##### Add new attributes

Opens the **Add attributes types** dialog in which you can enter new attribute types for documents.

#### TABLE

##### Key

Specifies the key of the attribute. This is the name that is displayed in front of the box of allowed values.

##### Type

Specifies the type of the attribute.

##### Value range

Specifies the values that a user-defined attribute may have.

##### Edit

Opens the **Change attribute type** dialog. This is only available for **Value** type attributes.

##### Delete

Deletes a value from the list of allowed values for an attribute of the **Value** type.

### 3.5.7.2 Document details

Displays document details.

#### GENERAL BUTTONS

Buttons on the top right, whose functionality applies to the entire document including its versions.

##### Upload new version

Uploads a new version of the current document and creates the versioning information.

##### Download

Downloads the selected document to the local directory.

##### Lock

Locks the selected document for editing by other users. This symbol is displayed if the document is not locked.



**Unlock** 

Unlocks the selected document and enables editing by other users. This symbol is displayed if the document is locked.

**Delete** 

Deletes the current document and all its versions.

A confirmation prompt is shown. The document will be deleted if you click **Delete**. If you decide not to delete the document, click **Cancel**.

**Edit** 

Enables the editing of a document.

**TABLE****File name**

Displays the name of the document.

**Path**

Displays the path to the document.

**Title**

Displays the title of the document.

**Current version**

Displays the current version of the document. During a new upload of the document the last number is increased. When the document status is changed, the number in the middle is increased. The states **Approved**, **Rejected**, **In process**, and **To be approved** exist.

**Revision**

Shows the number of the revision for the selected document. Each time a document is checked out and changed, a new revision number is assigned.

**Status**

Shows the status of the document. The states **Approved**, **Rejected**, **In process**, and **To be approved** exist.

**ID**

Displays the ID of the document.

**File size**

Displays the size of the file.

**Owner**

Displays the name of this document's owner.

**Locked by**

Displays who has opened or locked the selected document.

**Created by**

Displays who created the document in ARIS document storage.

**Created on**

Displays the creation date of the document.

**Description**

Displays a detailed description of the document if the description is specified.

**List of tags**

Displays tags, if they exist. You can add new tags and edit or delete existing ones.

Displays the link to the physical location.

**Optional: Custom metadata**

Displays the custom metadata, if defined.

### 3.5.7.3 Document history

Displays the history of a document.

#### GENERAL BUTTONS

Buttons on the top right, whose functionality applies to the entire document including its versions.

**Upload new version** 

Uploads a new version of the current document and creates the versioning information.

**Download** 

Downloads the selected document to the local directory.

**Lock** 

Locks the selected document for editing by other users. This symbol is displayed if the document is not locked.

**Unlock** 

Unlocks the selected document and enables editing by other users. This symbol is displayed if the document is locked.

**Delete** 

Deletes the current document and all its versions.

A confirmation prompt is shown. The document will be deleted if you click **Delete**. If you decide not to delete the document, click **Cancel**.

#### TABLE

**Timestamp**

Shows the timestamp of the change to a document to the second, as well as the date of the change.

**User name**

Shows the user name that the user who performed the change was logged in with.

**Event**

Shows the change made, e.g., an update of the document relationship or a change to a document's metadata.

**Details**

Shows the event in detail.

### 3.5.7.4 Document relations

Displays the relationships of a document.

**GENERAL BUTTONS**

Buttons on the top right, whose functionality applies to the entire document including its versions.

**Upload new version** 

Uploads a new version of the current document and creates the versioning information.

**Download** 

Downloads the selected document to the local directory.

**Lock** 

Locks the selected document for editing by other users. This symbol is displayed if the document is not locked.

**Unlock** 

Unlocks the selected document and enables editing by other users. This symbol is displayed if the document is locked.

**Delete** 

Deletes the current document and all its versions.

A confirmation prompt is shown. The document will be deleted if you click **Delete**. If you decide not to delete the document, click **Cancel**.

**TABLE****Type**

Shows the type of the relationship, for example, **ARIS\_Model**, if the document is directly connected to a model. The following relationship types are displayed:

- The document is connected to a model via a link (**ARIS document storage** attribute type group)
- The document is connected to an object via a link (**ARIS document storage** attribute type group)
- The document is connected directly to a model (**ARIS\_Model**)
- The document is connected directly to an object (**ARIS\_OBJECT**)

**Reference**

Shows the document's reference to a model or object. The GUID of the model or object is shown, as well.

**Delete** ✕

Deletes the relation of the document.

If, for example, the document is connected with a model, this relationship is deleted from the model.

A confirmation prompt is shown. Click **OK** to delete the relation. If you decide not to delete the relation, click **Cancel**.

### 3.5.7.5 Document versions

Displays the versions of a document.

#### GENERAL BUTTONS

Buttons on the top right, whose functionality applies to the entire document including its versions.

**Upload new version** 

Uploads a new version of the current document and creates the versioning information.

**Download** 

Downloads the selected document to the local directory.

**Lock** 

Locks the selected document for editing by other users. This symbol is displayed if the document is not locked.

**Unlock** 

Unlocks the selected document and enables editing by other users. This symbol is displayed if the document is locked.

**Delete** 

Deletes the current document and all its versions.

A confirmation prompt is shown. The document will be deleted if you click **Delete**. If you decide not to delete the document, click **Cancel**.

#### TABLE

**Revision**

Shows the number of the revision for the selected document. Each time a document is checked out and changed, a new revision number is assigned.

**Size**

Displays the size of the file.

**Changed on**

Shows the date a document version was changed.

**Changed by**

Shows which user changed a version of a document.

**Comment**

Shows the comment entered when changing the version of the document.

**VERSION-SPECIFIC BUTTONS**

If you move the mouse pointer to the row of a version the version-specific buttons are displayed.

**Open version** 

Downloads the version of that row to the local directory.

**Delete** 

Deletes the version of that row.

This button is not available for the current version. This version can be deleted only together with the document itself.

A confirmation prompt is shown. The version will be deleted if you click **Delete**. If you decide not to delete the version, click **Cancel**.

### 3.5.7.6 Folder access privileges for user groups

Displays the folder access privileges of the associated user groups.

**GENERAL BUTTONS****Delete** 

Deletes the selected folder, its subfolders and all documents in them.

**Enter search term field**

Enter the name of the user group or user you want to edit.

**Pass on access privileges to all subfolders**

Activates the function based on which the restriction of access privileges is extended to all subordinate folders of the selected folder.

**TABLE****User group name**

Displays the name of the user group.

**Access type**

Displays the access privilege of a folder for a user group or a user.

**Edit**

Opens the **Edit access privileges** dialog.

### 3.5.7.7 Folder access privileges for users

Displays the folder access privileges of the users associated.

#### GENERAL BUTTONS

##### **Delete**

Deletes the selected folder, its subfolders and all documents in them.

##### **Enter search term field**

Enter the name of the user group or user you want to edit.

##### **Pass on access privileges to all subfolders**

Activates the function based on which the restriction of access privileges is extended to all subordinate folders of the selected folder.

#### TABLE

##### **User name**

Displays the name of the user.

##### **Full name**

Displays the full name of a user.

##### **Access type**

Displays the access privilege of a folder for a user group or a user.

##### **Edit**

Opens the **Edit access privileges** dialog.

### 3.5.7.8 Folder details

Displays the details of a folder. (page 62)

#### GENERAL BUTTONS

##### Delete

Deletes the selected folder, its subfolders and all documents in them.

##### Edit

Enables editing mode for the folder details.

#### TABLE

##### Folder name

Displays the name of the folder.

##### Path

Displays the path to the folder.

##### ID

Displays the ID of the folder.

##### Created by

Displays who created the folder in ARIS document storage.

##### Created on

Displays the creation date of the folder.

### 3.5.7.9 Folder history

Displays the folder history.

#### GENERAL BUTTONS

##### **Delete**

Deletes the selected folder, its subfolders and all documents in them.

##### **Refresh**

Refreshes the page displayed.

#### TABLE

##### **Timestamp**

Displays the timestamp of the changes to the folder details.

##### **User name**

Displays the user who changed the folder details.

##### **Event**

Displays what was changed for the folder, e.g., when a new subfolder was created.

##### **Details**

Displays what was changed for the folder in detail as a comma-separated list.



### 3.5.7.10 Select document page

Enables selection of the documents you want to add. Multiple selection is possible. Double-click to add a single document to the selection.

#### **ARIS document storage**

Enables you to select a document that is stored in ARIS document storage.

#### **Microsoft® SharePoint 2013**

Enables you to select a document that is stored in a third-party document management system.

#### **Properties**

Opens the **Document properties** dialog. This dialog displays document properties, such as file name, version, and file type.

#### **Previous version**

Opens the **Document versions** dialog, which displays a list of document versions with the corresponding change list numbers, the change date, and the name of the editor.

#### **Add to selection**

Adds the selected document to the document selection.

#### **Clear selection**

Clears the selection. All documents are removed from the selection.

#### **Remove document**

Removes the selected document from the selection. Multiple selection is possible. Select adjacent documents by holding down the Shift key and clicking the first and last document. Select individual objects by holding down the Shift key and clicking the relevant documents.

### EXPLORER TAB

Click the small right arrow in order to navigate to further subfolders.

#### **Selected documents**

Displays the list of documents already included in the selection.

### FIND TAB

#### **Find what**

Enables you to enter a term that occurs in the title, file name, description, or tags of the document.

#### **Search result**

Displays the documents that match the search criteria.

#### **Selected documents**

Displays the list of documents already included in the selection.

### 3.5.7.11 Select tags page

From the available tags, select those you want to use for marking the document.

#### **Specify tag filter...**

Used for entering a search term to restrict the number of the tags displayed existing in the system. When you enter the first letters the display is restricted to the tags that fit your input.


#### **Select tags to be added**

Enable the check box in front of the tags you wish to identify the document with.


### 3.5.7.12 Upload document page

Enables the upload of the required document.

#### **File**

Enter the name of the file. To search your file system, click  **Browse**.

#### **Location**

Enables you to select the location where files are to be saved in ARIS document storage. Click the small right arrow in order to navigate to further subfolders. To browse, click  **Browse** next to the box.

#### **Comment**

Enables you to enter a comment that will be displayed in the **Document versions** dialog.

#### **Title**

Used to enter the title of the document to be uploaded.

#### **Description**

Used to enter the description of the document to be uploaded.


#### **Tags**

Displays tags, if they exist. You can add new tags and edit or delete existing ones.

#### **Enter suggestions here**

Used to enter new tags. Press Enter to transfer the new tag.

#### **Delete individual tag**

Click  **Delete** to delete an individual tag or selected tags for this document. Multiple selections are allowed.

#### **Delete all tags**

Click  **Delete all tags** to delete all tags for this document.

#### **Find**

Click  **Find** to search for corresponding tags for this document in your ARIS document storage.

## 3.6 Administrate automated processes

Process administration (page 95) in ARIS Connect provides information and functions pertaining to automated processes.

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### ARIS video tutorial



### 3.6.1 Start governance process in process administration

You can start the executable process in process administration for processes or process versions.

#### Prerequisite

You have the Process Governance administrator (page 94) function privilege.

#### Procedure



1. Open (page 95)  **Process administration** in ARIS Connect.
2. Navigate to the executable process you want to start, or to the process version.
3. Click the process or version.
4. Click  **Start governance process**. The **Select context** dialog opens. The items are displayed on which the executable process can be started depending on the specified execution context.
5. Select the relevant model.
6. Click **OK**.

The executable process is started for the selected item.

### 3.6.2 Export process administration content as a CSV file

You can export data of human tasks, instance monitoring, and the console, for example, for evaluation purposes.

#### Procedure



1. Open (page 95)  **Process administration** in ARIS Connect.
2. Click **Human tasks**, **Instances**, **Variables**, or **Console**, or got to **Processes** and click the process instance and then **History**.
3. Click  **Export as a CSV file** in the navigation bar. The dialog opens.
4. Select the output options.
5. Click **Export**.

The content is exported as a CSV file.

### 3.6.3 Send reminder about executing human tasks

You can send reminders about human tasks to the relevant executors.

#### Procedure

1. Open (page 95)  **Process administration** in ARIS Connect.
2. Open the relevant human task.
3. Click  **Send reminder**.

The users assigned to the human tasks as executors receive an e-mail with the information that the task is to be edited.

If 75% of the processing time has expired, the executors automatically receive a reminder. If the task is not edited by the due date the escalation manager (page 101) is notified. Statistics data in the form of charts (page 102) for human tasks are available under **Charts > Governance > Human tasks**.

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#### ARIS video tutorial

Process administration overview



(<http://www.ariscommunity.com/videos/process-administration-aris-connect-overview>)


(approx. 3 minutes)

### 3.6.4 Suspend execution of a process instance

You can suspend the execution of a process instance. This can be useful, for example, if a server outage would cause the process execution to fail.

#### Procedure



1. Open (page 95)  **Process administration** in ARIS Connect.
2. Click the relevant process instance under **Processes**.
3. Click  **Suspend**.

The execution of the process instance is suspended. It has the status **Suspended**. It can be resumed (page 84) again later. Unlike the  **Suspend recurrence** function, it is not the creation of recurrences that is suspended for the entire process, but only the execution of this process instance.

#### Example

The **Save data** process is started at midnight each night. The process comprises the two steps **Copy data** and **Archive data**.

- **Suspend recurrence**

If  **Suspend recurrence** is selected, the process will no longer be started as of the next night and will not resume until  **Resume recurrence** is selected. However, all running process instances are completed.


- **Suspend process instances**

If **|| Suspend** is selected at night for a running process instance that has just finished copying data, this specific process instance is suspended, in other words, the data will no longer be archived. Process execution stops at this point. The next night, however, a new instance of the process is started, the data is backed up and archived. The suspended process instance will not continue to run until **▶ Resume** is selected.

### 3.6.5 Resume execution of a process instance

You can resume the execution of a process instance that was previously suspended (page 83).

#### Procedure


1. Open (page 95)  **Process administration** in ARIS Connect.
2. Click the relevant process instance under **Processes**.
3. Click **▶ Resume**.

The execution of the process instance is resumed.

### 3.6.6 Terminate execution of a process instance

You can terminate the execution of a process instance permanently if, for example, the executable process is no longer relevant.

#### Procedure



1. Open (page 95)  **Process administration** in ARIS Connect.
2. Click the relevant process instance under **Processes**.
3. Click **■ Terminate**.

The execution of the process instance is terminated permanently.

### 3.6.7 Suspend recurrence for the executable process

You can suspend the recurrence of an executable process.

#### Procedure

1. Open (page 95)  **Process administration** in ARIS Connect.
2. In the navigation, click the relevant process version under **Processes**. Processes for which a recurrence has been configured are identified in process administration by the symbol .
3. Click **|| Suspend recurrence**.



The recurrence of the executable process is suspended. You can continue (page 85) later with the existing configuration.

Unlike the **|| Suspend** function, the creation of recurrences is suspended for the entire process, not just for the execution of a given process instance.



### Example

The **Save data** process is started at midnight each night. The process comprises the two steps **Copy data** and **Archive data**.

- **Suspend recurrence**

If  **Suspend recurrence** is selected, the process will no longer be started as of the next night and will not resume until  **Resume recurrence** is selected. However, all running process instances are completed.




- **Suspend process instances**

If  **Suspend** is selected at night for a running process instance that has just finished copying data, this specific process instance is suspended, in other words, the data will no longer be archived. Process execution stops at this point. The next night, however, a new instance of the process is started, the data is backed up and archived. The suspended process instance will not continue to run until  **Resume** is selected.

## 3.6.8 Resume recurrence for the executable process

You can resume the recurrence of an executable process that was previously suspended.

### Procedure

1. Open (page 95)  **Process administration** in ARIS Connect.
2. In the navigation, click the relevant process version under **Processes**. Processes for which a recurrence has been configured are identified in process administration by the symbol .
3. Click  **Resume recurrence**.

The recurrence of the executable process is resumed with the existing configuration.



## 3.6.9 Delete executable process

You can deactivate the executable process if, for example, this process is outdated and should therefore no longer be used.

### Warning

When a generated executable process is deactivated, the process version and all related information, such as instances, subprocesses, etc., are removed from process administration. The deactivated processes are not exported to Process Performance Manager.

### Procedure

1. Open (page 95)  **Process administration** in ARIS Connect.
2. Under **Processes**, click the process, process version, or process instance.
3. Click  **Delete**.

The selected item is deactivated.






### 3.6.10 Suspend, resume, or terminate simulation runs

You can suspend and resume active simulation runs or terminate them. This can be useful, for example, if a server outage would cause the process execution to fail.

#### Prerequisite

You have the Process Governance administrator (page 94) function privilege.

#### Procedure

1. Open (page 95)  **Process administration** in ARIS Connect.
2. Click the relevant process and then select the version number under **Processes** in the navigation. Processes for which a Process Governance Simulation was performed are marked with .
3. To suspend a simulation run, click the relevant process instance and select  **Suspend**.
4. Use  **Resume** to continue the simulation run at a later time.
5. To stop a simulation run, select  **Terminate**. The simulation run is terminated and cannot be restarted.

The simulation run is suspended, resumed, or terminated depending on the selected action.

### 3.6.11 Find and correct problems in processes

To ensure a smooth process flow the Process Governance administrator must be able to query information on processes and intervene, if required. Information and functions are provided in process administration (page 94) in ARIS Connect for this purpose. If problems occur during process execution, e.g., if an error occurs during an automated task or the recipient of an e-mail message is not recorded as a user, the Process Governance administrator is informed by e-mail.



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#### ARIS video tutorial

#### 3.6.11.1 List processes and display instance/version in the Explorer tree

You can display a list of process instances in their various statuses (page 100). You can check if process instances failed so that you can correct (page 89) and restart them, if required.

#### Procedure

1. Open (page 95)  **Process administration** in ARIS Connect.
2. Click **Instances**. The list of process instances is displayed.
3. Click  **Filter** to restrict the number of process instances displayed based on various criteria.
4. Select filter criteria.
5. Click **Apply filter**. To display the unfiltered list of process instances, click **Reset filter**.

6. To display a specific instance/version, move the mouse pointer over the relevant table row and select  **Display process instance** or  **Display process version**. The instance/version is selected in the Explorer tree.

The list of process instances in their various statuses is displayed.

#### Tip

You can also display instances or versions in the Explorer tree by using **Human tasks**.

---

#### ARIS video tutorial


Find and correct problems in processes

(<http://www.ariscommunity.com/videos/learn-how-find-problems-process-and-correct-processes>) (approx. 9 minutes)

### 3.6.11.2 Review input and output data of an activity

When you receive an e-mail informing you that an activity has failed you can review the input and output data of the activity to find out whether they caused the failure.

#### Procedure

1. Open (page 95)  **Process administration** in ARIS Connect.
2. Select the process instance of the executable process containing the failed activity. You were informed about the relevant activity in the notification.
3. Click **History**.
4. Click the activity whose execution failed.

Input and output data of the activity are displayed. Review the data.

You can change the output data using the function Skip activity (page 88).

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#### ARIS video tutorial


Find and correct problems in processes

(<http://www.ariscommunity.com/videos/learn-how-find-problems-process-and-correct-processes>) (approx. 9 minutes)

### 3.6.11.3 Restart activities with status FAILED

You can restart failed activities. You are notified by e-mail if an activity failed.

#### Procedure

1. Open (page 95)  **Process administration** in ARIS Connect.
2. Click the process instance of the executable process containing the failed activity. You were informed about the relevant activity in the notification.
3. Click **History**.
4. Move the mouse pointer over the activity whose execution failed. The buttons of the available functions are displayed.
5. Click **Retry**.



The activity is restarted with the same data as the failed activity.

If the activity cannot be restarted, you will receive a notification. You can skip (page 88) the activity.

---

### ARIS video tutorial



Find and correct problems in processes

(<http://www.ariscommunity.com/videos/learn-how-find-problems-process-and-correct-processes>) (approx. 9 minutes)

## 3.6.11.4 Skip activities with status 'Failed'

If a restart (page 87) is impossible, you can skip failed activities. You are notified by e-mail if an activity failed.

### Procedure

1. Open (page 95)  **Process administration** in ARIS Connect.
2. Click a process instance of an executable process.
3. Click **Activities**. The process instance activities are listed.
4. Move the mouse pointer over the activity you want to skip. The buttons of the available functions are displayed.
5. Click  **Skip activity**. If output data was specified for the activity, a dialog opens for you to correct the data and thus avoid further failure. If no output data was specified for the activity, the activity is skipped immediately.
6. Change the output data.
7. Click **Save**.

The process continues with the next activity.

---

### ARIS video tutorial




Find and correct problems in processes

(<http://www.ariscommunity.com/videos/learn-how-find-problems-process-and-correct-processes>) (approx. 9 minutes)

### 3.6.11.5 Correct and restart process instances with status 'Failed'

You can restart failed process instances. You are notified by e-mail if a process instance failed.

#### Procedure

1. Open (page 95)  **Process administration** in ARIS Connect.
2. Click **Instances**.
3. Click  **Filter**, select the filter **Status** and the status **FAILED**.
4. Click **Apply filter**. The list of failed process instances is displayed.  
Alternatively, you filter process instances with the filter **ID** by entering the ID of the failed process instance, which you received in the notification.
5. Move the mouse pointer over the process instance you want to correct. The buttons of the available functions are displayed.
6. Select  **Display process instance**. The instance is displayed.
7. Click **Console** to obtain further information on why the instance failed.
8. Correct the errors that led to the process instance failing.
9. Click the relevant process instance.
10. Click **History**.
11. Move the mouse pointer over the activity whose execution failed. The buttons of the available functions are displayed.
12. Click **Retry**.

The activity is restarted and the process instance continues.

---

#### ARIS video tutorial

Find and correct problems in processes

(<http://www.ariscommunity.com/videos/learn-how-find-problems-process-and-correct-processes>) (approx. 9 minutes)


## 3.6.12 Display information

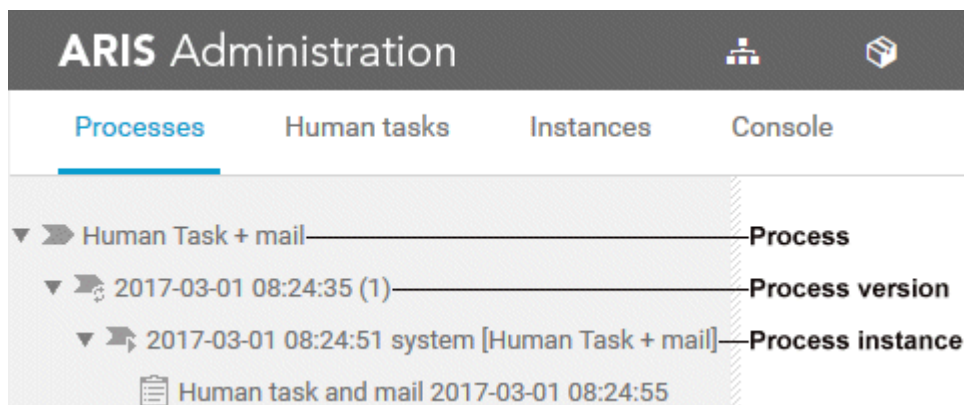
Process administration in ARIS Connect (**ARIS Administration > Process administration**) provides functions (page 94) for process automation and information about executable processes.

### 3.6.12.1 Display information about executable processes



In process administration, existing executable processes are displayed. You receive detailed information on processes, process versions/instances, and human tasks (Details (page 97), Context (page 97), History (page 98), Activities (page 98), Console (page 97), Assignments (page 97)).

#### Procedure

1. Open (page 95)  **Process administration** in ARIS Connect.
2. Click the process, process version, process instance, or human task.



3. Activate the required function in the navigation bar.

The information available for this item is displayed. Processes for which a Process Governance Simulation was performed are marked with . Processes for which a recurrence has been configured are identified in process administration by the symbol . Statistics data in the form of charts (page 102) for Governance processes are available under **Charts > Governance > Processes**.

#### ARIS video tutorial

Process administration overview


(<http://www.ariscommunity.com/videos/process-administration-aris-connect-overview>)

(approx. 3 minutes)


### 3.6.12.2 Display information about activities

You can display details of an activity.

#### Procedure

1. Open (page 95)  **Process administration** in ARIS Connect.
2. Under **Processes**, click the relevant process instance.
3. Click **History**.
4. Click the relevant activity in the table.
5. Click **Input activities**.
6. Click **Show associated activity in the history** to display the corresponding activity in the history table. Then click **Input activities** again.

Alternatively, you can click **Used by** so that all activities for which the selected activity acts as an input activity are displayed.



7. Click **Input data** or **Output data** to check the data. Additionally, you can click  **Show details** to display the XML data.

The relevant details are displayed.

### 3.6.12.3 Display human tasks of a process instance

You can display the human tasks associated with a process instance.

#### Procedure

1. Open (page 95)  **Process administration** in ARIS Connect.
2. Click the process instance whose human tasks you want to display.
3. Click  **Show tasks**.

The associated human tasks are displayed.

---

#### ARIS video tutorial

Process administration overview

(<http://www.ariscommunity.com/videos/process-administration-aris-connect-overview>)

(approx. 3 minutes)




### 3.6.12.4 Display and delegate executors of a human task

You can display the executors of human tasks and delegate tasks.

#### Prerequisites

- A task must have been selected in the list.
- The task must have been assigned to a user group.
- The status of this task is **New** or **In process**.
- The user to whom the task has been transferred belongs to the allowed group (data flow: **Group of allowed delegates**).

#### Procedure

1. Open (page 95)  **Process administration** in ARIS Connect.
2. Click **Human tasks**.
3. Move the mouse pointer over the relevant task. The buttons of the available functions are displayed.
4. Click  **Show details**. The human task is displayed in **Processes**.
5. Click **Assignments**.
6. Move the mouse pointer over the relevant task. The buttons of the available functions are displayed.
7. Click  **Delegate task**. The **Select executor** dialog is displayed.
8. Click the executor who you want to delegate the task to. Filter the list of executors if it is too large.
9. Click **Save**.

The task is passed on to the selected executor and its status (page 100) is displayed as **Delegated**.

Statistics data in the form of charts (page 102) for human tasks are available under **Charts > Governance > Human tasks**.

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#### ARIS video tutorial

Process administration overview

(<http://www.ariscommunity.com/videos/process-administration-aris-connect-overview>)

(approx. 3 minutes)



### 3.6.13 Handle simulation

The simulation of executable processes (Process Governance Simulation) enables you to test the modeling of processes before release. The automated execution of all process passes and the possible data combinations is less error-prone and quicker than the manual method.

#### 3.6.13.1 Display simulation information


In process administration, the processes for which Process Governance Simulation was performed are displayed. You receive further information and tips regarding errors. If the simulation of a process instance fails, the Process Governance administrator receives a notification and a message is displayed in Instance monitoring.

##### Procedure



1. Open (page 95)  **Process administration** in ARIS Connect.
2. Click the relevant process and then select the version number under **Processes** in the navigation. Processes for which a Process Governance Simulation was performed are marked with .
3. Click the relevant process instance.
4. Click Details (page 97) to display information about the status and progress of the simulated process instances.
5. To display simulation data for simulated activities, click History (page 98), and activate the relevant activity in the table.
6. If you need an overview of the process instances a simulation was performed for, click Instances (page 96). The simulated activities are selected in the **Simulated** column.
7. To display messages regarding the process instance, activate the Console (page 97) bar. The various process passes of the instance are displayed under the process instance, e.g., when an XOR operator is used in the process.

This information can be used to resolve modeling errors and optimize the process.

#### 3.6.13.2 Share simulated process

You can release process versions that were created and checked by Process Governance Simulation, i.e., transform the simulated process into a normal process. It is not possible to start a governance process for process versions generated by the simulation. These are marked with  in the ARIS Connect process administration. This can be done after the transformation into a released process.

##### Procedure

1. Open (page 95)  **Process administration** in ARIS Connect.
2. Select the relevant process version.
3. Click  **Transform simulated version into a normal process.**

The process version is transformed into a normal process.




### 3.6.13.3 Delete simulation runs

You can delete terminated simulation runs to make process administration clearer.

#### Prerequisite

You have the Process Governance administrator (page 94) function privilege.

#### Procedure

1. Open (page 95)  **Process administration** in ARIS Connect.
2. Click the relevant process and then select the version number under **Processes** in the navigation. Processes for which a Process Governance Simulation was performed are marked with .
3. Click the relevant process instance.
4. Click  **Delete**.
5. Confirm the confirmation prompt by clicking **OK**.

The simulation run is deleted and removed from Process administration.

### 3.6.14 Valuable information

This section provides background information to assist you in carrying out the relevant procedures.

#### 3.6.14.1 What tasks does the Process Governance administrator perform?

The Process Governance administrator manages (page 95) the processes. Process administration in ARIS Connect provides process automation functions and supplies information on processes. Depending on whether a process, process version, or process instance is selected, various functions and tabs are available:

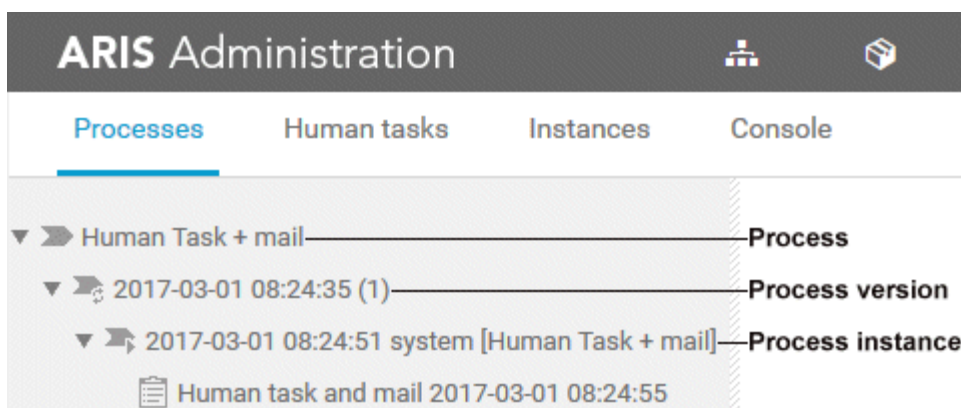
- Start (page 82) governance processes in process administration, e.g., older versions of the process.
- Deactivate (page 85) executable processes.
- Restart (page 87) activities in the status **FAILED**.
- Suspend (page 83) the execution of process instances.
- Resume (page 84) the execution of process instances that were previously suspended.
- Terminate (page 84) the execution of process instances if, for example, the executable process is no longer relevant.
- Configure recurrences for an executable process.
- Suspend (page 84) the recurrence of an executable process
- Resume (page 85) the recurrence of an executable process that was previously stopped.
- Suspend the recurrence of an executable process
- Resolve error in process.

- Read privileges for the Console (page 97) bar also at the process level.
- View all tasks of other users in ARIS Process Board.

Statistics data in the form of charts (page 102) for Governance processes are available under **Charts > Governance > Processes**.

### 3.6.14.2 Where do I find process administration and what does it include?

Process administration in ARIS Connect (**ARIS Administration > Process administration**) provides functions (page 94) for process automation and information about executable processes. Executable processes, process versions, process instances, and human tasks are displayed under **Processes**.



#### EXECUTABLE PROCESS

You can delete (page 85) the executable process including all versions and instances.

#### PROCESS VERSION

You can start (page 82) the governance process or delete (page 85) the process version. If a recurrence is configured, you can suspend (page 84) the recurrence of the process. You can transform (release (page 93)) simulated processes into a normal process.

#### PROCESS INSTANCE

You can display (page 91) associated tasks, and suspend (page 83), resume (page 84), terminate (page 84), or delete (page 85) the process instance.

The context selected for the process instance is displayed in the navigation tree. Further information can be found in the detailed (page 97) view.

#### HUMAN TASK

You can send (page 83) a reminder to the executors of the tasks.



## NAVIGATION BARS

Use the navigation bars to display human tasks (page 96), instances (page 96), variables, the console (page 97), details (page 97), context (page 97), history (page 98), and activities (page 98).

---

### ARIS video tutorial



Process administration overview

(<http://www.ariscommunity.com/videos/process-administration-aris-connect-overview>)



Find and correct problems in processes

(<http://www.ariscommunity.com/videos/learn-how-find-problems-process-and-correct-processes>) (approx. 9 minutes)

### 3.6.14.3 What functions/information does 'Humans tasks' provide?



The human tasks of all executable processes are displayed. Use  **filters** to restrict the number of process instances displayed according to various criteria. You can sort the table by different columns, e.g., by status. You can export the data as a CSV file (.

You can display/delegate (page 92) the assigned executor or send (page 83) a reminder to the executors. To do so, move the mouse pointer over the relevant task and select **Show details**.


To display a specific instance/version, move the mouse pointer over the relevant table row and select  **Display process instance** or  **Display process version**.

Statistics data in the form of charts (page 102) for human tasks are available under **Charts > Governance > Human tasks**.

### 3.6.14.4 What functions/information does 'Instances' provide?

It provides an overview of the process instances and their various statuses (page 100). Use  **filters** to restrict the number of process instances displayed according to various criteria. You can sort the table by different columns, e.g., by status. You can export the data as a CSV file (.

You can check if process instances failed so that you can correct (page 89) and restart them, if required.

To display a specific instance/version, move the mouse pointer over the relevant table row and select  **Display process instance** or  **Display process version**.

Statistics data in the form of charts (page 102) for Governance processes are available under **Charts > Governance > Processes**.

### 3.6.14.5 What functions/information does 'Console' provide?

The console can be shown for all processes or for a process instance. The following messages are displayed:

- Log messages for process instance execution.
- Messages that were generated by the user interface during execution of process instances (log, server, and user management messages). You can filter the messages by their severity.

You can export the data as a CSV file ()

### 3.6.14.6 What functions/information do 'Details' provide?

Details (page 90) provide different information, such as ID, status, priority, depending on whether you selected a human task, a process version, or process instance. In addition, they display the assigned users for human tasks (**Assignments**).

### 3.6.14.7 What functions/information does 'Context' provide?

The context can be displayed for the process version or the process instance. The execution context determines from which items (database, group, model/object type, document), in which applications (e.g., ARIS Connect), and by which users a governance process can be started. The context must be defined in ARIS before generating the executable process. The context selected for the process instance is also displayed in the navigation tree (page 95) for process administration and in instance monitoring (page 96).

### 3.6.14.8 You have activated 'Diagram'.

**Diagram** is displayed if you have selected a version of an executable process or a process instance of an executable process. Use **Toggle between EPC and BPMN diagram** to toggle between the EPC display of the executable process and the BPMN diagram generated by the automatic model transformation.

Activities that are currently running or have failed are selected in both models (EPC and BPMN diagram). Compared to the EPC, the BPMN diagram can contain additional activities as these are required for the technical process. In this case, the last selected activity remains selected in the EPC until the next matching activity is reached.

All processes involved are displayed for executable processes that consist of multiple processes.

- If nothing is active, the start model is displayed.
- If an object is active, the models containing active objects are displayed.

To display the properties of the running activity, click the  **Show details** button.

### 3.6.14.9 What functions/information does a recurrence provide?


The information on recurrences is displayed for process versions for which a recurrence is configured in the model. You can suspend and resume recurrences in process administration. Recurrence configuration and cancelation of recurrences is done in ARIS Architect.

#### 3.6.14.10 You have activated 'History'.

**History** is displayed if you have selected a process instance of an executable process. The tab lists activities run by process instances. If an entry contains a process instance with the **Failed** status, the activity can be restarted (page 87) from here.

To display the input/output data or the simulation data for simulated activities, click the activity in the table.

To get additional details of an input activity, you can display the corresponding activity in the history table. In the row of the relevant input activity, click **Show associated activity in the history**. Alternatively, you can click **Used by** so that all activities for which the selected activity acts as an input activity are displayed.

Click **Input data** or **Output data** to check the data. Additionally, you can click  **Show details** to display the XML data.

#### 3.6.14.11 What functions/information does 'Activities' provide?

**Activities** are displayed if you have selected a process instance of an executable process. It displays the activities of the executable process of the **BPMN process diagram (BPMN 1.x)** type. To skip (page 88) an activity, move the mouse pointer over the relevant row, and click **Skip activity**.

#### 3.6.14.12 What is an executable process?

An executable process is a process that reflects a certain process flow in your company with all the related steps. All information relevant to Process Governance is recorded in EPCs, value-added chain diagrams, organizational charts, dialogs, and data flows (BPM process). The BPM process is automatically transformed into a technical process that can be executed by Process Governance. All relevant information for the BPM process is interpreted, transformed into a BPMN diagram, and all relevant models and objects are archived. The BPMN diagram is the basis for Process Governance. It controls the governance process. The executable process can then be started for a specified context.

Further information is available in the **Modeling conventions for automation** manual on your installation media.

### 3.6.14.13 Where can the executable process be started?

The executable process can be started in ARIS Architect, ARIS Designer, ARIS Connect, or in the ARIS Connect process administration. The message displayed after starting the governance process can be specified individually for each process (EPC, VACD).

### 3.6.14.14 What is the context for executable processes?

The execution context determines from which items (database, group, model/object type, document), in which applications (e.g., ARIS Connect), and by which users a governance process can be started. The context must be defined in ARIS before generating the executable process. After this, the context can no longer be changed for the generated process version. If no execution context is defined, the governance process can be started for all items (**Without context** option). The defined execution context is displayed in process administration.

### 3.6.14.15 What happens when an executable process is deactivated?

When a generated executable process is deactivated, the process version and all related information, such as instances, subprocesses, etc., are removed from process administration. The deactivated processes are not exported to Process Performance Manager.

### 3.6.14.16 Which status can activities have?

An activity can have any of the following statuses:

- **ACTIVE**  
The activity is just being performed.
- **TERMINATED**  
The Process Governance administrator terminated the activity manually during process execution. This may be called for if, for example, the executable process is no longer relevant.
- **FAILED**  
The activity could not be performed completely due to an error. Failed activities can be restarted after the error is fixed.
- **SUSPENDED**  
The activity has been automatically canceled.
- **COMPLETED**  
The activity was completely performed.


### 3.6.14.17 Which status can process instances have?

A process instance can have any of the following statuses:

- **Running**  
The process instance is running the process.
- **Suspended**  
The Process Governance administrator suspended (page 83) the process instance manually during process execution. This can be useful, for example, if a server outage would cause the process execution to fail.
- **Terminated**  
The Process Governance administrator terminated (page 84) the process instance manually during process execution. This may be called for if, for example, the executable process is no longer relevant.
- **Failed**  
The process instance was not able to pass through the process completely due to an error. Failed process instances can be restarted (page 89) after the error is fixed.
- **Idle**  
The process instance is in wait state because something unforeseen has happened while the process was passed through. The Process Governance administrator must check and resolve this.
- **Completed**  
The process instance has completely passed through the process.

### 3.6.14.18 What statuses can tasks have?

Tasks can have the following statuses in **My tasks**:

- **New**  
The task has not been edited since it was assigned or it was reset.
- **In process**  
The task was partially edited and the editor then finished editing by selecting **Save** to save the current input and resume editing at a later time.
- **Active**  
Tasks to be edited, i.e., tasks in the **New** or **In process** state.
- **Overdue**  
The specified processing time of the task has expired. If the list contains overdue tasks, the number is displayed in the top ARIS Process Board bar .
- **Suspended**  
The process instance that triggers this human task has been suspended in the process administration.

- **Being edited by another user**

This status is set automatically as long as a task that was assigned to several possible executors is currently being edited by one of them. Tasks with this status are displayed with a gray background in the list.

- **Failed**

The task could not be performed because a problem occurred.

- **Completed**

Editing of the task was completed with **OK**. Further editing is no longer possible. However, you can open the task with a double-click to view details. Tasks with this status are displayed with a gray background and with strikethrough formatting in the list.

- **Passed on**

Editing of the task was passed on from the executor to another user for a specific period of time.

- **Delegated**

Editing of the task was passed on permanently from the original assignee to another user. The task remains in the list of the original assignee with this status.

- **Task assignment failed**

The task was not completed by any executor before its due date. The group of executors contained either no executors or no active executors.

### 3.6.14.19 What is the escalation manager?

The escalation manager is the user who is notified when a human task is not completed by any executor by the due date. It is specified in the data flow diagram or in the model using an organizational element and the **is escalated to** connection.

## 3.7 Use charts

Charts represent accumulated statistics data graphically.

### 3.7.1 Display charts


You can view statistics data for the **Users, Documents, Modeling, and Governance** areas as charts. Charts can be used, for example, to perform real-time checks.

#### Prerequisite


You have one of the following function privileges:

- **User administrator** (charts on user management)
- **Database administrator** (charts on modeling)
- **Document administrator** (charts on ARIS document storage)
- **Process Governance administrator** (charts on Process Governance)
- **Generate user statistics (com.aris.umc.audit.enabled)** is enabled in the configuration (page 433). Only the **Users > License usage** chart is displayed regardless of this activation.

#### Procedure

1. Click  **Charts**.
2. Click the relevant area (**Users, Documents, Modeling, Governance**).

The charts for the selected area are displayed. The user management charts do not contain any data for technical users by default (system, superuser, arisservice, and guest). Move the mouse pointer over a chart to view an explanation.

You can update the charts to reflect the current state by clicking  **Refresh**. You can also export (page 42) statistics on usage patterns, assignments, changes to data and database items made by the user, the information used most often or the information used last, etc.

### 3.7.2 What charts exist?

There are charts from the user management, document storage, modeling, and Process Governance (processes and human task) areas. The user management charts do not contain any data for technical users by default (system, superuser, arisservice, and guest). Move the mouse pointer over a chart to view an explanation.

## 3.8 Administrate dashboards (ARIS Aware)

You can use the product ARIS Aware as visualizing component of ARIS Connect. Using ARIS Aware enables you to combine information from many sources and visualize data as KPIs by means of dashboards. ARIS Aware supports users in various departments across the enterprise by providing dashboards for evaluating a wide variety of data. It improves the transparency of the business and enables you to make the best decisions based on reliable data analyses. ARIS Aware is equipped with ready-to-go templates for common scenarios in the context of business process management, including Center of Excellence (CoE) (page 643), Business Usage Monitoring (page 672), Enterprise Architecture Management (page 683), Customer Experience Management (CXM) (page 660), Process Performance Management, and Governance Risk and Compliance Management. These templates can be extended and customized according to the individual requirements of a company.

### 3.8.1 Configure dashboards

Specify a URL alias of the server where data for dashboards and data feeds are stored. You can specify a URL alias of the Process Performance Manager server as well.


#### 3.8.1.1 Add an alias URL for dashboards

Define the alias URL to be used within data feeds. If you specify **Feed URL** all default data feeds will work properly.

##### Prerequisite


- You have the **Dashboard administrator** function privilege.
- You have an ARIS Connect Designer (page 48) license.
- Your ARIS Server is enabled for ARIS Aware.

##### Procedure

1. Start ARIS Connect.
2. Click your user name and select **Administration**.
3. Click the  **Configuration** tab.
4. Click **Dashboards**.
5. Select **URL\_ALIAS** from the list.
6. Click **+ Add**. The **Add property** dialog opens.
7. Enter the alias. Enter **Feed URL** for the content that is delivered with the installation.
8. Enter the protocol (http or https) to be used for the communication.
9. Enter a fully-qualified host name (FQHN). Enter the fully-qualified host name, e.g., myserver.mydomain.ext, where ARIS Server runs for the content that is delivered with the installation, e.g. copy it from your browser's URL.
10. Enter the port. Enter the port on which ARIS Server runs for the content that is delivered with the installation.



11. Enter user name and password of the user who is supposed to have access to the data feeds used by the dashboards.

If you change the password of the user who created this URL\_ALIAS, you must also update the password for the **Feed URL** alias ( **Edit Property**). Otherwise dashboards cannot be displayed.

12. Click  **Save**.

The alias URL is defined.

This alias URL can be used for your data feeds.




### 3.8.1.2 Edit an alias of the ARIS Server

Edit an alias of the ARIS Server where data for dashboards and feeds are stored.

#### Prerequisite

- You have the **Dashboard administrator** function privilege.
- You have an ARIS Connect Designer (page 48) license.
- Your ARIS Server is enabled for ARIS Aware.

#### Procedure

1. Start ARIS Connect.
2. Click your user name and select **Administration**.
3. Click the  **Configuration** tab.
4. Click **Dashboards**.
5. Move the mouse pointer to the item you want to change.
6. Click  **Edit**.
7. The **Edit property** dialog opens.
8. Enter your changes.
9. Enter the password.
10. Click  **Save**.

You have edited the alias of the ARIS Server where data for feeds are stored.



### 3.8.1.3 Delete an alias of the ARIS Server

You can delete an alias of the ARIS Server where data for dashboards and feeds are stored.

#### Prerequisite

- You have the **Dashboard administrator** function privilege.
- You have an ARIS Connect Designer (page 48) license.
- Your ARIS Server is enabled for ARIS Aware.

#### Procedure

1. Start ARIS Connect.
2. Click your user name and select **Administration**.
3. Click the  **Configuration** tab.
4. Click **Dashboards**.
5. Select **URL\_ALIAS** from the list.
6. Move the mouse pointer to the item you want to change.
7. Click  **Delete property**.

The selected alias of the ARIS Server for data of dashboards and feeds is deleted without prompting for confirmation.

### 3.8.1.4 Add a connection to a PPM server



You can specify a connection to a Process Performance Manager server.

If you have updated ARIS Connect 10.0 Service Release 1 to version 10.0 Service Release 2 you need to recreate the PPM connections that have been defined for ARIS Connect 10.0 Service Release 1. Delete the PPM connection (page 107) at first and add a new PPM connection (page 105) with the same data.

#### Prerequisite

- You have the **Dashboard administrator** function privilege.
- You have an ARIS Connect Designer (page 48) license.
- Your ARIS Server is enabled for ARIS Aware.

#### Procedure

1. Start ARIS Connect.
2. Click your user name and select **Administration**.
3. Click the  **Configuration** tab.
4. Click **Dashboards**.
5. Select **PPM\_CONNECTIONS** from the list.
6. Click  Add. The **Add property** dialog opens.

7. Enter the PPM client.
8. Enter the protocol (http or https) to be used for the communication.
9. Enter a fully-qualified host name (FQHN).
10. Enter the port.
11. Enter the client of your PPM server. A client provides you with all the configuration files and applications required to extract data from your source system and configure it for further processing.

The version information cannot be changed.

12. Click  **Save**.

You have specified a connection to your Process Performance Manager server.



### 3.8.1.5 Edit the connection to a PPM server

You can edit the connection to your Process Performance Manager server.

#### Prerequisite

- You have the **Dashboard administrator** function privilege.
- You have an ARIS Connect Designer (page 48) license.
- Your ARIS Server is enabled for ARIS Aware.

#### Procedure

1. Start ARIS Connect.
2. Click your user name and select **Administration**.
3. Click the  **Configuration** tab.
4. Click **Dashboards**.
5. Select **PPM\_CONNECTIONS** from the list. All Process Performance Manager servers configured are displayed.
6. Move the mouse pointer to the item you want to change. The **Edit property** dialog opens.
7. Enter your changes.
8. Click  **Save**.

You have edited the connection to your Process Performance Manager server.



### 3.8.1.6 Delete a connection to a PPM server

You can delete a connection to the Process Performance Manager server.

#### Prerequisite

- You have the **Dashboard administrator** function privilege.
- You have an ARIS Connect Designer (page 48) license.
- Your ARIS Server is enabled for ARIS Aware.

#### Procedure

1. Start ARIS Connect.
2. Click your user name and select **Administration**.
3. Click the  **Configuration** tab.
4. Click **Dashboards**.
5. Select **PPM\_CONNECTIONS** from the list. All Process Performance Manager servers configured are displayed.
6. Move the mouse pointer to the item you want to delete.
7. Click  **Delete property**.

The selected connection to the Process Performance Manager server is deleted without prompting for confirmation.

### 3.8.1.7 Make default dashboards available

This procedure explains how to restore default ARIS Aware dashboards in ARIS Connect.

#### Prerequisites

- Your ARIS Server is enabled for ARIS Aware, i.e. the **dashboarding** runnable is activated and running (see **ARIS Server Installation Guide** or **ARIS Cloud Controller (ACC) Command-Line Tool** on DVD, ARIS Download Center ([aris.softwareag.com](http://aris.softwareag.com)) or Empower (<https://empower.softwareag.com/>)).
- A valid server license for **Aware (YCSAW) ARIS Connect Server** extension pack is available in ARIS Administration.
- You have access to the ARIS installation DVD.
- If you would like to generate dashboards based on portal usage statistics of ARIS Connect content you must install and configure the external web analytics application **Piwik**, install and configure two additional ARIS runnables and configure the Piwik-related reports in ARIS Architect.

#### Procedure

1. Import the default xml documents. These documents are used by the default data feeds to generate dashboards. You can either do a bulk import using a command line tool (for initial installation only) or copy the documents using WebDAV.
2. Import default dashboard content.

3. Add an alias URL (page 103).
4. Check default data feeds for issues (page 110).
5. Publish the database as a process portal (page 288) using the **default** or **classic** configuration set.
6. Keep dashboard data up to date.
7. Create (page 29) a new **dashboard\_viewers** user group in ARIS Administration and assign all users which should see dashboards but are no Dashboard administrators. Otherwise, you have to assign permissions for all dashboards and the corresponding feeds separately to every user in the data feed editor.

All default dashboards, data feeds and documents are available in ARIS Connect.




### 3.8.1.8 Import dashboards

You can import one or multiple dashboards in the ARIS Connect Repository (.

#### Prerequisite

You have the **Dashboard administrator** function privilege.

#### Procedure

1. Start ARIS Connect.
2. Activate the  **Repository**.
3. Activate the **Dashboards & Data feeds** tab.
4. Click  **Dashboards**.
5. To import dashboards click the  **Import** button.
6. Select the dashboard file to be imported. The file is of ZIP format and can contain one or more dashboards. The file also includes the dashboard permissions.
7. Activate the **Overwrite if already exists** option, if the dashboard(s) available in the repository should be replaced. Activated by default.
8. Activate the **Import permissions** option, if the dashboard permissions contained in the dashboard file should also be imported. Activated by default.
9. Click **Import**.

The dashboard file selected is imported and the new dashboards are listed on the **Dashboards** tab of the repository.

### 3.8.1.9 Import data feeds

You can import one or multiple data feeds in the ARIS Connect Repository (🏠).

#### Prerequisite

You have the **Dashboard administrator** function privilege.

#### Procedure

1. Start ARIS Connect.
2. Activate the 🏠 **Repository**.
3. Activate the **Dashboards & Data feeds** tab.
4. Click 📄 **Data feeds**.
5. To import data feeds click the 📄 **Import** button.
6. Select the data feeds file to be imported. The file is of ZIP format and can contain one or more data feeds. The file also includes the data feed permissions.
7. Activate the **Overwrite if already exists** option, if the data feeds available in the repository should be replaced. Activated by default.
8. Activate the **Import permissions** option, if the data feed permissions contained in the data feed file should also be imported. Activated by default.
9. Click **Import**.

The data feed file selected is imported and the new data feeds are listed on the **Data feeds** tab of the repository.

### 3.8.1.10 Export dashboards

You can export one or all dashboards available in the ARIS Connect Repository (🏠).

#### Prerequisite

You have the **Dashboard administrator** function privilege.

#### Procedure

1. Start ARIS Connect.
2. Activate the 🏠 **Repository**.
3. Activate the **Dashboards & Data feeds** tab.
4. Click 📄 **Dashboards**.
5. To export a specific dashboard click the 📄 **Export** button of the relevant dashboard.
6. To export all dashboards available click the 📄 **Export all** button in the main menu.

The dashboards are exported and downloaded directly to the browser as a single ZIP file.

### 3.8.1.11 Export data feeds

You can export one or all data feeds available in the ARIS Connect Repository (🏠).

#### Prerequisite

You have the **Dashboard administrator** function privilege.

#### Procedure

1. Start ARIS Connect.
  2. Activate the 🏠 **Repository**.
  3. Activate the **Dashboards & Data feeds** tab.
  4. Click 📄 **Data feeds**.
  5. To export a specific data feed click the 📄 **Export** button of the relevant data feed.
  6. To export all data feeds available click the 📄 **Export all** button in the main menu.
- The data feeds are exported and downloaded directly to the browser as a single ZIP file.

### 3.8.1.12 Check default data feeds for issues

You can open a data feed available in ARIS Connect. The data feed is opened in the data feed editor.

The dashboards available and the relevant data feeds are provided in the ARIS Connect **Repository** (🏠).

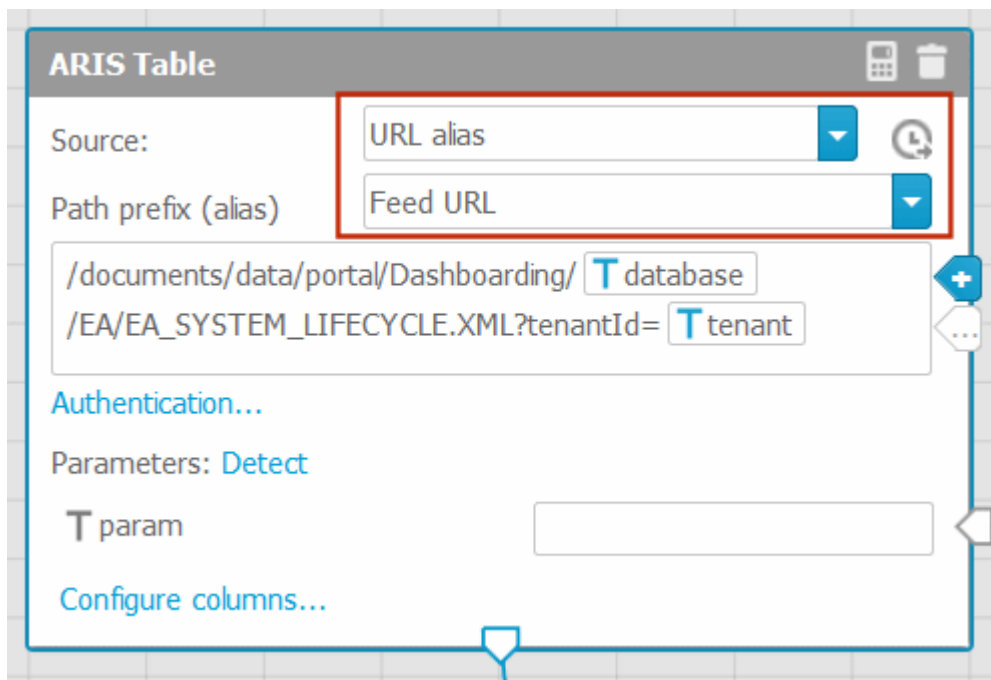
#### Prerequisite

- You have the **Dashboard administrator** function privilege.
- You have an ARIS Connect Designer (page 48) license.
- The **Feed URL** alias URL is defined (page 103).
- The default ARIS Aware dashboards are available (page 107).

#### Procedure

1. Start ARIS Connect.
2. Activate the 🏠 **Repository**.
3. Activate the **Dashboards & Data feeds** tab.
4. Click 📄 **Data feeds**. The default data feeds are displayed.


- Click a data feed name. The data feed is opened in the data feed editor.



The data feed selected is opened in the data feed editor. The data feed will work properly if the Feed URL is in use. If the **Path prefix (alias)** name is shown in red, the alias URL has not been created (page 103) properly.

- Click  **Calculate preview**.

Data is shown in the **Calculation result of operator ARIS Table** section, the default data feeds work properly. All default dashboards can be displayed in ARIS Connect (page 116).

In case of errors check whether the prerequisites specified are met. If you change the password of the user who created this URL\_ALIAS, you must also update the password for the **Feed URL** alias ( **Edit Property**). Otherwise dashboards cannot be displayed.

### 3.8.1.13 Add dashboards to the Home page and to Dashboards tab

If you need to add dashboards to the **Home** page or to the **Dashboard** tab, you cannot configure this in ARIS Administration, please contact your local Software AG sales organization (<http://softwareag.com>). Dashboards in this areas can be added via XML only.



### 3.8.1.14 Edit Fact sheets

Edit your own modification sets created based on the classic configuration set (page 610) or the default configuration set (page 610).

#### 3.8.1.14.1 Add a dashboard to the Overview item




Edit your own modification sets created based on the classic configuration set (page 610) or the default configuration set (page 610).

You cannot edit the classic and the default configuration set.

##### Prerequisite

You have the **Portal administrator** function privilege.

##### Procedure

1. Open a user-defined modification set for editing. (page 298)
2. Click **Fact sheets** on the **Define modification set** page.
3. Move the mouse pointer to the item you want to change, e.g., **Process**.
4. Click  **Edit**. The **Edit fact sheet** page opens. All subordinate pages shown on the fact sheet are listed.
5. In the **Overview** item, click  **Edit**. If the overview belongs to an item that is in the package and the overview has not yet been edited, the **System** layout is activated, which cannot be altered.
6. Scroll to **Dashboards of section**.
7. Click **Add**.
8. The **Add Dashboard** dialog is displayed.
9. Select a dashboard.
10. Enter a name in the relevant languages.
11. Click **Add**. The dashboard is added to the **Overview** item.
12. Click  **Back**.

For the portal to be displayed in this modification set, you need to select (page 297) the new modification set for display.

### 3.8.1.14.2 Remove a dashboard from the Overview item





Edit your own modification sets created based on the classic configuration set (page 610) or the default configuration set (page 610).

You cannot edit the classic and the default configuration set.

#### Prerequisite

You have the **Portal administrator** function privilege.

#### Procedure

1. Open a user-defined modification set for editing. (page 298)
2. Click **Fact sheets** on the **Define modification set** page.
3. Move the mouse pointer to the item you want to change, e.g., **Process**.
4. Click  **Edit**. The **Edit fact sheet** page opens. All subordinate pages shown on the fact sheet are listed.
5. In the **Overview** item, click  **Edit**. If the overview belongs to an item that is in the package and the overview has not yet been edited, the **System** layout is activated, which cannot be altered.
6. Scroll to **Dashboards of section**.
7. Select a dashboard.
8. Click  **Delete**. The dashboard is removed from the **Overview** item.
9. Click  **Back**.

For the portal to be displayed in this modification set, you need to select (page 297) the new modification set for display.

### 3.8.1.14.3 Add a dashboard to the Diagram item



Edit your own modification sets created based on the classic configuration set (page 610) or the default configuration set (page 610).


You cannot edit the classic and the default configuration set.

#### Prerequisite

You have the **Portal administrator** function privilege.

#### Procedure

1. Open a user-defined modification set for editing. (page 298)
2. Click **Fact sheets** on the **Define modification set** page.
3. Move the mouse pointer to the item you want to change, e.g., **Process**.
4. Click  **Edit**. The **Edit fact sheet** page opens. All subordinate pages shown on the fact sheet are listed.
5. In the **Diagram** item, click  **Edit**.
6. Click **Add**.

7. The **Add Dashboard** dialog is displayed.
8. Select a dashboard.
9. Enter a name in the relevant languages.
10. Click **Add**. The dashboard is added to the **Diagram** item.
11. Click  **Back**.

For the portal to be displayed in this modification set, you need to select (page 297) the new modification set for display.

#### 3.8.1.14.4 Remove a dashboard from the Diagram item





Edit your own modification sets created based on the classic configuration set (page 610) or the default configuration set (page 610).

You cannot edit the classic and the default configuration set.

##### Prerequisite

You have the **Portal administrator** function privilege.

##### Procedure

1. Open a user-defined modification set for editing. (page 298)
2. Click **Fact sheets** on the **Define modification set** page.
3. Move the mouse pointer to the item you want to change, e.g., **Process**.
4. Click  **Edit**. The **Edit fact sheet** page opens. All subordinate pages shown on the fact sheet are listed.
5. In the **Diagram** item, click  **Edit**.
6. Select a dashboard.
7. Click  **Delete**. The dashboard is removed from the **Diagram** item.
8. Click  **Back**.

For the portal to be displayed in this modification set, you need to select (page 297) the new modification set for display.

#### 3.8.1.14.5 Add a dashboard to the Dashboard item

Edit your own modification sets created based on the classic configuration set (page 610) or the default configuration set (page 610).




You cannot edit the classic and the default configuration set.

##### Prerequisite

You have the **Portal administrator** function privilege.

##### Procedure

1. Open a user-defined modification set for editing. (page 298)
2. Click **Fact sheets** on the **Define modification set** page.

3. Move the mouse pointer to the item you want to change, e.g., **Process**.
4. Click  **Edit**. The **Edit fact sheet** page opens. All subordinate pages shown on the fact sheet are listed.
5. In the **Dashboards** item, click  **Edit**.
6. Click **Add**.
7. The **Add Dashboard** dialog is displayed.
8. Select a dashboard.
9. Enter a name in the relevant languages.
10. Click **Add**. The dashboard is added to the **Dashboards** item.
11. Click  **Back**.

For the portal to be displayed in this modification set, you need to select (page 297) the new modification set for display.

### 3.8.1.14.6 Remove a dashboard from the Dashboard item





Edit your own modification sets created based on the classic configuration set (page 610) or the default configuration set (page 610).

You cannot edit the classic and the default configuration set.

#### Prerequisite

You have the **Portal administrator** function privilege.

#### Procedure


1. Open a user-defined modification set for editing. (page 298)
2. Click **Fact sheets** on the **Define modification set** page.
3. Move the mouse pointer to the item you want to change, e.g., **Process**.
4. Click  **Edit**. The **Edit fact sheet** page opens. All subordinate pages shown on the fact sheet are listed.
5. In the **Dashboards** item, click  **Edit**.
6. Select a dashboard.
7. Click  **Delete**. The dashboard is removed from the **Dashboards** item.
8. Click  **Back**.

For the portal to be displayed in this modification set, you need to select (page 297) the new modification set for display.

## 3.8.2 Manage dashboards and data feeds

If you have **Dashboard administrator** function privileges you can access the **Dashboards & Data feed** area to manage dashboards and data feeds.



### 3.8.2.1 Open a dashboard in the Repository

You can open a dashboard available in the ARIS Connect Repository () . The dashboard is displayed in view mode of the dashboard editor.


#### Prerequisite

- You have the **View** permission for the dashboard. See Manage dashboard permissions (page 127) for details.
- You have the **View** permission for the assigned data feeds. See Manage data feed permissions (page 170) for detail.

#### Procedure


1. Start ARIS Connect.
2. Activate the  **Repository**.
3. Activate the **Dashboards & Data feeds** tab.
4. Click  **Dashboards**.
5. To open a dashboard click the relevant dashboard name.

The dashboard selected is opened in view mode of the dashboard editor.

In edit mode you can edit the dashboard (page 121) currently opened, provided you have the **Dashboard administrator** function privilege. Click the  **Edit dashboard** icon in the main menu.

### 3.8.2.2 Create a dashboard in the Repository




ARIS Connect enables you to create your own dashboards (page 173).

By default, dashboards and the relevant data feeds are provided in the ARIS Connect Repository () .


#### Prerequisite

You have the **Dashboard administrator** function privilege.

#### Procedure


1. Start ARIS Connect.
2. Activate the  **Repository**.
3. Activate the **Dashboards & Data feeds** tab.
4. Click  **Dashboards**.
5. Click  **New**.

The dashboard editor is opened in edit mode.

6. Configure and save your dashboard by using the dashboard editor (page 121).
7. Click  **Refresh**.

Your dashboard is created and available in the **Dashboards** list in the ARIS Connect Repository () .



### 3.8.2.3 Open a data feed in the Repository

You can open a data feed available in the ARIS Connect Repository (). The data feed is opened in the data feed editor.

#### Prerequisite

You have the **Dashboard administrator** function privilege.

#### Procedure


1. Start ARIS Connect.
2. Activate the  **Repository**.
3. Activate the **Dashboards & Data feeds** tab.
4. Click  **Data feeds**.
5. To open a data feed click the relevant data feed name.

The data feed selected is opened in the data feed editor.

By using the data feed editor (page 166) you can edit the data feed currently opened, provided you have the **Dashboard administrator** function privilege.

### 3.8.2.4 Create a data feed in the Repository





ARIS Connect enables you to create your own data feeds (page 173).

By default, dashboards available and the relevant data feeds are provided in the ARIS Connect Repository ().

#### Prerequisite

You have the **Dashboard administrator** function privilege.

#### Procedure

1. Start ARIS Connect.
2. Activate the  **Repository**.
3. Activate the **Dashboards & Data feeds** tab.
4. Click  **Data feeds**.
5. Click  **New**.  
The data feed editor is opened.
6. Configure and save your data feeds by using the data feed editor (page 166).
7. Click  **Refresh**.

Your data feed is created and available in the **Data feeds** list in the ARIS Connect Repository ().

### 3.8.2.5 Using dashboard editor

The dashboard editor as a graphical user interface gives you an easy graphic way to create, manage and view your dashboards. The dashboard editor provides the edit mode and the view mode. In the edit mode you can create, edit and manage your dashboards. The view mode enables you to view and use your dashboards interactively.

- To use the edit mode, the **Dashboard administrator** function privilege is required.
- To display a dashboard in view mode, the **View** permission is required. See Manage dashboard permissions (page 127) for details.

#### 3.8.2.5.1 Use dashboards in view mode


The view mode of the dashboard editor enables you to display and to use your dashboards interactively.

To use a dashboard in view mode you need the **View** permission for the dashboard. See Manage dashboard permissions (page 127) for details.

##### 3.8.2.5.1.1 Display a dashboard in view mode

You can switch from edit mode to view mode of the dashboard editor. Your currently opened dashboards are displayed with actual data in the view mode.

###### Procedure

1. Create (page 120) or open (page 120) a dashboard in the edit mode of the dashboard editor.
2. Click the  **View dashboard** icon in the dashboard editor main menu.

The dashboard is displayed with actual data in the view mode of the dashboard editor.

To switch from view mode to edit mode click the  **Edit dashboard** icon in the main menu.

##### 3.8.2.5.1.2 Use interactive filters in dashboards

You can use interactive filters for charts and tables, if the relevant filter conditions have been defined for these dashboard components. You can set a filter by clicking a data element of a component, e.g., a data point in a line chart. The selected data element of this component takes effect as a filter for all associated components.

###### Procedure

1. Display a dashboard in the dashboard view mode. (Seite 118)
2. Click a data element of a dashboard component, e.g., a coordinate of a line chart or a cell in a table.

The selected data element is applied as a filter to all associated components.

3. Click the  **Menu** icon > **Delete selection** to remove the filter set.

The dashboard components are displayed with the filters selected.

You can define filters for specific dashboard components. See Define filters for dashboard components (Seite 155).


### 3.8.2.5.1.3 Refresh data of dashboard components

You can manually refresh the data currently displayed in a dashboard component.


The data is extracted from the cache or recalculated if the refresh rate of the data source has expired. The default refresh rate value is 30 sec. You can set the **Refresh rate** in the Assign data (Seite 130) dialog.

The usage of the manual **Refresh** option is independent of the **Auto Refresh** function.

#### Procedure

1. Display a dashboard in the dashboard view mode. (Seite 118)
2. Click a dashboard component.
3. Click the  **Menu** icon > **Refresh**.

The dashboard components are displayed with the refreshed data.

Most of the dashboard components provide the **Auto refresh** option. Use this option to activate the automatic data retrieval for a component. The source data is reimported and recalculated automatically based on the refresh rate set. The **Auto refresh** option is available on the **Config** tab in the component properties. To display the properties dialog in dashboard edit mode () click an inserted component.

### 3.8.2.5.1.4 Change column width and sort order

In the dashboard view mode you can change the initial table column width and sort order of a **Grid** component.

#### Procedure

1. Display a dashboard in dashboard view mode. (Seite 118)
2. Click a table column header of an inserted **Grid** component.

The first click changes the sort order to ascending, the second click to descending, and the third click to unsorted if this was the initial state.

You can sort several columns simultaneously. To select more than one column press the **Shift** key and click the required column headings. The rows are sorted by the first column.

3. To adapt the column width drag the column borders with the mouse.

The table is displayed according to your configuration.



## 3.8.2.5.2 Manage dashboards

You can manage your dashboards in edit mode of the dashboard editor.

### 3.8.2.5.2.1 Open a dashboard in dashboard editor

You can open a dashboard available in edit mode of the dashboard editor.

#### Procedure

1. Click **Manage > Open** in edit mode of the dashboard editor main menu.
2. Select an **Available dashboard**.  
In the dialog opened you can also search a dashboard using your keyboard.
3. Click **OK**.

The dashboard selected is opened in the dashboard editor.

### 3.8.2.5.2.2 Create a dashboard in dashboard editor


By using the edit mode of the dashboard editor you can create and configure your dashboards.

#### Procedure

1. Click **Manage > Create dashboard** in the dashboard editor main menu.  
A new dashboard is opened.
2. Configure your dashboard.
3. Click **Manage > Save** in the dashboard main menu. The dashboard **Properties** dialog is displayed.
4. Enter a dashboard name in the **Name** box.
5. Enter an optional dashboard description in the **Description** box.
6. Enter optional comma-separated search tags in the **Tags** box. The search tags are used to find your dashboard using the search function.
7. Click **OK**.

Your changes are applied.

You can also Edit dashboard properties (Seite 126) later.

To display the dashboard in the view mode click the  **View dashboard** icon in the main menu.

### 3.8.2.5.2.3 Using the smart dashboard edit mode

The edit mode of the dashboard editor gives you an easy graphic way to create, manage and edit your dashboards.

The edit mode provides two different dashboard work spaces, a smart dashboard and a fixed grid dashboard.

In contrast to a fixed grid dashboard the size of a smart dashboard is automatically adapted to the screen resolutions in the dashboard view mode. Depending on the available space, components are stretched or shrunk. In case there is not enough space available components are also re-positioned automatically. See Use dashboards in view mode (page 118) for details.

The smart dashboard work space is displayed by default when you create a new dashboard (page 120) or when you open a smart dashboard available.

The work space is divided in three rows and 12 columns where you can place your dashboard components (page 130).

#### 3.8.2.5.2.3.1 Insert new row

You can insert a new row into the dashboard.

##### Procedure

1. Click a row on the smart dashboard work space.
2. Click **Insert row** in the properties dialog of the row.

A new line is inserted below the row selected.

#### 3.8.2.5.2.3.2 Delete a row

You can delete a row in the dashboard.

##### Procedure

1. Click a row on the smart dashboard work space.
2. Click the **Delete** icon in the properties dialog of the row.

The row is deleted.

#### 3.8.2.5.2.3.3 Resize a row

You can change the height of a row.

##### Procedure

1. Move the cursor to the lower border of a row.  
The cursor will change to a resize symbol.
2. Click and drag the row border with your mouse.  
The height of all components inserted in the row are resized automatically.

The row height is resized.

### 3.8.2.5.2.3.4 Lock row height

You can lock the row height set in the dashboard work space.

By default, the row height is adapted dynamically to the screen resolution in the dashboard view mode and therefore the size of the components inserted is adapted as well. If you lock the row height the component size is also fixed.

#### Procedure

1. Click a row on the work space.
2. Activate the **Lock height** option in the properties dialog of the row.

The row height is fixed.

### 3.8.2.5.2.3.5 Change a row order

You can change the row order on the smart dashboard.

#### Procedure

1. Click a row on the work space.
2. Move the row selected up or down using drag and drop

The row order is changed.

### 3.8.2.5.2.3.6 Place a dashboard component

You can place a component in any free field on the dashboard work space.

#### Procedure

1. Click a component inserted on the dashboard work space.
2. Move the component selected using drag and drop and place it in a free field on the dashboard.

You can not place more than one component in one field.

The component is placed in a free field.

### 3.8.2.5.2.3.7 Resize dashboard components

You can scale up or down the size of dashboard components.

#### Procedure

1. Click a component inserted in the dashboard. The component is displayed with a frame.
2. Resize the component width by dragging the anchor point of the frame with your mouse pointer.

A component width can be resized across multiple free fields.

3. Resize the component height by resizing the height of the row where the component is inserted. To resize the row height drag the upper or lower row border by your mouse pointer. The height of all components inserted in the same row are resized automatically.

The selected components are resized.

### 3.8.2.5.2.3.8 Avoid line break in dashboard view mode

You can avoid the automatic line break of the dashboard components if there is not enough space available in the dashboard view mode.


#### Procedure

1. Click a row on the work space.
2. Activate the **Do not break** option in the properties dialog of the row.


In view mode the components are shrunk and kept in the same row.

### 3.8.2.5.2.3.9 Group components

By using the **Layout group** you are able to group components in the dashboard.

The **Layout group** () consists of two rows and 12 columns. Grouped components can be handled as one single component. You can insert, move, resize, or copy a layout group analogous to any dashboard component. The **Layout group** is available in the dashboard component bar.

#### Procedure

1. Insert the  **Layout group** into the dashboard using drag and drop. See Insert components in a dashboard ([freeform\\_insertComponent.html#task\\_ykn\\_xbj\\_gr](#)).
2. Resize the layout group. See Resize dashboard components ([freeform\\_resizeComp.html#task\\_nnt\\_prp\\_3r](#)).
3. Insert dashboard components in the layout group.

The layout group is placed on the dashboard.

Use the selection mode if a layout group is overlapping its host cells completely and the underlying row and cells cannot be selected. Click **Options** > **Selection mode ON** in the dashboard main menu.

### 3.8.2.5.2.3.10 Set row style

You can change the style applied to a single row. The style selected sets, e.g., the background color of the row.

#### Procedure

1. Click a row on the work space.  
You can also select a single row in a layout group
2. Select a style template in the **Style** drop-down menu in the row properties dialog.

The row style is set.

### 3.8.2.5.2.3.11 Set layout group style

You can change the style applied to a layout group. The style selected sets, e.g., the background color of the layout group.

#### Procedure


1. Click **Group** inside a layout group.
2. Select a style template in the **Style** drop-down menu in the layout group properties dialog.

The layout group style is set.

### 3.8.2.5.2.3.12 Set dashboard tab style

You can change the style applied to a dashboard tab. The style selected sets, e.g., the background color of the tab.

#### Procedure

1. Create a dashboard (page 120) or open a dashboard (page 125) in the dashboard editor.
2. Click the  **Show menu** icon beside the tab title of the relevant tab.
3. Click the **Style** selection box and select a style.

The dashboard tab style is set.

### 3.8.2.5.2.3.13 Switch to fixed grid work space

You can switch from the smart dashboard work space to the fixed grid work space.

You can only switch if you have not already inserted a dashboard component in the smart dashboard. And you cannot switch from a fixed grid dashboard to a smart dashboard work space. A dashboard is automatically opened in the fixed grid work space if the dashboard has also been created by use of the fixed grid work space.

#### Procedure

1. Create a dashboard (page 120).
2. Click **Manage > Switch to fixed grid** in the dashboard main menu.

The fixed grid work space is displayed.

### 3.8.2.5.2.4 Edit a dashboard

You can edit existing dashboards in the dashboard editor.

Depending on the dashboard edit mode used to create the dashboard, the dashboard selected is opened in the smart dashboard mode or the fixed grid mode. See Using the smart dashboard edit mode (page 121) for details.


#### Procedure

1. Click **Manage > Open** in the dashboard editor main menu.
2. Select an **Available dashboard** and click **OK**. The selected dashboard is opened in the edit mode of the dashboard editor.

A warning message is displayed if local changes exist for the dashboard selected. To open the dashboard with the local changes you can click **Continue with unsaved local version**.

3. Configure the dashboard.
4. Click **Manage > Save** in the dashboard main menu.

Your changes are applied.

To display the dashboard in view mode click the  **View dashboard** icon in the dashboard main menu.

### 3.8.2.5.2.5 Delete a dashboard

You can delete dashboards in the dashboard editor.

#### Warning

Deleted dashboards cannot be restored.

#### Procedure

1. Open a dashboard to be deleted. (page 125)
2. Click **Manage > Delete** in the dashboard main menu.
3. Click **Yes**.

The selected dashboard is deleted.

### 3.8.2.5.2.6 Edit dashboard properties

You can edit the properties (name, description and tags) of existing dashboards in the dashboard editor.

#### Procedure

1. Create a dashboard (page 120) or open a dashboard (page 125) in the dashboard editor.
2. Click **Manage > Properties** in the dashboard main menu. The dashboard **Properties** dialog is displayed.
3. The dashboard name is mandatory and is entered in the **Name** box.
4. The dashboard description is optional and entered in the **Description** box.
5. Comma-separated search tags are optional and are entered in the **Tags** box.
6. Click **OK**.
7. Click **Manage > Save** in the dashboard main menu.

Your changes are applied.

### 3.8.2.5.2.7 Manage dashboard permissions

You can manage dashboard permissions in the dashboard editor. You are able to assign specific access permissions to individual users or user groups. If you assign permissions to a user group the permissions are automatically assigned to all members of the user group.

You can assign the following access permissions for saved dashboards only.

- **Edit**

Users are able to display and edit dashboards in the dashboard editor.

- **View**

Users are able to view dashboards in the dashboard editor view mode.

#### Procedure

1. Create a dashboard (page 120) or open a dashboard (page 125) in the dashboard editor.
2. Click **Manage > Permissions** in the dashboard main menu. The **Manage dashboard permissions** dialog is displayed.
3. Enter a term in the search box and click **Search**. Clicking **Search** without any input values results in a list of all users and groups.
4. Click **Show MashZone NextGen default groups** to show only default users or user group in the **Search results** box.
5. Drag a user or user group from the **Search result** box and drop it into the **Principals with permissions** box.  
By default, the creator of the dashboard already exists in the **Principals with permissions** list.
6. Activate or deactivate the **View** or **Edit** permissions of an user or user group.
7. Click **Save**.

Your changes are applied.

If you want to remove a user or user group from the Principals with permissions list click the Delete icon.



### 3.8.2.5.2.8 Change dashboard style template

You can assign a different style template to an available dashboard. By means of style templates you can customize the look and feel of your dashboards, e.g., colors schemes, fonts or background color.

#### Procedure

1. Create a dashboard (page 120) or open a dashboard (page 125) in the dashboard editor.
2. Click **Manage > Change style template** in the dashboard main menu.
3. Select a style template in the **Dashboard** drop-down menu.
4. Click **Update**.
5. Click **OK**.
















The selected style template is applied to the current dashboard.

### 3.8.2.5.3 Configure dashboard components



You can configure the visualization and the behavior for all dashboard components. Additionally, you can assign data sources and set filters for most components.

Depending on the dashboard component type, e.g., line chart, grid, or image, different options are available.

In the appendix you find a list with all Dashboard components (page 189) available and the relevant parameters configurable:

-  Line chart (page 190)
-  Column chart (page 191)
-  Bar chart (page 192)
-  Pie chart (page 193)
-  Bubble chart (page 194)
-  Grid (page 195)
-  Circular gauge chart (page 196)
-  Horizontal and vertical gauge chart (page 197)
-  Traffic light (page 198)
-  Drop-down box (page 199)
-  Input field (page 200)
-  Image (page 201)
-  Label (page 202)
-  Function flow diagram (page 203)
-  Jump to PPM (page 205)

#### Procedure

1. Create a dashboard (page 120) or open a dashboard (page 125) in the dashboard editor.
2. Click a component inserted in the dashboard. The relevant component properties dialog is displayed.
3. Click the  **Assign data** icon to edit the data source assignment. See Assign data sources to dashboard components (Seite 130) for details.
4. Click the  **Configure filter** icon to specify filter conditions. See Define filters for dashboard components (Seite 155) for details.
5. Click the **Config** tab and set the component display options. See the list of Dashboard components (page 189) for details.
6. Specify **Actions** for the component, if required. See Specify actions for dashboard components (page 156) for details.

7. Specify **URL selections** for the component, if required. See Use dynamic URL selection (page 164) for details.

Your settings are applied.

### 3.8.2.5.3.1 Insert components into a dashboard

Using dashboard components you can create your individual dashboards and visualize interactively your source data. The dashboard editor provides you with various dashboard components, e.g., line chart, bar chart, speedometer chart, grid, or input field.

#### Procedure

1. Create a dashboard (page 120) or open a dashboard (page 125) in the dashboard editor.
2. Click a component icon in the dashboard component bar. The component selected is inserted as blank box in the dashboard and placed in the next free field. The relevant component properties dialog is displayed.

Alternatively, place the component using drag and drop in any free field on the dashboard. The relevant component properties dialog is displayed.


3. Click the component inserted and place it in a free field on the dashboard per drag and drop. The component selected is inserted and placed on the dashboard.

### 3.8.2.5.3.2 Assign data sources to dashboard components

To display content in a dashboard component you first need to assign a data source to the component.

For several data sources, e.g., XML, JSON, or ARIS Table, you can define dynamical and reusable input parameters. See Create input parameters (page 152). For the **Input field** and **Image** components data sources are not required.

#### Procedure

1. Create a dashboard (page 120) or open a dashboard (page 125) in the dashboard editor.
2. Click a component inserted in the dashboard. The relevant properties dialog is displayed.
3. Click the  **Assign data** icon to edit the data source assignment.

The **Assign data (1/2)** dialog is displayed. Here you can edit the **Data flow** and create dynamic **Input parameters** for the component selected. The **Data flow** box shows an overview of the data source configuration.


4. Optionally, you can create input parameters for the selected component.

Input parameters are dynamic and reusable parameters to be used in several data source operators and data transformation operators. See Create input parameters (page 152).

5. Select a data source operator in the **Add a data source** bar and specify your settings. See Data source operators (page 207) for a list of available data source operators.

6. In addition to the data source operator you can add further operators to transform the source data. Select a data transformation operator, e.g., **Change data type**, in the **Add data operations** bar and specify your settings.

See Data transformation operators (page 222) for a list of available data transformation operators.

7. Click the  **Calculate preview** icon of an operator to display a preview of the transformed source data of the operator. This enables you to track all data changes step by step.

8. Click **Next**.

The **Assign data (2/2)** dialog is displayed.

9. If you want to return to the **Assign data (1/2)** dialog to change the data source settings click **Edit data source**.

The data source and transformation operators are assigned to the component selected.

To display data in a dashboard component (e.g., line chart) you have to assign the relevant data source columns to the component elements required. In the **Assign data (2/2)** dialog you are can assign data source columns to the individual component elements. For example, you can assign separate columns to the chart axes as a dimension (X-axis) or KPI (Y-axis).

### 3.8.2.5.3.2.1 Assign data columns to line, column or bar charts


To display data in a dashboard component (e.g., line chart) you have to assign the relevant data source columns to the component elements (e.g., X-axis) required.

In a line, column, and bar chart you can display one dimension (X-axis) and several KPIs (Y-axis) or two dimensions (x-axis and partition) and one KPI (Y-axis).

#### Prerequisite

You have assigned a data source to the dashboard component.  
([freeform\\_assignDataSource.html#task\\_h55\\_zlx\\_gr](#))

#### Procedure

1. Click a component inserted in the dashboard. The relevant properties dialog is displayed.
2. Click the  **Assign data** icon to edit the data source assignment.

The **Assign data (2/2)** dialog is displayed.

3. Assign a **Data column** as a dimension to the **X-axis** using drag and drop.
4. Assign one or more **Data columns** as KPIs to the **Y-axis** using drag and drop.

If you have assigned a column to the **X-axis** and a column to the **Partition** you cannot assign more than a column to the **Y-axis**.

5. Optionally, assign a **Data column** as second dimension to the **Partition** using drag and drop.

If you have assigned more than a column to the **Y-axis** the **Partition** is no longer available.

- Optionally, assign one or more columns to the **More columns (invisible)** element using drag and drop. The columns are not displayed in the component. They are used for filtering components only. See Define filters for dashboard components (Seite 155) for details.

The data source columns are assigned to the component elements.

### 3.8.2.5.3.2.1.1 Set properties of component elements

For each component element, such as axis, dimensions or measures, you can edit the settings, e. g., axis title, display name or format.

Depending on the data type of the assigned data source column different settings are available. See the Options list below for details.

#### Procedure

- Click the assigned source column of the **X-axis** and specify the axis and column settings.
- Click **Y-axis** to specify the axis settings.
  - Click the **Text** tab to specify the **Axis title** and **Axis format**.
  - Click the **Data range** tab to limit the KPI value range.
- Click an assigned source column of the **Y-axis** and specify the settings.
- Click the assigned source column of the **Partition** and specify the settings.
- Click an assigned source column of the **More columns (invisible)** box and specify the settings.
- Click **Coloring** and click the **Thresholds** tab to specify the KPI thresholds. See Configure thresholds (freeform\_assignDataToLineCharts.html#configure\_thresholds).
- Click **Coloring** and click the **Rating** tab to specify the KPI rating. See Configure thresholds (freeform\_assignDataToLineCharts.html#configure\_thresholds).
- Click **OK** to save your settings and to leave the dialog.

The chart is displayed in the dashboard with real data of the data source assigned.

#### Options list

Option	Description
Axis title	Title of the X- or Y-axis. Activate the title field and enter an <b>Axis title</b> . By default, the <b>Automatic</b> option is selected and the axis title consists of the concatenated names of the assigned columns.
Axis format	Output format of X- or Y-axis. The selected format overwrites the formats of the assigned columns. By default, <b>Auto</b> is selected and the individual formats are used for tool tip. If desired, you can add a prefix or postfix to the format, e.g., \$ 1,234 or 1,234 mm.
Display name (data point)	New column name displayed in the component, e. g. used for KPI, data point or tool tip. By default the data source column name is used.
Format	Output format of the column values, e. g. used for data points or

Option	Description
	tool tip. Available for columns of <b>date</b> and <b>numeric</b> typ.
Sorting	Sorts the labels of the X-axis data points ascending or descending. Or it sorts the X-axis labels by another data column that is assigned to the chart. The option is not available in a line chart if a date column is assigned to the X-axis. The "Sort by" option is not available if a partition is assigned.
Sort by	Sorts the labels of the X-axis data points by any column assigned to the chart. The option is not available if a column is assigned to the <b>Partition</b> .
Round numerically	Displays rounded KPI values in the chart. Available for numeric columns. By default activated.
Aggregation	Specifies how the KPI value is calculated. Available for numeric columns. Default is average value ( <b>Avg</b> ).
<b>Text</b> tab	Enables you to specify the <b>Axis title</b> and <b>Axis format</b> .
<b>Data range</b> tab	Enables you to specify minimum value ( <b>From</b> ) and maximum value ( <b>To</b> ) of the KPI value range. If the values are not set the values are calculated automatically. You can enter specific values manually or assign data source columns for a dynamic value assignment using drag and drop.
<b>Coloring</b>	Enables you to specify KPI thresholds and ratings. You can set the background or the graphic color depending on the KPI values.
<b>Thresholds</b> tab	Enables you to specify the thresholds values range and to set the background and graphic color accordingly. You need to assign at least one KPI to the Y-axis.
<b>Rating</b> tab	Enables you to specify the KPI rating and to set the data point color accordingly. You need to assign exactly one KPI to the Y-axis.

### 3.8.2.5.3.2.1.2 Configure KPI thresholds

You can define thresholds for numeric and text KPIs to display their status. A colored background and graphic shows the threshold range in which a KPI value is located.

#### Procedure

1. Click **Coloring**.

2. Click **Thresholds** to specify the KPI thresholds.

The tab is available only if at least one column is assigned to the Y-axis.

3. Click **Background** to set the chart background color or click **Graphic** to set the graphic coloring.

The **Graphic** tab is available only if exactly one KPI is assigned to the Y-axis.

4. Click a **Color** box to select a background color for each threshold.

5. Select an operator for each threshold to define the KPI value range, e. g. < (less than).

6. Enter a value for each threshold.

You can either enter specific threshold values or you can choose columns from your data source representing dynamic threshold values. Only numeric values are valid as dynamic threshold values. Assign the required numeric data column from the data source to a threshold field using drag and drop.

7. Click **+** **Plus** button to add a threshold or click **-** **Minus** button to remove a threshold.

8. Select a threshold view style in the **Style** drop-down menu.

Available for Background only.

9. Activate the **Colorize axis labels** to display the axis labels colored according to the graphic colors.

The thresholds are configured for the component selected.

### 3.8.2.5.3.2.1.3 Configure KPI rating

You can define a rating for numeric KPIs to display their status. A colored data point shows the rating range in which a KPI value is located.

For example, you can color the 10 best or worst KPI values, absolute or in percent.

#### Prerequisites

You have assigned exactly one KPI to the Y-axis.

#### Procedure

1. Click **Coloring**.
2. Click **Rating** to specify the KPI rating.  
The tab is available only if exactly one column is assigned to the Y-axis.
3. Activate the **Absolute** or **Percentage** option to set a absolute or percentage rating, e.g., to color the top 3 or 30% KPI values.  
The highest value is considered as 100%
4. Click a **Color** box to select a graphic color for each rating range.
5. Select **Top** or **Bottom** in the drop-down menu to assign the color selected to the best respectively the worst KPI values.
6. Enter a value for the rating range, e.g., 5 for the five best KPI values.
7. Click the **+** **Plus** button to add a rating range or the **-** **Minus** button to remove a rating range.
8. To color the remaining, non assigned, KPI values, activate the **Others** option and select a color.
9. Activate the **Colorize axis labels** to display the axis labels colored according to the graphic colors.

The rating is configured for the component selected.



### 3.8.2.5.3.2.2 Assign data columns to pie charts

To display data in a pie chart component (e.g., line chart) you have to assign the relevant data source columns to the component elements required (e.g., X-axis).


A pie chart can display one numeric KPI iterated via a dimension (text or date dimension).

#### Prerequisite

You have assigned a data source to the dashboard component.

(freeform\_assignDataSource.html#task\_h55\_zlx\_gr)

#### Procedure

1. Click a component inserted in the dashboard. The relevant properties dialog is displayed.
2. Click the  **Assign data** icon to edit the data source assignment.  
The **Assign data (2/2)** dialog is displayed.
3. Assign a numeric **Data column** to the **KPI** using drag and drop.
4. Assign a text or date **Data column** as dimension to the **Partition** using drag and drop.
5. Optionally, assign one or more columns to the **More columns (invisible)** element using drag and drop. The columns are not displayed in the component. They are used for filtering components only. See Define filters for dashboard components (Seite 155) for details.

The data source columns are assigned to the component elements.

### 3.8.2.5.3.2.2.1 Set properties of component elements

For each component element, such as measure or dimension, you can edit the settings, e.g., display name or format.

Depending on the data type of the assigned data source column different settings are available. See the Option list below for details.

1. Click the assigned source column of the **KPI** and specify the settings.
2. Click the assigned source column of the **Partition** and specify the settings.
3. Click an assigned source column of the **More columns (invisible)** box and specify the settings.
4. Click **OK** to save your settings and to leave the dialog.

The chart is displayed with real data of the assigned data source.

#### Options list

Option	Description
Display name (data point)	New column name displayed in the component, e.g., used for KPI, data point or tool tip. By default the data source column name is used.
Format	Output format of the column values, e. g. used for data points or tool tip. Available for columns of <b>date</b> and <b>numeric</b> typ.
Round numerically	Displays rounded KPI values in the chart. Available for numeric columns. By default activated.
Aggregation	Specifies how the KPI value is calculated. Available for numeric columns. Default is average value ( <b>Avg</b> ).

### 3.8.2.5.3.2.3 Assign data columns to bubble charts


To display data in a dashboard component (e.g., line chart) you have to assign the relevant data source columns to the component elements required (e.g., X-axis).

In the bubble chart you can display one dimension and two KPIs. The two KPIs are plotted on the x- and Y-axis. The dimension is represented by different colors of the individual bubble areas. Optionally, a third KPI can be incorporated; its values determine the size of the bubble areas.

#### Prerequisite

You have assigned a data source to the dashboard component.  
(freeform\_assignDataSource.html#task\_h55\_zlx\_gr)

#### Procedure

1. Click a component inserted in the dashboard. The relevant properties dialog is displayed.
2. Click the  **Assign data** icon to edit the data source assignment.  
The **Assign data (2/2)** dialog is displayed.
3. Assign a **Data column** as KPI to the **X-axis** using drag and drop.
4. Assign a **Data column** as KPI to the **Y-axis** using drag and drop.
5. Optionally, assign a **Data column** as KPI to the **Size by** element using drag and drop.
6. Assign a **Data column** as dimension to the **Partition** using drag and drop.
7. Optionally, assign one or more columns to the **More columns (invisible)** element using drag and drop. The columns are not displayed in the component. They are used for filtering components only. See Define filters for dashboard components (Seite 155) for details.

The data source columns are assigned to the component elements.

### 3.8.2.5.3.2.3.1 Set properties of component elements

For each component element, such as axis, dimensions or measures, you can edit the settings, e.g., axis title, display name or format.

Depending on the data type of the assigned data source column different settings are available. See the Options list below for details.

1. Click the **X-axis** or **Y-axis** to specify the axis settings.
  - a. Click the **Text** tab to specify the **Axis title** and **Axis format**.
  - b. Click the **Data range** tab to limit the KPI value range.
2. Click the assigned source column of the **X-axis** and specify the axis and column settings.
3. Click the assigned source column of the **Y-axis** and specify the settings.
4. Click the assigned source column of the **Size by** element and specify the settings.
5. Click the assigned source column of the **Partition** and specify the settings.
6. Click an assigned source column of the **More columns (invisible)** box and specify the settings.
7. Click **Coloring** to specify the KPI thresholds. See Configure KPI thresholds (page 140) for details.
8. Click **OK** to save your settings and to leave the dialog.

The chart is displayed with real data of the assigned data source.

#### Options list

Option	Description
Axis title	Title of the x- or Y-axis. Activate the title field and enter an <b>Axis title</b> . By default, the <b>Automatic</b> option is selected and the axis title consists of the concatenated names of the assigned columns.
Axis format	Output format of x- or Y-axis. The selected format overwrites the formats of the assigned columns. By default, <b>Auto</b> is selected and the individual formats are used for tool tip. If desired, you can add a prefix or postfix to the format, e.g., \$ 1,234 or 1,234 mm.
Display name (data point)	New column name displayed in the component, e.g., used for KPI, data point or tool tip. By default, the data source column name is used.
Format	Output format of the column values, e. g. used for data points or tool tip. Available for columns of <b>date</b> and <b>numeric</b> typ.
Round numerically	Displays rounded KPI values in the chart. Available for numeric columns. By default activated.
Aggregation	Specifies how the KPI value is calculated. Available for numeric columns. Default is average value ( <b>Avg</b> ).
<b>Text</b> tab	Enables you to specify the <b>Axis title</b> and <b>Axis format</b> .

Option	Description
<b>Data range</b> tab	<p>Enables you to specify minimum value (<b>From</b>) and maximum value (<b>To</b>) of the KPI value range. If the values are not set the values are calculated automatically.</p> <p>You can enter specific values manually or assign data source columns for a dynamic value assignment using drag and drop.</p>
<b>Coloring &gt; Thresholds</b>	<p>Enables you to specify the thresholds values range and to set the background color accordingly. You need to assign at least one KPI to the Y-axis.</p>

### 3.8.2.5.3.2.3.2 Configure KPI thresholds

You can define thresholds for numeric and text KPIs to display their status. A colored background shows the threshold range in which a KPI value is located.

#### Procedure

1. Click **Coloring**.
2. Select the axis you want to define thresholds for.
3. Click a **Color** box to select a background color for each threshold.
4. Select an operator for each threshold to define the KPI value range, e. g. < (less than).
5. Enter a value for each threshold.

You can either enter specific threshold values or you can choose columns from your data source representing dynamic threshold values. For dynamic threshold values only numeric data columns are allowed. Assign the required numeric data column from the data source to a threshold field using drag and drop.

6. Click the **+** **Plus** button to add a threshold or Click the **-** **Minus** button to remove a threshold.
7. Select a threshold view style in the **Style** drop-down menu.  
Available for Background only.

The thresholds are configured for the component selected.

### 3.8.2.5.3.2.4 Assign data columns to grids

To display data in the grid component you have to assign the relevant data source columns to the component elements required.


You can assign any number of data source columns as **Grid columns**.

#### Prerequisite

You have assigned a data source to the dashboard component.

(freeform\_assignDataSource.html#task\_h55\_zlx\_gr)

#### Procedure

1. Click a component inserted in the dashboard. The relevant properties dialog is displayed.
2. Click the  **Assign data** icon to edit the data source assignment.  
The **Assign data (2/2)** dialog is displayed.
3. Assign one or more **Data columns** to the **Y-axis** using drag and drop.
4. Optionally, assign one or more columns to the **More columns (invisible)** element using drag and drop. The columns are not displayed in the component. They are used for filtering components only. See Define filters for dashboard components (Seite 155) for details.

The data source columns are assigned to the component elements.

#### 3.8.2.5.3.2.4.1 Set properties of component elements

For each component element you can edit the settings, e. g. column name or format.

Depending on the data type of the assigned data source column different settings are available. See the Options list below for details.

#### Procedure

1. Click one of the assigned **Grid columns** to specify the settings.
  - a. Click the **Text** tab and specify the settings.
  - b. Click the **Thresholds** tab and specify the KPI thresholds. See Configure thresholds (page 143) for details.
2. Click an assigned source column of the **More columns (invisible)** box and specify the settings.
3. Click **OK** to save your settings and to leave the dialog.

The grid is displayed with real data of the assigned data source.

#### Options list

Option	Description
Axis title	Title of the x- or Y-axis. Activate the title field and enter an <b>Axis title</b> . By default, the <b>Automatic</b> option is selected and the axis title consists of the concatenated names of the assigned columns.
Axis format	Output format of x- or Y-axis. The selected format overwrites the

Option	Description
	formats of the assigned columns. By default, <b>Auto</b> is selected and the individual formats are used for tool tip. If desired, you can add a prefix or postfix to the format, e.g., \$ 1,234 or 1,234 mm.
New column name	Replaces the data source column name, used for tool tip. By default the data source column name is used.
Format	Output format of the column values, e. g. used for data points or tool tip. Available for columns of <b>date</b> and <b>numeric</b> typ.
Round numerically	Displays rounded KPI values in the grid. Available for numeric columns. By default activated.
Show cell value	Displays the values of the column. By default activated.
Make clickable (for actions)	Makes the column clickable for triggering actions. See Specify actions for dashboard components (freeform_specify_action.html#task_specify_action) for details.
Aggregation	Specifies how the KPI value is calculated. Available for numeric columns. Default is average value ( <b>Avg</b> ).
<b>Text</b> tab	Enables you to specify the <b>New column name</b> , the <b>Format</b> and <b>Aggregation</b> .
<b>Thresholds</b> tab	Enables you to specify the thresholds values range.

### 3.8.2.5.3.2.4.2 Configure thresholds

You can define thresholds for numeric and text grid columns to display the status of a KPI. A colored marker shows the threshold range in which a KPI value is located.

#### Procedure

1. Click an assigned **Grid columns** to specify the settings.
2. Click the **Thresholds** tab.
3. Click the **Background** or **Foreground** to set the KPI values and the grid background or foreground colors.

This is where you can define a KPI value range for the thresholds and the corresponding colors of the grid cells background or foreground.

- a. Click a **Color** box to select a color for each threshold.
- b. Select an operator for each threshold to define the KPI value range, e.g., < (less than).  
The available operators are different for numeric (e.g., < (**less than**) or = (**equals to**)) and text (e.g., **starts with** or **is equal to**).

- c. Enter a value for each threshold.

You can either enter specific threshold values or you can choose columns from your data source representing dynamic threshold values. For dynamic threshold values only text data columns are allowed. Assign the required text data column from the data source to a threshold field using drag and drop.

- d. Click the **+** **Plus** button to add a threshold or the **-** **Minus** button to remove a threshold.
- e. Activate the **Colorize row** option to use the background/foreground coloring for all others cells in the row.

4. Click the **Traffic Lights** to set KPI values and to define traffic lights.

This is where you can define a KPI value range for the thresholds and corresponding traffic lights. The traffic lights are displayed in each cell of the rows. By default there are three traffic light phases plus the inactive phase. In addition of the color you can also select a different shape for each traffic light phase.

- a. Click a **Color** box to select a color and a shape for each traffic light phase.  
You can use custom images instead of the colored shapes for each traffic light phase. For this activate the **Image based Traffic Light** option, click the drop-down menu and enter an **Image URL**.
- b. Activate the **Multi State** option to show multiple states of traffic lights instead of a single traffic light.
- c. Select an operator for each threshold to define the KPI value range, e.g., is equal to.
- d. Enter a value for each threshold.

You can either enter specific threshold values or you can choose numeric columns from your data source representing the threshold values. Assign a data column from the data source to a threshold field using drag and drop.



- e. Click the **+** **Plus** button to add a traffic light phase or the **-** **Minus** button to remove a phase.
  - f. Activate the **Switch position** option to place the traffic light symbol right hand of the values.
  - g. Activate the **Make clickable (for actions)** option to make the traffic lights clickable for triggering actions. See Specify actions for dashboard components (`freeform_specify_action.html#task_specify_action`) for details.
  - h. Activate the **Show tooltip** option to show tool tips for each traffic light symbol.
  - i. By default the traffic light phase is also visible if it is inactive (A KPI value is not available.). Deactivate the **Inactive state** option if the traffic light phase should not be visible. You can also change the color of the inactive traffic light phase. In case of a selected image you can only deactivate the **Show inactive state** option.
5. Click **OK**.

The thresholds are configured for the selected component.

### 3.8.2.5.3.2.5 Assign data columns to circular gauge charts


To display data in the gauge chart component you have to assign the relevant data source columns to the component elements required.

A circular gauge chart displays a set of aggregated KPI values. The value ranges are arranged in a semicircle with a red pointer that indicates the actual value of the KPI.

#### Prerequisite

You have assigned a data source to the dashboard component.  
(freeform\_assignDataSource.html#task\_h55\_zlx\_gr)

#### Procedure

1. Click a component inserted in the dashboard. The relevant properties dialog is displayed.
2. Click the  **Assign data** icon to edit the data source assignment.  
The **Assign data (2/2)** dialog is displayed.
3. Assign a numeric **Data column** to the aggregated **KPI** using drag and drop.

A data source column is assigned to the **KPI** element.

### 3.8.2.5.3.2.5.1 Set properties of component elements

For the displayed KPI value range you can define a minimum and a maximum value. Additionally, you can compare the actual KPI value against several threshold values. The value ranges in the speedometer are indicated by different colors.

See the Options list below for details.

1. Click the assigned source column of the **KPI** and specify the settings.
2. Click **Thresholds** to specify the KPI thresholds. See Configure thresholds (page 146) for details.
3. Click **OK** to save your settings and to leave the dialog.

The chart is displayed with real data of the assigned data source.

#### Options list

Option	Description
Display name	New column name displayed in the component, e.g., used for KPI, data point or tool tip. By default the data source column name is used.
Format	Output format of the column values, e. g. used for data points or tool tip. Available for columns of <b>date</b> and <b>numeric</b> typ.
Round numerically	Displays rounded KPI values in the chart. Available for numeric columns. By default activated.
Aggregation	Specifies how the KPI value is calculated. Available for numeric columns. Default is average value ( <b>Avg</b> ).



Option	Description
Min value	Minimum value of the displayed KPI value range. If the value is not set the value is calculated automatically.
Max value	Maximum value of the displayed KPI value range. If the value is not set the value is calculated automatically.

### 3.8.2.5.3.2.5.2 Configure thresholds

You can define thresholds for a numeric KPI to display their status. A colored marker shows the threshold range in which a KPI value is located.

1. Click **Thresholds**.
2. Click a **Color** box to select a color for each threshold.
3. Select an operator for each threshold to define the KPI value range, e.g., < (less than).
4. Enter a value for each threshold.

You can either enter specific threshold values or you can choose columns from your data source representing dynamic threshold values. For dynamic threshold values only numeric data columns are allowed. Assign the required numeric data column from the data source to a threshold field using drag and drop.

5. Click the  **Plus** button to add a threshold or the  **Minus** button to remove a threshold. The thresholds are configured for the selected component.

### 3.8.2.5.3.2.6 Assign data columns to horizontal and vertical gauge charts


To display data in the gauge chart component you have to assign the relevant data source columns to the component elements required.

A gauge chart displays a set of aggregated KPI values. The value ranges are arranged in a horizontal or vertical bar with a pointer that indicates the actual value of the KPI.

#### Prerequisite

You have assigned a data source to the dashboard component.  
(freeform\_assignDataSource.html#task\_h55\_zlx\_gr)

#### Procedure

1. Click a component inserted in the dashboard. The relevant properties dialog is displayed.
2. Click the  **Assign data** icon to edit the data source assignment.  
The **Assign data (2/2)** dialog is displayed.
3. Assign a numeric **Data column** to the aggregated **KPI** using drag and drop.

A data source column is assigned to the **KPI** element.

### 3.8.2.5.3.2.6.1 Set properties of component elements

For the displayed KPI value range you can define a minimum and a maximum value. Additionally you can compare the actual KPI value against several threshold values. The value ranges in the speedometer are indicated by different colors.

See the Options list below for details.

1. Click the assigned source column of the **KPI** and specify the settings.
2. Click **Thresholds** to specify the KPI thresholds. See Configure thresholds (page 148) for details.
3. Click **OK** to save your settings and to leave the dialog.

The chart is displayed with real data of the assigned data source.

#### Options list



Option	Description
Display name	New column name displayed in the component, e.g., used for KPI, data point or tool tip. By default the data source column name is used.
Format	Output format of the column values, e. g. used for data points or tool tip. Available for columns of <b>date</b> and <b>numeric</b> typ.
Round numerically	Displays rounded KPI values in the chart. Available for numeric columns. By default activated.
Aggregation	Specifies how the KPI value is calculated. Available for numeric columns. Default is average value ( <b>Avg</b> ).
Min value	Minimum value of the displayed KPI value range. If the value is not set the value is calculated automatically.
Max value	Maximum value of the displayed KPI value range. If the value is not set the value is calculated automatically.
<b>Thresholds</b> tab	Enables you to specify the thresholds values range.

### 3.8.2.5.3.2.6.2 Configure thresholds

You can define thresholds for a numeric KPI to display their status. A colored marker shows the threshold range in which a KPI value is located.

1. Click **Thresholds**.
2. Click a **Color** box to select a color for each threshold.
3. Select an operator for each threshold to define the KPI value range, e.g., < (less than).
4. Enter a value for each threshold.

You can either enter specific threshold values or you can choose columns from your data source representing dynamic threshold values. For dynamic threshold values only numeric data columns are allowed. Assign the required numeric data column from the data source to a threshold field using drag and drop.

5. Click the  **Plus** button to add a threshold or the  **Minus** button to remove a threshold.

The thresholds are configured for the selected component.

### 3.8.2.5.3.2.7 Assign data columns to traffic lights


To display data in the traffic light component you have to assign the relevant data source columns to the component elements required.

A traffic light displays the status of a KPI. A colored marker shows the threshold range in which a KPI value is located.

#### Prerequisite

You have assigned a data source to the dashboard component.  
(freeform\_assignDataSource.html#task\_h55\_zlx\_gr)

#### Procedure

1. Click a component inserted in the dashboard. The relevant properties dialog is displayed.
2. Click the  **Assign data** icon to edit the data source assignment.  
The **Assign data (2/2)** dialog is displayed.
3. Assign a numeric or text **Data column** to the **KPI** element.

A data source column is assigned to the **KPI** element.

### 3.8.2.5.3.2.7.1 Set properties of component elements

For the displayed KPI value range you can define a minimum and a maximum value. Additionally you can compare the actual KPI value against several threshold values. The value ranges in the speedometer are indicated by different colors.

See the Options list below for details.

#### Procedure

1. Click the assigned source column of the **KPI** and specify the settings.
2. Click **Thresholds** to specify the KPI thresholds. See Configure thresholds (page 149) for details.
3. Click **OK** to save your settings and to leave the dialog.

The traffic light is displayed using the real data of the assigned data source.

#### Options list

Option	Description
Display name	New column name displayed in the component, e.g., used for KPI, data point or tool tip. By default the data source column name is used.
Format	Output format of the column values, e. g. used for data points or tool tip. Available for columns of <b>date</b> and <b>numeric</b> typ.
Round numerically	Displays rounded KPI values in the chart. Available for numeric columns. By default activated.
Aggregation	Specifies how the KPI value is calculated. Available for numeric columns. Default is average value ( <b>Avg</b> ).

### 3.8.2.5.3.2.7.2 Configure thresholds

You can define thresholds for numeric and text columns to display the status of a KPI. A colored marker shows the threshold range in which a KPI value is located.

By default there are three traffic light phases plus the inactive phase.

#### Procedure

1. Click **Thresholds**.  
The option is available only if a column has already been assigned to the KPI.
2. Select **Color and shape** in the drop-down menu to display the traffic light phases with different colored shapes.
3. Click a color box to select a color and shape for each threshold phase.
4. Select **Image** in the drop-down menu to use custom images instead of the colored shapes for each traffic light phase
5. Select an operator for each threshold to define the KPI value range, e.g., < (less than).

The available operators differ for numeric (e.g., **< (less than)** or **= (equals to)**) and text columns (e.g., **starts with** or **is equal to**).

6. Enter a value for each threshold.

You can either enter specific threshold values or you can choose columns from your data source representing dynamic threshold values. For dynamic threshold values only numeric data columns are allowed. Assign the required numeric data column from the data source to a threshold field using drag and drop.

7. Click the **+** **Plus** button to add a threshold or the **-** **Minus** button to remove a threshold.
8. By default the traffic light phase is also visible if it is inactive (A KPI value is not available.). Deactivate the **Inactive state** option if the traffic light phase should not be visible. You can also change the color of the inactive traffic light phase. In case of a selected image you can only deactivate the **Show inactive state** option.

The thresholds are configured for the selected component.

### 3.8.2.5.3.2.8 Assign data columns to a drop-down boxes


To display data in the drop-down box component you have to assign the relevant data source columns to the component elements required.

#### Prerequisite

You have assigned a data source to the dashboard component.

(freeform\_assignDataSource.html#task\_h55\_zlx\_gr)

#### Procedure

1. Click a component inserted in the dashboard. The relevant properties dialog is displayed.
2. Click the  **Assign data** icon to edit the data source assignment.  
The **Assign data (2/2)** dialog is displayed.
3. Assign a **Data column** to the **Visible column** element using drag and drop.
4. Optionally, assign one or more columns to the **More columns (invisible)** element using drag and drop. The columns are not displayed in the component. They are used for filtering components only. See Define filters for dashboard components (Seite 155) for details.

The data source columns are assigned to the component elements.

### 3.8.2.5.3.2.8.1 Set properties of component elements

For each component element you can edit the settings, e. g. display name or format.

See the Options list below for details.

1. Click the assigned source column of the **Visible column** element and specify the settings.
2. Click an assigned source column of the **More columns (invisible)** box and specify the settings.
3. Click **OK** to save your settings and to leave the dialog.

The drop-down menu is displayed with real data of the assigned data source.

#### Options list

Option	Description
Display name	New column name displayed in the component, e.g., used for KPI, data point or tool tip. By default the data source column name is used.
Format	Output format of the column values, e. g. used for data points or tool tip. Available for columns of <b>date</b> and <b>numeric</b> typ.
Aggregation	Specifies how the KPI value is calculated. Available for numeric columns. Default is average value ( <b>Avg</b> ).
Round numerically	Displays rounded KPI values in the chart. Available for numeric columns. By default activated.

### 3.8.2.5.3.2.9 Assign data columns to labels


To display data in the label component you have to assign the relevant data source columns to the component elements required.

#### Prerequisite

You have assigned a data source to the dashboard component.

(freeform\_assignDataSource.html#task\_h55\_zlx\_gr)

#### Procedure

1. Click a component inserted in the dashboard. The relevant properties dialog is displayed.
2. Click the  **Assign data** icon to edit the data source assignment.

The **Assign data (2/2)** dialog is displayed.

3. Assign a source **Data column** to the **Data column** element using drag and drop.

A data source column is assigned to the component element.

If you have assigned a text or date column to the component the values are taken from the first data row. Therefore in most cases the label needs to be filtered by other components.



### 3.8.2.5.3.2.9.1 Set properties of component elements

For each component element you can edit the settings, e.g., display name or format. See the Options list below for details.

#### Procedure

1. Click the assigned source column of the **Visible column** element and specify the settings.
2. Click an assigned source column of the **More columns (invisible)** box and specify the settings.
3. Click **OK**.

Your settings are applied. The drop-down menu in the dashboard is displayed with real data of the assigned data source.

#### Options list

Option	Description
Display name	New column name displayed in the component, e.g., used for KPI, data point or tool tip. By default the data source column name is used.
Format	Output format of the column values, e. g. used for data points or tool tip. Available for columns of <b>date</b> and <b>numeric</b> typ.
Round numerically	Displays rounded KPI values in the chart. Available for numeric columns. By default activated.
Initial selected value	Specifies the initial selected column value. By default the first column value is selected.
Sort descending	Displays the column values in a descending order in the drop-down menu.


### 3.8.2.5.3.2.10 Create input parameters

You can create input parameters to enter dynamic values that are passed into the data transformation step (e.g., for filtering) or passed to the data source itself.

You can use parameter sets to create dynamic URLs for your XML source and RAQL queries. The parameters are used to dynamically pass context from dashboards to applications via URL. You can create dynamic URLs and query parameters providing required context to open URLs, invoke web services, etc.

The functionality is available in the **Assign data (1/2)** dialog.

#### Procedure

1. Click a component inserted in the dashboard. The relevant properties dialog is displayed.
2. Click the  **Assign data** icon to edit the data source assignment.  
The **Assign data (1/2)** dialog is displayed.
3. Click the **Input parameters** box.

4. Click the input parameter type required in the **Add input parameters** bar.  
There are input parameters of **Text**, **Number** and **Date** type available. The selection enables the dynamic entry of text, date or numerical values in data feed processing.
5. Enter a **Name** for your parameter set.
6. Enter an optional **Default value**.  
The default value is used if the input parameter is not filled by the dashboard context. For example, if the input parameter is filled by the selection of an other component and there is nothing selected.
7. Enter a **Preview value**.  
The preview value is used to calculate a data preview (debug run) in the data assignment dialog. See Assign data sources to dashboard components (Seite 130).
8. Click the **Data flow** box to display the data source assignment overview.

The input parameter is displayed in the **Input parameters** box. The defined input parameters are only available for the currently selected component.

You can use the input parameters for the **XML**, **CSV**, **MS Excel**, and **ARIS Table** data sources. Available input parameters are provided via an additional button by the data source operator.

If you use the input parameter in an XML data source URL, you can specify that the value of the parameter should be URL encoded. For an input parameter of **Date** or **Number** type, you can additionally specify the format pattern.

In the data source operator it's possible to specify the format pattern for an input parameter of **Number** and **Date** type.

To specify the parameter properties click the inserted input parameter and select the option required.

Input parameters are also available for several data transformation operators, e.g., Insert column, to enter dynamic values into columns. The list of parameters provided, depends on the selected data type of the relevant column.

The input parameters are also provided as filter elements by the dashboard component. See Define filters for dashboard components (Seite 155) for details.

### 3.8.2.5.3.2.11 Data source operators

To display content (e.g., charts, apps or tables) in a dashboard component you need to assign a data source to the component at first. The following data source operators are available.

ARIS Table (page 207)

PPM (page 208)

MS Excel (page 214)

CSV (page 211)

JSON (page 217)

XML (page 219)

Data feed (page 221)

### 3.8.2.5.3.2.12 Data transformation operators

In addition to the data source operators you can add further operators to transform the source data. The following data transformation operators are available in the dashboard editor.

Change data type (Seite 229)

Delete column (Seite 250)

Rename column (Seite 264)

Duplicate column (Seite 251)

Insert column (Seite 259)

Concatenate texts (Seite 244)

Filter rows (Seite 254)

Conditional replace (Seite 245)

Arithmetic (Seite 226)

Aggregate (Seite 223)

Round up/down date (Seite 267)

Average (Seite 228)

Goal accomplishment (Seite 257)

Move date (Seite 261)

Round up/down (Seite 266)

Filter by date (Seite 253)

Find text index (Seite 256)

Replace text (Seite 265)

Extract text (Seite 252)

The feed editor provides a wider variety of data transformation operators for creating more complex transformation rules in data feed definitions. See the data transformation operators (E:\NoBackup\\_DITA\_Import\data\_feeds\datafeeds\_trans\_operators.html#freeform\_operators) listed in appendix.



### 3.8.2.5.3.3 Set up dashboard components

For all dashboard components you can configure the visualization and the behavior in the dashboard view mode. Additionally, you can assign data sources and set filters for most components.

Depending on the dashboard component typ, e.g., line chart, grid or image, different options are available.

#### Procedure

1. Create a dashboard (page 120) or open a dashboard (page 125) in the dashboard editor.
2. Click a component inserted in the dashboard. The relevant component properties dialog is displayed.

3. Click the  **Assign data** icon to edit the data source assignment. See Assign data sources to dashboard components (Seite 130) for details.
4. Click the  **Configure filter** icon to specify filter conditions. See Define filters for dashboard components (Seite 155) for details.
5. Click the **Config** tab and set the dashboard component display options. See the list of dashboard component (page 189) for details.
6. Specify **Actions** for the component, if required. See Specify actions for dashboard components (page 156) for details.
7. Specify **URL selections** for the component, if required. See Use dynamic URL selection (page 164) for details.

Your settings are applied.

### 3.8.2.5.3.4 Remove components from dashboard

You can remove components from a dashboard.

#### Procedure

1. Create a dashboard (page 120) or open a dashboard (page 125) in the dashboard editor.
2. Select one or more components inserted in the dashboard. A corresponding pop-up menu is displayed.
3. Click the **Delete** icon in the pop-up menu.
4. Click **Delete**.


The components selected are deleted from the dashboard.

### 3.8.2.5.3.5 Define filters for dashboard components

In the dashboard edit mode you can define relations between components by specifying filter conditions for selected components. The defined filters can be used in the dashboard view mode (See Use interactive filters in your dashboards (Seite 118)).

Most dashboard components support data filters. Particularly, the **Drop-down box** and **Input field** provide you with a selection of values in a drop-down menu or a manual data input for filtering other dashboard components. (See Insert components into a dashboard (page 130)).

#### Procedure

1. Create a dashboard (page 120) or open a dashboard (page 125) in the dashboard editor.
2. Select the tab containing the component for that you want to set a filter. It is not possible to change the tab within the filter dialog. This is relevant if you have placed a component on several tabs. See Display components on several dashboard views (page 160) for details.
3. Click a component inserted in the dashboard. The relevant properties dialog is displayed.
4. Click the  **Filter** icon to edit the filter configuration. The filter dialog of the selected component displays the **Source columns** assigned to the component and the **Select filter component** bar. See Assign data sources to dashboard components (Seite 130) for details.


If applicable, input parameters are displayed as additional filter components. If input parameters have been defined, they are listed below the **Source columns** of a component. See Create input parameters (page 152) for details.

If invisible columns have been defined, they are listed as **Source columns** but not highlighted. Invisible columns are not displayed in the component but they can be used as filter criterion. See Assign data sources to dashboard components (Seite 130) for details.

5. Drag a column that you want to filter in the **Source columns** box and drop the selected column in the **Drop her to define a new filter** field. The **Define filter condition** dialog is displayed. All components that can be used as filter are highlighted. The columns in the **Available coordinates** box for each component can be used as filter condition values.

6. Define the filter condition.

You can use a column or a constant value as filter condition.

- a. Select a condition in the drop-down menu, e.g., **is equal to**.
- b. Drag a coordinate in the **Available coordinates** box of a the component that you want to use as filter component. And drop the selected coordinate in the empty filter condition field.
- c. Alternatively, you can enter a constant value as filter condition.
- d. To consider the case sensitivity click the **Aa Match case / Ignore case** icon. It is only available for coordinates or values of type **Text**.
- e. If you want the filter conditions to be considered as fulfilled even if the selected values are empty click the  **Empty compare values are accepted** icon.
- f. Click the **Add** icon to add a filter condition.
- g. Activate the **block values** option to block the rows which meets the condition.

7. Click **Define new filter** to add filters on other source columns.

8. Click **Save filter**.

Your filter conditions are saved.

Now you can use interactive filters in your dashboards (Seite 118).

### 3.8.2.5.3.6 Specify actions for dashboard components

You can assign actions to specific dashboard components (e.g., charts, traffic light, label, image). The actions set a data selection in other components, call other views of the dashboard or jump to a specific URL.

For an action, you can specify a data selection of a specific component on a dashboard view, e.g., column in a table. The component will then be displayed applying the data selected. If the data selected also represents filter values for another component, this component is filtered accordingly.

The actions are triggered by clicking a component, by a mouse over event or by selection change, depending on the component selected. **On mouse over** events are performed if you move your mouse pointer over a data point of a component, e.g., a coordinate of a Line chart. Whereas **On selection change** events are performed if you click a data point in a chart or if you delete a data

selection in a component. Depending on the component you can delete a selection by clicking in the background or selecting the **Delete selection** option in the **Menu** of the component. For the Grid component additional trigger options can be available, depending on your Grid component settings. That are **On "item" click** and **On "item" traffic light click**. Whereby "item" is a placeholder for a column name. In the Grid component settings you can make column cells clickable for triggering actions.

### Procedure

1. Create a dashboard (page 120) or open a dashboard (page 125) in the dashboard editor.
2. Click an inserted chart component that supports actions. The relevant properties dialog is displayed.
3. Click the **Action** tab.
4. Select the action trigger event in the **Trigger** drop-down menu.

The selection of actions is dependent on the selected component.

5. Activate the **Change tab** action to call another dashboard view by action triggering and select the target tab in the drop-down menu.

The action is available only if you have added one or more views in the dashboard. See Add dashboard views (page 162) for details.

If you deactivate the option the action will not be deleted but deactivated in the view mode.

6. Activate the **Set selection** option to set a data selection by triggering an action. This action sets a specific selection in one or several of the components on the same dashboard view.

If you deactivate the option the action will not be deleted but deactivated in the view mode.

7. Configure the **Set selection** action.

- a. Click **Configure** to set the action configuration.

Initially all **Available coordinates** of the target components are displayed.

- b. Set the coordinates of the component you want to select by your action. For this drag the relevant coordinate and drop it in the field of the **Select selection component** area.

- c. Set the values that should be selected. You can enter a constant value or you can assign the values of a coordinate of another component. Drag the relevant component coordinate and drop it in the **Selection** field of the previously set coordinate.

Only the coordinates with the fitting values are provided.

- d. Click **Add an additional selection** to define a further selection.

- e. Click **Save action**.

8. Activate the **Call URL** option to jump to a specific URL by triggering an action.

If you deactivate the option then the action will not be deleted but deactivated in the view mode.

- a. Click **Configure** to set the action configuration.

- b. Enter the target URL in **URL** input field of the **Enter target URL** area.

You have the option to create a dynamic URL by adding **Available coordinates** to the URL. For this you can insert the coordinates from several components using drag and

drop. A selected coordinate will be placed on the current cursor position in the **URL** input field.

In case of a coordinate of type number or date, click the inserted coordinate and select a **Format pattern**.

To ensure that a coordinate is URL encoded, click the inserted coordinate and activate the **Use URL encoding** option.

- c. In the **Target window** field you can enter a name of the window where the URL should be opened, or you can select a target attribute in the drop-down menu. Available attributes are **\_blank** (new window), **\_self** (self window), **\_parent** (parent window) and **\_top** (entire window).
- d. Click **Save action**.

Your action is specified for the selected component.

You can use the defined action in the dashboard view mode. See Use dashboards in view mode (page 118).

### 3.8.2.5.3.7 Hide or display component header and border

You can hide the header and the outline of the component container.

The header and the outline are hidden for some components by default, e. a. Input field and Combobox. You can display them if necessary.

#### Procedure

1. Create a dashboard (page 120) or open a dashboard (page 125) in the dashboard editor.
2. Click a component inserted in the dashboard. A corresponding pop-up menu is displayed.
3. Show the **Config** tab to set the display options.
4. Click **More options**.
5. Set the **Container** header and border.
  - Click the **Hide header** icon. Hides the header incl. the title of the component and the content are resized. Click the icon again to display the header.
  - Click the **Hide border** icon. Hides the outline of the component container. Click the icon again to display the outline.

The header and outline of the component are hidden or displayed.

### 3.8.2.5.3.8      **Resize dashboard components**

You can scale up or down the size of dashboard components.

#### **Procedure**

1. Create a dashboard (page 120) or open a dashboard (page 125) in the dashboard editor.
2. Click a component inserted in the dashboard. The component is displayed with a frame.
3. In smart dashboards
  - a. Resize the component width by dragging the anchor point of the frame with your mouse pointer.

A component width can be resized across multiple free fields.
  - b. Resize the component height by resizing the height of the row where the component is inserted. To resize the row height drag the upper or lower row border by your mouse pointer.

The height of all components inserted in the same row are resized automatically.
4. In fixed grid dashboards drag the anchor point of the frame with your mouse pointer. The selected components are resized.

### 3.8.2.5.3.9      **Move components to front or back**

You can move a component forward or backward in a dashboard relatively to other components. For example, you can display a chart in the background of the dashboard and place several components on top of it, i.e., in the foreground.

The option is only available in the fixed grid dashboard mode. See [Switch to fixed grid work space \(page 124\)](#) for details.

#### **Procedure**

1. Create a dashboard (page 120) or open a dashboard (page 125) in the dashboard editor.
  2. Select one or more inserted components in the dashboard. A corresponding pop-up menu is displayed.
  3. Set **Layering**
    - Click the **Bring to front** icon. Displays the component in front of one or more other components.
    - Click the **Bring forward** icon. Brings the component one level forward.
    - Click the **Bring backward**. Brings the component one level backward.
    - Click the **Send back**. Displays the component behind one or more other components.
- The selected components are moved forward or backward in the dashboard.



### 3.8.2.5.3.10 Copy and past components in dashboards

You can copy or cut components and past them in the same or in any other tab of the dashboard.

#### Procedure

1. Create a dashboard (page 120) or open a dashboard (page 125) in the dashboard editor.
2. Click a component inserted in the dashboard. A corresponding pop-up menu is displayed.
3. Click the **Copy** icon in the pop-up menu to copy the components selected to the clipboard.
4. Click the **Past** icon in the pop-up menu to insert the components copied in the same tab of the dashboard.

Duplicates of the components copied have been created.

5. Click the **Cut** icon in the pop-up menu to cut the component selected and copy it to the clipboard.
6. Open any tab of the dashboard and press the **Strg+V**.

Filter relations between copied components are retained.

The component selected is copied to the clipboard and pasted in dashboard tab selected.

### 3.8.2.5.3.11 Display components on several dashboard views

You can display a component on several views of a dashboard.

A component placed on several tabs can be used for filtering other components and triggering selection events across multiple tabs. And vice versa a global placed component can be filtered and triggered by other components. If a global component is selected, e.g., you click a data point of a line chart, the selection is shown in the same line charts on all tabs where it is placed. Also dependant filter and actions are triggered for the entire dashboard.

On each tab the component has the same position, size, configuration and filter conditions etc., except the component layering. See Move components to front or back (page 159).

#### Procedure

1. Create a dashboard (page 120) or open a dashboard (page 125) in the dashboard editor.
2. Click a component inserted. The relevant properties dialog is displayed.
3. Click **Select tabs** and select the tabs on which the component should be placed.

To display a component on several views you have to add one or more tabs beforehand. See Add dashboard views (page 162) for details.

The  icon indicates that the component is displayed on several tabs.

4. To remove a component from a tab unselect the relevant tab in the **Select tabs** menu.  
You cannot remove a component from the currently activated tab. Switch to another tab before.
5. To delete a component click the **Delete** icon in the pop-up menu.

If you delete a component on a tab the same component is deleted on all tabs.

The component is placed on several tabs and are displayed on the corresponding dashboard views.

You can use a action defined in the dashboard view mode. See Use dashboards in view mode (page 118).

### 3.8.2.5.3.12 Change component style template

You can assign a different style template to a component inserted in your dashboard. By means of style templates you are able to customize the look and feel of your dashboard components, e.g., colors schemes, fonts or background color.

The style templates provided for the component selected are part of the dashboard style template assigned (`freeform_change_style_template.html#task_change_style_template`) to the current dashboard.

#### Procedure

1. Create a dashboard (`freeform_create_dashboard.html#task_p4t_41h_gr/title_hdh_41h_gr`) or open a dashboard (`freeform_edit_dashboard.html#task_bpt_j4h_gr`) in the dashboard editor.
2. Click a component inserted in the dashboard. The relevant properties dialog is displayed.
3. Click **More options**.
4. Select a style template in the **Widget style** drop-down menu.

The selected style template is applied to the current dashboard component.

To create your own dashboard component style templates. See Create component style template (`freeform_create_widget_style_template.html#create_widget_style_template`) for details.


## 3.8.2.5.4 Configure dashboard views

You can configure the individual dashboard views in the dashboard editor.

### 3.8.2.5.4.1 Add dashboard views

You can add additional views of a dashboard. A dashboard can include several views. The individual views are displayed on separate tabs.

#### Procedure

1. Create a dashboard (page 120) or open a dashboard (page 125) in the dashboard editor.
2. Click the  **New tab** icon beside the tab name.

A new tab is added. The tab is displayed as a separate dashboard view in view mode.


### 3.8.2.5.4.2 Delete dashboard views

You can delete any view from a dashboard. A dashboard view is displayed as a separate tab in the dashboard editor.

#### Warning

Deleted dashboard views cannot be restored.

#### Procedure


1. Create a dashboard (page 120) or open a dashboard (page 125) in the dashboard editor.
2. Click the  **Show menu** icon beside the relevant tab name.
3. Click the **Delete** icon in the pop-up menu.
4. Click **Delete**.

The selected dashboard view is deleted.

### 3.8.2.5.4.3 Set dashboard view properties

You can set the properties of a dashboard view. Specify a name for the dashboard view, select a style and set the view selected as default.

#### Procedure

1. Create a dashboard (page 120) or open a dashboard (page 125) in the dashboard editor.
2. Click the  **Show menu** icon beside the tab title of the relevant tab.
3. Enter a text in the **Name** box in the pop-up menu.
4. To set the dashboard view style click the **Style** selection box and select a style.  
This option is only available for smart dashboards.
5. To set the dashboard view background click the color selection box and select a background color.  
This option is only available for fixed grid dashboards.


6. Click **Make default** to set the current selected tab as the default view.

The default view is displayed initially when you open the dashboard in the view mode. The dashboard view properties are set.

#### 3.8.2.5.4.4 Set dashboard view style

You can change the style applied to the dashboard view. The style selected sets, e.g., the background color of the view.

##### Procedure


1. Create a dashboard (page 120) or open a dashboard (page 125) in the dashboard editor.
2. Click the  **Show menu** icon beside the tab title of the relevant tab.
3. Click the **Style** selection box and select a style.

The dashboard view style is set.

#### 3.8.2.5.4.5 Set dashboard view as default

You can set the current selected tab as the default view. The default view is displayed initially when you open the dashboard in the view mode.

##### Procedure

1. Create a dashboard (page 120) or open a dashboard (page 125) in the dashboard editor.
2. Click the  **Show menu** icon beside the tab title of the relevant tab.
3. Click **Make default**.

The dashboard view is set as default view.


## 3.8.2.5.5 Other

### 3.8.2.5.5.1 Use dynamic URL selection

By specifying URL parameters you can dynamically select specific elements of dashboard components, e.g., a grid row, a combobox entry, a pie slice, etc. When you call a dashboard via URL in the view mode, the elements are automatically preselected and, if applicable, the preselected elements are used as a filter or action trigger.

You can select the URL parameters required for dynamic URL selection in a dashboard component's properties menu and copy them to the clipboard. You can set a preselection based on data columns for each dashboard component that supports data preselection, e.g., Grid, Input field, or several charts.

#### Procedure

1. Create a dashboard (page 120) or open a dashboard (page 125) in the dashboard editor.
2. Click an component inserted that supports data preselection. The relevant properties dialog is displayed.
3. Before you set a preselection you need to assign the relevant data columns to the component. See Assign data sources to dashboard components (Seite 130).
4. Click the **URL selection** tab.
5. You can enter a component ID in the **URL-ID** input field. If you change the preset ID you need to choose a unique ID within your dashboard and you have to save the dashboard to persist the new **URL-ID**.
6. The **URL example** field contains a URL selection of the components including all assigned data columns and corresponding dummy values.
7. You can edit the URL selection according to your requirements in the **URL example** field.  
Expected formats:  
Number: no thousands separator and a dot for decimal separator  
Date / time: yyyy-MM-ddThh:mm:ss  
Text: no restrictions (URL-encoded)
8. Copy the URL selection to the clipboard. If your browser supports this function a **Copy to clipboard** button is available.  
The URL parameters are copied to the clipboard of your operating system (URL-encoded).
9. Add the parameters to an URL that you want to use for calling a dashboard and enter the URL in your web browser.
10. To open a specific dashboard view add the corresponding tab parameter to the dashboard URL.
  - a. Click the  **Show menu** icon beside the tab title of the relevant tab.
  - b. Click the **URL selection** tab.
  - c. You can enter a tab ID in the **URL-ID** input field. If you change the preset ID you need to choose a unique ID within your dashboard.

- d. Save your settings.
- e. Copy the URL selection to the clipboard. If your browser supports this function a **Copy to clipboard** button is available.
- f. Add the URL selection copied to clipboard to your dashboard URL.

The dashboard is displayed with the preselection in view mode.

### Example

#### Dashboard preselection parameters

```
&cn16.Time=2015-12-23&cn16.Location=New%20York
```

#### Tab preselection parameter

```
&tab=tab1
```

#### URL with parameters added

```
http://<local
```

```
host>:8080/mashzone/hub/dashboard/dashboard.jsp?editmode=false&guid=0bd1cbcc-49d2-4cb1-a5fe-72cfdc624cda
```

```
&cn16.Time=2015-12-23&cn16.Location=New%20York&tab=tab1
```

These URL parameters are applied when you open the dashboard. To apply a modified preselection, you need to reload the dashboard page. However, you can also apply a selection in an open dashboard without reloading the entire page. In order to realize that, the selection string must begin with #... instead of &...

```
...#cn16.Time=2015-12-23&cn16.Location=New%20York
```

## 3.8.2.5.5.2 Hide tab bar in view mode

You can hide the tap bar in the dashboard view mode. By default, the individual dashboard views are displayed on separate tabs.

### Procedure

1. Create a dashboard (page 120) or open a dashboard (page 125) in the dashboard editor.
2. Click **Manage** in the dashboard main menu.
3. Click **Properties**.
4. Activate the **Hide tab bar in view mode** option.
5. Click **OK**.

Your settings are applied.

The tab bar is hidden when you open the dashboard in view mode

(freeform\_display\_dashboard.html#task\_yzv\_sdj\_gr). Only the active tab is displayed.

### 3.8.2.5.5.3 Set display size

You can set the display size for the current displayed dashboard. Set the zoom factor to improve the clarity of a dashboard.

The option is only available in the fixed grid dashboards. See [Switch to fixed grid work space](#) (page 124) for details.

#### Procedure

1. Create a dashboard (page 120) or open a dashboard (page 125) in the dashboard editor.
2. Click **Options** in the dashboard main menu.
  - Click **Zoom In** to increase the display size.
  - Click **Zoom Out** to decrease the display size.
  - Click **Set Zoom to 100%** to restore the default display size.

The display size of the current dashboard is adjusted accordingly.

### 3.8.2.5.5.4 Set grid lines

You can set the grid lines in the desktop background. The grid lines help you to arrange the individual components more easily. The dashboard components are automatically aligned to the grid lines.

The options are only available in the fixed grid dashboards. See [Switch to fixed grid work space](#) (page 124) for details.

#### Procedure

1. Create a dashboard (page 120) or open a dashboard (page 125) in the dashboard editor.
2. Click **Options** in the dashboard main menu.
  - Click **Increase Grid Space**.
  - Click **Reset Grid** to restore the default grid space.
  - Click **Decrease Grid Space**.

The grid lines of the current dashboard are adjusted accordingly.

### 3.8.2.6 Using data feed editor

The data feed editor as a graphical user interface gives you an easy, graphic way to create, manage and view your data feeds, without any programming knowledge.

To use the data feed editor, the **Dashboard administrator** function privilege is required.

To use data feeds in dashboards and other in data feeds, and to see the data in a dashboard, the **View** permission is required. See [Manage data feed permissions](#) (page 170) for detail.

### 3.8.2.6.1 Create a data feed

You can create data feeds in the feed editor.

A data feed is a table that contains processed data. The data in the feed table is calculated using a feed definition, which combines data from various data sources.

To create a data feed definition you need to perform the following steps.

- Open a new data feed (page 167)
- Select data sources (page 167)
- Calculate the feed data (page 168)
- Add further operators (page 168)
- Connect the operators (page 168)
- Save the data feed (page 169)

#### 3.8.2.6.1.1 Open a new data feed

To create a data feed you have to open a new data feed first.

##### Procedure

Click **Manage > New data feed** in the data feed editor main menu.

An new data feed is opened.


When creating a data feed, the <uicontrol>Output</uicontrol> element that completes the feed definition, is already set. The element is mandatory and cannot be deleted.

#### 3.8.2.6.1.2 Select data sources



You can set one or more data sources for the data feed definition, e.g., MS Excel, CSV, or XML files. The data sources for a data feed can be located locally, in the LAN, or on the Internet.

The data sources are represented by data source operators. Different options are available for setting the data source depending on the data source type.

See Data source operators (page 207) for a list of data sources and the relevant settings supported by the data feed editor.

The source files, which can be selected by specifying the path, must be stored in the ARIS Connect Repository (.

##### Procedure

1. Click the  symbol in the **Add data operations** bar, if not already selected.
2. Click a data source, e.g.,  XML.  
The selected operator is displayed on the data feed editor workspace.
3. Select the data source or connection type of the data source file required, e.g., an URL or a local path to a XML file.
4. Enter an URL or a path to the data source file, e.g., for a XML file. Or select a data source or a connection in a selection box, e.g., a PPM connection.





5. Specify your additional settings.

The selected data source operator is inserted and source data can be extracted.

### 3.8.2.6.1.3 Calculate the feed data

You can calculate the data for all operators of the feed definition and display the corresponding preview in the data feed table.

#### Procedure

1. Click the  **Calculate preview** icon in the header of an operator.
2. To read out the raw source data click the  **Calculate preview** icon in the data source operator.

The data feed is calculated up to the selected operator of the feed definition and the result is displayed in as preview in a table at the lower edge of the workspace.



### 3.8.2.6.1.4 Add further operators

Insert optional operators into the data feed definition to convert, calculate or transform data. For this the feed editor provides additional data transformation and user input operators.

You can use various operators to create calculation rules for calculating the data of your feeds.

See Data transformation operators (page 222) for a list of transformation operators and the relevant settings supported by the data feed editor.


#### Procedure

1. Click the  **Transformation** or  **Single values** icon in the **Add data operations** bar.
2. Click an operator or insert an operator using drag and drop.  
The operator is displayed on the feed editor workspace.
3. Specify your settings.

The selected operator is inserted and configured.

### 3.8.2.6.1.5 Connect the operators

Connect the inserted operators to define the data flow of the data feed definition.

The data of an operator is forwarded to another operator using a link. The link is created as a connection between outgoing and incoming  anchor points of the individual operator. For a selected outgoing anchor point, the permitted incoming anchor points are each marked in blue.


**User input** operators are only connectable with **Single value** operators.

#### Procedure

1. Click the outgoing anchor point of a data source and drag it to an incoming anchor point of a transformation operator.
2. To disconnect two operators click an incoming or outgoing anchor point and drop it on the workspace.

3. Define the data flow among the inserted operators in a similar manner.
4. Finally, connect the last transformation operator with the **Output** operator to finalize the data feed definition.

Your data feed definition is configured.

To view the calculation result of the completed data feed definition click the  **Calculate preview** symbol of the **Output** operator.

### 3.8.2.6.1.6 Save the data feed

You can save the data feed and give it a unique name.

#### Procedure

1. Click **Manage > Save** in the main menu.  
With the **Save as** option you can create a copy of the current opened data feed.
2. Specify your settings.

The data feed is saved on the server.

You can change your settings by editing the data feed (page 169).

### 3.8.2.6.2 Edit a data feed

You can edit a data feed available in the data feed editor.

#### Procedure

1. Click **Manage > Open** in the data feed editor main menu.
2. Select an **Available data feed**.
3. Make your settings.
4. Click **Manage > Save** in the data feed editor main menu.

Your settings are applied.

### 3.8.2.6.3 Delete data feeds

You can delete data feeds in the feed editor.

#### Warning

Deleted data feeds cannot be restored.

#### Procedure

1. Create a dashboard (page 120) or open a dashboard (page 125) in the dashboard editor.
2. Click **Manage > Delete** in the data feed editor main menu.
3. Click **Delete**.

The selected data feed is deleted.

### 3.8.2.6.4 Edit data feed properties

You can edit the properties (name, description and tags) of existing data feeds.

#### Procedure

1. Create a dashboard (page 120) or open a dashboard (page 125) in the dashboard editor.
2. Click **Manage > Properties** in the feed editor main menu. The **Dashboard properties** dialog is displayed.
3. Enter the mandatory **Name** of the data feed.
4. Enter an optional **Description**.
5. You can optionally enter comma separated search tags in the **Tags** field.
6. Click **OK**.

Your changes are applied.

### 3.8.2.6.5 Manage data feed permissions

You can manage the permissions of data feeds in the data feed editor. You are able to assign specific access permissions to individual users or user groups. If you assign permissions to a user group the permissions are automatically assigned to all members of the user group.

You can assign the following access rights only for saved data feeds.

- **Edit**

This user can use data feeds to create dashboards or include them in other data feeds and he can edit data feeds in the data feed editor.

- **View**

This user can use data feeds to create dashboards or include them in other data feeds. This user can view the data of the data feed in the view mode of the related dashboard.

#### Procedure

1. Create a dashboard (page 120) or open a dashboard (page 125) in the dashboard editor.
2. Click **Manage > Permissions** in the data feed editor main menu. The **Manage dashboard permissions** dialog is displayed.
3. Enter a term in the search field and click **Search**. Clicking on **Search** without any input values fetches all users and groups.
4. Click **Show MashZone NextGen default groups** to show only default users or user group in the **Search results** field.
5. Drag an user or user group from the **Search result** field and drop it into the **Principals with permissions** field.  
By default, the creator of the data feed is already present in the **Principals with permissions** list.
6. Activate or deactivate the **View** or **Edit** privileges of an user or user group.

7. Click **Save**.

Your changes are applied.

If you want to remove a user or user group from the Principals with permissions list click the Delete icon.

### 3.8.2.6.6 Data feed operators

The feed editor provides a wide range of data source and data transformation operators for creating data feed definitions (Seite 167).

- Data source operators (page 207)
- Data transformation operators (page 222)



### 3.8.2.6.7 Upload file based data sources

To use data sources in the dashboard and data feed editor that are file-based, such as Excel spreadsheets, CSV files or XML files, you have to store the files in a resource directory in the ARIS document storage, accessible in the ARIS Connect Repository.

#### Prerequisite

You have the **Dashboard administrator** function privilege.

#### Procedure

1. Start ARIS Connect.
2. Activate the  **Repository**.
3. Activate the **Documents** tab.
4. In ARIS document storage navigation tree select the folder where you want to store your source file.
5. Click  **Upload**. The **Upload new document** dialog is displayed.
6. Click **Select** and select the relevant resource file.
7. Enter a title in the **Title** input box.
8. Enter a description in the **Description** input box.
9. Enter a number of terms comma separated in the **Tags** input box. Tags are used for the search function.
10. Click **Upload**.

The source file is stored in the resource directory selected.

The URL of the data source file is required for the data source operator in the data feed editor. You can copy the file URL to clipboard. For this, click the relevant data source file name to display the document details. In the document details right click the **Link** at the end of the page and select **Copy Link Location** in the context menu. The file URL is copied to clipboard.

## 3.8.2.6.8 Other


### 3.8.2.6.8.1 Make your dashboards context-sensitive

You can make your dashboards context-sensitive, by assigning dashboards to specific ARIS models or objects. For example, if you select a model in ARIS Connect the dashboards assigned to the model are provided and you can open a dashboard desired.

By means of the **Input field** component you are able to insert variables into a dashboard. The variables are used to connect ARIS models or objects with the dashboard. The dashboard variables required are **contextguid** for the GUID of a currently opened model and **selectionguid** for the GUID of a currently selected object.

When you open a model, the **selectionguid** variable is not set. But when you do a selection in the model opened, the **selectionguid** variable is set to the GUID of the selected object. Removing the focus from the object selected the **selectionguid** variable is set to the GUID of the model opened.

#### Procedure

1. Insert an input field for each variable required into a dashboard by clicking the  **Input field** component.
2. Click an input field to open the properties dialog.
3. Enter the variable names **contextguid** and **selectionguid** into the **Name** input box of the relevant input field.
4. On the **URL selection** tab of the **contextguid** input field enter **contextguid** into the **URL-ID** input field.
5. On the **URL selection** tab of the **selectionguid** input field enter **selectionguid** into the **URL-ID** input field.

The relevant variables **contextguid** and **selectionguid** are inserted in the dashboard.

#### Tip

ARIS Aware provides the predefined data feed **Context GUID** containing the variables required. The variables defined always deliver the current selection, either the model GUID or the object GUID. You can use the data feed as example for creating your own context-sensitive dashboards.

### 3.8.3 Valuable information

This section provides background information to assist you in carrying out the relevant procedures.

#### 3.8.3.1 What are dashboards?

Dashboards are interactive applications that collect data from different data sources, combine it, and visualize it, e.g., ARIS table or CSV files. Dashboards are composed of individual components (e.g., line chart or grid). They obtain their data from data sources and display it.

Dashboards make it easy to visualize and analyze information. You can combine data from any original source and visualize them by means of graphic elements, filter the displayed results interactively and thus analyze them intuitively.

The dashboard editor as a graphical user interface gives you an easy graphic way to create, manage and view your dashboards. The dashboard editor provides the edit mode and the view mode. In the edit mode you can create and manage your dashboards. The view mode enables you to view and use your dashboards interactively.

See Use dashboards in view mode (page 118) for instructions.

See Create a dashboard (page 120) for instructions.

#### 3.8.3.2 What are data feeds?

A data feed is a table containing prepared data. It consists of several columns that contain numerical values (e.g., figures), text, or date values. Each row in the calculated result of a data feed corresponds to one data record.

The data in a data feed is calculated based on various data sources (e.g., data from MS Excel, CSV, or XML files) using feed definitions. The source data is not held redundantly in the data feed, but remains in its original sources, ensuring that it is constantly up to date. In addition to the external data sources, direct user entries in the data feeds can also be processed.

Data feeds are used as data sources for dashboards.

Only one data feed can be assigned to each dashboard component, with the same data feed being able to supply the data for several dashboard components. See Assign data sources to dashboard components (Seite 130) for details.

Feed definitions aggregate, extend, transform, or calculate data from one or more data sources. A feed definition can consist of any number of operators and data sources, which are linked together using connections. Data is calculated for each data source and each operator and then passed on to the operators linked to them for further processing. A feed definition delivers a data structure in the form of a list table as its result. All individual processing steps in the feed definition are based on this data structure.

The Feed Editor as a graphical user interface gives you an easy, graphic way to create, manage and view your data feeds, without any programming knowledge. The feed editor provides you with all supported data source operators and all relevant data transformation and user input operators. Rule definitions are done using drag and drop.

See Create data feeds (Seite 167) for instructions.

**Data feed definition and feed table**

Calculation result of operator 'Data feed'	
Customer	Revenue
SAP	10000.0
Siemens	20000.0
HP	15000.0
Volkswagen	12000.0

**3.8.3.3 What is the data source for dashboards by default?**

In ARIS Architect, users with the **Script administrator** function privilege will find all standard reports available in this category. The reports are shown on the **Administration** > **Evaluations** > **Report** tab and in the Report Wizard.

In this category you find reports needed to generate data feed input for default ARIS Aware Dashboards. The code of these reports cannot be modified. If you like to modify the code, in order to define your own dashboards (page 116), import the required reports from the ARIS installation DVD.

For some reports parameters can be specified. These parameterized reports are to be started frequently using report schedules. This keeps the dashboards up to date. The scheduled reports themselves trigger related reports. Each report collects specific pieces of information. The results are stored in ARIS document storage as XML report output files. These pieces of information are formed into dashboards. That is why dashboards correlate very closely to the set of executed reports.

### 3.8.3.3.1 Report: CoE - Aggregated maturity level

#### USE

This report evaluates the following **Center of Excellence** use cases using several subordinated reports.

- Maturity level
- Mandatory properties
- Number of processes
- Model status
- Model age

The results are aggregated along the process hierarchy so that each level of the process hierarchy will provide an aggregated result for its complete child hierarchy.

The report provides various parameters allowing customizing without changing the report code.

#### OUTPUT

Generates the following files stored in this subfolder: ARIS document storage/Dashboarding/United Motor Group/**CoE** (page 62).

- **COE\_MATURITY\_LEVEL.XML**
- **COE\_MANDATORY\_PROPERTIES.XML**
- **COE\_NUMBER\_OF\_PROCESSES.XML**
- **COE\_MODEL\_STATUS.XML**
- **COE\_REPRESENTATIVE\_OBJECTS.XML**
- **COE\_MODEL\_AGE.XML**

The report results are used as input for the Center of Excellence (CoE) dashboards (page 643).

#### CONTEXT

Database

### 3.8.3.3.1.1 Report: CoE - Maturity level/Mandatory properties

#### USE

This report provides the evaluation algorithms for the following **Center of Excellence** use cases:

- Maturity level
- Mandatory properties

It is invoked by the **CoE - Aggregated maturity level** report and is not intended to be started by users.



### 3.8.3.3.1.2 Report: CoE - Model age

#### USE

This **Center of Excellence** report provides the evaluation algorithms for the **Model age** use case.

It is invoked by the **CoE - Aggregated maturity level** report and is not intended to be started by users.

### 3.8.3.3.1.3 Report: CoE - Number of processes/Model status

#### USE

This report provides the evaluation algorithms for the following **Center of Excellence** use cases:

- Number of processes
- Model status

It is invoked by the **CoE - Aggregated maturity level** report and is not intended to be started by users.

### 3.8.3.3.1.4 Report: CoE - Representative Objects

#### USE

This report collects representative objects for the items in the evaluated hierarchy.

It is invoked by the **CoE - Aggregated maturity level** report and is not intended to be started by users.

### 3.8.3.3.2 Report: CoE - Local and global maturity level

#### USE

This report evaluates the following **Center of Excellence** use cases using several subordinated reports.

- Conventions
- Owner distribution
- Validity date

The report provides various parameters allowing customizing without changing the report code.

#### OUTPUT

Generates the following files stored in this subfolder: ARIS document storage/Dashboarding/United Motor Group/**CoE** (page 62).

- **COE\_CONVENTIONS.XML**
- **COE\_OWNER\_DISTRIBUTION.XML**
- **COE\_VALIDITY\_DATE.XML**

The report results are used as input for the Center of Excellence (CoE) dashboards (page 643).

#### CONTEXT

Database

### 3.8.3.3.2.1 Report: CoE - Conventions

#### USE

This **Center of Excellence** report provides the evaluation algorithms for the **Conventions** use case.

It is invoked by the main **CoE - Local and global maturity level** report and is not intended to be started by users.

### 3.8.3.3.2.2 Report: CoE - Owner distribution

#### USE

This internal **Center of Excellence** report provides the evaluation algorithms for the **Owner distribution** use case.

It is invoked by the main **CoE - Local and global maturity level** report and is not intended to be started by users.

### 3.8.3.3.2.3 Report: CoE - Validity date

#### USE

This internal **Center of Excellence** report provides the evaluation algorithms for the **Validity date** use case.

It is invoked by the main **CoE - Local and global maturity level** report and is not intended to be started by users.

### 3.8.3.3.3 Report: CXM - Analyze customer experience

#### USE

This report provides the answers to the following questions and provides a general overview:

- Which business drivers influenced the journey?
- How happy is the customer?
- Which customer touchpoints are critical?
- Overview of risks and initiatives.

The report provides various parameters allowing customizing without changing the report code.

#### OUTPUT

Generates the **CMX\_ANALYZE\_CUSTOMER\_EXPERIENCE.XML** file. The **Get a general overview** document is stored in this subfolder: ARIS document storage/Dashboarding/<database name; default=United Motor Group>/**CXM** (page 62).

The report result is used as input for the **CXM - Analyze customer experience** data feed. This data feed is related to the **Customer experience** (page 660) and **Customer journey map (page 668)** dashboards.

#### CONTEXT

Database

### 3.8.3.3.4 Report: CXM – Analyze customer journeys (TOP 7)

This report answers the following questions:

- Which customer journey is the most critical?
- Which customer lifecycle
- Which stage is the most critical?

The report provides various parameters allowing customizing without changing the report code.

#### OUTPUT

Generates the **CXM\_ANALYZE\_CUSTOMER\_JOURNEYS.XML** document stored in ARIS document storage. The **Analyze customer journeys (TOP 7)** document is stored in this subfolder: ARIS document storage/Dashboarding/<database name; default=United Motor Group>/EA (page 62).

The report result is used as input for the **CXM - Analyze customer journeys** data feed. This data feed is related to the the **Customer experience CXM** dashboard (page 660).

#### CONTEXT

Database

### 3.8.3.3.5 Report: CXM - Critical journeys

#### USE

This report answers the following questions:

- Which customer journey is the most critical?
- Which customer lifecycle stage is the most critical?

The report provides various parameters allowing customizing without changing the report code.

#### OUTPUT

Generates the **CXM\_CRITICAL\_JOURNEYS.XML** file. The **Which customer journey/customer lifecycle stage is the most critical?** document is stored in this subfolder: ARIS document storage/Dashboarding/<database name; default=United Motor Group>/CXM (page 62).

The report result is used as input for the **Customer Experience (CXM)** dashboards (page 660).

#### CONTEXT

Database

### 3.8.3.3.6 Report: CXM - Responsibility (Channel)

#### USE

This report provides the answers to the question: **Who is responsible for the customer touchpoints (Channel)?**

The report provides various parameters allowing customizing without changing the report code.

#### OUTPUT

Generates the **CMX\_RESPONSIBLE\_CHANNEL.XML** file. The **Who is responsible for the customer touchpoints (Channel)?** document is stored in this subfolder: ARIS document storage/Dashboarding/<database name; default=United Motor Group>/**CXM** (page 62).

The report result is used as input for the **CXM - Responsible channel** data feed. This data feed is related to the the **Responsibilities** CXM dashboard (page 665).

#### CONTEXT

Database

### 3.8.3.3.7 Report: CXM - Responsibility (Ownership)

#### USE

This report provides the answer to the following question: **Who is responsible for the customer touchpoints (Ownership)?**

The report provides various parameters allowing customizing without changing the report code.

#### OUTPUT

Generates the **CMX\_RESPONSIBLE\_OWNER.XML** file. The **Who is responsible for the customer touchpoints (Ownership)?** document is stored in this subfolder: ARIS document storage/Dashboarding/<database name; default=United Motor Group>/**CXM** (page 62).

The report result is used as input for the **CXM - Responsible owner** data feed. This data feed is related to the the **Responsibilities** CXM dashboard (page 665).

#### CONTEXT

Database

### 3.8.3.3.8 Report: EA - KPIs with data

This report creates a table with all KPIs in the database. Each KPI's quantitative and qualitative goal accomplishments are included.

The goal accomplishments are calculated according to Balanced Scorecard methodology.

For the calculation of the goal accomplishment values, at least the actual and the plan values of the KPI have to be maintained. In case of an inverse KPI, the maximum value is required, as well, but only for the quantitative goal accomplishment.

The report provides various parameters allowing customizing without changing the report code.

#### OUTPUT

Generates the **EA\_KPIS\_WITH\_DATA.XML** file. **EA - KPIs with data** document is stored in this subfolder: ARIS document storage/Dashboarding/<database name; default=United Motor Group>/EA (page 62).

The report result is used as input for the **EA - Goal accomplishment (KPIs per objective)** data feed. This data feed is related, e. g., to the **EA dashboard for objectives** (page 693) dashboard.

#### CONTEXT

Database

### 3.8.3.3.9 Report: EA - Models and objectives

This report creates a table with models of the **Strategy diagram** model type and the **Objective diagram** model type, both of which contain objectives. In addition, all objectives that the models contain are listed.

The **Business Strategy** extension pack is required for ARIS Architect or ARIS Designer in order to have the required attribute types available.

The report provides various parameters allowing customizing without changing the report code.

#### OUTPUT

Generates the **EA\_MODELS\_AND\_OBJECTIVES.XML** file. The **EA - Models and objectives** document is stored in this subfolder: ARIS document storage/Dashboarding/<database name; default=United Motor Group>/EA (page 62).

The report result is used as input for the **EA - Goal accomplishment (objectives)** data feed. This data feed is related, e. g., to the **EA dashboard for objectives** (page 693) dashboard.

#### CONTEXT

Database

### 3.8.3.3.10 Report: EA - Objectives and KPIs

This report creates a table with all objectives and their KPIs.

The report provides various parameters allowing customizing without changing the report code.

#### OUTPUT

Generates the **EA\_OBJECTIVES\_AND\_KPIS.XML** file. **EA - Objectives and KPIs** document is stored in this subfolder: ARIS document storage/Dashboarding/<database name; default=United Motor Group>/EA (page 62).

The report result is used as input for the **EA - Goal accomplishment (KPIs per objective)** data feed. This data feed is related, e. g., to the **EA dashboard for objectives** (page 693) dashboard.

#### CONTEXT

Database

### 3.8.3.3.11 Report: EA - Objectives with data

This report creates a table that includes all objectives of the database. The goal accomplishment is also provided for each objective.

The goal accomplishment is calculated as a weighted sum of the quantitative goal accomplishment values of the connected KPIs. This is done only if a weighting value was specified for all connections to KPIs, and if goal accomplishment values can be calculated for all KPIs. For the latter to be possible, the actual value and the plan value must have been specified for each KPI. For an inverse KPI, the maximum value must be available as well.

The calculation is carried out in line with the **Balanced Scorecard** methodology and in the same way as in the **Create BSC management view** report.

The **Business Strategy** extension pack is required for ARIS Architect or ARIS Designer in order to have the required attribute types available.

The report provides various parameters allowing customizing without changing the report code.

#### OUTPUT

Generates the **EA\_OBJECTIVES\_WITH\_DATA.XML** file. The **EA - Objectives with data** document is stored in this subfolder: ARIS document storage/Dashboarding/<database name; default=United Motor Group>/EA (page 62).

The report result is used as input for the **EA - Goal accomplishment (objectives)** data feed. This data feed is related, e. g., to the **EA dashboard for objectives** (page 693) dashboard.

#### CONTEXT

Database

### 3.8.3.3.12 Report: EA - Relations between organizational units and systems

This report creates a table with pairs of organizational units and IT systems. Such a pair is included in the table if a system supports an organizational unit, via a function and optionally a position or role, or an organizational unit is responsible for a system. The report also takes hierarchies of functions and organizational units into account.

The report provides various parameters allowing customizing without changing the report code.

#### OUTPUT

Generates the **EA\_UNIT\_SYSTEM.XML** file. The **Relations between units and systems** document is stored in this subfolder: ARIS document storage/Dashboarding/<database name; default=United Motor Group>/EA (page 62).

The report result is used as input for the **EA - Organizational unit - Systems with lifecycle data** and the **EA - Organizational unit - Systems expired** data feeds. These data feeds are related to the EA dashboard for organizational units (page 683) dashboard.

#### CONTEXT

Database

### 3.8.3.3.13 Report: EA - System redundancies

This report creates a table listing all IT system pairs that have common capabilities. In each pair, **System A** is considered to be the potential replacement for **System B**. For each pair, the capability overlap is shown as a percentage.

The report provides various parameters allowing customizing without changing the report code.

#### OUTPUT

Generates the **EA\_SYSTEM\_REDUNDANCIES.XML** file. **The System redundancies in the use of capabilities** document is stored in this subfolder: ARIS document storage/Dashboarding/<database name; default=United Motor Group>/EA (page 62).

The report result is used as input for the **EA - System - System redundancies** data feed. This data feed is related, e. g., to the EA dashboard for organizational units (page 683) dashboard.

#### CONTEXT

Database



### 3.8.3.3.14 Report: EA - System support

This report creates a table that includes all IT systems of the database, as well as the organizational units and functions they support. Each row in the table consists of an **Application system type** object, the supported object, the object type, the support count, and a rank. The supported objects are identified by first retrieving the IT systems as well as the process support units connected to them, and then retrieving the organizational units and functions connected to the process support units.

The **Enterprise Architecture Management** extension pack is required for ARIS Architect or ARIS Designer.

The report provides various parameters allowing customizing without changing the report code.

#### OUTPUT

Generates the **EA\_SYSTEM\_SUPPORTS.XML** document stored in ARIS document storage. The **System supports document** is stored in this subfolder: ARIS document storage/Dashboarding/<database name; default=United Motor Group>/EA (page 62).

The report result is used as input for the **EA - System - Supported organizational units** data feed. This data feed is related to the the EA dashboard for IT systems (page 689).

#### CONTEXT

Database

### 3.8.3.3.15 Report: EA - System support for VACDs

This report traverses the hierarchy of value-added chain diagrams (VACDs) and counts how many functions in EPCs assigned to VACDs are supported by an IT system. An IT system supports a function if the IT system is linked to the function via a connection of the **supports** type. The report creates a table listing the support count and a rank for each combination of an IT system with a VACD.

The report provides various parameters allowing customizing without changing the report code.

#### OUTPUT

Generates the **EA\_SYSTEMS\_VACD\_SUPPORTS.XML** file. The document is stored in this subfolder: ARIS document storage/Dashboarding/<database name; default=United Motor Group>/EA (page 62).

The report result is used as input for the **EA - System Supported processes** data feed. The data feed is related to the **EA dashboard for IT systems** (page 689) dashboard.

#### CONTEXT

Database

### 3.8.3.3.16 Report: EA - Systems with data

This report creates a table listing all IT systems of the database. For each system, various types of information are provided, such as the **Data center costs** and **Criticality** attributes, or the number of interfaces.

The **Enterprise Architecture Management** extension pack is required for ARIS Architect or ARIS Designer.

The report provides various parameters allowing customizing without changing the report code.

#### OUTPUT

Generates the **EA\_SYSTEMS\_WITH\_DATA.XML** file. The **Systems with data** document is stored within this subfolder: ARIS document storage/Dashboarding/<database name; default=United Motor Group>/EA (page 62).

The report result is used as input for the **EA - Organizational unit - Systems with data** data feed. This data feed is related to the EA dashboard for organizational units (page 683) dashboard.

#### CONTEXT

Database

### 3.8.3.3.17 Report: EA/Alfabet - CAPEX/OPEX for organizational units

This report creates a table that includes the capital expenses (CAPEX) and operational expenses (OPEX) over time for all organizational units of the database that also exist in a connected Alfabet system. Each row contains the name, ARIS GUID, and Alfabet GUID of the organizational unit, the year to which the cost values refer, as well as the CAPEX and OPEX cost values themselves.

The report provides various parameters allowing customizing without changing the report code.

#### OUTPUT

Generates the **EA\_CAPEX\_OPEX.XML** file. The **Capex/Opex** document is stored in this subfolder: ARIS document storage/Dashboarding/<database name; default=United Motor Group>/EA (page 62).

The report result is used as input for the **EA - OrgUnit - CAPEX/OPEX** data feed. This data feed is related to the EA dashboard for organizational units (page 683) dashboard.

#### CONTEXT

Database

### 3.8.3.3.18 Report: EA - KPIs with data

This report creates a table listing all IT systems of the database that also exist in Alfabet. For each system and year, the table contains a row providing the cost values for the various cost types as specified in Alfabet.

The report provides various parameters allowing customizing without changing the report code.

#### OUTPUT

Generates the **EA\_SYSTEM\_COSTS.XML** file. **System costs** document is stored in this subfolder: ARIS document storage/Dashboarding/<database name; default=United Motor Group>/EA (page 62).

The report result is used as input for the **EA - System (costs over time) data feed**. This data feed is related, e. g., to the **EA dashboard for IT systems** (page 689) dashboard.

#### CONTEXT

Database

### 3.8.3.3.19 Report: EA/Alfabet - Systems with lifecycle data

This report creates a table listing all **Application system type** objects of the database. It also provides the lifecycle data for each object. These data originate from an Alfabet system - if one is connected to the database - or from the relevant ARIS attributes.

The **Enterprise Architecture Management** extension pack is required for ARIS Architect or ARIS Designer.

The report provides various parameters allowing customizing without changing the report code.

#### OUTPUT

Generates the **EA\_SYSTEM\_LIFECYCLE.XML** document stored in ARIS document storage. The **System with lifecycle data** document is stored in this subfolder: ARIS document storage/Dashboarding/<database name; default=United Motor Group>/EA (page 62).

The report result is used as input for the **EA - Organizational unit - Systems with lifecycle data** and the **EA - Organizational unit - Systems expired** data feeds. These data feeds are related to the EA dashboard for organizational units (page 683) dashboard.

#### CONTEXT

Database

### 3.8.3.3.20 Report: Export item data to tables

This report is working with parameters only. These parameters are related to the current ARIS Connect configuration.

You must specify the items and the properties for these items. While running, the report collects these user specified properties and writes the output to ARIS document storage.

The report provides various parameters allowing customizing without changing the report code.

#### CONTEXT

Database

### 3.8.3.3.21 Report: Piwik - Database-specific portal usage

This report creates ARIS database-specific portal usage statistics. Therefore, it accesses an external Piwik instance that contains a collection of ARIS portal events, retrieves specific Piwik reports, and adds ARIS data to them, if required.

The following **Piwik** reports are retrieved:

- **PageTitles** report
- **CustomDimension** report
- **SiteSearchKeywords** report

In order to use the Piwik - Global portal usage (page 188) report and the Piwik - Database-specific portal usage (page 187) report make sure to have Piwik installed and configured and the report parameters specified accordingly.

#### OUTPUT

Generates several **XML** documents stored in the ARIS document storage/Dashboarding/<database name; default=United Motor Group>/**Piwik** subgroup.

The report result is used as input for the Piwik - Publications (page 672) dashboard.

#### CONTEXT

Database

### 3.8.3.3.22 Report: Piwik - Global portal usage

This report creates global portal usage statistics. Therefore, it accesses an external Piwik instance that contains a collection of ARIS portal events, retrieves specific **Piwik** reports, and adds ARIS data to them, if required.

The following **Piwik** reports are retrieved:

- **VisitsSummary** report
- **BrowserVersions** report
- **BrowserEngines** report
- **Language** report
- **OsVersions** report

In order to use the Piwik - Global portal usage (page 188) report and the Piwik - Database-specific portal usage (page 187) report make sure to have Piwik installed and configured and the report parameters specified accordingly.

The parameters must be specified according to the required Piwik settings. If the settings are specified several output files are generated.

#### OUTPUT

Generates several **XML** documents stored in this subfolder: ARIS document storage/Dashboarding/**Piwik** (page 62).

The report result is used as input for the Piwik - Technical KPIs (page 678) dashboard.

#### CONTEXT

Database

Since for ARIS reports a context is mandatory, for this report an ARIS database must be specified as its context. However, the database will not be evaluated by the report and it therefore does not matter which database is selected.

### 3.8.3.3.23 Report: Piwik - Global portal usage

This report is used by MashZone to retrieve a data feed from ARIS Server. A data feed can be created in ARIS Architect. An XSL table is generated frequently by using a scheduled report.

#### CONTEXT

Database

### 3.8.3.4 How to make default dashboards visible

ARIS provides several default dashboards. In ARIS Connect these sample dashboards can be accessed using the most recent version of the **United Motor Group** ARIS database. You can either use these dashboards (page 107) created for demonstration purposes, or create your own dashboards (page 116).

In order to make the default dashboards available in ARIS Connect, the following prerequisites must be met:

- The **dashboarding** runnable is in the **ACTIVE** state.  
It is already activated if ARIS Aware has been installed. If not active, your server administrator must activate the runnable using ARIS Cloud Controller (ACC)(see **ARIS Server Installation Guide** or **ARIS Cloud Controller (ACC) Command-Line Tool** on DVD, ARIS Download Center (aris.softwareag.com) or Empower (<https://empower.softwareag.com/>)).
- In the User Management a valid ARIS Server license of the **YCSAW** type is available in the ARIS Administration (see ARIS Connect online help).
- In ARIS Connect, the **Feed URL** alias URL must be defined (see ARIS Connect online help; Add an alias URL for dashboards (page 103)).
- The required content has been made available from the ARIS installation DVD (page 107).
- In ARIS Connect, check default data feeds for issues (page 110).

### 3.8.3.5 What is an alias of a URL?

An alias is always recommended to shorten the link used in dashboards and data feeds. You have to enter the path where the data are stored only, and not the complete URL.







This also enables the import of such data to a different server. In this case, you have to adapt the alias only.








If you have updated ARIS Connect 10.0 Service Release 1 to version 10.0 Service Release 2 you need to recreate the URL alias that have been defined for ARIS Connect 10.0 Service Release 1. Delete the URL alias (page 105) at first and add a new URL alias (page 103) with the same data.

### 3.8.3.6 Dashboard components

The dashboard editor provides a various number of dashboard components.

Available dashboard components:

-  Line chart (page 190)
-  Column chart (page 191)
-  Bar chart (page 192)
-  Pie chart (page 193)
-  Bubble chart (page 194)
-  Grid (page 195)


-  Circular gauge chart (page 196)
- Horizontal and vertical gauge chart (page 197)
-  Traffic light (page 198)
-  Drop-down box (page 199)
-  Input field (page 200)
-  Image (page 201)
-  Label (page 202)
-  Function flow diagram (page 203)

See also Insert components into a dashboard (page 130).

### 3.8.3.6.1 Line chart

A line chart can display values for two iterations. Two dimensions and one KPI can be used, or one dimension and multiple KPIs. The second iteration is displayed with several stacked lines. Multiple KPIs are then displayed using lines of different colors.

The following component options are available.

General Options	Description
Name	Optional component name
More options	Displays additional options
Container	<p><b>Hide header:</b> Hides the header incl. the title of the component and the content will be resized. Click the icon again to display the header.</p> <p><b>Hide border:</b> Hides the outline of the component container. Click the icon again to display the outline.</p>
Container style	Selects the style type of the container. The container styles available in the drop-down menu are part of the style template selected for the current dashboard. By default, the <b>Default</b> widget style is preselected.
Style	Selects the style type of the component. The component styles available in the drop-down menu are part of the style template selected for the current dashboard. By default, the <b>Default</b> widget style is preselected.
Auto refresh	Sets the automatic data retrieval of the component
Visibility	Selects the tabs, where the component is displayed. The  icon indicates that the component is displayed on several tabs. See Display components on several dashboard views (page 160) for details.

Specific line chart options	Description
Chart title	Optional chart title for the displayed chart of the component
Line type	Selects the line type of the line chart. Available are <b>Linear</b> , <b>Curved</b> or <b>Step</b> line types. Default is <b>Linear</b> .
Data points	Selects the size of displayed data points. Available are <b>Large</b> , <b>Small</b> or <b>None</b> line types. Default is <b>Large</b> .
Interpolate	Activated option: Missing values are ignored (leads to a continuous line). Deactivated option: Missing values lead to gaps within the line.
Rotate X-axis labels	Rotates the labels of the X-axis 90 degrees
Legend position	Displays a legend in the chart component and sets the position. Default is <b>None</b> , i.e., no legend is displayed.


### 3.8.3.6.2 Column chart

A column chart can display values for two iterations. Two dimensions and one KPI can be used, or one dimension and multiple KPIs. The second iteration is displayed with several stacked columns. Multiple KPIs are then displayed using columns of different colors.

The following component options are available.

General Options	Description
Name	Optional component name
More options	Displays additional options
Container	<b>Hide header:</b> Hides the header incl. the title of the component and the content will be resized. Click the icon again to display the header. <b>Hide border:</b> Hides the outline of the component container. Click the icon again to display the outline.
Container style	Selects the style type of the container. The container styles available in the drop-down menu are part of the style template selected for the current dashboard. By default, the <b>Default</b> widget style is preselected.
Style	Selects the style type of the component. The component styles available in the drop-down menu are part of the style template selected for the current dashboard. By default, the <b>Default</b> widget style is preselected.
Auto refresh	Sets the automatic data retrieval of the component




General Options	Description
Visibility	Selects the tabs, where the component is displayed. The  icon indicates that the component is displayed on several tabs. See Display components on several dashboard views (page 160) for details.

Specific column chart options	Description
Chart title	Optional chart title for the displayed chart of the component
Column type	Selects the column type of the column chart. This option is available only if a data source has been assigned. Available are <b>Stacked</b> or <b>Grouped</b> columns.
Legend position	Displays a legend in the chart component and sets the position. Default is <b>None</b> , i.e., no legend is displayed.

### 3.8.3.6.3 Bar chart

A bar chart can display values for two iterations. Two dimensions and one KPI can be used, or one dimension and multiple KPIs. The second iteration is displayed with several stacked columns. Multiple KPIs are then displayed using bars of different colors.

The following component options are available.

General Options	Description
Name	Optional component name
More options	Displays additional options
Container	<b>Hide header:</b> Hides the header incl. the title of the component and the content will be resized. Click the icon again to display the header. <b>Hide border:</b> Hides the outline of the component container. Click the icon again to display the outline.
Container style	Selects the style type of the container. The container styles available in the drop-down menu are part of the style template selected for the current dashboard. By default, the <b>Default</b> widget style is preselected.
Style	Selects the style type of the component. The component styles available in the drop-down menu are part of the style template selected for the current dashboard. By default, the <b>Default</b> widget style is preselected.
Auto refresh	Sets the automatic data retrieval of the component
Visibility	Selects the tabs, where the component is displayed. The  icon indicates that the component is displayed on several tabs. See Display components

General Options	Description
	on several dashboard views (page 160) for details.
Specific bar chart options	Description
Chart title	Optional chart title for the displayed chart of the component
Column type	Selects the bar type of the bar chart. This option is available only if a data source has been assigned. Available are <b>Stacked</b> or <b>Grouped</b> bars.
Legend position	Displays a legend in the chart component and sets the position. Default is <b>None</b> , i.e., no legend is displayed.

### 3.8.3.6.4 Pie chart

The following component options are available.

General Options	Description
Name	Optional component name
More options	Displays additional options
Container	<p><b>Hide header:</b> Hides the header incl. the title of the component and the content will be resized. Click the icon again to display the header.</p> <p><b>Hide border:</b> Hides the outline of the component container. Click the icon again to display the outline.</p>
Container style	Selects the style type of the container. The container styles available in the drop-down menu are part of the style template selected for the current dashboard. By default, the <b>Default</b> widget style is preselected.
Style	Selects the style type of the component. The component styles available in the drop-down menu are part of the style template selected for the current dashboard. By default, the <b>Default</b> widget style is preselected.
Auto refresh	Sets the automatic data retrieval of the component
Visibility	Selects the tabs, where the component is displayed. The icon indicates that the component is displayed on several tabs. See Display components on several dashboard views (page 160) for details.
Specific pie chart options	Description
Chart title	Optional chart title for the displayed chart of the component
Inner radius	Selects a inner radius in % to display a inner circle with the selected radius.
Values	Selects in the values drop-down menu the kind of display for the displayed KPIs.

General Options	Description
Values position	Select in the values position drop-down menu the position where the KPI values are displayed. Available positions are <b>Inside</b> and <b>Outside</b> of the pie chart.
Legend position	Displays a legend in the chart component and sets the position. Default is <b>None</b> , i.e., no legend is displayed.

### 3.8.3.6.5 Bubble chart

The following component options are available.

General Options	Description
Name	Optional component name
More options	Displays additional options
Container	<b>Hide header:</b> Hides the header incl. the title of the component and the content will be resized. Click the icon again to display the header. <b>Hide border:</b> Hides the outline of the component container. Click the icon again to display the outline.
Container style	Selects the style type of the container. The container styles available in the drop-down menu are part of the style template selected for the current dashboard. By default, the <b>Default</b> widget style is preselected.
Style	Selects the style type of the component. The component styles available in the drop-down menu are part of the style template selected for the current dashboard. By default, the <b>Default</b> widget style is preselected.
Auto refresh	Sets the automatic data retrieval of the component
Visibility	Selects the tabs, where the component is displayed. The icon indicates that the component is displayed on several tabs. See Display components on several dashboard views (page 160) for details.
Specific bubble chart options	Description
Chart title	Optional chart title for the displayed chart of the component
Data points	Selects the data point shape. Default is <b>Circle</b> . The option is only available when <b>Partition</b> is assigned. See Assign data columns to bubble chart. (page 138)
Data point size	Selects the data point size. Default is <b>Medium</b> .
Legend position	Displays a legend in the chart component and sets the position. Default is <b>None</b> , i.e., no legend is displayed.

### 3.8.3.6.6 Grid

You can use the **Grid** component to insert a table in your dashboard.

The following component options are available.

General Options	Description
Name	Optional component name
Container	<p><b>Hide header:</b> Hides the header incl. the title of the component and the content are resized. Click the icon again to display the header.</p> <p><b>Hide border:</b> Hides the outline of the component container. Click the icon again to display the outline.</p>
Auto Refresh	Set the automatic data retrieval for the component
Visibility	Selects the tabs, where the component is displayed. The icon indicates that the component is displayed on several tabs.

Specific grid options	Description
Configuration	<p>Enables you to edit the Grid component interactively. Click the <b>Configuration</b> icon. In the edit mode the Grid component is displayed with a blue frame.</p> <p>You can set the initial widths and the initial sort order of the columns. You can change the sort order by clicking on the column header. To adapt the column width you can drag the column borders with the mouse. If required, you can change the defined column width and column sort order in the dashboard view mode (Seite 119).</p>
Auto column width	Adapts the column width to the column content automatically. The horizontal scroll bar is no longer displayed in the component.

### 3.8.3.6.7 Circular gauge chart

A circular gauge chart displays a set of aggregated KPI values. The value ranges are arranged in a semicircle with a red pointer that indicates the actual value of the KPI.

The following component options are available.

General Options	Description
Name	Optional component name
More options	Displays additional options
Container	<p><b>Hide header:</b> Hides the header incl. the title of the component and the content will be resized. Click the icon again to display the header.</p> <p><b>Hide border:</b> Hides the outline of the component container. Click the icon again to display the outline.</p>
Container style	Selects the style type of the container. The container styles available in the drop-down menu are part of the style template selected for the current dashboard. By default, the <b>Default</b> widget style is preselected.
Style	Selects the style type of the component. The component styles available in the drop-down menu are part of the style template selected for the current dashboard. By default, the <b>Default</b> widget style is preselected.
Auto refresh	Sets the automatic data retrieval of the component
Visibility	Selects the tabs, where the component is displayed. The icon indicates that the component is displayed on several tabs. See Display components on several dashboard views (page 160) for details.
Specific circular gauge chart options	Description
Scale	Displays a scale in the chart.
Scale value	Displays the scale values in the chart.
KPI name	Displays the KPI name in the chart.
KPI value	Displays the KPI value in the chart.
Threshold	Displays the threshold in the chart.
Threshold value	Displays the threshold value in the chart.
Level meter	Displays a level meter in the chart.
Percentage	Displays a scale from 0 to 100% in the chart. The KPI value is also displayed in percent.

### 3.8.3.6.8 Horizontal and vertical gauge chart

A gauge chart displays a set of aggregated KPI values. The value ranges are arranged in a horizontal or vertical bar with a pointer that indicates the actual value of the KPI.

The following component options are available.

General Options	Description
Name	Optional component name
More options	Displays additional options
Container	<p><b>Hide header:</b> Hides the header incl. the title of the component and the content will be resized. Click the icon again to display the header.</p> <p><b>Hide border:</b> Hides the outline of the component container. Click the icon again to display the outline.</p>
Container style	Selects the style type of the container. The container styles available in the drop-down menu are part of the style template selected for the current dashboard. By default, the <b>Default</b> widget style is preselected.
Style	Selects the style type of the component. The component styles available in the drop-down menu are part of the style template selected for the current dashboard. By default, the <b>Default</b> widget style is preselected.
Auto refresh	Sets the automatic data retrieval of the component
Visibility	Selects the tabs, where the component is displayed. The icon indicates that the component is displayed on several tabs. See Display components on several dashboard views (page 160) for details.
Specific gauge chart options	Description
Scale	Displays a scale in the chart.
Scale value	Displays the scale values in the chart.
KPI name	Displays the KPI name in the chart.
KPI value	Displays the KPI value in the chart.
Threshold	Displays the threshold in the chart.
Threshold value	Displays the threshold value in the chart.
Level meter	Displays a level meter in the chart.
Percentage	Displays a scale from 0 to 100% in the chart. The KPI value is also displayed in percent.
Scale size	Selects the scale size of the gauge chart. Default is <b>Medium</b> .

### 3.8.3.6.9 Traffic lights

The following component options are available.

General Options	Description
Name	Optional component name
More options	Displays additional options
Container	<p><b>Hide header:</b> Hides the header incl. the title of the component and the content will be resized. Click the icon again to display the header.</p> <p><b>Hide border:</b> Hides the outline of the component container. Click the icon again to display the outline.</p>
Container style	Selects the style type of the container. The container styles available in the drop-down menu are part of the style template selected for the current dashboard. By default, the <b>Default</b> widget style is preselected.
Style	Selects the style type of the component. The component styles available in the drop-down menu are part of the style template selected for the current dashboard. By default, the <b>Default</b> widget style is preselected.
Auto refresh	Sets the automatic data retrieval of the component
Visibility	Selects the tabs, where the component is displayed. The icon indicates that the component is displayed on several tabs. See Display components on several dashboard views (page 160) for details.
Specific traffic light options	Description
Type	Traffic light type. Available are <b>Vertical</b> , <b>Horizontal</b> and <b>Single</b> .

### 3.8.3.6.10 Drop-down box

The drop-down box provides you with a selection of values in a drop-down menu for filtering other dashboard components.






The following component options are available.

General Options	Description
Name	Optional component name
More options	Displays additional options
Container	<p><b>Hide header:</b> Hides the header incl. the title of the component and the content will be resized. Click the icon again to display the header.</p> <p><b>Hide border:</b> Hides the outline of the component container. Click the icon again to display the outline.</p>
Container style	Selects the style type of the container. The container styles available in the drop-down menu are part of the style template selected for the current dashboard. By default, the <b>Default</b> widget style is preselected.
Style	Selects the style type of the component. The component styles available in the drop-down menu are part of the style template selected for the current dashboard. By default, the <b>Default</b> widget style is preselected.
Auto refresh	Sets the automatic data retrieval of the component
Visibility	Selects the tabs, where the component is displayed. The icon indicates that the component is displayed on several tabs. See Display components on several dashboard views (page 160) for details.
Specific drop-down box options	Description
No selection	Adds the <b>No selection</b> value to the value list as first entry. Initially the first entry of the value list is preselected in the drop-down box for filtering. Selecting the <b>No selection</b> value has no effect on filtering other components.
No selection label	Alternative text for the default text <b>No selection</b> . The text is displayed in the drop-down box.



### 3.8.3.6.11 Input field

The input field enables you to enter values manually for filtering other dashboard components. The following component options are available.

General Options	Description
Name	Optional component name
More options	Displays additional options
Container	<p><b>Hide header:</b> Hides the header incl. the title of the component and the content will be resized. Click the icon again to display the header.</p> <p><b>Hide border:</b> Hides the outline of the component container. Click the icon again to display the outline.</p>
Container style	Selects the style type of the container. The container styles available in the drop-down menu are part of the style template selected for the current dashboard. By default, the <b>Default</b> widget style is preselected.
Style	Selects the style type of the component. The component styles available in the drop-down menu are part of the style template selected for the current dashboard. By default, the <b>Default</b> widget style is preselected.
Auto refresh	Sets the automatic data retrieval of the component
Visibility	Selects the tabs, where the component is displayed. The  icon indicates that the component is displayed on several tabs. See Display components on several dashboard views (page 160) for details.
Specific input field options	Description
Data type	<p>Data type of the user input. The user can only insert values of the selected data type.</p> <p> <b>Text</b></p> <p> <b>Number</b></p> <p> <b>Date</b></p> <p>If the input field data type is set to <b>DATE</b> a  calendar icon is shown in the input field to open a date picker.</p>
Date format	<p><b>Format</b> of the user input. The user can only insert values with the selected format.</p> <p>The option is only available for <b>Date</b> data type.</p>
Prompt text	Displays a prompt text in the input field.
Initial value	<p>Initial value will displayed in the input field and used as default preset value.</p> <p>Optional</p>

General Options	Description
current date/time	Uses the current date as default preset value. The component always uses the current date and time of the dashboard at runtime. The option is only available for <b>Date</b> data type. The value displayed depends on the format selected.
Submit button text	Alternative text for the <b>Submit button text</b> . The text is displayed in the input field instead of the default text <b>Ok</b> .
Show submit button	Displays the submit button in the input field.
Submit value with each keystroke	Submits immediately the entered values with each keystroke. For <b>Date</b> and <b>Number</b> the input field will only submit valid date or number values.

### 3.8.3.6.12 Image

The **Image** component supports the file format PNG, GIF and JPEG. The image file can be picked up from a web source or a local folder.

General Options	Description
Name	Optional component name
Container	<b>Hide header:</b> Hides the header incl. the title of the component and the content are resized. Click the icon again to display the header. <b>Hide border:</b> Hides the outline of the component container. Click the icon again to display the outline.
Visibility	Selects the tabs, where the component is displayed. The icon indicates that the component is displayed on several tabs. See Display components on several dashboard views (page 160) for details.

Specific image options	Description
Source URL	URL of the image source. The URL can refer to an internet source (http) or a locally hosted resource uploaded to the ARIS Connect repository.
Image sizing	<b>Original:</b> displays the image in the original size. <b>Scaled:</b> displays the image fitted to the component frame size. <b>Aspect ratio:</b> keeps the aspect ratio of the image.
Horizontal alignment	Aligns the image within the component frame.
Vertical alignment	Aligns the image within the component frame.

### 3.8.3.6.13 Label

A label displays a fixed text you have entered, or a text that is supplied dynamically by a datasource.

The following component options are available.

General Options	Description
Name	Optional component name
More options	Displays additional options
Container	<p><b>Hide header:</b> Hides the header incl. the title of the component and the content will be resized. Click the icon again to display the header.</p> <p><b>Hide border:</b> Hides the outline of the component container. Click the icon again to display the outline.</p>
Container style	Selects the style type of the container. The container styles available in the drop-down menu are part of the style template selected for the current dashboard. By default, the <b>Default</b> widget style is preselected.
Style	Selects the style type of the component. The component styles available in the drop-down menu are part of the style template selected for the current dashboard. By default, the <b>Default</b> widget style is preselected.
Auto refresh	Sets the automatic data retrieval of the component
Visibility	Selects the tabs, where the component is displayed. The icon indicates that the component is displayed on several tabs. See Display components on several dashboard views (page 160) for details.

Specific label options	Description
Style	Style for your displayed text in the drop-down menu.
Alignment	Alignment of the inserted text. Default is left aligned.

### 3.8.3.6.14 Function flow diagram



The **function flow diagram** enables you to analyze the sequence of activities within your business processes. Using the function flow diagram you are able to clearly display and evaluate the process structure and the relationship between the activities.

A function flow diagram begins with a start function that is indicated by a green symbol and has only outgoing connections (except self loops). The end function has only incoming connections (except self loops) and is indicated by a red symbol. All other functions have white symbols and have at least one incoming and one outgoing connection.

The weight of a connection is defined by its relevance value.

The following component options are available.

General Options	Description
Name	Optional component name
Container	<b>Hide header:</b> Hides the header incl. the title of the component and the content are resized. Click the icon again to display the header. <b>Hide border:</b> Hides the outline of the component container. Click the icon again to display the outline.
Auto refresh	Set the automatic data retrieval for the component

Specific function flow diagram options	Description
Edit widget	<p>Activates the interactive mode. The interactive mode () enables you:</p> <ul style="list-style-type: none"> <li>- to resize the diagram via mouse wheel. The diagram can be zoomed in or out related to the mouse pointer position.</li> <li>- to move the entire diagram or the individual function symbols using drag and drop. To move the complete graph, please click an empty space within the widget and hold down the mouse button. Now the graph can be moved until you release the mouse button.</li> <li>- to select an connection value. You can select a value in the widget settings menu if you have set at least one <b>Additional connection values</b> in the <b>Assign data (2/2)</b> dialog. See Assign data sources (page 138).</li> <li>- to enable the magnifier. Click the  <b>Settings</b> icon and select <b>Enable magnifier</b>. The magnifier is enabled by default.</li> <li>- to modify the relevance slider view and the relevance slider value. The slider value is not saved in dashboard configuration.</li> </ul>
Layout	<b>Reset initial:</b> Restores the initial diagram layout
Zoom	<b>Reset:</b> Restores the initial diagram size
Relevance slider	Enables the relevance slider in the dashboard view and edit mode.
Connection labels	<p>Displays the connection values in the diagram. The connection values defined in the data assignment (page 138) can be displayed or hidden beside the connections. By default, the <b>Relevance values</b> are displayed on the connections. If an <b>Additional connection value</b> is defined this one is displayed as connection value instead. If more than one additional connection value is defined a drop-down menu in the settings menu is provided where you can select the values that should be displayed on the connections. By default, the first additional connection value is displayed.</p>
Connection weight	Displays the connection weight in the diagram. The connection weight is indicated by the connection thickness.

### 3.8.3.6.15 Link to PPM widget

The **Link to PPM** widget displays a customizable text which can be used to jump to PPM. An optional favorite can be configured to jump directly to this favorite when switching to PPM.

The following component options are available.

General Options	Description
Name	Optional component name
More options	Displays additional options
Container	Hide/Show header: Hides the header incl. the title of the component and the content will be resized. Click the icon again to display the header. Hidden header is default. Hide/Show border: Hides the outline of the component container. Click the icon again to display the outline. Hidden border is default.
Container style	Selects the style type of the component container. The container styles available in the drop-down menu are part of the style template selected for the current dashboard. The <b>Default</b> component style is preselected initially.
Style	Selects the style type of the component.

Specific Link to PPM widget options	Description
PPM Connections	Alias of the PPM Connection, which contains the PPM client connection data defined in ARIS Connect.
Favorite	Path of a PPM favorite. The favorite path represents the favorites tree including favorites folder and name, e.g., \Favorites\Process cycle time
Extract from URL	Automatically determines the connection data of the PPM data source, e.g., alias, favorite path, and favorite type, click <b>Extract from URL</b> and insert the favorite URL created in PPM.
Favorite type	Favorite type specifies the favorite as <b>Private</b> or <b>Shared</b> .

## SAML AUTHENTICATION

If a user starts PPM using the Jump to PPM component he is automatically authenticated against the PPM system via single sign-on (SSO), provided SSO is configured correctly for PPM and ARIS Connect. The current logon language of the user is used for PPM if it is available in PPM. Otherwise, the default language of PPM is used.

There are several different ways the PPM client is opened:

- PPM applet always opens in a new tab.
- PPM web start opens a new client window (if no favorite jump client window is open).
- PPM web start reuses an open client window (if favorite client window is open and languages match).
- PPM web start opens a new and closes open client window (if favorite client window is open and the languages do not match).

### 3.8.3.7 Operators

The dashboard and data feed editor provide a wide range of data source and data transformation operators for creating dashboards and data feed definitions.

- Data source operators (page 207)
- Data transformation operators (page 222)

#### 3.8.3.7.1 Data source operators

A data source operator enables you to specify the connection to a data source and to configure the data retrieval.

The following data source operators are available in the dashboard and data feed editor.



##### 3.8.3.7.1.1 ARIS Table

Extracts data from an ARIS Table.

In ARIS Architect, you can export a model of the **Table** type and generate a link to the export file in the form of an URL. Detailed information on how to create an ARIS Table is available in the ARIS Architect online help. See also **Generate dashboard link** in the ARIS Architect online help.

In ARIS Architect, you can run scheduled reports to create dashboards and to generate the relevant data sources. Each report output file is automatically stored in ARIS document storage. These documents are used as data sources for the corresponding default data feeds provided in ARIS Connect. In these data feeds, **ARIS Table** is set as data source operator. See also How to make default dashboards visible (page 189) for further details.

The following parameters are available.

Parameters	Description
Source	ARIS export file in XML format Size limit: Unlimited (100,000 rows); URL: HTTP address for the source file If another operator dynamically supplies the URL, the URL cannot be edited here.
Insert parameter (  )	Inserts user defined input parameters at cursor position. The button is only clickable if at least one user input parameter, e.g., <b>Text user input</b> , has already been inserted in the feed definition.
Parameter options (  )	Enables you to set input parameter options
Refresh rate ( )	Specifies the time until the source file is read in again. Default value is 30 sec.
Authentication	Specifies a HTTP basic access authentication or an existing authentication defined in the administration.



Parameters	Description
	User name and password are required for accessing the source file.
HTTP headers	Adds HTTP headers to the URL
Parameters: Detect	Reads out potential parameters of the data source automatically. A requested parameters list is displayed, based on the specified ARIS Table source. You can enter the required parameter values to read in the data source.
Configure columns	Configures the columns list. Unselect a column for excluding it from the result data. Entering a <b>New name</b> for a column will cause that to be used instead of the original column name in the result. Clicking <b>Reset columns</b> will reload the column list from the data source and undo all changes in the list.

### 3.8.3.7.1.2 PPM

Uses the Process Performance Manager (PPM) query interface to retrieve data from favorites defined in PPM.

For every PPM system which should be used in ARIS Connect, a PPM connection has to be created beforehand.

The relevant PPM client server must be running. See the PPM documentation **PPM Installation** for details.

In PPM, you can use the pop-up menu of a favorite to copy the corresponding favorite URL. Click **Use in dashboard** in the pop-up menu of a favorite. See the PPM online documentation for details.

If you have updated ARIS Connect 10.0 Service Release 1 to version 10.0 Service Release 2 you need to recreate the PPM connections that have been defined for ARIS Connect 10.0 Service Release 1. Delete the PPM connection (page 107) at first and add a new PPM connection (page 105) with the same data.

The following parameters are available.


Parameters	Description
PPM Connection	Alias of the PPM Connection, which contains the PPM client connection data defined in ARIS Connect. See Configure PPM server (page 105) for details.
Refresh rate ( )	Specifies the time until the source file is read in again. Default value is 30 sec.
Favorite	Path of a PPM favorite. The favorite path represents the favorites tree including favorites folder and name, e.g., \Favorites\Process cycle time
Extract from URL	Automatically determines the connection data of the PPM data source, e.g., alias, favorite path, language and favorite type, click <b>Extract from URL</b> and insert the favorite URL created in PPM.

Parameters	Description
Authentication	Specifies the credentials for authenticating the query at the PPM client server. <b>Single Sign-On:</b> Enables you to log in to PPM client server via single sign-on (SSO), by using your current credentials. <b>HTTP basic auth:</b> Requires the user name and the password of a PPM user. The returned data is filtered based on the PPM user access rights. In particular, the PPM user needs to have access rights for the selected favorite.
Advanced options	Specifies further connection parameters. <b>Favorite type</b> specifies the favorite as <b>Private</b> or <b>Shared</b> . <b>Language</b> of the favorite, e.g., en for English <b>Request key columns separately:</b> Extracts all key values from the list table and writes them to separate columns of the data feed.
Configure columns	Configures the columns list. Unselect a column for excluding it from the result data. Entering a new name for a column will cause that to be used instead of the original column name in the result. Clicking <b>Reset columns</b> will reload the column list from the data source and undo all changes in the list.
Filters: Detect	Reloads the dimensions and measures information from PPM
Add filter	Adds one or more filter criteria to filter the values of the PPM query. See Add filter (page 209) for details.

### 3.8.3.7.1.2.1 Add filter

You can add one or more filter criteria to filter the values of the PPM query.

#### Procedure

1. Click **Add filter**.
2. Select a **Dimension** or **Measure** provided by PPM, e.g., date or process throughput time, and click **Add**. The selected criterion is added to the PPM operator.
3. Select an operator for the condition of the filter criterion in the drop-down menu, e.g., is equal to.
4. Enter a constant filter value in the input field or insert an input parameter by clicking the  **Insert input parameter** icon. The button is only clickable if there is at least one input parameter with the same data type.
5. Click the **Set filter properties icon** and specify the criterion parameters.

When specifying parameters, such as filter criterion and filter values, please observe the predefined syntax of the PPM query interface (query API). See example below. For detailed information on the PPM query interface, please refer to the PPM documentation **PPM Query interface**.

**Filter using an expression** uses criterion expressions for filtering. Available for criterions of text data type.


**Key** uses the criterion key as filter value.

**Description** uses the criterion description as filter value.

**Set filter level** allows the selection of the level you want to filter. Available for two level and multi level dimensions.

Example: The two level dimension **Dealer** with the levels **Region** and **City** allows to filter the data according to Region or City.

**Scaling**. Available for criterions of date data type and for some number criterions (KPI value for example % or numeric).

6. Click the  **Add condition** icon to add further filter conditions.
7. Click **Next** to leave the dialog.

Your settings are applied.

### Example

The character combination of space + ( in the filter value (e.g., ABC (123)) can lead to different results, depending on the filter criterion.

If you filter for "SOLDTO\_NAME=ABC (123)", PPM searches for the customer with the name = "ABC" and the description = "123".


If you filter for "SOLDTO\_NAME(VAL)=ABC (123)", PPM searches for the customer name "ABC (123)" and does not take the description into account.


If you filter for "SOLDTO\_NAME(DESC)=ABC (123)", PPM searches for the customer whose description is "ABC (123)" and does not take the name into account.

### 3.8.3.7.1.3 CSV

Reads the CSV file and writes the individual values (character strings) to table columns in the data feed based on the specified parameters. A change of column is identified by the specified separator between the individual values.

The following parameters are available.

Parameters	Description
Source	<p>Text file, with values consistently separated using the same separators.</p> <ul style="list-style-type: none"> <li>▪ <b>URL:</b> HTTP address of the source file If another operator dynamically supplies the URL, the URL cannot be edited here. Example <code>http://myhost.company:1080/documents/rest/links/03388871-367d-4abe-a2c9-37bc9fa44580?tenantid=default&amp;revision=1</code></li> <li>▪ <b>URL alias:</b> loads file from a resource directory. Files must be located in a defined resource directory on the server. The data source files are located in a folder or a sub-folder of the ARIS document storage accessible in the ARIS Connect Repository. If you have updated ARIS Connect 10.0 Service Release 1 to version 10.0 Service Release 2 you need to recreate the URL alias that have been defined for ARIS Connect 10.0 Service Release 1. Delete the URL alias (page 105) at first and add a new URL alias (page 103) with the same data. <b>Path prefix (alias):</b> Alias of the resource directory with the path to a directory on the server. Select an alias of the local resource directory, e.g., Feed URL. <ul style="list-style-type: none"> <li>▪ <b>Feed URL</b> is the alias for the resource directory of the default data feeds provided in ARIS Connect.</li> </ul> Enter a path into the input box to the relevant data source file for the Path prefix (alias) selected. Example <code>/documents/rest/links/03388871-367d-4abe-a2c9-37bc9fa44580?tenantid=default&amp;revision=1</code> </li> </ul> <p>To configure a <b>Path prefix (alias)</b> see Configure Dashboard server (page 103) for details. To store data source files in a resource directory see Upload file based data sources (page 171) for details. To copy the source file URL see Upload file based data sources (page 171) for details.</p>
Insert parameter (  )	Inserts user defined input parameters at cursor position. The button is

Parameters	Description
	only clickable if at least one user input parameter, e.g., <b>Text user input</b> , has already been inserted in the feed definition.
Parameter options (  )	Enables you to set input parameter options
Refresh rate ( )	Specifies the time until the source file is read in again. Default value is 30 sec.
Authentication	Specifies a HTTP basic access authentication or an existing authentication defined in the administration. User name and password are required for accessing the source file.
HTTP headers	Adds HTTP headers to the URL
Separator	Separates the column values in the CSV file. Available are comma (,), semicolon (;), space, tab and pipe ( ), default is comma.
Get column names from row	Specifies a specific row that contains the column names. Activate the <b>Get column names from row</b> option and enter the number of the relevant row.
Data from row	Specifies a specific row from that the data source values extraction starts.
Advanced parsing options	<p><b>Charset:</b> Character set in which the source file is coded. The default value can be changed manually if the extracted data refers to a different coding type. Default: windows-1252.</p> <p><b>Masking:</b> Protects the enclosed characters against being split at the separator. If column values contain the specified separator, they can be enclosed in a pair of masking characters, e.g., "1,23". Masking characters can be set as required (available masking characters: single-quote ('), double-quote ("), none).</p> <p><b>Remove quote characters in column value:</b> Removes the characters used for masking from the result data. If this option is deactivated the masking characters will remain as part of the result data.</p> <p><b>Sanitize names:</b> Transforms column names such that they can be used as XML names, in the same way as EMMML treats them. This affects names containing spaces or other special characters. If this option is deactivated the names are kept as is.</p> <p><b>Trim whitespace:</b> Removes all leading and trailing whitespace from column values. If this option is deactivated any whitespace are part of the result data.</p> <p><b>EMML parsing:</b> Parses values in the same way as they are parsed in EMMML. This affects parsing of numeric and date values. It affects whether a specific value is understood as a date or numeric value,</p>

Parameters	Description
	because different sets of date patterns and locales are used. If this option is deactivated dates without an explicit time zone are assigned to the server's default time zone, while when this option is activated, they are assigned GMT.
Configure columns	Configures the columns list. Unselect a column for excluding it from the result data. Entering a <b>New name</b> for a column will cause that to be used instead of the original column name in the result. Clicking <b>Reset columns</b> will reload the column list from the data source and undo all changes in the list.

If you use an absolute URL, e.g.,

**http://myhost.company:1080/documents/rest/links/03388871-367d-4abe-a2c9-37bc9fa44580**, an authentication has to be set. All requests to the uploaded file are made with the specified user/password combination.

If you use a relative URL, e.g.,

**/documents/rest/links/03388871-367d-4abe-a2c9-37bc9fa44580**, an authentication is not required. All requests to the uploaded file are made with the current logged in user.

### 3.8.3.7.1.4 Excel

Reads a worksheet of an MS Excel file and writes the individual values to table columns in the data feed based on the specified parameters. The source table can be imported as a list or cross table. As a list table, a corresponding column is created in the data feed for every non-empty column in the source table.



Three columns are created in the data feed as a cross table. A vertical iteration column corresponding to the first source column with the header, a horizontal iteration column defined in the operator, and a value column.

Cells that have the Number data type in MS Excel are extracted accurately, regardless of their formatting. Therefore, the values in can be more accurate than displayed in MS Excel. By contrast, cells that have the Date data type in Excel are extracted based on the format information to maintain the accuracy of the time stamp.

A cell may only have up to 2000 characters.

The following parameters are available.

Parameters	Description
Source	<p>MS Excel file (xls,xlsx)</p> <ul style="list-style-type: none"> <li> <b>URL:</b> HTTP address of the source file            If another operator dynamically supplies the URL, the URL cannot be edited here.            Example            http://<b>myhost.company</b>:1080/documents/rest/links/03388871-367d-4abe-a2c9-37bc9fa44580?tenantid=default&amp;revision=1         </li> <li> <b>URL alias:</b> loads file from a resource directory. Files must be located in a defined resource directory on the server. The data source files are located in a folder or a sub-folder of the ARIS document storage accessible in the ARIS Connect Repository.            If you have updated ARIS Connect 10.0 Service Release 1 to version 10.0 Service Release 2 you need to recreate the URL alias that have been defined for ARIS Connect 10.0 Service Release 1. Delete the URL alias (page 105) at first and add a new URL alias (page 103) with the same data.  <b>Path prefix (alias):</b> Alias of the resource directory with the path to a directory on the server. Select an alias of the local resource directory, e.g., Feed URL.           <ul style="list-style-type: none"> <li> <b>Feed URL</b> is the alias for the resource directory of the default data feeds provided in ARIS Connect.           </li> </ul>           Enter a path into the input box to the relevant data source file for the Path prefix (alias) selected.            Example         </li> </ul>

Parameters	Description
	<p>/documents/rest/links/03388871-367d-4abe-a2c9-37bc9fa44580?tenantid=default&amp;revision=1</p> <p>To configure a <b>Path prefix (alias)</b> see Configure Dashboard server (page 103) for details.</p> <p>To store data source files in a resource directory see Upload file based data sources (page 171) for details.</p> <p>To copy the source file URL see Upload file based data sources (page 171) for details.</p>
Insert parameter (  )	Inserts user defined input parameters at cursor position. The button is only clickable if at least one user input parameter, e.g., <b>Text user input</b> , has already been inserted in the feed definition.
Parameter options (  )	Enables you to set input parameter options
Refresh rate ( )	Specifies the time until the source file is read in again. Default value is 30 sec.
Sheet	<p>Sheet in the source table to be extracted.</p> <p>Default value: First sheet</p> <p>Specification: Mandatory</p>
List table / Cross table	<p>Specifies the table type.</p> <p>Default value: List table</p> <p>Specification: Mandatory</p> <p>For cross tables, only one vertical iteration on the left side of the table is currently supported.</p>
Separator	Separates the column values in the CSV file. Available are comma (,), semicolon (;), space, tab and pipe ( ), default is comma.
Column name from row	<p>Determines the names of the individual columns from a specific row, whose row number must be specified.</p> <p>Blank cells in the row with the column name are named <b>Unnamed column</b> + the consecutive number of the unnamed columns, if the affected columns contain further data.</p> <p>This option is not available for cross tables.</p>
Horizontal iteration from row	Determines the column names of the individual iteration steps from a specific row. The column name of the vertical iteration is also determined from this row.
Import values from row	<p>Extracts all values from the source file starting from a specific row.</p> <p>Default value: 2</p> <p>Specification: Mandatory</p>



Parameters	Description
Import data range from / to	<p>Area of the table from which data is to be extracted, specified using column and row coordinates, e.g., A3 to H128</p> <p>Specification: Optional</p> <p>Only a single continuous data range is possible, but it may contain empty rows or columns.</p> <p>If no upper limit (to) is specified for the data range, all cells above the lower limit (from) are extracted.</p>
Configure columns	<p>Configures the columns list. Unselect a column for excluding it from the result data. Entering a <b>New name</b> for a column will cause that to be used instead of the original column name in the result. Clicking <b>Reset columns</b> will reload the column list from the data source and undo all changes in the list.</p>

If you use an absolute URL, e.g.,

**http://myhost.company:1080/documents/rest/links/03388871-367d-4abe-a2c9-37bc9fa44580**, an authentication has to be set. All requests to the uploaded file are made with the specified user/password combination.


If you use a relative URL, e.g.,

**/documents/rest/links/03388871-367d-4abe-a2c9-37bc9fa44580**, an authentication is not required. All requests to the uploaded file are made with the current logged in user.

### 3.8.3.7.1.5 JSON

Extracts data from a JSON file.

The following parameters are available.

Parameters	Description
Source	<p>JSON file</p> <ul style="list-style-type: none"> <li>▪ <b>URL:</b> HTTP address of the source file If another operator dynamically supplies the URL, the URL cannot be edited here. Example <code>http://myhost.company:1080/documents/rest/links/03388871-367d-4abe-a2c9-37bc9fa44580?tenantid=default&amp;revision=1</code></li> <li>▪ <b>URL alias:</b> loads file from a resource directory. Files must be located in a defined resource directory on the server. The data source files are located in a folder or a sub-folder of the ARIS document storage accessible in the ARIS Connect Repository. If you have updated ARIS Connect 10.0 Service Release 1 to version 10.0 Service Release 2 you need to recreate the URL alias that have been defined for ARIS Connect 10.0 Service Release 1. Delete the URL alias (page 105) at first and add a new URL alias (page 103) with the same data. <b>Path prefix (alias):</b> Alias of the resource directory with the path to a directory on the server. Select an alias of the local resource directory, e.g., Feed URL. <ul style="list-style-type: none"> <li>▪ <b>Feed URL</b> is the alias for the resource directory of the default data feeds provided in ARIS Connect. Enter a path into the input box to the relevant data source file for the Path prefix (alias) selected. Example <code>/documents/rest/links/03388871-367d-4abe-a2c9-37bc9fa44580?tenantid=default&amp;revision=1</code></li> </ul> </li> </ul> <p>To configure a <b>Path prefix (alias)</b> see Configure Dashboard server (page 103) for details.</p> <p>To store data source files in a resource directory see Upload file based data sources (page 171) for details.</p> <p>To copy the source file URL see Upload file based data sources (page 171) for details.</p>
Insert parameter (  )	<p>Inserts user defined input parameters at cursor position. The button is only clickable if at least one user input parameter, e.g., <b>Text user input</b>, has already been inserted in the feed definition.</p>

Parameters	Description
Parameter options ( )	Enables you to set input parameter options
Refresh rate ( )	Specifies the time until the source file is read in again. Default value is 30 sec.
Authentication	Specifies a HTTP basic access authentication or an existing authentication defined in the administration. User name and password are required for accessing the source file.
HTTP headers	Adds HTTP headers to the URL
Repeating object: Detect	<p>Reads out the repeating object automatically. A repeating object already set by a user will not be considered. Depending on the repeating object, the detected columns are displayed in the <b>Columns</b> box.</p> <p>JSON object that is repeated for each row; You can edit the repeating object manually.</p> <p>Specify a valid XQuery 3.1 lookup expression, e.g.,  <code>?catalog?journal?articles?*</code>  <code>?data?rows?*</code>  <code>?catalog?books?*</code></p> <p>Conceptually, a JSON document is loaded as a nested structure of maps and arrays. The above expressions use the (terse form of the) map/array lookup syntax as follows:</p> <ul style="list-style-type: none"> <li>- the initial '?' is a unary lookup operator that selects a named member of the root map</li> <li>- further '?' are postfix lookup operators</li> <li>- '?*' selects all members of an array</li> </ul> <p>'?5' would select the fifth element of an array.</p> <p>More details of the lookup syntax can be found at <a href="https://www.w3.org/TR/xquery-31/#id-lookup">https://www.w3.org/TR/xquery-31/#id-lookup</a></p>
Advanced parsing options	<p><b>Charset:</b> Character set in which the source file is coded. This can be set manually if the extracted data refers to a different coding type.</p> <p>By default, the HTTP response encoding is used if available, otherwise UTF-8 is assumed.</p> <p><b>EMML parsing:</b> Parses values in the same way as they are parsed in EMML. This affects parsing of numeric and date values. It affects whether a specific value is understood as a date or numeric value, because different sets of date patterns and locales are used. If this option is deactivated dates without an explicit time zone are assigned to the server's default time zone, while when this option is deactivated, they are assigned GMT.</p>

Parameters	Description
Columns: Detect	Reads out the columns of the data source automatically. The requested columns list are displayed, based on the specified repeating object.
Configure columns	Configures the columns list. Unselect a column for excluding it from the result data. Entering a <b>New name</b> for a column will cause that to be used instead of the original column name in the result. Clicking <b>Reset columns</b> will reload the column list from the data source and undo all changes in the list.

If you use an absolute URL, e.g.,

**http://myhost.company:1080/documents/rest/links/03388871-367d-4abe-a2c9-37bc9fa44580**, an authentication has to be set. All requests to the uploaded file are made with the specified user/password combination.



If you use a relative URL, e.g.,

**/documents/rest/links/03388871-367d-4abe-a2c9-37bc9fa44580**, an authentication is not required. All requests to the uploaded file are made with the current logged in user.

### 3.8.3.7.1.6 XML

Extracts data from an XML file. The data records are identified using a recurring element. The individual values are written to table columns in the data feed based on the specified parameters. The following parameters are available.

Parameters	Description
Source	<p>XML file or EMMML-Mashups</p> <ul style="list-style-type: none"> <li> <b>URL:</b> HTTP address of the source file            If another operator dynamically supplies the URL, the URL cannot be edited here.            Example            http://<b>myhost.company</b>:1080/documents/rest/links/03388871-367d-4abe-a2c9-37bc9fa44580?tenantid=default&amp;revision=1         </li> <li> <b>URL alias:</b> loads file from a resource directory. Files must be located in a defined resource directory on the server. The data source files are located in a folder or a sub-folder of the ARIS document storage accessible in the ARIS Connect Repository.            If you have updated ARIS Connect 10.0 Service Release 1 to version 10.0 Service Release 2 you need to recreate the URL alias that have been defined for ARIS Connect 10.0 Service Release 1. Delete the URL alias (page 105) at first and add a new URL alias (page 103) with the same data.  <b>Path prefix (alias):</b> Alias of the resource directory with the path         </li> </ul>

Parameters	Description
	<p>to a directory on the server. Select an alias of the local resource directory, e.g., Feed URL.</p> <ul style="list-style-type: none"> <li>▪ <b>Feed URL</b> is the alias for the resource directory of the default data feeds provided in ARIS Connect.</li> </ul> <p>Enter a path into the input box to the relevant data source file for the Path prefix (alias) selected.</p> <p>Example</p> <pre>/documents/rest/links/03388871-367d-4abe-a2c9-37bc9fa44580?tenantid=default&amp;revision=1</pre> <p>To configure a <b>Path prefix (alias)</b> see Configure Dashboard server (page 103) for details.</p> <p>To store data source files in a resource directory see Upload file based data sources (page 171) for details.</p> <p>To copy the source file URL see Upload file based data sources (page 171) for details.</p>
Insert parameter (  )	<p>Inserts user defined input parameters at cursor position. The button is only clickable if at least one user input parameter, e.g., <b>Text user input</b>, has already been inserted in the feed definition.</p>
Parameter options (  )	<p>Enables you to set input parameter options</p>
Refresh rate ( )	<p>Specifies the time until the source file is read in again. Default value is 30 sec.</p>
Authentication	<p>Specifies a HTTP basic access authentication or an existing authentication defined in the administration.</p> <p>User name and password are required for accessing the source file.</p>
HTTP headers	<p>Adds HTTP headers to the URL</p>
Repeating element: Detect	<p>Reads out the repeating element automatically. A repeating element already set by a user will not be considered. The repeating element is displayed corresponding to the hierarchy of the xml elements, e.g., &lt;element&gt;/&lt;repeating element&gt;. Depending on the repeating element, the requested columns are displayed in the <b>Columns</b> box.</p> <p>XML element that is repeated for each row (XPath to repeat element); You can edit the repeating element manually.</p> <p>Specify a valid XPath expression, e.g.,</p> <pre>/catalog/journal/article</pre> <pre>/data/row</pre> <pre>/catalog/book</pre>
Advanced parsing options	<p><b>EMML parsing:</b> EMML compatibility mode. If selected, the XML Data</p>

Parameters	Description
	source determines data types analogous to EMMML, and parse data the way EMMML does. Default is unselected.
Columns: Detect	Reads out the columns of the data source automatically. The requested columns list is displayed, based on the specified repeating element.
Configure columns	Configures the columns list. Unselect a column for excluding it from the result data. Entering a <b>New name</b> for a column will cause that to be used instead of the original column name in the result. Clicking <b>Reset columns</b> will reload the column list from the data source and undo all changes in the list.

If you use an absolute URL, e.g.,

**http://myhost.company:1080/documents/rest/links/03388871-367d-4abe-a2c9-37bc9fa44580**, an authentication has to be set. All requests to the uploaded file are made with the specified user/password combination.

If you use a relative URL, e.g.,



**/documents/rest/links/03388871-367d-4abe-a2c9-37bc9fa44580**, an authentication is not required. All requests to the uploaded file are made with the current logged in user.

### 3.8.3.7.1.7 Data feed

Extracts data from an existing data feed.

To include a data feed as data source in a dashboard or in other data feeds, the **View** permission for the data feed selected is required. See Manage data feed permissions (page 170) for detail.

The following parameters are available.

Parameters	Description
Data feed	Data feed selected. <b>Select data feed</b> displays a list of available data feeds.
Edit data feed	Opens the selected data feed in a new tab.
Insert parameter (  )	Inserts user defined input parameters at cursor position. The button is only clickable if at least one user input parameter, e.g., <b>Text user input</b> , has already been inserted in the feed definition.
Parameter options (  )	Enables you to set input parameter options
Configure columns	Configures the columns list. Unselect a column for excluding it from the result data. Entering a <b>New name</b> for a column will cause that to be used instead of the original column name in the result. Clicking <b>Reset columns</b> will reload the column list from the data source and undo all changes in the list.

### 3.8.3.7.2 Data transformation operators

In addition to the data source operators you can add further operators to transform the source data. The following data transformation operators are available in the feed editor.

- Aggregate (Seite 223)
- Arithmetic (Seite 226)
- Average (Seite 228)
- Change data type (Seite 229)
- Change data type - single value (page 235)
- Column to value (page 241)
- Combine data feeds (page 242)
- Concatenate data feeds (page 244)
- Concatenate texts (page 244)
- Conditional replace (Seite 245)
- Convert text (page 247)
- Copy data feeds (page 248)
- Copy single value (page 248)
- Date user input (page 249)
- Delete column (Seite 250)
- Duplicate column (Seite 251)
- Extract text (Seite 252)
- Filter by date (Seite 253)
- Filter rows (Seite 254)
- Find text index (Seite 256)
- Goal accomplishment (Seite 257)
- Insert column (Seite 259)
- Merge single texts (page 260)
- Move date (Seite 261)
- Number user input (page 263)
- Replace text (Seite 265)
- Rename column (Seite 264)
- Round up/down (Seite 266)
- Round up/down date (Seite 267)
- Runtime info (page 270)
- Text user input (page 271)
- Value to column (page 272)

### 3.8.3.7.2.1 Aggregate

#### 3.8.3.7.2.1.1 Behavior

Combines rows if identical values occur multiple times in specified dimension columns. The numerical values in the remaining columns are combined using Average, Sum, Minimum, Maximum, or Number.

One or more numerical columns in a table are aggregated using no, one, or several dimension columns. In all rows with identical values in all dimension columns, the values in the columns to be aggregated are combined into one row based on an aggregation rule. That is, the result contains one row for each combination of dimension columns. This also applies if no columns are specified for aggregation. If no dimension column is specified, only a single row is created and all values in the columns to be aggregated are combined into a single value for each column. No rows are created for combinations that do not occur in the original table.

#### 3.8.3.7.2.1.2 Parameters

The following parameters are available.

Action	Result
Dimension column	Name of dimension column. Source: Source table Data type: Date, Number, or Text Default value: {None} Specification: Optional
Aggregation column	Name of the column to be aggregated. Source: Aggregation column is transferred from the source table. Data type: Number Default value: {None} Specification: Optional
Aggregation type	Aggregation type for the column to be aggregated: Average value, Sum, Minimum, Maximum, Count, First row and Last row. Default value: Average value, if aggregation column selected. Specification: Mandatory, if aggregation column selected.
Weighting	If the aggregation type is Average value or Sum, a numerical column for weighting of the rows can be specified for each column to be aggregated. Specification: Optional



### 3.8.3.7.2.1.3 Aggregation type

The following aggregation operations can be applied to the columns to be aggregated.

Data type	Comparison operators
Minimum	Finds all rows that have a specific combination of values in the dimension columns and returns the lowest value that occurs in these rows in the column to be aggregated.
Maximum	Finds all rows that have a specific combination of values in the dimension columns and returns the highest value that occurs in these rows in the column to be aggregated.
Average value	Finds all rows that have a specific combination of values in the dimension columns and returns the average of the values in the column to be aggregated. For weighting purposes, an additional column can be specified for each source column, containing a weighting factor for each row. The weighting information is combined as a pair with the source column.
Sum	Finds all rows that have a specific combination of values in the dimension columns and returns the sum of the values in the column to be aggregated. For weighting, an additional column can be specified for each source column, containing a weighting factor for each row. The weighting information is combined as a pair with the source column.
Count	Finds all rows that have a specific combination of values in the dimension columns and returns the count of values in the column to be aggregated.
First row	Finds all rows that have a specific combination of values in the dimension columns and returns the value of the row with the lowest row index (according to the index column).
Last row	Finds all rows that have a specific combination of values in the dimension columns and returns the value of the row with the highest row index (according to the index column).

At least one dimension or aggregation column, or both, must be set.

If no aggregation columns or dimension columns are specified, the incoming table remains unchanged.

### 3.8.3.7.2.1.4 Examples

The following table is to be aggregated based on the **Dim 1** and **Dim 2** columns. The sum is to be calculated for the Values 1 column and the average for the Values 2 column. The Weight (values 2) column is used for weighting the Values 2 column one row at a time.

Dim 1	Dim 2	Values 1	Values 2	Weight (values 2)
A	X	1	2	3
B	Y	2	4	4
C	Z	5	6	3
A	X	7	8	4
B	Y	9	10	3
C	Z	11	12	4

#### Result

Dim 1	Dim 2	Sum (values 1)	Average (values 2)
A	X	8 (1+7)	5,43 (2*3 + 8*4)/(3+4)
B	Y	12 (3+9)	6,57 (4*4 + 10*3)/(4+3)
C	Z	16 (5+11)	9,43 (6*3 + 12*4)/(3+4)

## 3.8.3.7.2.2 Arithmetic

### 3.8.3.7.2.2.1 Behavior

Executes various arithmetical calculations. The operator sets any number of numerical operands against each other. The values are set against each other one row at a time according to the specified calculation type. The calculation always runs from top to bottom. In other words, two operands are always set against each other one row at a time and the result from the first two operands is then set against the third operand.

Compounding can be mapped by using a separate operator for each expression in brackets.

### 3.8.3.7.2.2.2 Parameters

The following parameters are available.

Action	Result
Operands	<p>One numerical operand per operation for the "Square" and "Square root" calculation types, otherwise two numerical operands.</p> <p>Source: Source table, constants, user input or incoming values from other operators.</p> <p>Data type: Number</p> <p>Specification: Mandatory</p>
<b>Calculation type</b>	
Addition (+)	Adds two columns row by row
Subtraction (-)	Subtracts 2 columns row by row
Division (/)	Divides the first column by the second column
Multiplication (*)	Multiplies two columns row by row
Percent (%)	Row by row, multiplies the second column with the percent value of the first column
Square (x <sup>2</sup> )	Calculates the square of a column
Root	Calculates the square root of a column
Sine (sin)	Calculates for a column the sine value of an angle in degrees
Cosine (cos)	Calculates for a column the cosine value of an angle in degrees
Tangent (tan)	Calculates for a column the tangent value of an angle in degrees
Arcsine (asin)	Calculates for a column the arcsine of an angle in degrees
Arccosine (acos)	Calculates for a column the arccosine of an angle in degrees
Arctangent (atan)	Calculates for a column the arctangent of an angle in degrees

Action	Result
Logarithm (lg)	Calculates for a column the common logarithm
Logarithm (ln)	Calculates for a column the natural logarithm
Power (exp)	Calculates for a column S1 the S2nd power of S1 (S1 to the power of S2)
Minimum (min)	Calculates the minimum of column 1 and column 2
Maximum (max)	Calculates the maximum of column 1 and column 2
Absolute value (abs)	Calculates for a column the absolute value Default value: Addition (+) Specification: Mandatory You need to specify the source values for the trigonometric functions sin, cos, tan, asin, acos, and atan in degrees.

### 3.8.3.7.2.2.3 Example

Example: Result = Column 1 + Column 2 - Column 3

Column 1	Column 2	Column 3	Result
1000	2000	50	2950
2000	3000	1000	4000
3000	4000	1200	5800

### 3.8.3.7.2.3 Average

#### 3.8.3.7.2.3.1 Behavior

Calculates the average of the values from several numerical source columns one row at a time, writes the result to a target column, and overwrites any existing values there. If the target column does not exist, it is created.

#### 3.8.3.7.2.3.2 Parameters

The following parameters are available.

Parameter	Description
Column	Name of the column for which the average value is calculated. Column is transferred from the source table. Data type: Number Specification: Mandatory
Weight	Weight factor, which can be specified for each column to be aggregated: a column with values, a single value from a feed (single-value operator), an input value or a constant. Data type: Number Specification: Optional
Target column	Name of the column to which the result is written. The column name can be transferred from the source table or freely entered. Data type: Number Default value: Result_1 Specification: Mandatory

## 3.8.3.7.2.4 Change data type

### 3.8.3.7.2.4.1 Behavior

Changes the data types of the specified columns to the **Number**, **Text**, or **Date** data types

Action	Result
Conversion of <b>Text</b> to <b>Number</b>	Numerical value of the text taking into account the decimal separator. If the decimal separator is set correctly, any thousands separator is detected automatically.
Conversion of <b>Number</b> to <b>Text</b>	Text representation of the number in the internal format, or based on the language and the specified format. You can also specify a valid number of leading zeros. If nothing is specified here, the results are formatted in the numerical format.
Conversion of <b>Text</b> to <b>Date</b>	Date value of the text in the internal format, based on the specified format and, where applicable, the language. The date must be in the AD era. Date values before the common era are not supported. The time format must be specified. The time format is made up of sequences of characters, which stand for date fields, e.g., year, month, day of the week, or minute, in the relevant language; separated by separators. In addition, the corresponding language must be specified. Non-editable text must be enclosed in quotation marks. When using the <b>Q</b> or <b>q</b> symbol for quarters, all other symbols except <b>Y</b> and <b>y</b> for years are ignored. Only the order of <b>Q/q</b> and <b>Y/y</b> is relevant.
Conversion of <b>Date</b> to <b>Text</b>	Text representation of the date in the internal format, or based on the language and the specified format Non-editable text must be enclosed in quotation marks. The format and language specifications are optional. If no format is specified, the data is output in the internal date format. If no language is specified, English (EN) is applied as the default language.
Conversion of <b>Number</b> to <b>Date</b>	Date value corresponding to the value of the number as milliseconds since 01/01/1970
Conversion of <b>Date</b> to <b>Number</b>	Number of milliseconds since 01/01/1970

#### Internal number format

If a user is logged in in English, the number format is Anglo-Saxon, which uses a period as the decimal separator, but no grouping characters.

**Internal date format**

Use yyyy-Q for specifying to the nearest quarter, otherwise use yyyy-MM-ddThh:mm:ss. The number of digits corresponds to the accuracy of the date, and the remaining digits are omitted. This is the transfer format.

**Quarterly specifications**

Quarterly specifications are indicated by a **Q** within the section of the format that is not in single quotation marks.

Prerequisites for conversion of text into quarterly date values:

1. It is expected that a source value containing a quarterly date consists of just two sequences of figures indicating the year and the quarter. Any non-numerical characters can occur before, after and between them, e.g., Quarter 04/2009.
2. The pattern uses **Y** or **y** as the symbol for the year and **Q** or **q** for the quarter, e.g., quarter Q/y or Q Y.

Procedure:

1. The (first) two sequences of digits are determined from the source value.
2. The section of the format that is not enclosed in between single quotation marks is used to determine whether **q / Q** or **y / Y** appears first.
3. If q or Q appears first, the first sequence of digits is interpreted as the quarter and the second as the year, and vice-versa.

### 3.8.3.7.2.4.2 Parameters

The following parameters are available.

Parameter	Description
Column	Name of the column to be changed; Source: Source table Data type: Date, Number, or Text Specification: Mandatory
New type	New column data type Default value: Text Specification: Mandatory
Format (Date type)	Time format for conversion from <b>Date</b> type to <b>Text</b> type and vice versa. The following formatting symbols are available when converting date into text: Year: y or Y Quarter: Q Month: M Calendar week: w Day of the week: E or e Day of the month: d Day of the year: D Hour: H or h Minute: m Second: s AM/PM: a Time zone: z (e.g., GMT) RFC time zone: Z (e.g., -0900) Era: G (must always be AD) Default value: MM/dd/yyyy The following formatting symbols are available when converting text to date: Year: y Quarter: Q Calendar week: w Week of the month: W Day of the week: E Day of the month: d



Parameter	Description
	<p>Day of the year: D</p> <p>Hour (0-23): H</p> <p>Hour (1-24): k</p> <p>Hour AM/PM (0-11): K</p> <p>Hour AM/PM (1-12): h</p> <p>Minute: m</p> <p>Second: s</p> <p>AM/PM: a</p> <p>Time zone: z</p> <p>RFC time zone: Z</p> <p>Era: G</p> <p>Default value: yyyy-MM-dd'T'HH:mm:ss;</p> <p>Permitted separators in both cases:</p> <p>Dash/minus (-), underscore (_), slash (/), period (.), colon (:), comma (,), tab character, and space.</p> <p>Specification: Mandatory</p>
Language	<p>Language if the target format is of the <b>Date</b> type.</p> <p>Available languages: de and en.</p> <p>Specification: Mandatory when using names of months and names of days of the week</p>
Decimal separator	<p>Separator for the decimal places, if the target format is of the <b>Number</b> type.</p> <p>Default value: Comma (,)</p> <p>Specification: Mandatory</p>
Format ( <b>Number</b> source format)	<p>Number format for the conversion of the <b>Number</b> type to the <b>Text</b> type.</p> <p>You can select predefined formats or set your own format manually.</p> <p>If the numbers before the decimal separator are entered manually, they must have four digits in ascending order followed by digits in descending order. This combination can be followed by text (such as the unit "hours" or km/h).</p> <p>Default value: 1234</p> <p>Permitted separators:</p> <p>Thousands separator in German: period (.)</p> <p>Thousands separator in English: comma (,)</p> <p>Decimal separator in German: comma (,)</p> <p>Decimal separator in English: period (.)</p>

Parameter	Description
Leading zeros	<p>Number of leading zeros. The maximum number of leading zeros is the number of digits before the decimal separator.</p> <p>Example:</p> <p>Format: 1,234.12 and leading zeros: 5</p> <p>Number -&gt; Text</p> <p>10,245 -&gt; 00010,25</p> <p>12000,4 -&gt; 12000,4</p> <p>89,7 -&gt; 00089,70</p>
Specify type	<p>Automatically specifies the data type of the source values.</p> <p>If the content of a column does not correspond to its assigned data type, a row is created in the operator which specifies the data type determined for this column. Vice-versa, settings (lines) are removed from the operator, which would reset the data type of a column already typified correctly.</p>
Encoding ( <b>Text</b> source format)	<p>Specifies the encoding of special characters, for the conversion of the <b>Text</b> type to the <b>Text</b> type, e.g., "/", "&amp;", "?".</p> <p>Apply UTF-8 encoding: encodes the entire text, using UTF-8 codes</p> <p>Decode UTF-8: decodes the entire text, using UTF-8 codes</p> <p>Apply URL encoding: keeps the URL specific characters</p> <p>For UTF-8 encoding/decoding the special characters must be masked in a valid URL. Only select this option if you are sure that all sections that make up the URL are already masked.</p>

The characters used for the time format can be combined in any order and repeated any number of times.

#### Exceptions:

- For a month, the number of characters must be  $\geq 3$  (MMM or MMMM) if the month is specified in text format (JAN, FEB, etc.) and  $< 3$  if it is specified as a figure. In this case, a language must also be specified so that the name of the month can be transformed correctly.
- For a year format, such as 2009, y can be specified any number of times, i.e., yy and yyyy return 2009.
- For a year format, such as 09, however, yyyy returns the year 9 and yy the year 2009.
- When formatting date values as days of the week for a date-to-text conversion, an e/E number  $< 4$  returns the day abbreviations (MON, TUE, etc.), while e/E = or  $> 4$  returns the full name of the day.
- Only the month (M), minute (m), time zone (z), RFC time zone (Z) and calendar week (w) are case-sensitive.
- When converting text to date, if the Q or q symbol is used for quarters, all other symbols except Y and y are ignored. Only the order of Q/q and Y/y is key.

- For the reverse conversion from date to text, the Q/q can be combined with any other symbols, but may only occur once (not QQ/yy)
- Quarter entries are currently only possible in the form YYYY-Q. These strings may only consist of the year, separator, and quarter.
- All other strings must be enclosed in single quotation marks ('). Spaces can be inside or outside, e.g., 'On' dd.MM.yy 'at' hh:mm, or 'On 'dd.MM.yy' at 'hh:mm' '.
- The space pattern in the source and target format must match, e.g., "2 .3 .09" -> "d .M .y" but not "2. 3. 09" -> "d .M .y".

### 3.8.3.7.2.4.3 Examples

Source format: "22.3.2009"

Time format: "d.M.y" or "DDDD.MM.YYYY",

but not "DD.MMM.YYYY "

Source format: "03/22/09 30:24 PM"

Time format: "MM/DD/YY hh:mm a" or "M/d/y HH:mm A"

but not "M/d/y HH:MM A" or "m/d/y HH:mm A"

Source format: "Time: 2009-FEBRUARY-01T22:33:44"

Time format: "Time: 'y-MMM-d'T'h:m:s" or "'Time:' y-MMMMM-d'T'h:m:s",

but not "'Time: 'y-MM-d'T'h:m:s"

Source format: "3. quarter 2009"

Time format: "QY" or "Q'. quarter' y or "QQ/yyyy";

but not "YQ"

## 3.8.3.7.2.5 Change data type - single value

### 3.8.3.7.2.5.1 Behavior

Changes the data type of the incoming single value to the **Number**, **Text**, or **Date** data types.

Action	Result
Conversion of <b>Text</b> to <b>Number</b>	<p>Numerical value of the text taking into account the decimal separator.</p> <p>If the decimal separator is set correctly, any thousands separator is detected automatically.</p>
Conversion of <b>Number</b> to <b>Text</b>	<p>Text representation of the number in the internal format, or based on the language and the specified format. You can also specify a valid number of leading zeros.</p> <p>If nothing is specified here, the results are formatted in the numerical format.</p>
Conversion of <b>Text</b> to <b>Date</b>	<p>Date value of the text in the internal format, based on the specified format and, where applicable, the language.</p> <p>The date must be in the AD era. Date values before the common era are not supported. The time format must be specified. The time format is made up of sequences of characters, which stand for date fields, e.g., year, month, day of the week, or minute, in the relevant language; separated by separators. In addition, the corresponding language must be specified. Non-editable text must be enclosed in quotation marks.</p> <p>When using the <b>Q</b> or <b>q</b> symbol for quarters, all other symbols except <b>Y</b> and <b>y</b> for years are ignored. Only the order of <b>Q/q</b> and <b>Y/y</b> is relevant.</p>
Conversion of <b>Date</b> to <b>Text</b>	<p>Text representation of the date in the internal format, or based on the language and the specified format</p> <p>Non-editable text must be enclosed in quotation marks.</p> <p>The format and language specifications are optional. If no format is specified, the data is output in the internal date format. If no language is specified, English (EN) is applied as the default language.</p>
Conversion of <b>Number</b> to <b>Date</b>	Date value corresponding to the value of the number as milliseconds since 01/01/1970
Conversion of <b>Date</b> to <b>Number</b>	Number of milliseconds since 01/01/1970

**Internal number format**

If the user is logged in in English, the number format is Anglo-Saxon style with a period as the decimal separator and at least one decimal place, but without grouping characters.

**Internal date format**

yyyy-Q for specifying to the nearest quarter, otherwise yyyy-MM-ddThh:mm:ss. The number of digits corresponds to the accuracy of the date, and the remaining digits are omitted. This is the transfer format.

Quarterly specifications

These are indicated by a **Q** within the section of the format that is not in single quotation marks.

Prerequisites for conversion of text into quarterly date values:

1. It is expected that a source value containing a quarterly date consists of just two sequences of figures indicating the year and the quarter. Any non-numerical characters can occur before, after and between them, e.g., Quarter 04/2009.
2. The pattern uses **Y** or **y** as the symbol for the year and **Q** or **q** for the quarter, e.g., quarter Q/y or Q Y.

Procedure:

1. The (first) two sequences of digits are determined from the source value.
2. The section of the format that is not enclosed between single quotation marks is used to determine whether **q / Q** or **y / Y** appears first.
3. If q or Q appears first, the first sequence of digits is interpreted as the quarter and the second as the year, otherwise the reverse.

**3.8.3.7.2.5.2 Parameters**

The following parameters are available.

Parameter	Description
Single value	Source: Single-value operator Data type: Date, Number, or Text Specification: Mandatory
New type	New single-value data type Default value: Text Specification: Mandatory

Parameter	Description
Format (Date type)	<p>Time format for conversion from <b>Date</b> type to <b>Text</b> type and vice versa.</p> <p>The following formatting symbols are available when converting date into text:</p> <p>Year: y or Y  Quarter: Q  Month: M  Calendar week: w  Day of the week: E or e  Day of the month: d  Day of the year: D  Hour: H or h  Minute: m  Second: s  AM/PM: a  Time zone: z (e.g., GMT)  RFC time zone: Z (e.g., -0900)  Era: G (must always be AD)  Default value: MM/dd/yyyy</p> <p>The following formatting symbols are available when converting text to date:</p> <p>Year: y  Quarter: Q  Calendar week: w  Week of the month: W  Day of the week: E  Day of the month: d  Day of the year: D  Hour (0-23): H  Hour (1-24): k  Hour AM/PM (0-11): K  Hour AM/PM (1-12): h  Minute: m  Second: s  AM/PM: a  Time zone: z  RFC time zone: Z  Era: G</p>
	<p>Default value: yyyy-MM-dd'T'HH:mm:ss;</p> <p>Permitted separators in both cases:</p>

Parameter	Description
Language	<p>Language if the target format is of the <b>Date</b> type.</p> <p>Available languages: de and en.</p> <p>Specification: Mandatory when using names of months and names of days of the week</p>
Decimal separator	<p>Separator for the decimal places, if the target format is of the <b>Number</b> type.</p> <p>Default value: Comma (,)</p> <p>Specification: Mandatory</p>
Format ( <b>Number</b> source format)	<p>Number format for the conversion of the Number type to the Text type.</p> <p>You can select predefined formats or set your own format manually.</p> <p>With manual entry, the numbers before the decimal separator must have four digits ascending and then descending, e.g., 1,234.321. After this, you can add text (such as the unit "hours" or km/h).</p> <p>Default value: 1234</p> <p>Permitted separators:</p> <p>Thousands separator in German: period (.)</p> <p>Thousands separator in English: comma (,)</p> <p>Decimal separator in German: comma (,)</p> <p>Decimal separator in English: period (.)</p>
Leading zeros	<p>Number of leading zeros. The maximum number of leading zeros is the number of digits before the decimal separator.</p> <p>Example:</p> <p>Format: 1,234.12 and leading zeros: 5</p> <p>Number -&gt; Text</p> <p>10,245 -&gt; 00010,25</p> <p>12000,4 -&gt; 12000,4</p> <p>89,7 -&gt; 00089,70</p>

Parameter	Description
Specify type	<p>Automatically specifies the data type of the source values.</p> <p>If the content of a column does not correspond to its assigned data type, a row is created in the operator which specifies the data type determined for this column Vice-versa, settings (lines) are removed from the operator, which would reset the data type of a column already typified correctly.</p>
Encoding ( <b>Text</b> source format)	<p>Specifies the encoding of special characters, for the conversion of the <b>Text</b> type to the <b>Text</b> type, e.g., "/", "&amp;", "?".</p> <p>Apply UTF-8 encoding: encodes the entire text, using UTF-8 codes</p> <p>Decode UTF-8: decodes the entire text, using UTF-8 codes</p> <p>Apply URL encoding: keeps the URL specific characters</p> <p>For UTF-8 encoding/decoding the special characters must be masked in a valid URL. Only select this option if you are sure that all sections that make up the URL are already masked.</p>

The characters in the time format can be combined in any order and repeated any number of times.

Exceptions:

For a month, the number of characters must be  $\geq 3$  (MMM or MMMM) if the month is specified in text format (JAN, FEB, etc.) and  $< 3$  if it is specified as a figure. In this case, a language must also be specified so that the name of the month can be transformed correctly.

For a year format such as 2009, y can be specified any number of times, i.e., yy and yyyy return 2009.

For a year format such as 09, however, yyyy returns the year 9 and yy the year 2009.

When formatting date values as days of the week for a date to text conversion, an e/E number  $< 4$  returns the day abbreviations (MON, TUE, etc.), while e/E = or  $> 4$  returns the full name of the day.

Only the month (M), minute (m), time zone (z), RFC time zone (Z) and calendar week (w) are case-sensitive.

When converting text to date, if the Q or q symbol is used for quarters all other symbols except Y and y are ignored. Only the order of Q/q and Y/y is decisive then.

For the reverse conversion from date to text, the Q/q can be combined with any other symbols, but may only occur once (not QQ/yy)

Quarter entries are currently only possible in the form YYYY-Q. These strings may only consist of the year, separator, and quarter.



All other strings must be enclosed in single quotation marks ('). Spaces can be inside or outside, e.g., 'On' dd.MM.yy 'at' hh:mm, or 'On 'dd.MM.yy' at 'hh:mm' '.

The space pattern in the source and target format must match, e.g., "2 .3 .09" -> "d .M .y" but not "2. 3. 09" -> "d .M .y".

### **3.8.3.7.2.5.3 Examples**

Source format: "22.3.2009"

Time format: "d.M.y" or "DDDD.MM.YYYY",

but not "DD.MMM.YYYY "

Source format: "03/22/09 30:24 PM"

Time format: "MM/DD/YY hh:mm a" or "M/d/y HH:mm A"

but not "M/d/y HH:MM A" or "m/d/y HH:mm A"

Source format: "Time: 2009-FEBRUARY-01T22:33:44"

Time format: "Time: 'y-MMM-d'T'h:m:s" or "'Time:' y-MMMMM-d'T'h:m:s",

but not "'Time: 'y-MM-d'T'h:m:s"

Source format: "3. quarter 2009"

Time format: "QY" or "Q'. quarter' y or "QQ/yyyy";

but not "YQ"

## 3.8.3.7.2.6 Column to value

### 3.8.3.7.2.6.1 Behavior

Takes a single value from a data feed column. If the column contains multiple values, the first value found is returned.

Determines the first value found from a column in the source table and returns this as a single value.

### 3.8.3.7.2.6.2 Parameters

The following parameters are available.

Parameter	Description
Source column	Name of the column whose values are filtered. Source: Source table Data type: Number, Text, Date; Specification: Mandatory

## 3.8.3.7.2.7 Combine data feeds

### 3.8.3.7.2.7.1 Behavior

Merges two data feeds by comparing the values in key columns one row at a time. The key columns for the left and right table are defined in pairs. Several pairs of key columns can be specified. Both key columns must have the same data type.

One table is defined as the main table, to which all columns from the second table are added except for its key columns. The main table is linked to the upper left anchor point.

### 3.8.3.7.2.7.2 Parameters

The following parameters are available.

Parameter	Description
Left/right column	Name of the left or right key column. Source: Source tables Data type: Text, Date or Number For <b>Text</b> data type, the <b>Case sensitive</b> and <b>Ignore spaces</b> options are additionally available.
<b>Options</b>	
Include key values of left data feed	Always transfers all key values from the left data feed (main data feed), regardless of whether there are matching rows in the right data feed. Rows with matching key values are merged. Rows in the right data feed whose key values do not occur in the left table are omitted. This option is selected by default.
Include identical key values of both data feeds	Transfers only the rows whose key values match in the two data feeds, and which therefore can be merged.
Include key values of both data feeds	Always transfers the key values from both data feeds, even if their key values do not occur in the other data feed. Rows with matching key values are merged.
Allow multiple values	Allows multiple occurrences of rows with identical key values in the right table. This can lead to a large number of result rows, as all

Parameter	Description
	combinations of the rows with identical key values are transferred to the results. This option is unselected by default.

The key columns have the name they had in the left table.

Since the individual table columns are identified by name when being imported you need to ensure that the columns of the table area to be imported have unique names.

If other columns with identical names occur in both feeds, other than the key columns, `_L` or `_R` is appended to the names of these columns.

### 3.8.3.7.2.8 Concatenate data feeds

#### 3.8.3.7.2.8.1 Behavior

Adds the rows from the right-hand table after the final row of the left-hand table and merges columns of the same name and type.

For every row in the main table, a check is made as to whether there is a row in the right table that has the same values in all key column pairs. These rows are then combined into one row.

#### 3.8.3.7.2.8.2 Parameters

The following parameters are available.

Parameter	Description
Left/right data feeds	Two data feeds to be combined. Specification: Mandatory

### 3.8.3.7.2.9 Concatenate texts

#### 3.8.3.7.2.9.1 Behavior

Combines the values of the specified columns or text fragments into one text.

Appends the values from the source columns or the source values to one another one row at a time, writes the results to the target column, and overwrites any existing values there. If the target column does not exist, it is created.

#### 3.8.3.7.2.9.2 Parameters

The following parameters are available.

Parameter	Description
Text	Value to be linked. Source: Source table, single-value operator, input value, or a constant. Data type: Number, Text, Date; Specification: Optional
Target column	Name of the column to which the linked text is written. Source: Source table or constant. Data type: Text Default value: Result_1 Specification: Optional

### 3.8.3.7.2.10 Conditional replace

#### 3.8.3.7.2.10.1 Behavior

Changes the value in the specified column one row at a time if certain conditions are met. Replaces existing values in the column with new values. Replacement must be linked to a condition, i.e., you can specify whether all or at least one condition must be met. Several conditions can be specified and these are linked to each other with "AND".

#### 3.8.3.7.2.10.2 Parameters

The following parameters are available.

Action	Result
Column	Name of the column whose values are replaced. Source: Source table Data type: Number, Text, Date; Specification: Mandatory
New value	Value that replaces the value in the source column. Source: Column with values, single value from a feed (single-value operator), user input, or a constant. Default value: is equal to Specification: Mandatory
Replace	Values are replaced if one or all conditions is/are met.
Source column	Name of the column whose values are compared. Source: Source table Data type: Number, Text, Date; Specification: Mandatory
Comparison operator	Operator that compares the values from the source column with the comparison values. Available comparison operators depend on the data type of the source column. Default value: is equal to Specification: Mandatory
Comparison values	Values that are compared with the values from the source column. Source: Column with values, single value from a feed (single-value operator), user input, or a constant. Data type: Must be identical to that of the source column. Comparison value missing

Action	Result
	<p>Condition met: If a comparison value is missing, the condition is assumed to be met.</p> <p>Condition not met: If a comparison value is missing, the condition is assumed to not be met.</p> <p>Specification: Mandatory</p>

### 3.8.3.7.2.10.3 Comparison operators

The following comparison operators are available.

Data type	Comparison operators
Number	<ul style="list-style-type: none"> <li>Is equal to</li> <li>Is not equal to</li> <li>Is less than</li> <li>Is less than or equal to</li> <li>Is greater than</li> <li>Is greater than or equal to</li> <li>Is empty</li> <li>Is not empty</li> </ul>
Text	<ul style="list-style-type: none"> <li>Is equal to</li> <li>Is not equal to</li> <li>Starts with</li> <li>Ends with</li> <li>Contains</li> <li>Does not contain</li> <li>Is empty</li> <li>Is not empty</li> </ul>
Date	<ul style="list-style-type: none"> <li>Before</li> <li>After</li> <li>In</li> <li>Before or on</li> <li>On or after</li> <li>Is empty</li> <li>Is not empty</li> </ul>

### 3.8.3.7.2.11 Convert text

#### 3.8.3.7.2.11.1 Behavior

Converts all characters in the source column one row at a time, based on the specified transformation rule. The transformation rule includes all rows in the selected source column.

#### 3.8.3.7.2.11.2 Parameters

The following parameters are available.

Parameter	Description
Column	Name of the column whose values are converted. Source: Source table Data type: Text Specification: Mandatory
Conversion	Transformation rule for conversion of column values: UPPER: Converts all characters into upper case, according to the rules of the specified language. LOWER: Converts all characters into lower case, according to the rules of the specified language. ONLY_LETTERS: Removes all figures (0-9) from the column values; ONLY_NUMBERS: Removes all letters from the column values. REMOVE_SPACES: Removes all spaces from the column values. REMOVE_LEADING_WHITESPACE: Removes leading whitespace from the column values. REMOVE_TRAILING_WHITESPACE: Removes trailing whitespace from the column values. Specification: Mandatory
Target column	Name of the column to which the conversation search result is written. This can be either a new column (typing a column name in the text field) or existing column (selecting a column from the drop-down menu). Data type: Text Default value: Result_1 Specification: Optional If the target column is identical to the source column, the values in the source column are overwritten.



### 3.8.3.7.2.12 Copy data feeds

#### 3.8.3.7.2.12.1 Behavior

Creates up to four independent copies of a data feed.

#### 3.8.3.7.2.12.2 Parameters

The following parameters are available.

Parameter	Description
Data feed	Data feed to be copied. Specification: Mandatory

### 3.8.3.7.2.13 Copy single value

#### 3.8.3.7.2.13.1 Behavior

Creates an independent copy of a single value, without changing the input value.

#### 3.8.3.7.2.13.2 Parameters

The following parameters are available.

Parameter	Description
Single value	Single value to be copied. Specification: Mandatory

## 3.8.3.7.2.14 Date user input

### 3.8.3.7.2.14.1 Behavior

Enables dynamic entry of date values in data feed processing. User input is an interface to a data feed, allowing a user to enter data manually in a dashboard. The input has the format yyyy-MM-dd'T'HH:mm:ss (up to the required accuracy) or yyyy-'Q'Q.

### 3.8.3.7.2.14.2 Parameters

The following parameters are available.

Parameter	Description
Name	Name of user input Source: Constant Data type: Text Specification: Optional The names of the individual user input must be unique within the feed definition.
Debug value	Value used for a test calculation in the Feed Editor. Source: Constant Data type: Date Specification: Optional
Preview value	The value is used if the user does not provide any input. Source: Constant Data type: Date Specification: Optional

### 3.8.3.7.2.15 Delete column

#### 3.8.3.7.2.15.1 Behavior

Deletes the specified columns from the data feed.

#### 3.8.3.7.2.15.2 Parameters

The following parameters are available.

Action	Result
Column	Name of the column to be deleted. Source: Source table Data type: Date, Number, or Text Specification: Mandatory

## 3.8.3.7.2.16 Duplicate column

### 3.8.3.7.2.16.1 Behavior

Copies the specified columns from the data feed to new or existing columns of the same type. It is possible to create multiple copies of a column, but the target columns must have different names.

If the target column does not exist, it is created. If it does exist, it is replaced. Regardless of their type, all columns can be duplicated.

### 3.8.3.7.2.16.2 Parameter

The following parameters are available.

Action	Result
Source column	Name of the column to be duplicated. Source: Source table Data type: Date, Number, or Text Specification: Mandatory
Target column	Name of the new or existing column. Source: Constant Data type: Corresponds to source column. Specification: Mandatory

### 3.8.3.7.2.17 Extract text

#### 3.8.3.7.2.17.1 Behavior

Creates an extract from each value in a text column starting from the specified position (start index), and with the specified length, and writes the result to a target column.

Searches the source column at the specified start index, using the specified length for the string, and displays it in the target column. Start index and length must be  $\geq 0$ , otherwise an empty entry appears in the target column.

#### 3.8.3.7.2.17.2 Parameters

The following parameters are available.

Parameter	Description
Column	Name of the column whose values are searched. Source: Source table Data type: Text Specification: Mandatory
Start index	Start position of the string to be extracted. Source: Source column, single-value operator, input value, or constant. Size $\geq 0$ ; Data type: Number Specification: Mandatory
Length	Number of characters in the string to be extracted. Source: Source column, single-value operator, user input, or constant. Number of characters $\geq 0$ Data type: Number Specification: Mandatory
Target column	Name of the column to which the search result is written. This can be either a new column (typing a column name in the text field) or existing column (selecting a column from the drop-down menu). Data type: Number Default value: Result_1 Specification: Mandatory

### 3.8.3.7.2.18 Filter by date

#### 3.8.3.7.2.18.1 Behavior

Searches a date column for the latest or earliest date and transfers these rows to the results table. All other rows are filtered out. The search can be limited to specific dimensions. If one or more dimensions are specified, the operator determines the feed row with the earliest or latest date within the feed rows with identical dimension values and transfers this to the result table. If there are several feed rows with the earliest or latest date, all of them are transferred to the results table.

#### 3.8.3.7.2.18.2 Parameters

The following parameters are available.

Parameter	Description
Source column	Name of the source column for which the earliest or latest date values are determined. Source: Source table Data type: Date Specification: Mandatory
Earliest/latest date	Determines the earliest or latest date values in the source column. Default value: Earliest date
Dimension column	Dimension for which the earliest or latest date values are determined. Acts as a filter to restrict the values determined. Data type: Text Specification: Mandatory Multiple dimension columns can be set.

### 3.8.3.7.2.19 Filter rows

#### 3.8.3.7.2.19.1 Behavior

Filters the data feed one row at a time using specific conditions.

Column values of the Number, Text, or Date type are either let passed or blocked. An appropriate filter criterion can be selected depending on the data type.

Action	Result
Action	<p>Executed if particular conditions are met.</p> <p>Possible actions:</p> <ul style="list-style-type: none"> <li>▪ Let values pass (from source table; activated by default)</li> <li>▪ Block values (from source table)</li> </ul> <p>if</p> <ul style="list-style-type: none"> <li>▪ Condition met (activated by default)</li> <li>▪ Condition not met</li> </ul> <p>All conditions should match. (Let values pass if all conditions are met. Activated by default)</p> <p>Specification: Mandatory</p>
Column	<p>Name of the column whose values are filtered.</p> <p>Source: Source table</p> <p>Data type: Number, Text, Date;</p> <p>Specification: Mandatory</p>
Comparison operator	<p>Operator that compares the values from the source column with the comparison values.</p> <p>Available comparison operators depend on the data type of the source column.</p> <p>Default value: is equal to</p> <p>Specification: Mandatory</p>
Comparison values	<p>Values that are compared with the values from the source column.</p> <p>Source: Source table, single-value operator, user input, or a constant</p> <p>Data type: Must be identical to that of the source column.</p> <p>Comparison value missing</p> <p>Condition met: If a comparison value is missing, the condition is assumed to be met.</p> <p>Condition not met: If a comparison value is missing, the condition is assumed to not be met.</p> <p>Specification: Mandatory</p>

### 3.8.3.7.2.19.2 Parameters

The following parameters are available.

Parameter	Description
Number	Is equal to Is not equal to Is less than Is less than or equal to Is greater than Is greater than or equal to Is empty Is not empty
Text	Is equal to Is not equal to Starts with Ends with Contains Does not contain Is empty Is not empty
Date	Before After In Before or on On or after Is empty Is not empty



## 3.8.3.7.2.20 Find text index

### 3.8.3.7.2.20.1 Behavior

Finds the specified search text in a search column and writes the position of the text found to a numerical target column.

If the search text is not found, the position is -1.

### 3.8.3.7.2.20.2 Parameters

The following parameters operators are available.

Parameter	Description
Column	Name of the column whose values are searched. Source: Source table Data type: Text Specification: Mandatory
Search text	String for which the search is performed. Source: Column values from source table, single value from a feed (single-value operator), input value, or a constant. Data type: Text Specification: Mandatory
Target column	Name of the column to which the search result is written. This can be either a new column (typing a column name in the text field) or existing column (selecting a column from the drop-down menu). Data type: Number Default value: Result_1 Specification: Mandatory
First/last hit	If multiple results are found, the first or last hit is taken as the search result.

## 3.8.3.7.2.21 Goal accomplishment

### 3.8.3.7.2.21.1 Behavior

Calculates the degree of goal accomplishment of column values one row at a time, based on the rating and the two planned values for 100% and 0%.

### 3.8.3.7.2.21.2 Parameters

The following parameters are available.

Parameter	Description
Calculation column value	Name of the column for which the goal accomplishment is calculated. Source: Source table Data type: Number Specification: Mandatory
Rating	Rating of the column values for which the goal accomplishment is calculated. Valid values: Positive or Negative Positive: Higher values are assessed as positive, e.g., sales revenue Negative: Higher values are assessed as negative, e.g., process throughput time. Data type: Text Default value: Positive: Specification: Mandatory
100% relates to	Target values that are compared with the source values. Source: Source table, single-value operator, input value, or a constant. Data type: Number Specification: Mandatory Goal accomplishment depends on the rating: Positive rating: Source values $\geq$ target values Negative rating: Source values $\leq$ target values
0% relates to	Target values that are compared with the source values. Source: Source table, single-value operator, input value, or a constant. Data type: Number Specification: Mandatory Goal accomplishment depends on the rating: Positive rating: Target values $\leq$ source values Negative rating: Target values $\geq$ source values

Parameter	Description
Target column	Name of the column to which the result is written. Source: Source table or constant. Default value: Result_1 Data type: Number Specification: Optional

## 3.8.3.7.2.22 Insert column

### 3.8.3.7.2.22.1 Behavior

Inserts new columns of the **Text**, **Number**, or **Date** data type into the data feed. Each of the columns can be populated with an initial value.

### 3.8.3.7.2.22.2 Parameter

The following parameters are available.

Action	Result
Column name	Name of the new column. Source: Constant Data type: Date, Number, or Text Specification: Mandatory
Type	New column data type; Date, Number, or Text. Default value: Text; Specification: Mandatory
Create numeric enumeration	Fills a new column with ascending values. The values start at 1 or the value entered in the Value input box and increase by a value of 1 in each subsequent row. Specification: Optional If the option is enabled the Value box is disabled and any (default) value already entered or selected is deleted. Incoming connections for dynamic values are ignored.
Value	Initial value of the new column. Source: User input, constant or source table Data type: Depends on the data type of the source column. Specification: Optional

## 3.8.3.7.2.23 Merge single texts

### 3.8.3.7.2.23.1 Behavior

Concatenates multiple text values.

By default, the number of characters in a text cell is limited to 2,000. This limitation applies to text cells that are part of a feed result (also of a partial result). The limitation does not apply to individual values during feed calculation.

### 3.8.3.7.2.23.2 Parameters

The following parameters are available.

Parameter	Description
Text	Any strings Source: User input, single-value operator, or constant Data type: Text Specification: Optional

#### Example

An SQL statement is assembled by the **Merge single texts** operator. As long as it is handled as an individual value, this value can exceed the 2,000 characters. As soon as it is used in a table, however, it is automatically shortened to 2,000 characters.

### 3.8.3.7.2.24 Move date

#### 3.8.3.7.2.24.1 Behavior

Moves a date by a specified amount of time in a given direction and writes the results to a target column.

A date can only be moved by an amount of time, the unit of which is the same as or less accurate than the unit of the date itself. If the format of the moving period is more accurate than the format of the source date, the source date is retained. If you move a date by quarters, it is moved by three months for every quarter.

If a date accurate to the nearest day with a number of days > 28 is moved to a month that has fewer days, the result is the last day of the target month.

#### Example

You can move a date accurate to the nearest month by months, quarters or years, but not by days. A date accurate to the nearest year can only be moved by years, a date accurate to the smallest unit by any unit.

#### 3.8.3.7.2.24.2 Parameter

The following parameters are available.

Action	Result
Source column	Name of the source column whose date values are moved. Source: Source table Data type: Date Specification: Mandatory
Direction	Direction in which the date is moved. Valid values: Forward or Backward Data type: Text Default value: Forward Specification: Mandatory
Value	Value by which the date is moved by the selected unit. Source: Manual entry, single value or source table Data type: Number Default value: 1 Specification: Optional
Unit	Unit of time by which the date is moved. Data type: Text Default value: Second

Action	Result
	<p>Specification: As source</p> <p>The information <b>As source</b> allows a move even if the unit of the date values is unknown at the time of creation or if it can vary.</p>
Target column	<p>Name of the target column to which the result is written.</p> <p>Data type: Date</p> <p>Default value: Result_1</p> <p>Specification: Optional</p> <p>The target column can be identical to the source column. The values in the target column are overwritten.</p>

### 3.8.3.7.2.24.3 Example

Source value	Value	Unit	Direction	Result
2009-12-24T16:23	10	YEAR	Forward	2019-12-24T16:23
2009-12-24	10	DAY	Forward	2010-01-03
2009-12-30	10	MONTH	Backward	2009-02-28
2009-11	1	QUARTER	Forward	2010-02
2009-11	1	DAY	Forward	2009-11
2009-01-01	3	As source	Forward	2011-01-04
2011-Q1	3	As source	Forward	2011-Q4

## 3.8.3.7.2.25 Number user input

### 3.8.3.7.2.25.1 Behavior

Enables dynamic entry of numerical values in data feed processing. User input is an interface to a data feed, allowing a user to enter data manually in a dashboard. The input is done with a period (.) as the decimal separator and with no thousand grouping character (e.g., 1234.56).

### 3.8.3.7.2.25.2 Parameters

The following parameters are available.

Parameter	Description
Name	Name of user input Source: Constant Data type: Text Specification: Optional The names of the individual user input must be unique within the feed definition.
Debug value	Value used for a test calculation in the Feed Editor. Source: Constant Data type: Number Specification: Optional
Preview value	The value is used if the user does not provide any input. Source: Constant Data type: Number Specification: Optional



## 3.8.3.7.2.26 Rename column

### 3.8.3.7.2.26.1 Behavior

Changes the names of the specified columns from the data feed. The data type of the column is retained.

### 3.8.3.7.2.26.2 Parameter

The following parameters are available.

Action	Result
Column	Name of the column to be deleted. Source: Source table Data type: Date, Number, or Text Specification: Mandatory
New name	New name of the renamed column. Source: Constant Data type: Corresponds to source column. Specification: Mandatory

## 3.8.3.7.2.27 Replace text

### 3.8.3.7.2.27.1 Behavior

Replaces text in a search column with the specified Find or Replace text one row at a time, or writes the text to a target column.

If the search text cannot be found, the search text itself is written to the target column.

### 3.8.3.7.2.27.2 Parameters

The following parameters are available.

Parameter	Description
Column	Name of the column whose values are searched. Source: Source table Data type: Text Specification: Mandatory
Search text	String for which the search is performed. Source: Column values from source table, single value from a feed (single-value operator), input value, or a constant. Data type: Text Specification: Mandatory
Replacement text	String that replaces the search text. Source: Source table, single-value operator, input value, or constant. Data type: Text Specification: Optional If no replacement text is specified, the search text found is replaced with a empty text.
Target column	Name of the column to which the search result is written. This can be either a new column (typing a column name in the text field) or existing column (selecting a column from the drop-down menu). Data type: Number Default value: Result_1 Specification: Mandatory
First/last hit	IF multiple results are found, the first, last, or all hits is/are replaced. The specification relates to occurrence within the individual rows of the search column and not to the sequence of rows, i.e., NOT "First row", "Last row" and "All rows".

## 3.8.3.7.2.28 Round up/down

### 3.8.3.7.2.28.1 Behavior

Rounds the values from a numerical source column to the specified number of decimal places (accuracy), writes the results to the target column, and overwrites any existing values there. If the target column does not exist, it is created.

If the accuracy itself is specified as a decimal number, the decimal places are ignored, i.e., the integer value is used. Values that already have the same number or fewer decimal places than specified remain unchanged.

When rounding, the value is rounded down if the next decimal place is < 5, otherwise it is rounded up.

### 3.8.3.7.2.28.2 Parameter

The following parameters are available.

Action	Result
Source column	Name of the source column whose values are rounded. Source: Source table Data type: Number Specification: Mandatory
Precision	Numerical value specifying the number of decimal places; Source: Source table, single-value operator, input value, or a constant. Data type: Number Specification: Mandatory
Target column	Name of the column to which the result is written. The column name can be transferred from the source table or freely entered. Data type: Number Default value: Result_1 Specification: Optional

## 3.8.3.7.2.29 Round up/down date

### 3.8.3.7.2.29.1 Behavior

Converts date values from a date column to a rougher time unit and writes the results to a target column.

### 3.8.3.7.2.29.2 Parameter

The following parameters are available.

Action	Result
Source column	<p>Name of the source column whose values are rounded.</p> <p>Source: Source table</p> <p>Data type: Date</p> <p>Specification: Mandatory</p>
Precision	<p>Accuracy of the new date format, defined by the unit: Year, Quarter, Month, Day, Hour, Minute, or Second, and Interval: Depending on the selected unit, e.g., 5 minutes or 1 year</p> <p>Data types: Numeric, Text</p> <p>Default values: 1, Minute</p> <p>If the accuracy of the source column is less accurate or the same as the target column format, the original value is retained.</p> <p>The date values are rounded according to the selected interval. Only the unit to be rounded is taken into account, e.g., when rounding to minutes, the seconds are ignored.</p> <p>Rounding type: Specifies how the selected time interval is to be rounded.</p> <p>Round up for half an interval: Automatically rounds up above an interval value higher than or equal to half of the interval value</p> <p>Round down for half an interval: Automatically rounds down below an interval value lower than or equal to half of the interval value</p> <p>Always round up: Always rounds up, regardless of the interval value</p> <p>Always round down: Always rounds down, regardless of the interval value</p>
Target column	<p>Name of the target column to which the converted date is written</p> <p>Data type: Date</p> <p>Default value: Result_1</p> <p>Specification: Optional</p> <p>The target column can be identical to the source column. The values in the target column are overwritten.</p> <p>If the target column is not of the Date type, it is replaced by a new date column.</p>

### 3.8.3.7.2.29.3 Examples

Source value	Accuracy	Result
2009-12-24T16:23	Day	2009-12-24
2009-12-24T16:23	Hour	2009-12-24T16
2009-12-24	Month	2009-12
2009-12-24	Quarter	2009-Q4
2009-12-24	Year	2009

#### Rounding

2010-08-06T17:15: <b>27</b>	10 seconds	2010-08-06T17:15: <b>30</b>
2010-08-06T17: <b>07</b> :00	15 minutes	2010-08-06T <b>17</b> :00
2010-08-06T17: <b>18</b> :00	15 minutes	2010-08-06T <b>17:15</b>
2010-08-06T <b>02:18:04</b>	4 hours	2010-08-06T <b>04:00:00</b>

#### Round up

Source value	Accuracy	Result
2010-02-28T23: <b>07:00:00 AM</b>	15 minutes	2010-02-28T <b>23:00</b>
2010-02-28T23: <b>07:30</b>	15 minutes	2010-02-28T <b>11:15:00 PM</b>
2010- <b>02-28</b> T23:30:00	1 hour	2010- <b>03-01</b> T00

#### Round down

Source value	Accuracy	Result
1970:01:01T09:00: <b>01</b>	6 hours	1970:01:01T <b>12:00:00</b>
1970:01:01T09:00: <b>00</b>	6 hours	1970:01:01T <b>06:00:00</b>

#### Always round up

Source value	Accuracy	Result
2010-02-28T <b>11:15:00 PM</b>	15 minutes	2010-02-28T <b>11:15:00 PM</b>
2010-02-28T <b>11:15:01 PM</b>	15 minutes	2010-02-28T <b>11:30:00 PM</b>
2010- <b>02-28</b> T <b>20:00:01</b>	6 hours	2010- <b>03-01</b> T00

#### Always round down

<b>Source value</b>	<b>Accuracy</b>	<b>Result</b>
2010-02-28T <b>11:15:00 PM</b>	15 minutes	2010-02-28T <b>11:15:00 PM</b>
2010-02-28T <b>11:14:59 PM</b>	15 minutes	2010-02-28T <b>23:00</b>
2010- <b>03-01T05:59:59</b>	6 hours	2010- <b>03-01T00</b>

### 3.8.3.7.2.30 Runtime info

#### 3.8.3.7.2.30.1 Behavior

Provides system information on the logged-in user or the current date. The operator can also generate a random number.

The value type of the resulting single value changes accordingly.

#### 3.8.3.7.2.30.2 Parameters

The following parameters are available.

Parameter	Description
Information type	<p>The single-value operator can return the following types of information:</p> <ul style="list-style-type: none"> <li>User data</li> <li>Today's date</li> <li>Random number</li> </ul> <p>Default value: User data Specification: Mandatory</p>
Property	<p>Properties of the logged-in user; displayed if User data is selected as the information type.</p> <p>The following values can be selected: Login, First name, Last name, E-mail and Language</p> <p>Default value: User name Specification: Mandatory</p>
Precision	<p>Specifies the accuracy of the date, displayed if Today's date is selected as the information type.</p> <p>The following values can be selected: Minute, Hour, Day, Month, Year</p> <p>Default value: Day Specification: Mandatory</p>
Number range	<p>Number range of the random number; displayed if Random number is selected as the information type.</p> <p>The following values can be selected: Integers, Floating point numbers</p> <p>Default value: Integers Specification: Mandatory</p>
Upper/lower limit	<p>Upper or lower limit of the value range for the random number; displayed if Random number is selected as the information type.</p> <p>Default value: 0 and 10 Specification: Mandatory</p>

### 3.8.3.7.2.31 Text user input

#### 3.8.3.7.2.31.1 Behavior

Enables dynamic entry of text in data feed processing. User input is an interface to a data feed, allowing a user to enter data manually in a dashboard.

#### 3.8.3.7.2.31.2 Parameters

The following parameters are available.

Parameter	Description
Name	Name of user input Source: Constant Data type: Text Specification: Optional The names of the individual user input must be unique within the feed definition.
Debug value	Value used for a test calculation in the Feed Editor. Source: Constant Data type: Text Specification: Optional
Preview value	The value is used if the user does not provide any input. Source: Constant Data type: Text Specification: Optional



## 3.8.3.7.2.32 Value to column

### 3.8.3.7.2.32.1 Behavior

Converts an individual value into a column so that it can be connected to an operator.

Creates a feed table from a single-value operator with a column of the source operator type and a row containing the value of the source operator.

### 3.8.3.7.2.32.2 Parameters

The following parameters are available.

Parameter	Description
Target column	<p>Name of the column to which the conversion result is written.</p> <p>The name of the column is initially <b>Result_1</b>. You can change the name manually if required.</p> <p>Data type: Text, Date or Number</p> <p>Default value: Result_1</p> <p>Specification: Optional</p>

## 3.9 Administrate Collaboration

Collaboration is the platform for cooperation across teams. With Collaboration, information can be exchanged faster, knowledge can be shared, and cooperation across borders is improved.


### 3.9.1 Open Collaboration

Open Collaboration to exchange information, share knowledge, etc.

#### Prerequisites

- Collaboration is activated in ARIS Administration configuration.
- You have at least the **ARIS Connect Viewer** license privilege.
- You have the required access privilege (page 280) in ARIS Architect.

#### Procedure

1. Open ARIS Connect and log in with your user name and password.
2. Click  **Collaboration**.

Collaboration opens.





### 3.9.2 Check activities flagged as inappropriate

Check content flagged as inappropriate and decide whether it must be deleted.

#### Prerequisite

- Flagging activities is activated in ARIS Administration configuration.
- You have the **Collaboration administrator** function privilege.

#### Procedure

1. Under **Administration** click  **Check flagged activities**. The activities flagged as inappropriate are displayed.
2. Verify whether the Collaboration terms of use have been violated.
3. Click  **Allow** if the content does not violate the terms of use.
4. Click  **Comment** to enter a comment or further information for a post.
5. Click  **Delete** if the content violates the terms of use, and then click **OK**.

The flagged activity was checked and is either deleted or will continue to be shown depending on the result. Alternatively, you can check the flagged activities in your notifications.



### 3.9.3 Manage portal feeds

Edit portal feed subscriptions of Collaboration users. You can cancel subscriptions completely or just for individual users. Canceled subscriptions cannot be added here again.

#### Prerequisite

- You have the **Collaboration administrator** function privilege.
- You have the required access privilege (page 280) in ARIS Architect.

#### Procedure

1. Under **Administration** click  **Manage portal feeds**. The followed items are displayed.
2. Click **Delete** to unsubscribe from a portal feed. This removes the entire stream along with all activities and posts.
3. Click **OK**.
4. To cancel the subscription for individual followers, click **Edit** in the row for the relevant item. The followers are displayed.
5. Click **Unfollow** in the row for the follower whose subscription you want to cancel.
6. Click **OK**.
7. Click  **Save**.

The selected subscriptions will be canceled. The corresponding feed is no longer displayed in **★ My portal feeds** for the selected users.

### 3.9.4 Synchronize access privileges

For some interactions in Collaboration, users need special access privileges, for example, to post on portal feeds. These access privileges are assigned in ARIS Architect. To use updated privileges at once, synchronize them manually in Collaboration.

#### Prerequisite

- You have the **Collaboration administrator** function privilege.
- You have the required access privilege (page 280) in ARIS Architect.

#### Procedure

1. Under **Administration** click  **Manage portal feeds**.
2. Click **Synchronize access privileges**.
3. Click **Execute**.

The access privileges from ARIS Architect are updated. The users can now work with the relevant content.


### 3.9.5 Manage announcements

Publish information important for all colleagues as an announcement. Announcements are always displayed on the top of any feed or stream of all users. Additionally, they are highlighted by the background color. Only one announcement is possible at a time, i.e., if a new announcement is published, it replaces the previous one.


#### Prerequisite

- You have the **Collaboration administrator** function privilege.
- You have the required access privilege (page 280) in ARIS Architect.

#### Procedure

1. Under **Administration** click  **Manage announcements**.
2. Enter the announcement title.
3. Enter or copy your text into the input field. Up to 2000 characters are available.
4. Click **OK**.

Your announcement is published in **All company feed** and **My feed** of all colleagues. Users can hide the announcement in their feed by clicking **×** **Remove**.

If the the announcement is outdated, delete it (**Administration** >  **Manage announcements**).


### 3.9.6 Configure ARIS document storage user

Specify a user responsible for the generation of dashboards. The data of dashboards is stored in ARIS document storage. Only one ARIS document storage user (page 63) can be specified at a time. For detailed information about access to ARIS document storage (page 63) etc., please refer to **Manage documents** help.

#### Prerequisite

- You have the **Collaboration administrator** function privilege.
- You have the **Dashboard administrator** function privilege.
- You have the ARIS Connect Designer license privilege.

#### Procedure

1. Under **Administration** click  **Configure document user**.
2. Enter the user name and the password of the relevant user.
3. Click **OK**.

The ARIS document storage user is specified.

### 3.9.7 Display dashboards

You can view statistics data via dashboards. Dashboards can be used, for example, to perform controls in real time.

#### Prerequisite

- You have the **Collaboration administrator** function privilege.
- You have at least the **MashZone Viewer** license privilege.
- **Generate user statistics (com.aris.umc.audit.enabled)** is enabled in the configuration (page 433).
- Your ARIS Server is enabled for ARIS Aware.

#### Procedure

1. Under **Administration**, click **Dashboards**.
2. Click the relevant area (**Overview, Collaboration, Users, Groups**).

The dashboards for the selected area are displayed.

More information on dashboards is available in Use dashboards (page 848), Dashboards available by default (page 643), and Set up dashboards.


### 3.9.8 Clean up and export activities

You can delete activities from before a specified date in order to remove outdated content from Collaboration. This makes the feed overview more transparent. To archive this data, you can create an export. These elements are stored in the export: Comments, tags including hashtags and system tags, external links, links to models, bookmarks, likes, etc.



#### Prerequisite

You have the **Collaboration administrator** function privilege.

#### Procedure

1. Under **Administration** click  **Clean up and export**.
2. Click the **Activities older than** box. The calendar opens.
3. Select the date from which all earlier activities are to be deleted or exported.
4. Click **OK**.
5. Specify whether the activities should be exported and/or deleted.
6. Depending on your selection, click **Export**, **Export and delete** or **Delete**.

According to your specifications, the activities older than the date entered are deleted and/or exported. The export is saved as a ZIP file.

Archive the ZIP file on your computer. To do so, move the mouse pointer over the relevant export. The buttons of the available functions are displayed. Click  **Download ZIP file**. If export files are outdated, you can remove them from the list by clicking on  **Delete Zip file**.


### 3.9.9 Configure notifications

You can specify the time for daily e-mail notifications and the day for weekly e-mail notifications. Defaults are AM 00:00 and Monday respectively. The global settings are used for all users who have not specified an e-mail frequency in their own account yet (**View notifications > Change your notification settings**).

#### Prerequisite

You have the **Collaboration administrator** function privilege.

#### Procedure

1. Under **Administration** click  **Configure notifications**.
2. Select a time for the daily digest e-mail (**Daily digest at**).
3. Select a day for the weekly digest e-mail (**Weekly digest on**).
4. Select a global frequency (**Global settings**).
5. Click **Save**.

The e-mail notifications will be sent to the users at the time and on the day you specified.





### 3.9.10 Customize e-mail notifications

You can customize the e-mail notification layout by editing the HTML template. You can for example, adapt font size and font color as well as the background color.


#### Prerequisite

- You have the **Collaboration administrator** function privilege.
- You know how to edit HTML code.


#### Procedure

1. Under **Administration** click  **Configure notifications**.
2. Click **Customization**. The HTML template is displayed.
3. Edit existing HTML tags or add new ones. See the example below.
4. Under the HTML template, click  **Help** to receive information about important keywords used in the HTML template.
5. Click  **Save**.
6. Under the HTML template, click  **Send preview e-mail** to receive an e-mail with a preview of your customized design.

The customized layout is created.

Click  **Restore defaults** below the HTML template to undo all the settings you have made. The default settings are loaded and the template is refreshed.

#### Tip

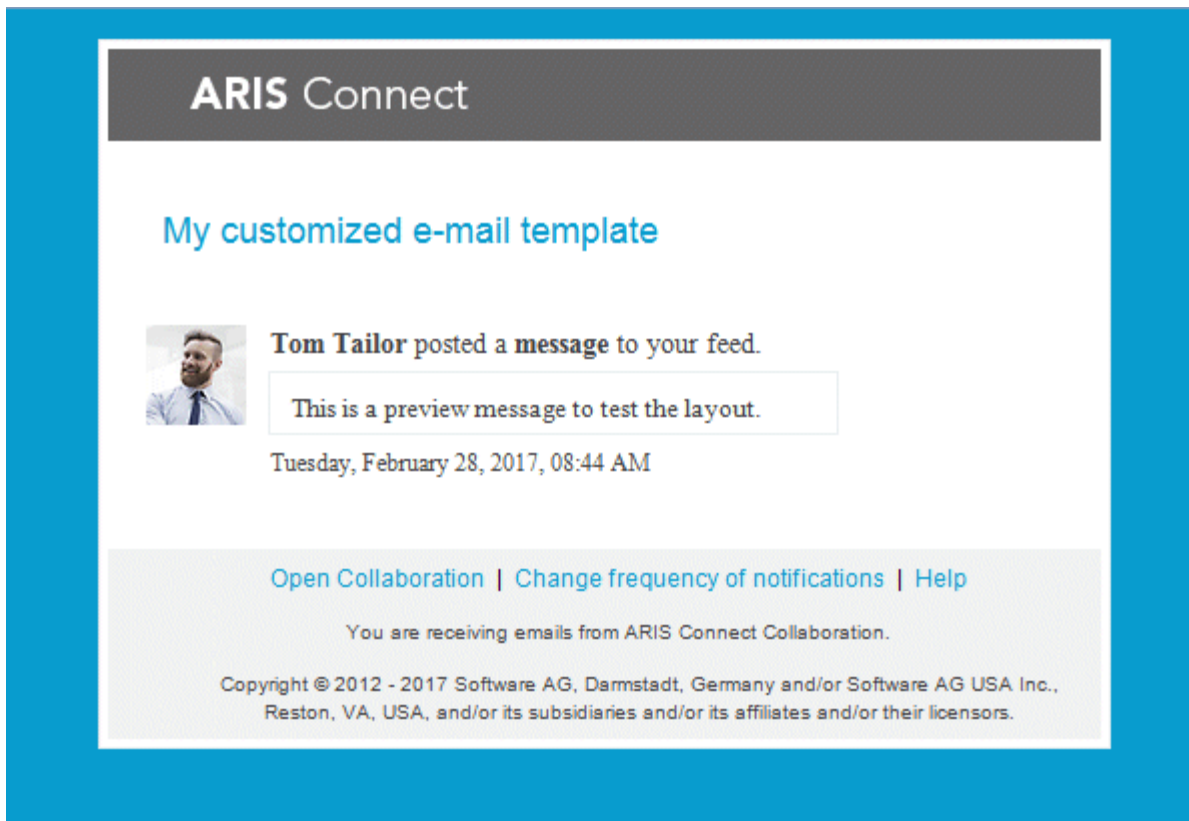
Alternatively, you can edit the template with an external HTML editor. To do so, copy the template to your clipboard (.

## Example

Change the background color of the e-mail and the heading.

- Replace the tag **<body class="mail-font-family">** with **<body class="mail-font-family" style="background-color: #0899CC;">** in order to use a blue background color.
- Replace the tag **<h3 class="mail-heading body-heading">\$emailTitle</h3>** with **<h3 class="mail-heading body-heading">My customized e-mail template</h3>** in order to use the heading **My customized e-mail template**.

Your preview e-mail should now look like this:



### 3.9.11 What are the privileges of coordinators and Collaboration administrators?

#### COORDINATORS

- Are responsible for managing (page 713) the group profile, privileges, access, and feed activity facilitation.
- Can delete their groups.

As the creator of a group, you are automatically the coordinator. You can assign (page 713) coordinator privileges to other group members, as well.

#### COLLABORATION ADMINISTRATORS

- Have the same privileges as coordinators.
- Manage the posts that users have flagged as inappropriate (page 273).
- Can synchronize (page 274) access privileges
- Can manage (page 275) announcements
- Can configure (page 275) ARIS document storage user
- Can display (page 276) dashboards
- Can clean up and export (page 276) activities
- Can view all posts and delete them.
- Can configure (page 277) and customize (page 277) e-mail notifications.
- Can customize (page 476) Collaboration in ARIS Administration.

Collaboration administrator is a function privilege assigned in ARIS Administration.

### 3.9.12 What dashboards are there?

There are dashboards from the overview, Collaboration content, users and groups areas.



### 3.9.13 Which access privileges of ARIS Architect are relevant to Collaboration?

For some interactions in Collaboration, users need special access privileges, for example, to post on portal feeds. These access privileges are assigned in ARIS Architect. You can synchronize (page 274) the privileges in Collaboration manually, after you edited them in ARIS Architect. The following database access rights are relevant to Collaboration:

- **No access (----)**  
No portal content is displayed.
- **Read (r---)**  
Portal content is displayed. Users can read posts added to models, and they can like, share, bookmark, tag, and flag them. However, they cannot comment on models.
- **Read + Comment (rc--), Read + Write (rw--)** (and all other types of rw access)  
Portal content is displayed. Users can use all functions of Collaboration.

For detailed information about access rights, refer to the help in ARIS Architect (ARIS Configuration and Administration).

## 3.10 Configure Tenant Management

The Tenant Management user interface has been installed using the ARIS server setup program. It is run automatically with the user account of the user **superuser**. In order for other users to be able to log in (page 285), you have to configure the infrastructure tenant (page 281). This assigns users in the infrastructure tenant privileges for impersonation (page 285), along with additional function privileges.

Once all operational tenants are configured (page 282), impersonation enables users to assume the account of the system user **superuser** in order to perform administration tasks. After the ARIS server was updated, for all operational tenants make sure to specify **superuser** in the **Impersonation target users** field again.

If you want existing tenants that were not created using Tenant Management to be managed centrally, you have to adjust the configuration of these tenants (page 283).



### 3.10.1 Configure infrastructure tenant

In order for users to be able to log into Tenant Management, they must have been assigned **impersonation** privileges (page 285) by system users in this node's infrastructure tenant and also require additional function privileges. Impersonation enables users to use the account of the system user **superuser** to perform administration tasks. If this node has been accidentally removed, please make sure to add it again.

#### Prerequisite

You are a system user or have the **User administrator** and **Impersonation** function privileges.

#### Procedure

1. Click the link that was provided to you or that you have saved as a bookmark in your browser, e.g., **http://myServer:1080/umc**. The User Management login dialog opens.
2. Enter the name of the infrastructure tenant in the  **Tenant** field, e.g., **master**.
3. Enter the user name **superuser** and the associated password.
4. Click **Log in**. The  **User management** tab is displayed.
5. Click the user **superuser**.
6. Click **Privileges**. The list of function privileges is displayed.
7. Make sure that in addition to the assigned privileges at least the following function privileges are activated:
  - User administrator
  - Impersonation
  - Tenant administrator
  - Technical configuration administrator

The user **superuser** now has the required privileges in the infrastructure tenant.

If necessary, create users as substitutes and assign them the required function privileges in the same way.

For users to be able to use Tenant Management, you must configure all operational tenants (page 282).

### 3.10.2 Configure operational tenants



Impersonation enables users to use the account of the system user **superuser** to perform administration tasks.

To enable Tenant Management to establish connections to tenants, the user **superuser** must have all function privileges required for backup and restore in all operational tenants and must be defined as a target for impersonation.



#### Prerequisite

You are a system user or have the **User administrator** and **Impersonation** function privileges.

#### Procedure

1. Open ARIS Administration for an operational tenant, e.g., `http://<server name>:<port>/#default/home`).
2. Log in as a system user or a user with the **User administrator** and **Technical configuration administrator** function privileges.
3. Click **<user name> > Administration**. ARIS Administration opens.
4. Click the  **Configuration** tab.
5. Click **User management**.
6. Select the **Users** entry in the drop-down list.
7. Click **General**.
8. Click  **Edit**.
9. Click in the **Impersonation target users** field.
10. Enter the user name **superuser**.

If the ARIS server was updated, make sure to reenter the user name for all operational tenants in the **Impersonation target users** field again.

11. Click  **Save**. All users that have the **Impersonation** and **Tenant administrator** function privileges on the infrastructure tenant take on the identity of **superuser** and inherit all of the **superuser** privileges.
12. Click  **User management**.
13. Select the user **superuser**. The details will be displayed.
14. Click **Privileges**. The list of function privileges is displayed.
15. Activate the function privileges required for backing up and restoring:
  - Analysis administrator
  - Collaboration administrator
  - Database administrator
  - Dashboard administrator

- Document administrator
- License administrator
- Process Governance administrator
- Server administrator
- Technical configuration administrator
- User administrator

The function privileges depend on the license. Therefore, you may not be able to assign all of the function privileges shown.

16. Log out of ARIS Administration.

The user **superuser** has the privileges to manage data for the **default** tenant.

17. Enter the user **superuser** under **Impersonation target users** in all other operational tenants in your system in turn, and assign the required function privileges.

The user **superuser** has the privileges to manage all data for the tenants (page 286). All substitutes can log in using their user name and manage tenants on behalf of the system user **superuser**.



### 3.10.3 Configure existing tenants

To enable Tenant Management to establish connections to tenants that were not created using Tenant Management, you must adjust the configuration of these tenants.





#### Prerequisite

You are a system user or have the **User administrator** and **Technical configuration administrator** function privileges.

#### Procedure

1. Open ARIS Administration for an operational tenant, e.g., `http://<server name>:<port>/#default/home`).
2. Log in as a system user or a user with the **User administrator** and **Technical configuration administrator** function privileges.
3. Click **<user name> > Administration**. ARIS Administration opens.
4. Click the  **Configuration** tab.
5. Click **User management**.
6. Select the **Users** entry in the drop-down list.
7. Click **General**.
8. Click  **Edit**.
9. Click in the **Impersonation target users** field.
10. Enter the user name **superuser**.

If the ARIS server was updated, make sure to reenter the user name for all operational tenants in the **Impersonation target users** field again.

11. Click  **Save**. All users that have the **Impersonation** and **Tenant administrator** function privileges on the infrastructure tenant take on the identity of **superuser** and inherit all of the **superuser** privileges.
12. Select the **Security** entry in the drop-down list.
13. Click **Advanced settings**.
14. Click  **Edit**.
15. Enable the **Generate user statistics** check box.
16. Click  **Save**. The **Utilization** and **Licenses** columns can be displayed on the **Tenants** page.
17. Click  **User management**.
18. Select the user **superuser**. The details will be displayed.
19. Click **Privileges**. The list of function privileges is displayed.
20. Activate the function privileges required for backing up and restoring:
  - Analysis administrator
  - Collaboration administrator
  - Database administrator
  - Dashboard administrator
  - Document administrator
  - License administrator
  - Process Governance administrator
  - Server administrator
  - Technical configuration administrator
  - User administrator

The function privileges depend on the license. Therefore, you may not be able to assign all of the function privileges shown.

21. Log out of ARIS Administration.

The user **superuser** has the privileges to manage data for this tenant.

22. Configure all other tenants that were not created in Tenant Management in the same way. The user **superuser** has the privileges to manage all data for the tenants (page 286). All substitutes can log in using their user name and manage tenants on behalf of the system user **superuser**.

### 3.10.4 Open Tenant Management

System users and users (page 281) to whom the required privileges are assigned can log in to Tenant Management on the infrastructure tenant.

- They know the passwords for the system users **system** or **superuser**.
- They have login privileges (page 281).

#### Procedure

1. Click the link that was provided to you or that you have saved as a bookmark in your browser (syntax: <server name>:<port>/tm). The Tenant Management login dialog opens.  
The name of the infrastructure tenant is displayed. You cannot select any other.
2. Select the interface language. You cannot change the language once you have logged in.
3. Enter your user name and your password.

Clicking **Forgot password** enables you to reset the password.

If you reset the password for the user **system** or **superuser**, other users can no longer log in with these user names. Automated processes, e.g., automatic backups, can no longer be performed.

4. Click **Log in**.

You can manage all tenants in the system.

### 3.10.5 Which users can manage tenants?

The user **superuser** and users to which the required privileges are assigned by the user **superuser** can manage tenants.

If users with appropriate privileges start Tenant Management, they do this as the user **superuser**. This is facilitated by the **Impersonation** function privilege, which is assigned to relevant users on the infrastructure tenant (page 285).

### 3.10.6 What is impersonation?

Users manage tenants on behalf of the user **superuser**. This requires the **creation** of these users in the user management for the infrastructure tenant, e.g., master (page 354). To use impersonation, users require the **Impersonation** function privilege in the infrastructure tenant.

For Tenant Management, they also require the **User administrator**, **Tenant administrator**, and **Technical configuration administrator** function privileges.

In all other operational tenants, e.g., **default**, the user **superuser** must be defined as the target for impersonation (page 281). Impersonation enables users to back up tenants in which they do not exist as a user.

To back up and restore the data, the user **superuser** requires the following function privileges in all operational tenants:

- ARCM administrator
- Analysis administrator

- Collaboration administrator
- Dashboard administrator
- Document administrator
- Database administrator
- License administrator
- Process Governance administrator
- Server administrator
- Technical configuration administrator

### 3.10.7 What data is backed up and restored?

If you back up tenants manually or use a scheduled backup, the current state of the following data is saved in backup lists.

Tenant data is fully backed up only if the user executing the commands has sufficient privileges for all components in every tenant. Extensions, e.g., SSL certificates, SAP® Java Connector, and JDBC drivers, added using the **enhance** ACC command are not backed up. In ARIS 10 all started runnables are automatically taken into account when executing tenant backup/restore commands.

Backup/restore	Required function privileges	Component (runnable)
Data from ARIS Administration, e.g., users, privileges, Licenses	User administrator Technical configuration administrator License administrator	ARIS Administration/User Management (umcadmin_<s, m, or l>)
System database Contains filters, templates, and font formats, but also ARIS Method and all evaluation scripts, macros and scheduled reports.	Server administrator	Modeling & Publishing (abs_<s, m, or l>)
ARIS databases	Database administrator	
Ad hoc analyses and queries	Analysis administrator	Analysis (octopus_<s, m, or l>)
ARIS document storage data Documents and access privileges	Document administrator Technical configuration administrator	ARIS document storage (adsadmin_<s, m, or l>)

<b>Backup/restore</b>	<b>Required function privileges</b>	<b>Component (runnable)</b>
Process Governance data	Process Governance administrator	Process Governance (apg_<s, m, or l>)
Collaboration data	Collaboration administrator	Collaboration (ecp_<s, m, or l>)
ARIS Risk & Compliance Manager data	ARCM administrator	ARIS Risk & Compliance Manager (arcm_<s, m, or l>)
Dashboards	Dashboard administrator	ARIS Aware (dashboarding_<s, m, or l>)

You require the same function privileges to restore the data.



## 3.11 Configure ARIS Connect

ARIS Connect can be configured and customized to meet specific requirements that can differ between various customers.

### 3.11.1 Configure Portal

By default, ARIS Connect provides the classic configuration set (page 610) and the default configuration set (page 610) as examples. Using these as basis, you can define modification sets customizing how data are displayed.

#### 3.11.1.1 Publish database as a process portal

Select the database to be published as the process portal.

##### Prerequisite

You have the **Publishing administrator** function privilege.

##### Procedure

1. Click your user name.
2. Click **Administration**.
3. Click **Portal > Publish** on the **Configuration** tab. All available databases are displayed.
4. Enable the check boxes of the databases you want to publish in the portal.
5. For versioned databases, select the relevant version.
6. Click **Apply**.

The content of the databases is published in the portal in the selected configuration or modification set (page 297). As long as the databases are available in the portal they cannot be deleted in ARIS.

#### 3.11.1.2 Define a default database

You can define the database to that a user with **ARIS Connect Viewer** license privileges is connected when he starts ARIS Connect and he has not been accessed a database yet. The database placed at the top of the database list is the default database.


##### Prerequisite

You have the **Publishing administrator** function privilege.

##### Procedure

1. Click your user name.
2. Click **Administration**.
3. Click **Portal > Publish** on the **Configuration** tab. All available databases are displayed. The check boxes of databases that are published are enabled. If you want to publish further

databases to be shown in the process portal, enable the check boxes of these databases. (page 288)

4. Position the mouse pointer over the row of the published database you want to define as the default database. The move symbols are displayed.
5. Click  **Move to top** to shift the database to the top of the database list.
6. Click **Apply**.

You have defined the default database.




### 3.11.1.3 Change sort order of published databases

You can sort published databases that are offered by the process portal.

#### Prerequisite

You have the **Publishing administrator** function privilege.

#### Procedure

1. Click your user name.
2. Click **Administration**.
3. Click **Portal > Publish** on the **Configuration** tab. All available databases are displayed. The check boxes of databases that are published are enabled. If you want to publish further databases to be shown in the process portal, enable the check boxes of these databases. (page 288)
4. Position the mouse pointer over the row of the database you want to move. The move symbols are displayed.
5. Click  **Move up** to shift the database one row up.
6. Click  **Move down** to shift the database one row down.
7. Click  **Move to top** to shift the database to the top of the database list.
8. Click **Apply**.

You have changed the sort order of the published databases. The first published database of the list is the default database (page 288).

### 3.11.1.4 Manage configuration and modification sets

Portal administrators select the configuration set to show portal data. The way you are able to navigate through the data is determined by the hierarchies.

By default, ARIS Connect provides the classic configuration set (page 610) and the default configuration set (page 610) as examples. With these, you publish sample portals on the basis of the demo database, for example. Of course, you can also publish your databases with these sample configuration sets. If you want to change the appearance of the portal, administrators simply create (page 295) custom modification sets for you based on the classic configuration set or default configuration set. If you need extended configuration sets with different functions that

you cannot configure in ARIS Administration, please contact your local Software AG sales organization (<http://softwareag.com>).


### 3.11.1.4.1 Save configuration set

You can save a configuration set. You can restore saved configuration sets at any time or provide them on other tenants.

#### Prerequisite

You have the **Portal administrator** function privilege.

#### Procedure

1. Start ARIS Connect.
2. Click the arrow next to your user name.
3. Click **Administration**.
4. Click **Manage configuration sets**. All available configuration and modification sets are displayed. The current configuration or modification set is marked as **(active)**.
5. Move the mouse pointer over a configuration set.
6. Click  **Backup**.
7. Save the file in any directory.

The **<name of the configuration set>\_bak.zip** backup file is downloaded.


### 3.11.1.4.2 Duplicate configuration set

You can generate a new modification set by duplicating a configuration set.

#### Prerequisite

- You have the **Portal administrator** function privilege.
- You have access to the backup file.

#### Procedure

1. Start ARIS Connect.
2. Click the arrow next to your user name.
3. Click **Administration**.
4. Click **Manage configuration sets**. All available configuration and modification sets are displayed. The current configuration or modification set is marked as **(active)**.
5. Click  **Duplicate**. A new modification set is generated.

The modification set is created. It contains all elements from the selected template.

Change (page 298) the new modification set by adding the required items, properties, and fact sheets, or by adapting existing ones.

### 3.11.1.4.3 Define a portal configuration set providing SAP® content

In order to make SAP transactions, the ARIS Online Guide, and SAP documents available to portal users, you need to create an additional portal configuration set.

If you require further modification sets, please contact your local Software AG sales organization (<http://softwareag.com>).

#### Prerequisites

- You have the **Portal administrator** function privilege.
- You have the **ARIS Connect Designer** license privilege.
- You have the **Portal publisher** function privilege.
- You have access to the ARIS Connect installation directory.

#### Warning

Advanced configuration changes may require the use of XML configuration. Please contact Software AG (<https://empower.softwareag.com/>) for a customization request or participate in the **742-xx ARIS Connect Portal Configuration training** (<http://www.softwareag.com/education/>). Please note that customization and training services are not covered by the standard Software AG software maintenance agreement. Configuration changes can only be performed by Software AG if you request and agree to them. Errors in XML configuration may have serious impact. You may not be able to start ARIS Connect again.

#### Procedure

1. Copy and paste the directory you want to use as a basis for the new configuration set. This example is based on the **classic** configuration set:

```
<ARIS installation path>\server\bin\work\work_copernicus_<s, m  
or I>\base\webapps\ROOT\WEB-INF\config\classic
```

2. Rename it to **Groupview\_SAP**. Do not use spaces or any language-specific special characters. This directory name will be used automatically as configuration set name in all user interface languages.

3. Open the following XML file in an editor:

```
<ARIS installation path>\server\bin\work\work_copernicus_<s, m  
or I>\base\webapps\ROOT\WEB-INF\config\Groupview_SAP\views\item.xml
```

4. Find the following entry that occurs multiple times in the file:

```
<!--Remove the following comments to enable SAP-Transactions-->
```

5. Uncomment the tags before and after the rows with the SAP-relevant content:

```
<!--SAP  
...  
SAP-->
```

6. Save the file.
7. Open the ARIS installation directory.

8. Copy and paste the directory that is to be used as a basis for the search in the new configuration set:

<ARIS installation path>\server\bin\**work\_abs\_<s, m**  
or **I>**\base\webapps\abs\WEB-INF\config\**classic**

Make sure to copy the directory name copied in **step 2**, as a basis for the new configuration set. In this example this is **classic**.

9. Rename the directory to **Groupview\_SAP**. Make sure to use the same name as in **step 3**. Do not use spaces or any language-specific special characters.
10. Open the following XML file in an editor:

**\work\_abs\_<s, m**  
or **I>**\base\webapps\abs\WEB-INF\config\**Groupview\_SAP**\search\**search.xml**

11. Find the following entry that occurs multiple times in the file:

```
<!--Remove the following comments to enable SAP-Transactions-->
```

12. Uncomment the tags before and after the rows with the SAP-relevant content:

```
<!--SAP
...
SAP-->
```

13. Save the file.

14. Load the current changes using the external link:

http://<server name><:port number, if different from default  
port>/#<tenant>/**reloadConfig**,

e.g. http://connectserver.eu.comp:1080/#default/reloadConfig

15. Log in as a system user.

16. Click **Reload and validate configuration files**. The changed configuration is validated. Results will be displayed on completion.

17. If the **Groupview\_SAP** entries **Groupview\_SAP** **Groupview\_SAP (modSet)** are not marked with the **✘ error** symbol, the new configuration set is configured properly and can be made available.

If errors were detected, resolve the logged problems and **Reload and validate configuration files** again. Any warnings about missing properties can be ignored.

18. Activate the **Groupview\_SAP** configuration set via external link:

http://<server name><:port number, if different from default  
port>/#<tenant>/**adminSettings**

e.g:

http://connectserver.eu.comp:1080/#default/adminSettings

You can also activate (page 297) the **Groupview\_SAP** configuration set within ARIS Connect.

In this configuration set, the functions Run SAP transaction (page 548), Download SAP documents (page 549), and ARIS Online Guide (page 551) are now available for published

databases (page 288). If you are using HD server, define a portal configuration set providing SAP content also for the **hds** runnable as described for the **abs** runnable.

Ensure you are connected to SAP Solution Manager 7.2.

### 3.11.1.4.4 Restore configuration set

If you require further modification sets, please contact your local Software AG sales organization (<http://softwareag.com>). Restore a saved configuration set.

#### Prerequisite

- You have the **Portal administrator** function privilege.
- You have access to the backup file.

#### Procedure

1. Start ARIS Connect.
2. Click the arrow next to your user name.
3. Click **Administration**.
4. Click **Manage configuration sets**. All available configuration and modification sets are displayed. The current configuration or modification set is marked as **(active)**.
5. Click **Restore**. The file selection dialog opens.
6. Double-click the ZIP file (syntax: **<name of the configuration set>.zip**).

The configuration set is tested, and is applied if it is an error-free configuration set. Notes are displayed in yellow, errors in red. The configuration set is displayed in the list with the original name. If a configuration set with the same name exists, it is overwritten. The **classic** and **default** configuration sets cannot be overwritten or deleted.


### 3.11.1.4.5 Delete configuration set

You can delete a configuration set. The **classic** and **default** configuration sets cannot be overwritten or deleted.

#### Prerequisite

You have the **Portal administrator** function privilege.

#### Procedure

1. Start ARIS Connect.
2. Click the arrow next to your user name.
3. Click **Administration**.
4. Click **Manage configuration sets**. All available configuration and modification sets are displayed. The current configuration or modification set is marked as **(active)**.
5. Move the mouse pointer over a configuration set.
6. Click  **Delete**.
7. Click **Delete** to confirm.

The configuration set is no longer available in ARIS Connect.

### 3.11.1.4.6 Create modification set

You can create (page 295) your own modification sets based on the classic configuration set (page 610), on the default configuration set (page 610) or based on a user-defined configuration set. If you require a user-defined configuration set, please contact your local Software AG sales organization (<http://softwareag.com>).

#### Prerequisite

You have the **Portal administrator** function privilege.

#### Procedure

1. Start ARIS Connect.
2. Click the arrow next to your user name.
3. Click **Administration**.
4. Click **Manage configuration sets**. All available configuration and modification sets are displayed. The current configuration or modification set is marked as **(active)**.
5. Click **Create** in the **Configuration and modification sets** area. The **Create modification set** dialog opens.
6. Enter the name for the new modification set.
7. In the **Template** box, select the configuration set that your new modification set is to be based on.
8. Click **Create**.

The modification set is created. It contains all elements from the selected template.

Change (page 298) the new modification set by adding the required items, properties, and fact sheets, or by adapting existing ones.




### 3.11.1.4.7 Save ARIS Connect modification set

Save user-defined modification sets (page 295) for data migration or before you modify them. You can restore saved modification sets at any time or provide them on other servers.

#### Prerequisite

You have the **Portal administrator** function privilege.

#### Procedure

1. Start ARIS Connect.
2. Click the arrow next to your user name.
3. Click **Administration**.
4. Click **Manage configuration sets**. All available configuration and modification sets are displayed. The current configuration or modification set is marked as **(active)**.
5. Move the mouse pointer over a user-defined modification set.
6. Click  **Backup**.
7. Save the file in any directory.

The **<name of the modification set>\_bak.zip** backup file is downloaded.

Based on this backup, you can restore this version of the modification set (page 296).

### 3.11.1.4.8 Restore ARIS Connect modification set

Restore saved modification sets (page 296).

#### Prerequisite

- You have the **Portal administrator** function privilege.
- You have access to the backup file.

#### Procedure

1. Start ARIS Connect.
2. Click the arrow next to your user name.
3. Click **Administration**.
4. Click **Manage configuration sets**. All available configuration and modification sets are displayed. The current configuration or modification set is marked as **(active)**.
5. Click **Restore**. The file selection dialog opens.
6. Double-click the ZIP file (syntax: **<name of the modification set>\_bak.zip**).

If a modification set with the same name exists, it is overwritten. If you want to keep the original modification set, you must define another name for restored one (page 298).

### 3.11.1.4.9 Select modification set


Select the modification set to show the portal data. By default, the program provides the classic configuration set (page 610) and the default configuration set (page 610). If required, user-defined modification sets (page 295) and restored modification sets (page 296) are also displayed here.

You can create (page 295) your own modification sets based on the classic configuration set (page 610), on the default configuration set (page 610) or based on a user-defined configuration set. If you require further modification sets, please contact your local Software AG sales organization (<http://softwareag.com>).

#### Prerequisite

You have the **Portal administrator** function privilege.

#### Procedure

1. Start ARIS Connect.
2. Click the arrow next to your user name.
3. Click **Administration**.
4. Click **Manage configuration sets**. All available configuration and modification sets are displayed. The current configuration or modification set is marked as **(active)**.
5. Move the mouse pointer over a user-defined modification set.
6. Click  **Activate**. The selected configuration or modification set is marked as **(active)**.

All of the databases selected for the portal are published in the configuration or modification set selected.


### 3.11.1.4.10 Rename modification set

Change the names of modification sets.

#### Prerequisite

You have the **Portal administrator** function privilege.

#### Procedure

1. Start ARIS Connect.
2. Click the arrow next to your user name.
3. Click **Administration**.
4. Click **Manage configuration sets**. All available configuration and modification sets are displayed. The current configuration or modification set is marked as **(active)**.
5. Move the mouse pointer over a user-defined modification set.
6. Click  **Rename**. The **Rename modification set** dialog opens.
7. Enter the new name.
8. Click **Rename**.

All of the databases selected for the portal are published in the configuration or modification set selected.


### 3.11.1.4.11 Edit modification set

Edit your own modification sets created based on the classic configuration set (page 610) or the default configuration set (page 610). You cannot edit the classic and the default configuration set.

#### Prerequisite

You have the **Portal administrator** function privilege.

#### Procedure

1. Start ARIS Connect.
2. Click the arrow next to your user name.
3. Click **Administration**.
4. Click **Manage configuration sets**.
5. Move the mouse pointer over a user-defined modification set. All available configuration and modification sets are displayed. The current configuration or modification set is marked as **(active)**. You can edit custom (page 295) modification sets only.
6. Click  **Edit**.

The **Define modification set** page opens and you can edit the modification set.

### 3.11.1.4.11.1 Edit items

Edit your own modification sets created based on the classic configuration set (page 610) or the default configuration set (page 610).

#### 3.11.1.4.11.1.1 Add items

Edit your own modification sets created based on the classic configuration set (page 610) or the default configuration set (page 610). You cannot edit the classic and the default configuration set.

##### Prerequisite

You have the **Portal administrator** function privilege.

##### Procedure

1. Open a user-defined modification set for editing. (page 298)
2. Click **Items**. All items defined in this modification set for groups, models, and objects are displayed. You can use these items in fact sheets and define which information is displayed where.
3. Click **+ Create item**. The dialog opens.
4. Enter the technical name of the new item as an identifier, e.g., **Risk**.
5. For each language enter the name of the element that it is to be displayed with in the portal.
6. In the **Source** box, select the type of ARIS item, e.g., **Object** or **Model**.
7. Enter the object or model type names. All types that you can use are displayed during input. Types that have already been assigned to other items are not shown.
8. Click an entry. The type is added.
9. Add further types, if necessary.
10. Click **Create**. The item is displayed in the list.
11. Click **← Back**.
12. To test the changed modification set, select (page 297) it for publishing.

As soon as a fact sheet has been configured (page 306), the changes are available to all users of the portal.




### 3.11.1.4.11.1.2 Edit items

Edit your own modification sets created based on the classic configuration set (page 610) or the default configuration set (page 610). You cannot edit the classic and the default configuration set.

#### Prerequisite

You have the **Portal administrator** function privilege.

#### Procedure

1. Open a user-defined modification set for editing. (page 298)
2. Click **Items**. All items defined in this modification set for groups, models, and objects are displayed. You can use these items in fact sheets and thus define which information is displayed where.
3. Move the mouse pointer to the item you want to change, e.g., **Process**.
4. Click  **Edit**. The **Edit item** page opens.  
Identifier, name, type, and ARIS items are shown on the overview page of the **Process** item. In this example these are various model types whose information for the **Process** item is displayed in the portal. They are model types for representing business processes.
5. Click **Edit**. The **Edit item** dialog opens.
6. If required, change the name displayed in the portal in all languages, e.g., **Process** to **Business process**.
7. Click **OK**. The changes are applied and the dialog closes.
8. Next to the **ARIS items** box, click **Add**. The **Add ARIS item** dialog opens.
9. Add more items from ARIS. In the **Process** example, you can select model types that have not been used for the **Process** item yet.
10. Click **Add**. The model list is completed and the dialog closes.
11. Click  **Remove** to delete entries.
12. Click  **Back**.
13. To test the changed modification set, select (page 297) it for publishing.

The changes are available to users in the portal.

### 3.11.1.4.11.1.3 Add item properties

Item properties determine the information available and displayable for the item in the portal. You can edit custom properties.



You cannot edit the classic and the default configuration set.

You can allow users who have both the **ARIS Connect Viewer** and the **Contribution** license privileges to edit certain properties. This is also possible for properties that have already been defined in the selected template of the modification set.

#### Prerequisite

You have the **Portal administrator** function privilege.

#### Procedure

1. Open a user-defined modification set for editing. (page 298)
2. Click **Items**. All items defined in this modification set for groups, models, and objects are displayed. You can use these items in fact sheets and define which information is displayed where.
3. Move the mouse pointer to the item you want to change, e.g., **Process**.
4. Click  **Edit**. The **Edit item** page opens.
5. Click **Properties**. All properties of the item that can be displayed in the portal are listed.
6. Click  **Create property**. A dialog of the same name opens.
7. Enter the technical name of the new property as an identifier.
8. For each language enter the name of the property that it is to be displayed with in the portal. Always specify the name in English as well, because English is used as the alternative language in the event that a language is missing.
9. In the **Data mapping** box, select the type of ARIS item whose information is to be available. This depends on the type of item for which you are defining the property.
10. For models you can select **Attributes**, **Occurrence contained**, or **Related assigned models**, while you can select **Attributes**, **Related objects**, or **Object to object** for objects. If you select **Attribute** and the attribute type, e.g., **Description**, the descriptive texts for objects or models are searched and provided. For **Connected objects**, select connection and object type. This finds all objects associated with an object. **Occurrences contained** provides all objects of a model.
11. Specify the settings described depending on the item type.
12. Click **Create**. The new property is displayed in the table.
13. In order to be able to test the changed property, it must first be assigned to an area in a fact sheet. To test the changed modification set, select it for publishing.

The changes are available to users in the portal.

### 3.11.1.4.11.1.4 Edit item properties

Item properties determine the information available and displayable for the item in the portal. You can edit the properties.




You cannot edit the classic and the default configuration set.

You can allow users who have both the **ARIS Connect Viewer** and the **Contribution** license privileges to edit certain properties. This is also possible for properties that have already been defined in the selected template of the modification set.

#### Prerequisite

You have the **Portal administrator** function privilege.

#### Procedure

1. Open a user-defined modification set for editing. (page 298)
2. Click **Items**. All items defined in this modification set for groups, models, and objects are displayed. You can use these items in fact sheets and define which information is displayed where.
3. Move the mouse pointer to the item you want to change, e.g., **Process**.
4. Click  **Edit**. The **Edit item** page opens.
5. Click **Properties**. All properties of the item that can be displayed in the portal are listed.
6. Move the mouse pointer to the property you want to change, e.g., **Process**.
7. Click  **Edit**.
8. For each language enter the name of the property that it is to be displayed with in the portal. Always specify the name in English as well, because English is used as the alternative language in the event that a language is missing.
9. In the **Data mapping** box, select the type of ARIS item whose information is to be available. This depends on the type of item for which you are defining the property.
10. For models you can select **Attributes**, **Occurrence contained**, or **Related assigned models**, while you can select **Attributes**, **Related objects**, or **Object to object** for objects. If you select **Attribute** and the attribute type, e.g., **Description**, the descriptive texts for objects or models are searched and provided. For **Connected objects**, select connection and object type. This finds all objects associated with an object. **Occurrences contained** provides all objects of a model.
11. Specify the settings described depending on the item type.
12. Click **OK**.
13. Click  **Back**.
14. In order to be able to test the changed property, it must first be assigned to an area in a fact sheet. To test the changed modification set, select it for publishing.

The changes are available to users in the portal.



### 3.11.1.4.11.1.5 Allow Connect Viewer users to edit

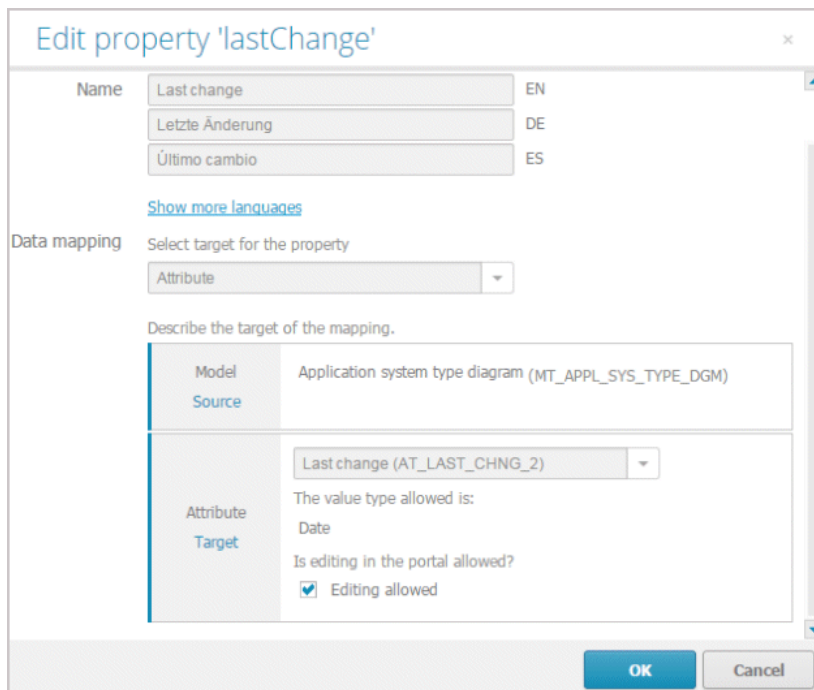
You can allow users who have both the **ARIS Connect Viewer** and the **Contribution** license privileges along with the corresponding access privileges to edit item properties that represent attribute values in the portal.

#### Prerequisite

You have the **Portal administrator** function privilege.

#### Procedure


1. Open a user-defined modification set for editing. (page 298)
2. Click **Items**. All items defined in this modification set for groups, models, and objects are displayed. You can use these items in fact sheets and define which information is displayed where.
3. Move the mouse pointer to the item you want to change, e.g., **Process**.
4. Click  **Edit**. The **Edit item** page opens.
5. Click **Properties**. All properties of the item that can be displayed in the portal are listed.
6. Move the mouse pointer to the property you want to edit.
7. Click  **Edit**. The **Edit property** dialog opens.
8. Enable **Editing allowed**.



The screenshot shows a dialog box titled "Edit property 'lastChange'". It contains the following fields and options:

- Name:** A list of language-specific names: "Last change" (EN), "Letzte Änderung" (DE), and "Último cambio" (ES). A link "Show more languages" is below.
- Data mapping:** A dropdown menu set to "Attribute".
- Describe the target of the mapping:** A table with two rows:
 

Model Source	Application system type diagram (MT_APPL_SYS_TYPE_DGM)
Attribute Target	Last change (AT_LAST_CHNG_2) [dropdown] The value type allowed is: Date Is editing in the portal allowed? <input checked="" type="checkbox"/> Editing allowed
- Buttons:** "OK" and "Cancel" at the bottom right.

9. Click **OK**.
10. Click  **Back**.
11. To test the changed modification set, select (page 297) it for publishing.

Users who have both the **ARIS Connect Viewer** and the **Contribution** license privileges can edit the item.



### 3.11.1.4.11.2 Edit Fact sheets

Edit your own modification sets created based on the classic configuration set (page 610) or the default configuration set (page 610).

#### 3.11.1.4.11.2.1 Customize text fonts and colors

You can customize the text color.

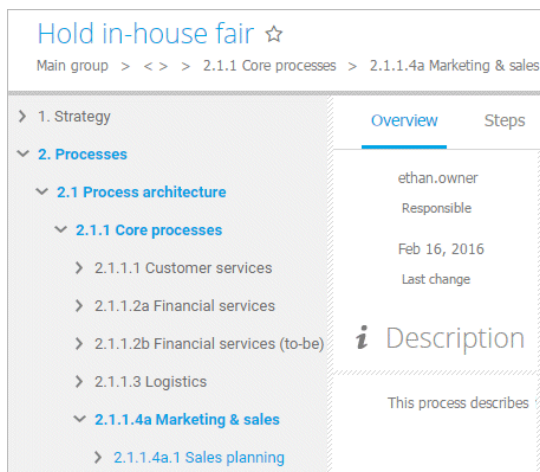
##### Procedure

1. Open a user-defined modification set for editing. (page 298)
2. Click **User interface**.
3. Click **Show advanced settings**.
4. In the **Fact sheets** section, customize the text fonts and colors.
5. Click **Save**.

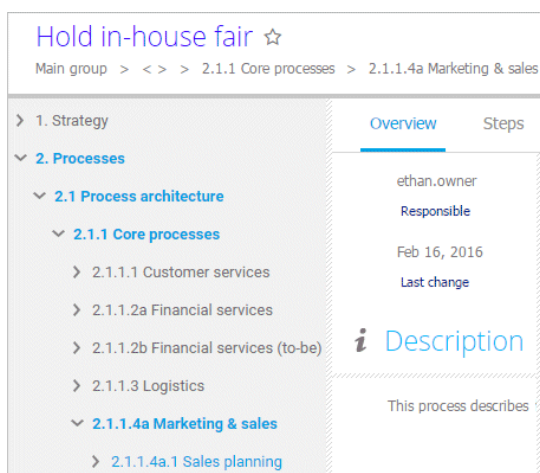
You have changed the text color.

##### Example

Default text colors on **Fact sheets** page:



Customized icons and text on **Fact sheets** page:






### 3.11.1.4.11.2.2 Define layout

For new items (page 299) to be displayed you need to define the position on the overview page where the content is to be shown in the fact sheet.

#### Prerequisite

You have the **Portal administrator** function privilege.

#### Procedure

1. Open a user-defined modification set for editing. (page 298)
2. Click **Fact sheets** on the **Define modification set** page. All items available for fact sheets are displayed.
3. Move the mouse pointer over the item you want to change the overview page for, e.g., **Process**.
4. Click  **Edit**. The **Edit fact sheet** page opens. All subordinate sheets are listed.
5. Ensure that an overview page is added. If this is not the case, click **Add** and select **Overview**.
6. Move the mouse pointer over the **Overview** entry.
7. Click  **Edit**. The **Edit subordinate sheet** page opens. The items in the different areas are displayed.  
If the overview belongs to an item that is in the package and the overview has not yet been edited, the **System** layout is activated.
8. Select the layout of the page. This enables you to specify how the content of the areas is to be arranged.
9. Click **Add** in the areas and select the property to be displayed in the relevant area.  
If a property of the **ItemList** type is displayed in an area, this property can be edited (page 308).
10. Click  **Remove** to delete entries.

The new modification set is created and adjusted.

For the portal to be displayed in this modification set, you need to select (page 297) the new modification set for display.

### 3.11.1.4.11.2.3 Add fact sheet

Edit your own modification sets created based on the classic configuration set (page 610) or the default configuration set (page 610). You cannot edit the classic and the default configuration set.

#### Prerequisite

You have the **Portal administrator** function privilege.

#### Procedure

1. Open a user-defined modification set for editing. (page 298)
2. Click **Fact sheets** on the **Define modification set** page.
3. Click **+ Add fact sheet**. The **Create fact sheet** dialog opens.
4. In the **Source** box, enter the identifier of the item for which information is to be displayed on this fact sheet. You can use only items that have not yet been assigned to another fact sheet.
5. Click **Create**. The fact sheet is created. It includes an overview page by default. The selected item is added to the list. As long as no more item properties are assigned to this page, only the name of the item is displayed in the title bar. The overview itself is empty.
6. Click **← Back**.

The changes are available to users in the portal. To test the changed modification set, select (page 297) it for publishing.

### 3.11.1.4.11.2.4 Edit fact sheet



Edit your own modification sets created based on the classic configuration set (page 610) or the default configuration set (page 610). You cannot edit the classic and the default configuration set.

#### Prerequisite


You have the **Portal administrator** function privilege.

#### Procedure

1. Open a user-defined modification set for editing. (page 298)
2. Click **Fact sheets** on the **Define modification set** page.
3. Move the mouse pointer to the item you want to change, e.g., **Process**.
4. Click **✎ Edit**. The **Edit fact sheet** page opens. All subordinate pages shown on the fact sheet are listed.
5. Click **Add**. The **Add subordinate sheet** dialog opens. All pages you can add are displayed. Typically, the pages **Overview**, **Table**, **RACI**, **Diagram**, **Tasks**, **Documents**, and **Dashboards** of ARIS Aware (page 641) are offered.
6. Select an entry and click **Add**.
7. Specify the contents to be displayed in the fact sheet.
8. Click **Fact sheets** on the **Define modification set** page. All items available for fact sheets are displayed.

9. Move the mouse pointer over the item you want to change the overview page for, e.g., **Process**.
10. Click  **Edit**. The **Edit fact sheet** page opens. All subordinate sheets are listed.
11. Ensure that an overview page is added. If this is not the case, click **Add** and select **Overview**.
12. Move the mouse pointer over the **Overview** entry.
13. Click  **Edit**. The **Edit subordinate sheet** page opens. The items in the different areas are displayed.

If the overview belongs to an item that is in the package and the overview has not yet been edited, the **System** layout is activated.
14. Select the layout of the page. This enables you to specify how the content of the areas is to be arranged.
15. Click **Add** in the areas and select the property to be displayed in the relevant area.

If a property of the **ItemList** type is displayed in an area, this property can be edited (page 308).
16. Click  **Remove** to delete entries.

For the portal to be displayed in this modification set, you need to select (page 297) the new modification set for display.


### 3.11.1.4.11.2.4.1 Add a subordinate sheet to a fact sheet

Edit your own modification sets created based on the classic configuration set (page 610) or the default configuration set (page 610). You cannot edit the classic and the default configuration set.

#### Prerequisite

You have the **Portal administrator** function privilege.

#### Procedure

1. Open a user-defined modification set for editing. (page 298)
2. Click **Fact sheets** on the **Define modification set** page.
3. Move the mouse pointer to the item you want to change, e.g., **Process**.
4. Click  **Edit**. The **Edit fact sheet** page opens. All subordinate pages shown on the fact sheet are listed.
5. Click **Add**.
6. Select a subordinate sheet from the list.
7. Click **Add**.

For the portal to be displayed in this modification set, you need to select (page 297) the new modification set for display.



### 3.11.1.4.11.2.4.2 Remove a subordinate sheet from a fact sheet

Edit your own modification sets created based on the classic configuration set (page 610) or the default configuration set (page 610). You cannot edit the classic and the default configuration set.

#### Prerequisite

You have the **Portal administrator** function privilege.

#### Procedure

1. Open a user-defined modification set for editing. (page 298)
2. Click **Fact sheets** on the **Define modification set** page.
3. Move the mouse pointer to the item you want to change, e.g., **Process**.
4. Click  **Edit**. The **Edit fact sheet** page opens. All subordinate pages shown on the fact sheet are listed.
5. Move the mouse pointer to the subordinate sheet you want to remove, e.g., **Overview**.
6. Click  **Delete**.

For the portal to be displayed in this modification set, you need to select (page 297) the new modification set for display.




### 3.11.1.4.11.2.4.3 Edit a property of ItemList type of the Overview tab

Edit your own modification sets created based on the classic configuration set (page 610) or the default configuration set (page 610). You cannot edit the classic and the default configuration set.

#### Prerequisite

You have the **Portal administrator** function privilege.

#### Procedure

1. Open a user-defined modification set for editing. (page 298)
2. Click **Fact sheets** on the **Define modification set** page.
3. Move the mouse pointer to the item you want to change, e.g., **Process**.
4. Click  **Edit**. The **Edit fact sheet** page opens. All subordinate pages shown on the fact sheet are listed.
5. In the row of an item of the **Overview** item, click  **Edit**. If the overview belongs to an item that is in the package and the overview has not yet been edited, the **System** layout is activated, which cannot be changed.
6. Select a custom layout. If you keep the **System** layout, the properties cannot be changed.
7. Move the mouse pointer over the relevant item of the **ItemList** type and click  **Edit**.
8. Select a custom layout.

The **Table** option displays the items in a table. The first row in the table displays the item name. You can configure the display of additional properties. These appear as additional rows.

The **List** option displays the items that were previously shown in a table or an embedded page as a simple list. In the overview, all properties except the item name are hidden. If you have selected the **List** option and activated the modification set, you cannot switch back to the table modification set.

9. Click  **Back**.

10. Click  **Back**.

For the portal to be displayed in this modification set, you need to select (page 297) the new modification set for display.






### 3.11.1.4.11.2.4.4 Edit a property for a single value of the Overview tab

Edit your own modification sets created based on the classic configuration set (page 610) or the default configuration set (page 610). You cannot edit the classic and the default configuration set.

#### Prerequisite

You have the **Portal administrator** function privilege.

#### Procedure

1. Open a user-defined modification set for editing. (page 298)
2. Click **Fact sheets** on the **Define modification set** page.
3. Move the mouse pointer to the item you want to change, e.g., **Process**.
4. Click  **Edit**. The **Edit fact sheet** page opens. All subordinate pages shown on the fact sheet are listed.
5. In the row of an item of the **Overview** item, click  **Edit**. If the overview belongs to an item that is in the package and the overview has not yet been edited, the **System** layout is activated, which cannot be changed.
6. Select a custom layout. If you keep the **System** layout, the properties cannot be changed.
7. Move the mouse pointer over a property that contains a single value and click  **Edit**. The **Select property template** page is displayed.
8. Enable the **Custom** layout. If you keep the **System** layout, the properties cannot be changed.
9. Select a template from the **Template** list.
10. Optional: Select the label position from the list.
11. Optional: Click **Browse** to select an icon. The icon is displayed in front of the label.
12. Click  **Back**.
13. Click  **Back**.

The preview is displayed in the **Preview** area. For the portal to be displayed in this modification set, you need to select (page 297) the new modification set for display.

To remove the icon from the property, click **Remove**.

### 3.11.1.4.11.2.4.5 Add a dashboard to the Overview item




Edit your own modification sets created based on the classic configuration set (page 610) or the default configuration set (page 610).

You cannot edit the classic and the default configuration set.

#### Prerequisite

You have the **Portal administrator** function privilege.

#### Procedure

1. Open a user-defined modification set for editing. (page 298)
2. Click **Fact sheets** on the **Define modification set** page.
3. Move the mouse pointer to the item you want to change, e.g., **Process**.
4. Click  **Edit**. The **Edit fact sheet** page opens. All subordinate pages shown on the fact sheet are listed.
5. In the **Overview** item, click  **Edit**. If the overview belongs to an item that is in the package and the overview has not yet been edited, the **System** layout is activated, which cannot be altered.
6. Scroll to **Dashboards of section**.
7. Click **Add**.
8. The **Add Dashboard** dialog is displayed.
9. Select a dashboard.
10. Enter a name in the relevant languages.
11. Click **Add**. The dashboard is added to the **Overview** item.
12. Click  **Back**.

For the portal to be displayed in this modification set, you need to select (page 297) the new modification set for display.

### 3.11.1.4.11.2.4.6 Remove a dashboard from the Overview item





Edit your own modification sets created based on the classic configuration set (page 610) or the default configuration set (page 610).

You cannot edit the classic and the default configuration set.

#### Prerequisite

You have the **Portal administrator** function privilege.

#### Procedure

1. Open a user-defined modification set for editing. (page 298)
2. Click **Fact sheets** on the **Define modification set** page.
3. Move the mouse pointer to the item you want to change, e.g., **Process**.
4. Click  **Edit**. The **Edit fact sheet** page opens. All subordinate pages shown on the fact sheet are listed.
5. In the **Overview** item, click  **Edit**. If the overview belongs to an item that is in the package and the overview has not yet been edited, the **System** layout is activated, which cannot be altered.
6. Scroll to **Dashboards of section**.
7. Select a dashboard.
8. Click  **Delete**. The dashboard is removed from the **Overview** item.
9. Click  **Back**.

For the portal to be displayed in this modification set, you need to select (page 297) the new modification set for display.



### 3.11.1.4.11.2.4.7 Add a dashboard to the Diagram item




Edit your own modification sets created based on the classic configuration set (page 610) or the default configuration set (page 610).

You cannot edit the classic and the default configuration set.

#### Prerequisite

You have the **Portal administrator** function privilege.

#### Procedure

1. Open a user-defined modification set for editing. (page 298)
2. Click **Fact sheets** on the **Define modification set** page.
3. Move the mouse pointer to the item you want to change, e.g., **Process**.
4. Click  **Edit**. The **Edit fact sheet** page opens. All subordinate pages shown on the fact sheet are listed.
5. In the **Diagram** item, click  **Edit**.
6. Click **Add**.
7. The **Add Dashboard** dialog is displayed.
8. Select a dashboard.
9. Enter a name in the relevant languages.
10. Click **Add**. The dashboard is added to the **Diagram** item.
11. Click  **Back**.

For the portal to be displayed in this modification set, you need to select (page 297) the new modification set for display.

### 3.11.1.4.11.2.4.8 Remove a dashboard from the Diagram item





Edit your own modification sets created based on the classic configuration set (page 610) or the default configuration set (page 610).

You cannot edit the classic and the default configuration set.

#### Prerequisite

You have the **Portal administrator** function privilege.

#### Procedure

1. Open a user-defined modification set for editing. (page 298)
2. Click **Fact sheets** on the **Define modification set** page.
3. Move the mouse pointer to the item you want to change, e.g., **Process**.
4. Click  **Edit**. The **Edit fact sheet** page opens. All subordinate pages shown on the fact sheet are listed.
5. In the **Diagram** item, click  **Edit**.
6. Select a dashboard.
7. Click  **Delete**. The dashboard is removed from the **Diagram** item.
8. Click  **Back**.

For the portal to be displayed in this modification set, you need to select (page 297) the new modification set for display.

### 3.11.1.4.11.2.4.9 Add a dashboard to the Dashboard item




Edit your own modification sets created based on the classic configuration set (page 610) or the default configuration set (page 610).

You cannot edit the classic and the default configuration set.

#### Prerequisite

You have the **Portal administrator** function privilege.

#### Procedure

1. Open a user-defined modification set for editing. (page 298)
2. Click **Fact sheets** on the **Define modification set** page.
3. Move the mouse pointer to the item you want to change, e.g., **Process**.
4. Click  **Edit**. The **Edit fact sheet** page opens. All subordinate pages shown on the fact sheet are listed.
5. In the **Dashboards** item, click  **Edit**.
6. Click **Add**.
7. The **Add Dashboard** dialog is displayed.
8. Select a dashboard.
9. Enter a name in the relevant languages.
10. Click **Add**. The dashboard is added to the **Dashboards** item.
11. Click  **Back**.

For the portal to be displayed in this modification set, you need to select (page 297) the new modification set for display.

### 3.11.1.4.11.2.4.10 Remove a dashboard from the Dashboard item





Edit your own modification sets created based on the classic configuration set (page 610) or the default configuration set (page 610).

You cannot edit the classic and the default configuration set.

#### Prerequisite

You have the **Portal administrator** function privilege.

#### Procedure

1. Open a user-defined modification set for editing. (page 298)
2. Click **Fact sheets** on the **Define modification set** page.
3. Move the mouse pointer to the item you want to change, e.g., **Process**.
4. Click  **Edit**. The **Edit fact sheet** page opens. All subordinate pages shown on the fact sheet are listed.
5. In the **Dashboards** item, click  **Edit**.
6. Select a dashboard.
7. Click  **Delete**. The dashboard is removed from the **Dashboards** item.
8. Click  **Back**.

For the portal to be displayed in this modification set, you need to select (page 297) the new modification set for display.

### 3.11.1.4.11.3 Edit hierarchies

Edit your own modification sets created based on the classic configuration set (page 610) or the default configuration set (page 610).

#### 3.11.1.4.11.3.1 Create navigation hierarchy

Define your own navigation options for the portal. You can use hierarchies (page 346) to control how portal users can quickly navigate to relevant information. These hierarchies map the relationships between superior and subordinate items.

You can define your own hierarchies for each user-defined modification set.

##### Prerequisite

- You have the **Portal administrator** function privilege.
- If you want to use a root element (page 349), the GUID of the root element must be available on the clipboard.

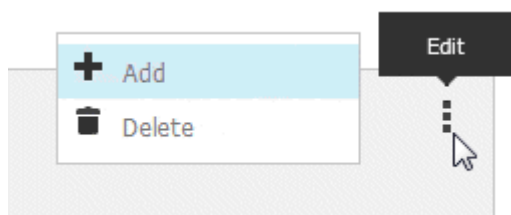
##### Procedure

1. Open a user-defined modification set for editing. (page 298)
2. Click **Hierarchies** on the **Define modification set** page.


All hierarchies defined in this modification set for navigation are displayed. By default, these are the hierarchies from the template from which the user-defined modification set was derived, e.g., **Processes**, **Organizations**, **IT systems**, or **Groups**. You can activate or deactivate these hierarchies marked with **system**, or change the order in which they are displayed in the portal.

Unused hierarchies are shown in strikethrough formatting and are not displayed in the portal.

3. Click **Create**. The Hierarchy Wizard opens.
4. Specify the name for the hierarchy to be displayed in the portal in all languages. This name is shown in the portal as another navigation option. If the name is not specified in a language, it is displayed in English in the portal.
5. Click **Next**. The **Create hierarchy – Specify hierarchy structure** page opens.
6. Click **Select item**. All items that are defined in the modification set are displayed.
7. Select the first item. The item is inserted.
8. Move the mouse pointer over the item and click **Edit**.



9. Click **+ Add**.

10. Click **Select item/property** and select an entry. The second item must be of the same type as the first item. If it is not, a hierarchy cannot be created. The selected property or the item is made subordinate without space. The name of the property of the subordinate item is shown in parentheses.
11. Add further items in the same manner. The hierarchy is symbolized by indents.
12. Click **Finish** if you do not want to insert a root element (page 349). Otherwise click **Next** to insert a root element.
  - a. Click **Add**. The **Add root element** dialog opens.
  - b. Paste the GUID from the clipboard.
  - c. Click **OK**. The GUID of the item is displayed in the list.
  - d. Click **Finish**.
13. Click  **Back**.
14. Activate (page 318) the hierarchy.

The navigation is available to users in the portal. To test the changed modification set, select (page 297) it for publishing.

### 3.11.1.4.11.3.2 Activate navigation hierarchy

Use hierarchies to define the navigation (page **Error! Bookmark not defined.**) in the portal. These hierarchies map the relationships between superior and subordinate items.

You can define your own hierarchies for each user-defined modification set.

#### Prerequisite


You have the **Portal administrator** function privilege.

#### Procedure

1. Open a user-defined modification set for editing. (page 298)
2. Click **Hierarchies** on the **Define modification set** page.

All hierarchies defined in this modification set for navigation are displayed. By default, these are the hierarchies from the template from which the user-defined modification set was derived, e.g., **Processes**, **Organizations**, **IT systems**, or **Groups**. You can activate or deactivate these hierarchies marked with **system**, or change the order in which they are displayed in the portal.

Unused hierarchies are shown in strikethrough formatting and are not displayed in the portal.

3. To display a hierarchy, move the mouse pointer over the row for a deactivated hierarchy and click  **Activate**.

The **Groups** hierarchy from the classic configuration set cannot be combined with any other hierarchy. If the **Groups** hierarchy is activated, all other hierarchies are automatically deactivated. If you activate another hierarchy, the **Groups** hierarchy is automatically hidden.

4. Click  **Back**.

The changed navigation is available to users in the portal. To test the changed modification set, select (page 297) it for publishing.

### 3.11.1.4.11.4 Edit components

You can configure global settings for certain components, e.g., diagrams or steps.


#### 3.11.1.4.11.4.1 Customize diagrams

You can configure global settings for diagrams.

##### Prerequisite

You have the **Portal administrator** function privilege.

##### Procedure

1. Open a user-defined modification set for editing. (page 298)
2. Click **Component** on the **Define modification set** page.
3. Click  **Edit** in the **Diagram** row. The **Edit component** dialog opens.
4. If you want to rename the **Diagram** component, click **Edit** in the **Edit component property** area. The dialog opens.
5. Change the name in the required languages, and click **OK**.
6. Configure the display of diagrams in the **Display options** area.

To begin with, the ARIS Connect default settings are used. As soon as you disable these, you can configure the diagram graphic size and the assignment filter.

You can optionally adjust the representation of a model in the portal to the dimensions of the model, or specify any size for it. For example, if you select **Fit to window**, the zoom factor is selected such that the entire model is displayed. Selecting **Fit width** displays the model so that its full width can be seen.

If you activate the assignment filter, the diagrams show an assignment icon only for objects that have a diagram assigned to them which can also be accessed via the navigation hierarchy. For example, if a user-defined hierarchy includes value-added chains and processes only, the assignment icon is not displayed for functions to which only a model of the Function allocation diagram type is assigned.

To reset the changed component properties and display options to their initial state, click **Restore default settings** and confirm **Restore default settings**.

7. Click  **Back**.

You have configured the diagram on the **Component** tab.







### 3.11.1.4.11.4.2 Customize steps

You can configure global settings for steps.

#### Prerequisite

You have the **Portal administrator** function privilege.

#### Procedure

1. Open a user-defined modification set for editing. (page 298)
2. Click **Component** on the **Define modification set** page.
3. Click  **Edit** in the **Steps** row. The **Edit component** dialog opens. Add or delete properties for processes, functions, and events and define their hierarchy.
4. Optional: Edit the properties of processes, functions, and events.
  - a. Move the mouse pointer over a property that you want to change.
  - b. Click  **Edit**. The **Select property template** page is displayed.
  - c. Enable the **Custom** layout. If you keep the **System** layout, the properties cannot be changed.
  - d. Select a template from the **Template** list.
  - e. Optional: Select the label position from the list.
  - f. Optional: Click **Browse** to select an icon. The icon is displayed in front of the label.
  - g. Click  **Back**.
5. Click  **Back**.

You have configured the steps on the **Component** tab.

### 3.11.1.4.11.4.3 Customize colors for steps

You can customize the text color.

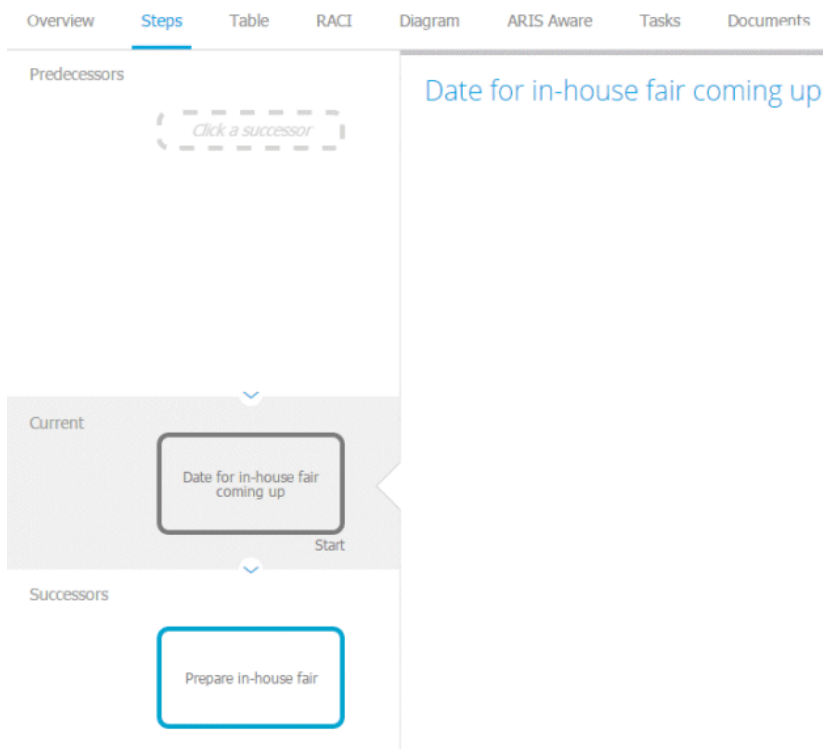
#### Procedure

1. Open a user-defined modification set for editing. (page 298)
2. Click **User interface**.
3. Click **Show advanced settings**.
4. In the **Steps** section, customize the colors.
5. Click **Save**.

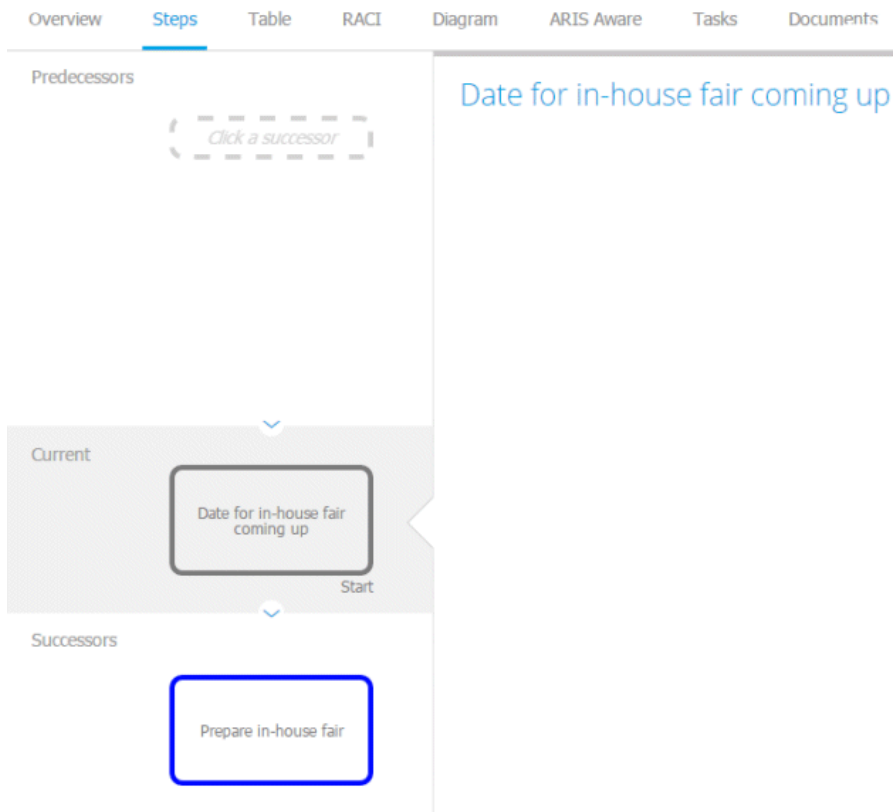
You have changed the text color.

#### Example

Default colors on **Steps** page:



Customized colors on **Steps** page:



### 3.11.1.4.11.5 Edit Home

Customize the start page (**Home**) of the portal.

#### 3.11.1.4.11.5.1 Customize icons and text

You can customize the icon color and size as well as the text color.

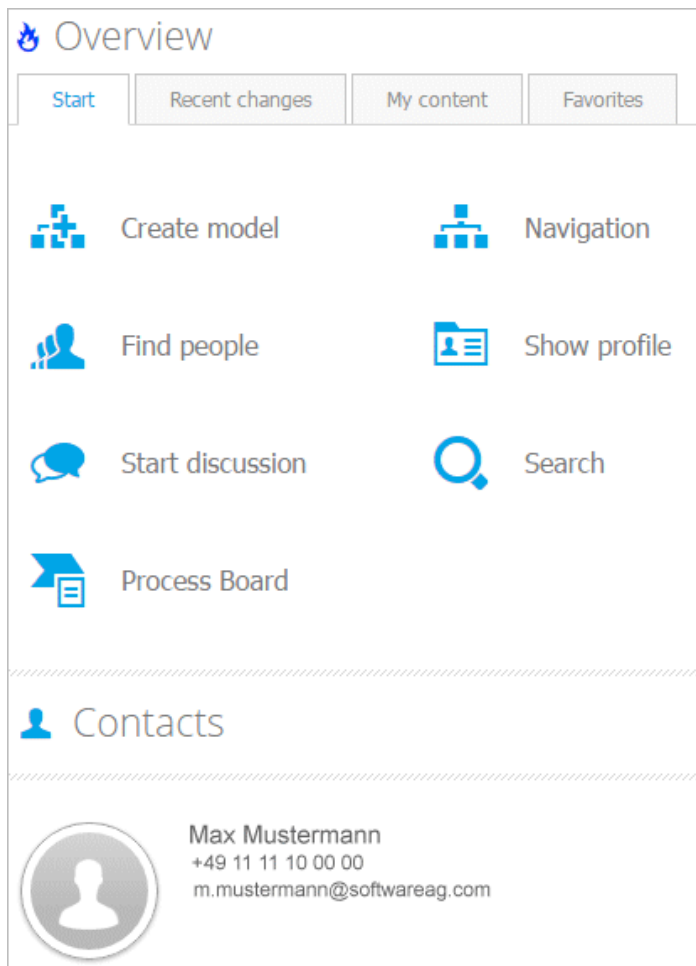
##### Procedure

1. Open a user-defined modification set for editing. (page 298)
2. Click **User interface**.
3. Click **Show advanced settings**.
4. In the **Home** section, customize the icon color and size as well as the text color.
5. Click **Save**.

You have changed the icon color and size as well as the text color.

##### Example








Default icons and text on **Home** page:



Customized icons and text on **Home** page:

### Overview


[Start](#) [Recent changes](#) [My content](#) [Favorites](#)

	Create model		Navigation
	Find people		Show profile
	Start discussion		Search
	Process Board		

---

### Contacts

---



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### 3.11.1.4.11.5.2 Change layout

Define your own layout for the portal. You can select layouts with one, two, or three columns.

#### Prerequisite

You have the **Portal administrator** function privilege.

#### Procedure

1. Open a user-defined modification set for editing. (page 298)
2. Click **Home** on the **Define modification set** page.  
By default, the **System** layout is activated which cannot be altered. The components that are initially displayed in the **Home** view appear below the layout options.
3. Select the relevant layout. You are offered more detailed configuration options depending on the layout you select.
4. Define the size and appearance of the areas. If you specify the size of the areas in percent, all areas of the **Home** view will become smaller when the size of the browser window is reduced. If you specify the size in pixels, only one area may vary. You must explicitly indicate which area this is. The sizes of the other areas can be freely selected.

To begin with, the areas of a user-defined layout are empty.

Click **Add** to select components that are to be displayed on the **Home** page.

5. Click the arrow keys to specify the order of the components.
6. Click **← Back**.

The new layout is available to users in the portal. To test the changed modification set, select (page 297) it for publishing.

### 3.11.1.4.11.5.3 Add 'Contacts' component

Define your own layout for the portal. You can add contacts.

#### Prerequisite

You have the **Portal administrator** function privilege.

#### Procedure

1. Open a user-defined modification set for editing. (page 298)
2. Click **Home** on the **Define modification set** page.
3. Click **Add** in the relevant area. The **Add component** dialog opens.
4. Click the **Component** box and then click **Contacts**.
5. Click **Add**.

The contacts are now displayed on the **Home** page. To test the changed modification set, select (page 297) it for publishing.



### 3.11.1.4.11.5.4 Add 'Diagram' component

Define your own layout for the portal. You can configure the appearance of diagrams.

#### Prerequisite

- You have the **Portal administrator** function privilege.
- You have copied the item identifier (page 327) to the clipboard.

#### Procedure


1. Open a user-defined modification set for editing. (page 298)
2. Click **Home** on the **Define modification set** page.
3. Click **Add** in the relevant area. The **Add component** dialog opens.
4. Click the **Component** box and then click **Diagram**.
5. Click **Add**.
6. Click  **Edit** in the **Diagram** row. The **Edit diagram** dialog opens.
7. Specify the name of the diagram in the various languages. You can display more languages.
8. Click  **Add new start item** to define a model for the **Home** page. The **Add item identifier** dialog opens. Enter an identifier for a model, e.g., **c.group.UnitedMotorGroup.SnE94FOCEeMP2v2B6YbX4g**.
9. Double-click **OK**.

The configured diagrams are now displayed on the **Home** page of the database. To test the changed modification set, select (page 297) it for publishing.

### 3.11.1.4.11.5.5 Find item identifier

You can find item identifiers for diagrams so that diagrams can be displayed on the ARIS Connect **Home** page.

#### Procedure

1. Start ARIS Connect.
2. Click  **Portal**.
3. Select the database in which the relevant diagram is stored.
4. Click **Groups**.
5. Navigate to the required diagram and click it. The model is displayed.
6. In the address bar of your browser, select the last part of the URL, immediately after the entry **item/**.
7. Copy the selected text to the clipboard by pressing **Ctrl + C**.

You can use the item identifier of this diagram (page 326) to configure the **Home** page.

#### Tip

If you want to configure multiple diagrams later, it is recommended to copy the various identifiers into a text file, and then copy them into the configuration from there.

#### Example

 server:1080/#default/item/c.default.UnitedMotorGroup.vyqdYHy4EdwnKQALzQzOTg



### 3.11.1.4.11.5.6 Add 'My content' component

Define your own layout for the portal. You can create a **My content** area.

In the **System** default configuration, information is displayed in the **My content** area regarding the processes in which a function that is connected to a role or via a function allocation diagram is modeled. The user currently logged in must have been specified in this role in the **User/User group association** attribute.

#### Prerequisite

You have the **Portal administrator** function privilege.

#### Procedure

1. Open a user-defined modification set for editing. (page 298)
2. Click **Home** on the **Define modification set** page.
3. Click **Add** in the relevant area. The **Add component** dialog opens.
4. Click the **Component** box and then click **My content**.
5. Click **Add**.

The **My content** item is now displayed on the **Home** page. To test the changed modification set, select (page 297) it for publishing.


### 3.11.1.4.11.5.7 Add 'Recent changes' component

Define your own layout for the portal. You can create a **Recent changes** area. You can also define another name for this area. Moreover, the languages, the number of changes displayed, and a time interval for changes can also be configured.

#### Prerequisite

You have the **Portal administrator** function privilege.

#### Procedure

1. Open a user-defined modification set for editing. (page 298)
2. Click **Home** on the **Define modification set** page.
3. Click **Add** in the relevant area. The **Add component** dialog opens.
4. Click the **Component** box and then click **Recent changes**.
5. Click **Add**.
6. Click  **Edit** in the **Recent changes** row. The **Edit recent changes** dialog opens. Configure the name, the languages, the number of changes displayed, and a time interval for changes.
7. Click **OK**.

The recent changes are now displayed on the **Home** page. To test the changed modification set, select (page 297) it for publishing.



### 3.11.1.4.11.5.8 Add and configure 'App gallery' component

Define your own layout for the portal. You can configure an **App gallery** area, in which you provide references to apps.

#### Prerequisite

You have the **Portal administrator** function privilege.

#### Procedure

1. Open a user-defined modification set for editing. (page 298)
2. Click **Home** on the **Define modification set** page.
3. Click **Add** in the relevant area. The **Add component** dialog opens.
4. Click the **Component** box and then click **App gallery**.
5. Click **Add**.
6. Click  **Edit** in the **App gallery** row. The **Edit app gallery** dialog opens.
7. Enter a name for the gallery in the various languages.
8. Click **Browse** to select a background image for the app gallery. The background image must not be bigger than 256 KB.
9. By default, all preconfigured apps are already in the app gallery and the **Add** button is disabled. Move the mouse pointer to the app you want to delete and click  **Delete**. You can make a deleted app accessible in the app gallery again.
10. Click **Add** if you want to display a preconfigured app you had removed before.  
Click **New** to add a new app.
11. Change the order of the apps by clicking the up or down arrow.
12. Click **OK**.

The configured apps are now displayed on the **Home** page. To test the changed modification set, select (page 297) it for publishing.

### 3.11.1.4.11.5.9 Add new app to gallery


Define your own layout for the portal. You can configure an **App gallery** area, in which you provide references to apps.

#### Prerequisite

You have the **Portal administrator** function privilege.

#### Procedure

1. Open a user-defined modification set for editing. (page 298)
2. Click **Home** on the **Define modification set** page.
3. Click **Add** in the relevant area. The **Add component** dialog opens.
4. Click the **Component** box and then click **App gallery**.
5. Click **Add**.

6. Click  **Edit** in the **App gallery** row. The **Edit app gallery** dialog opens.
7. Enter a name for the gallery in the various languages.
8. Click **New** to add a new app. The **Add app** dialog opens.
9. Enter the name in the various languages.
10. Enter the URL under which the app can be found. Enter the entire URL in the form **http://<server>:<port>/<app path>**.
11. Enable **In a new tab** if the app is to be displayed on a new tab in the browser.
12. Select a symbol for the app.
13. Double-click **OK**.
14. Change the order of the apps by clicking the arrow keys.

The configured apps are now displayed on the **Home** page. To test the changed modification set, select (page 297) it for publishing.


### 3.11.1.4.11.5.10 Add external web page

Define your own layout for the **Home** page of the portal. You can add an external web page, e.g., your company's home page.

#### Prerequisite

You have the **Portal administrator** function privilege.

#### Procedure

1. Open a user-defined modification set for editing. (page 298)
2. Click **Home** on the **Define modification set** page.
3. Click **Add** in the relevant area. The **Add component** dialog opens.
4. Click the **Component** box and then click **IFrame**.
5. Click **Add**.
6. Click  **Edit** in the **IFrame** row. The **Edit IFrame** dialog opens.
7. Enter the name in the various languages.
8. Enter the entire IFrame URL in the form **http://<server>:<port>/<web page>**.
9. Click **OK**.

The configured IFrame item is now displayed on the **Home** page. To test the changed modification set, select (page 297) it for publishing.

### 3.11.1.4.11.5.11 Add 'My activities' component

Define your own layout for the portal. You can add an overview of your activities.

#### Prerequisite

You have the **Portal administrator** function privilege.

#### Procedure

1. Open a user-defined modification set for editing. (page 298)
2. Click **Home** on the **Define modification set** page.
3. Click **Add** in the relevant area. The **Add component** dialog opens.
4. Click the **Component** box and then click **My activities**.
5. Click **Add**.

The **My activities** component is now displayed on the **Home** page. To test the changed modification set, select (page 297) it for publishing.

### 3.11.1.4.11.6 Edit user interface

As a portal administrator, you customize the user interface.

#### 3.11.1.4.11.6.1 Customize font and colors

Customize the settings according to the corporate design of your company.

##### **Prerequisite**

You have the **Portal administrator** function privilege.

##### **Procedure**

1. Open a user-defined modification set for editing. (page 298)
2. Click **User interface**.
3. Click **Customize font and color**.
4. Specify the required settings.
5. Click **Save**.

The changes are applied. The page is refreshed if the modification set was specified as **active**.

### Example

Default font and colors:

← Back **Classic\_customize** – Define view

Items   Fact sheets   Hierarchies   Components   Home   **User interface**

**Customize font and color**  
 Language selection  
 Logo

## Customize color and font

Basic settings

Titles	<input checked="" type="checkbox"/>
Titles font	"Roboto Light", "Roboto", "HelveticaNeue..
Content text	<input checked="" type="checkbox"/>
Content text font	Roboto, Geneva, sans-serif
Highlighting	<input checked="" type="checkbox"/>
Application background	<input type="checkbox"/>
Content background	<input type="checkbox"/>
Links	<input checked="" type="checkbox"/>
Icons	<input checked="" type="checkbox"/>





Show advanced settings

Save   Cancel   Restore defaults

## Views

---

classic (System) (active)

biks\_classic (Modification set of classic)     

default (System)

defaultSAP (Directory)

---

Customized font and color:





← Back **Classic\_customize** - Define view

Items Fact sheets Hierarchies Components Home User interface

**Customize font and color**  
Language selection  
Logo

**Customize color and font**

*Basic settings*





Titles	
Titles font	"MV Boli"
Content text	
Content text font	"MV Boli"
Highlighting	
Application background	<input type="checkbox"/>
Content background	<input type="checkbox"/>
Links	
Icons	

*Show advanced settings*

Save Cancel Restore defaults

## Views

classic (System)

Classic\_customize (Modification set of classic) (active)    

default (System)

### 3.11.1.4.11.6.2 Restore default font and color

You can undo all font, color, and logo settings you have specified.

#### Prerequisite

You have the **Portal administrator** function privilege.

#### Procedure

1. Open a user-defined modification set for editing. (page 298)
2. Click **User interface**.
3. Click **Customize font and color**.
4. Click **Restore defaults**.
5. Click **Save**.

The default settings are loaded. The page is refreshed if the modification set was specified as **active**.

### 3.11.1.4.11.6.3 Select languages

Customize the settings according to the requirements of your company.

#### Prerequisite

You have the **Portal administrator** function privilege.

The selected languages are available as the interface, method, and database language (page 343).

#### Procedure

1. Open a user-defined modification set for editing. (page 298)
2. Click **User interface**.
3. Click **Select language**.
4. In the **Current language** list, select the languages you do not require, and then click **Deactivate**. The languages are added to the **More languages** list.
5. In the **More languages** list, select the languages you require, and then click **Activate**. The languages are added to the **Current language** list.
6. Click **Apply**.

The activated languages are available for selection by ARIS Connect users.



### 3.11.1.4.11.6.4 Upload logo

Select the graphics file you want to display as the logo.

#### Prerequisite

- You have the **Portal administrator** function privilege.
- You have access to a graphic file in PNG format.

#### Procedure

1. Open a user-defined modification set for editing. (page 298)
2. Click **User interface**.
3. Click **Insert logo**.
4. Click **Browse** next to the **Logo** field, and navigate to the required PNG file.
5. Click **Open**.

The graphic is uploaded. It is shown in the header of ARIS Connect portal.

### 3.11.1.4.11.6.5 Restore default logo

You can undo all font, color, and logo settings you have specified.

#### Prerequisite

You have the **Portal administrator** function privilege.

#### Procedure

1. Open a user-defined modification set for editing. (page 298)
2. Click **User interface**.
3. Click **Insert logo**.
4. Click **Restore**.

The default logo is loaded and the page is refreshed.

### 3.11.1.4.11.6.6 Advanced customization

#### 3.11.1.4.11.6.6.1 Customize the header

You can customize the header background color, as well as text and highlighting color.

##### Procedure

1. Open a user-defined modification set for editing. (page 298)
2. Click **User interface**.
3. Click **Show advanced settings**.
4. In the **Header** section, customize the header background color, and text and highlighting color.
5. Click **Save**.

You have changed the header.

##### Example

Default header:



Header with green background, light yellow highlighting and yellow ochre text:



### 3.11.1.4.11.6.6.2 Customize ARIS Process Board

You can customize the logo, as well as the logo height and width of ARIS Process Board.

#### Procedure

1. Copy the new logo to **<installation directory>\server\bin\work\work\_apg\_s\base\webapps\processboard\tasklist**, e.g.,  
**C:\SoftwareAG\ARIS10\server\bin\work\work\_apg\_s\base\webapps\processboard\tasklist.**
2. Open a user-defined modification set for editing. (page 298)
3. Click **User interface**.
4. Click **Show advanced settings**.
5. Scroll down to **Process Governance**.
6. Enter the name of the new logo.
7. Enter the height of the new logo in pixels.
8. Enter the width of the new logo in pixels.
9. Click **Save**.

You have changed the logo of ARIS Process Board.

### 3.11.1.4.11.6.6.3 Customize the sidebars

You can customize the background color of the sidebars.

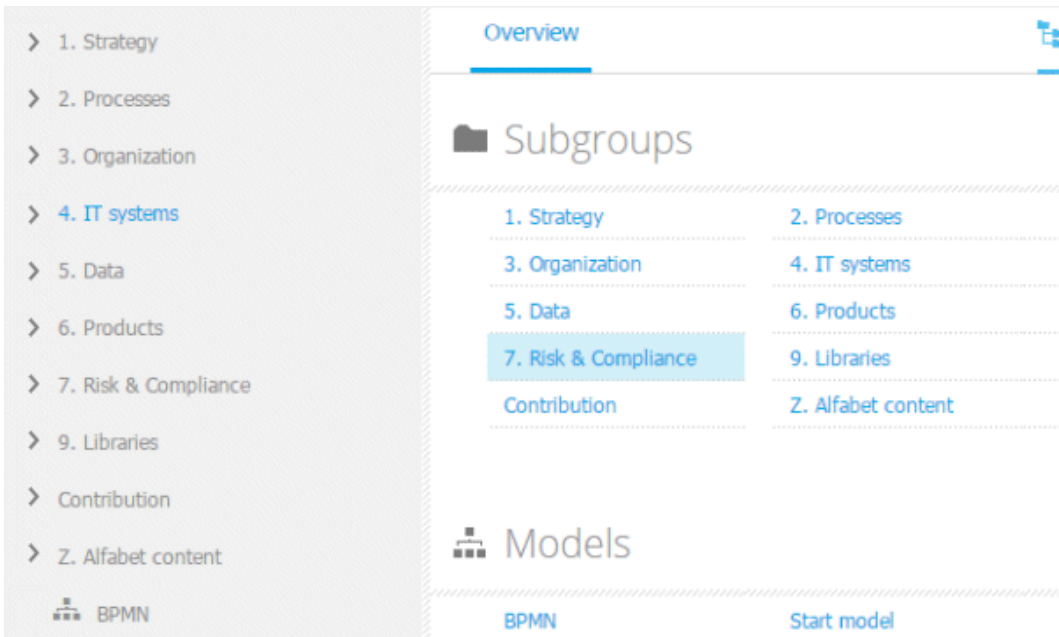
#### Procedure

1. Open a user-defined modification set for editing. (page 298)
2. Click **User interface**.
3. Click **Show advanced settings**.
4. In the **sidebars** section, customize the sidebar background color.
5. Click **Save**.

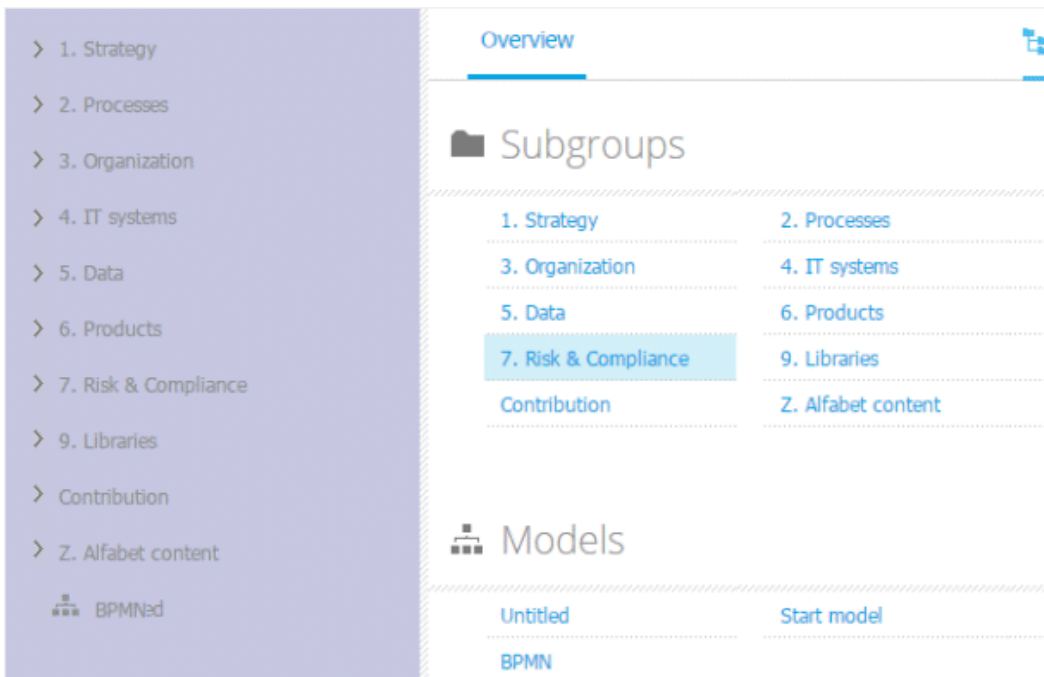
You have changed the left and right sidebar.

**Example**

Default sidebar:



Sidebar with light blue background:



### 3.11.1.4.11.6.6.4 Customize buttons

You can customize the buttons.

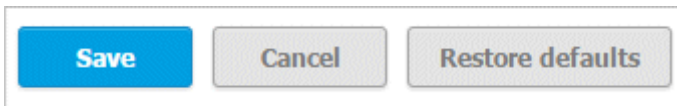
#### Procedure

1. Open a user-defined modification set for editing. (page 298)
2. Click **User interface**.
3. Click **Show advanced settings**.
4. In the **Buttons** section, customize the button colors and shapes.
5. Click **Save**.

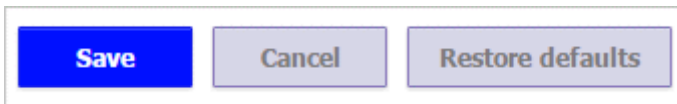
You have changed the button colors and shapes.

#### Example

Default buttons:



Customized buttons:



### 3.11.1.4.11.7 Edit plugins

As a portal administrator, you customize the plugins. Portal administrators select the configuration set to show portal data. The way you are able to navigate through the data is determined by the hierarchies.

By default, ARIS Connect provides the classic configuration set (page 610) and the default configuration set (page 610) as examples. If you want to use plugins in the portal, you need extended configuration sets with plugins enabled that you cannot configure in ARIS Administration, please contact your local Software AG sales organization (<http://softwareag.com>).


### 3.11.1.4.11.7.1 Activate a plugin

You can activate a plugin predefined in a configuration set.

#### Prerequisite

- You have the **Portal administrator** function privilege.
- You have a customized configuration that allows plugins.
- You have created a customized modification (page 295) set based on the customized modification set that allows plugins.

#### Procedure

1. Open a user-defined modification set that allows plugins for editing. (page 298)
2. Click **Plugins** on the **Define modification set** page.
3. Click  **Activate**.

The plugin is active. The configuration set (page 289) defines the view where the plugin is displayed.


### 3.11.1.4.11.7.2 Disable a plugin

You can activate a plugin predefined in a configuration set.

#### Prerequisite

- You have the **Portal administrator** function privilege.
- You have a customized configuration that allows plugins.
- You have created a customized modification (page 295) set based on the customized modification set that allows plugins.

#### Procedure

1. Open a user-defined modification set that allows plugins for editing. (page 298)
2. Click **Plugins** on the **Define modification set** page.
3. Click  **Deactivate**.

The plugin is disabled.

### 3.11.1.4.11.8 Delete modification set

Delete modification sets that are no longer needed.


#### Prerequisite

You have the **Portal administrator** function privilege.

#### Warning

The configurations of deleted modification sets will be lost.

#### Procedure

1. Click the arrow next to your user name.
2. Click **Administration**.
3. Click **Portal > Manage views** on the **Configuration** tab. All available configuration and modification sets are displayed. The current configuration or modification set is marked.
4. Move the mouse pointer over the relevant modification set.
5. Click  **Delete**.  
The configurations of deleted modification sets will be lost.
6. Click **Delete** to confirm.

The modification set is deleted.

### 3.11.1.4.11.9 Valuable information

This section provides background information to assist you in carrying out the relevant procedures.

#### 3.11.1.4.11.9.1 What are the special features in terms of languages?

You can select all languages (page 335) that ARIS supports. When a user selects a language, they specify which interface, method, and database language is used. Ideally, these are available in the selected language. If a language is not available, the procedure is as follows.

##### INTERFACE LANGUAGE IS NOT AVAILABLE IN SELECTED LANGUAGE

Available interface languages are installed.

If you have selected the language **Quechua (Bolivia)** and this language is not available as the interface language, the interface items, e.g., the links, are displayed in English.

##### METHOD LANGUAGE IS NOT AVAILABLE IN SELECTED LANGUAGE

The interface language is used.

For example, if you have selected the language **Quechua (Bolivia)** and this language is not available, model, object, and attribute names are displayed in English if you have selected English as the interface language.

##### DATABASE LANGUAGE IS NOT AVAILABLE IN SELECTED LANGUAGE

The alternative language for the database is used.

For example, if you have selected the language **Quechua (Bolivia)** and this language is not available, all entries you specify for attributes are added in the English database language if you have selected English as the alternative language. In Model Editor, for example, the current database language is displayed after the model name using a language code.

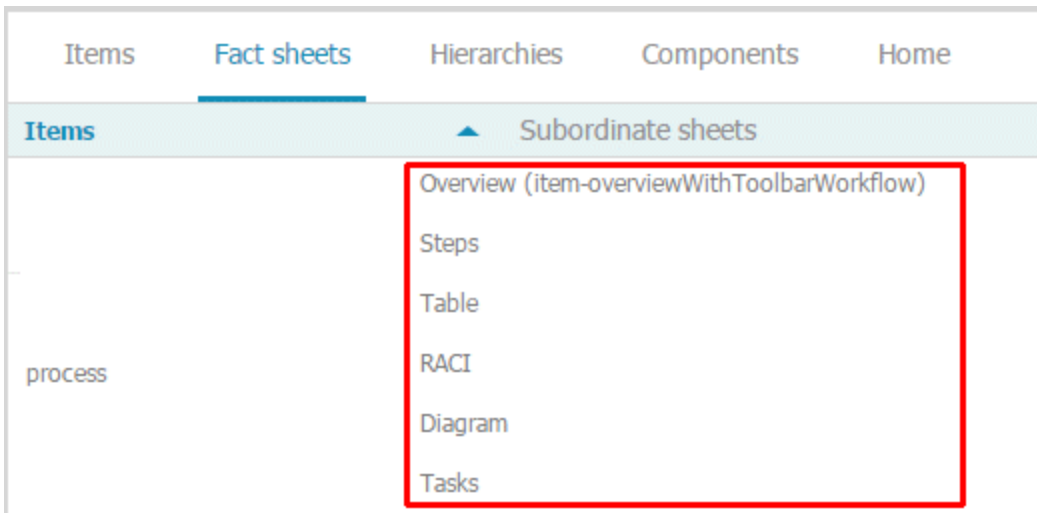


### 3.11.1.4.11.9.2 What can be configured in fact sheets?

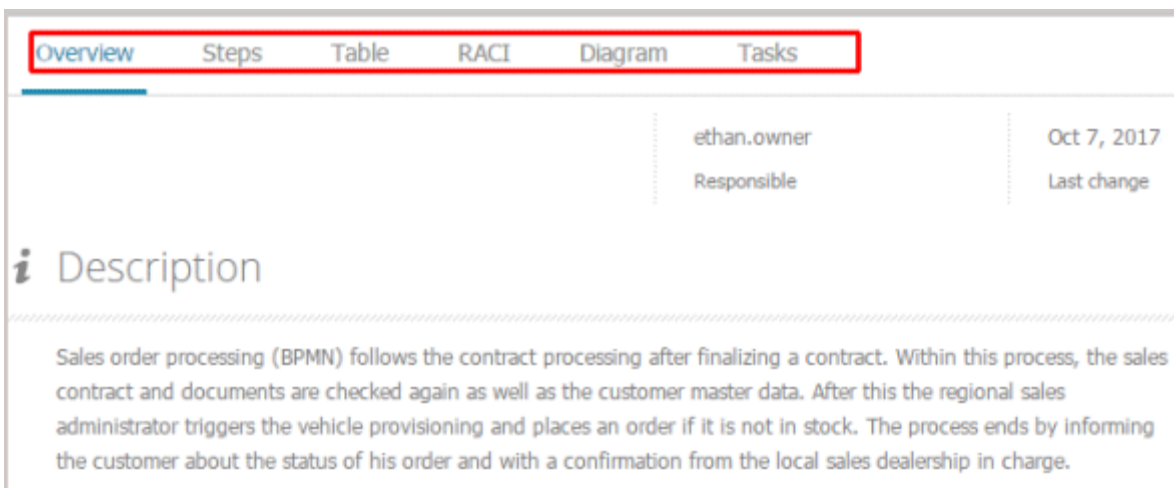
Using fact sheets, you configure how the pages are displayed that open when you click a process in the navigation. The fact sheet for a process includes the subordinate pages you defined in the fact sheet configuration (page 306).

#### Example

The subordinate pages shown are configured for a process:



The result of configuring the fact sheet for a process looks like this:



### 3.11.1.4.11.9.3 What property templates exist?

There are four different templates for properties:

- Text (value\_meta\_text)  
This template is used for attribute values that is text.
- E-Mail (value\_meta\_email)  
This template is used for attribute values that is text.
- Link (value\_meta\_link)  
This template is used for attribute values that are links.
- Image (value\_meta\_image)  
This template is used for attribute values that are images or links to images.

You can configure a label and/or an icon for each template can. The icon is displayed in front of the label.

### 3.11.1.4.11.9.4 What does the navigation hierarchy define?

Using the navigation hierarchy, you define the navigation options for the portal. The example shows the configuration of the hierarchy for a group.

The second item must be of the same type as the first item. If it is not, a hierarchy cannot be created. Items of the same type are arranged without space.

#### Example

Subgroups and processes are configured for the group:

Edit dialog – Specify hierarchy structure

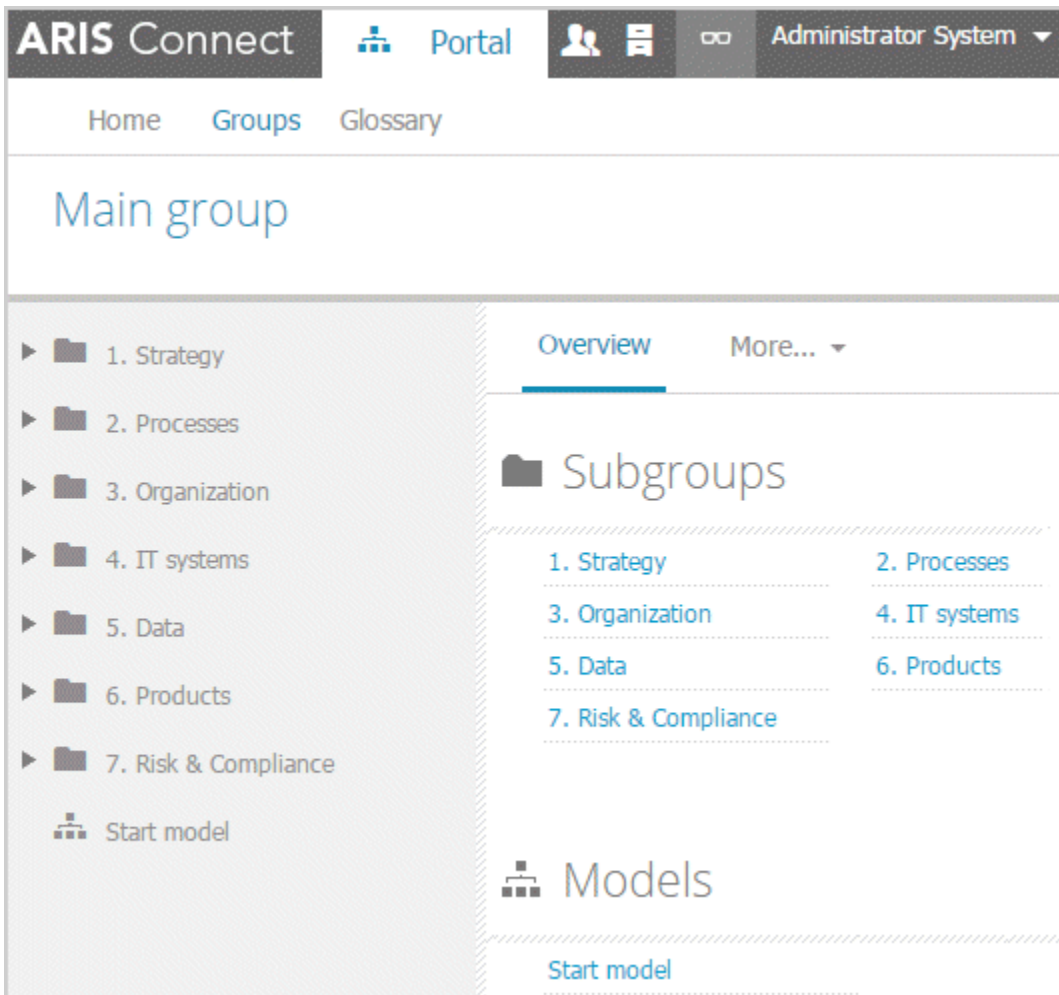
Define relationships to superior and subordinate items.

- Group  
Superior: | Group
- Group (Subgroups)
- Value-added chain (Models )  
Superior: | Group
- Default (Models )  
Superior: | Group
- Process (Models )  
Superior: | Group
- IT landscape (Models )

Step 2 ● ● ●

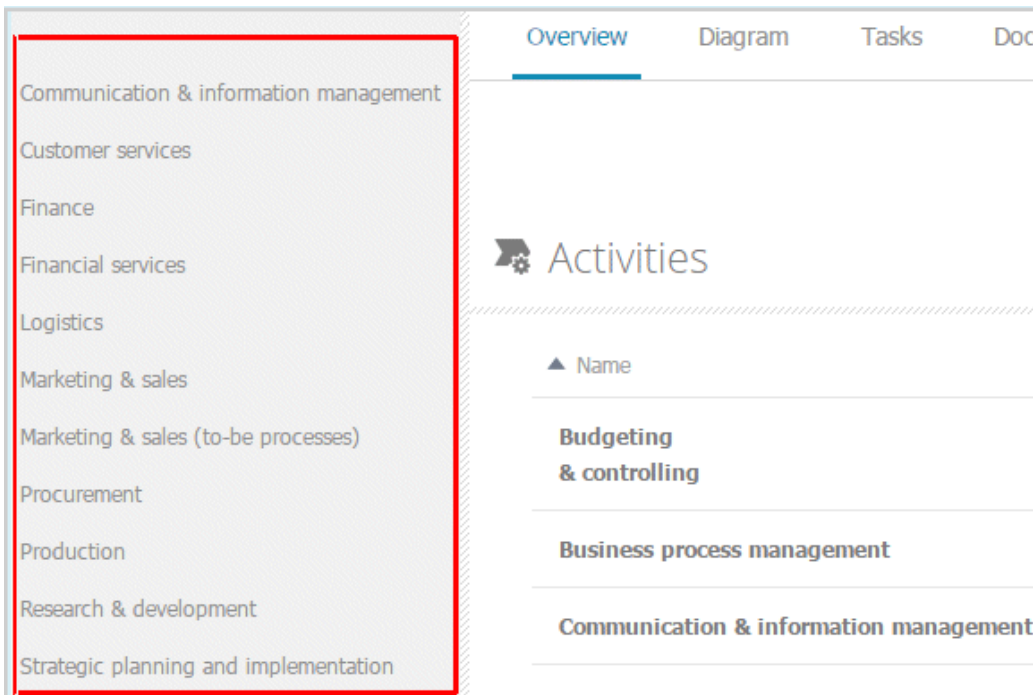
Back Next Finish Cancel

The result looks like this in the portal:

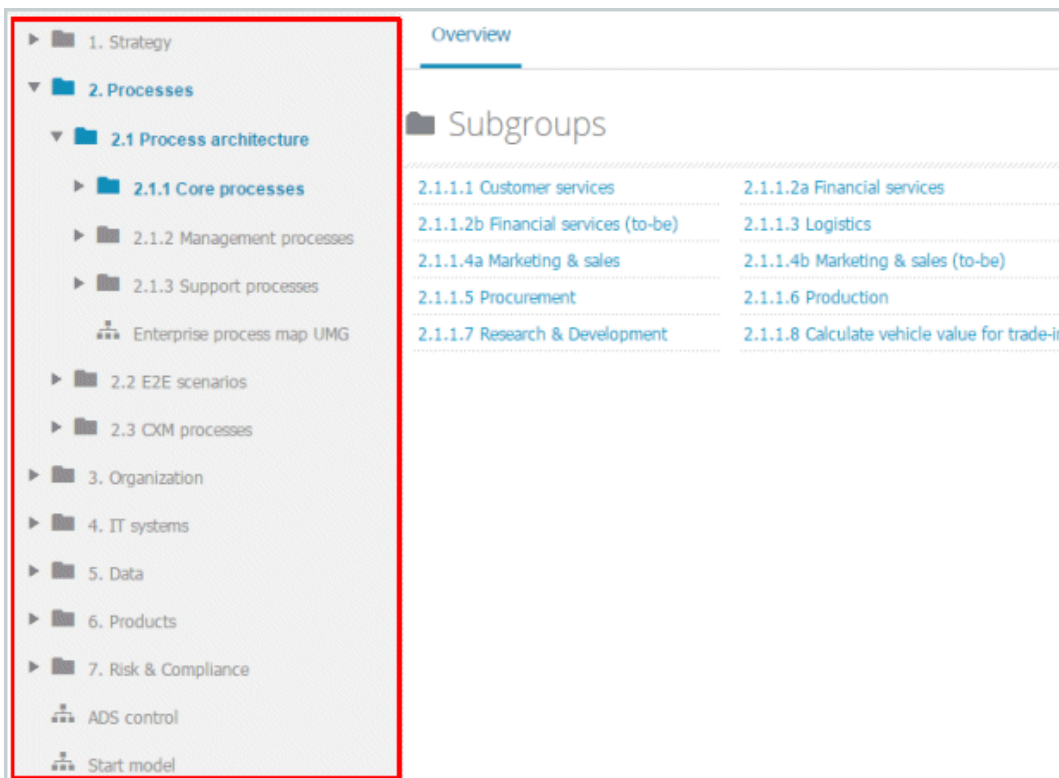


### 3.11.1.4.11.9.5 What to remember regarding hierarchies

Hierarchies define the way in which portal users receive relevant information. Hierarchies that are based on the **default** template have only one level.



Hierarchies that are based on the **classic** template have multiple levels, and you can expand and collapse groups.



From a technical perspective, a hierarchy always has a tree structure and is level-based. A level can be made up of models, objects, or groups. It may contain a superior item and multiple subordinate items. In contrast, a level can have multiple subordinate items.

You can use multiple hierarchy definitions in a hierarchy configuration. For example, you can specify the following hierarchy definitions in a configuration:

Navigation in process models (value-added chain diagrams, EPCs, and function allocation diagrams), navigation in the organization (organizational charts, organizational units, roles, and groups), and navigation in the IT systems within an organization.

### **3.11.1.4.11.9.6 What is a hierarchy root element?**

A root element is the model or object that is used as the top-level element in the hierarchy (page 316) you have defined. This element is displayed when you open the hierarchy in the portal.

If you want to use a specific item from an ARIS database as the top-level hierarchy element, e.g., a specific model or object, this must be defined as the root element. You require the GUID, which you can copy from the Properties dialog for the model or object in ARIS Architect, for example.

### 3.11.1.4.11.9.7 What is ARIS Viewer Contribution?

If you have both the **ARIS Connect Viewer** and **Contribution** license privilege, you are able to change items and values for the following predefined items in the portal. 'Predefined' means that these items and their values were configured to be editable in the program by default.

This means that not all items of the following model and object types can be changed. Only those can be changed that were designed to be editable by the underlying concept and were set up accordingly by the configuration.

Please note that this is a sample configuration, which means that other items may have been configured to be editable in your installation.

#### MODEL TYPES

- Application system type diagram
- BPMN collaboration diagram (BPMN 2.0)
- BPMN process diagram (BPMN 2.0)
- Business controls diagram
- Enterprise BPMN collaboration diagram
- Enterprise BPMN process diagram
- EPC
- EPC (material flow)
- EPC (column display)
- EPC (table display)
- EPC (horizontal table display)
- EPC (row display)
- Function allocation diagram
- Organizational chart
- Process schedule
- Risk diagram
- KPI allocation diagram

#### OBJECT TYPES

- Application system
- Application system class
- Application system type
- Cluster/Data model
- Entity type
- Event
- Technical term
- Function

- Information carrier
- KPI instance
- Class
- Lane
- List
- Message
- Organizational unit
- Participant
- Person
- Risk
- Risk category
- Role
- Location
- Position
- System organizational unit
- System organizational unit type
- Test definition

## ATTRIBUTES

ARIS Viewer Contribution enables you to edit attributes (page 590) that are based on the following base types:

- Boolean
- Value
- Floating point number domain
- Integer domain
- Floating point number
- Integer
- Date
- One-liner
- Multi-line text
- Link/File

Text formatting is ignored and cannot be assigned. If you are expected to enter numbers, the field is colored red (page 590) if you do not enter a numerical value.

Please note that combined attributes and Binary Large Object (BLOB) attributes are not supported.



### 3.11.1.4.11.9.8 What are plugins?

A plugin is a software extension or an optional module that exceeds the functionality of ARIS Connect. Plugins cannot run without the main software they are integrated in.

If you want to use plugins in the portal, you need extended configuration sets with plugins enabled that you cannot configure in ARIS Administration, please contact your local Software AG sales organization (<http://softwareag.com>).

Plugins that can be used together with ARIS Connect must be written in Java Script and must have a valid signature. This signature is generated by Software AG and must be copied to the server.

### 3.11.1.4.11.9.9 What states exist for plugins?

A plugin can have the following states:

- Active  
The plugin can be used.
- Disabled  
The plugin was manually disabled.
- Development  
The plugin has no signature or the signature is not correct and the plugin is not older than two weeks.
- Invalid  
The plugin has no signature or the signature is not correct for more than two weeks.

## 3.11.2 Set up user management

You can customize general settings of your system's user management.



### 3.11.2.1 Export configuration

You can export configurations in order to import them into any tenant or installation and use them there. Only changed properties will be exported. Also, cross-tenant properties will not be exported as they cannot be changed using the graphical user interface.

#### Prerequisite

- You have the **Technical configuration administrator** function privilege.
- You have allowed pop-ups for the pages of ARIS Administration.

#### Procedure

1. Start ARIS Connect.
2. Click your user name and select **Administration**.
3. Click the  **Configuration** tab.
4. Click **User management**.
5. Click  **Export current configuration as a file**.

You can save the configuration file at the relevant location for further use.



### 3.11.2.2 Import configuration

You can import configurations, which were, for example, exported from a different tenant, into any tenant or installation and use them there.

#### Prerequisite

You have the **Technical configuration administrator** function privilege.

#### Procedure

1. Start ARIS Connect.
2. Click your user name and select **Administration**.
3. Click the  **Configuration** tab.
4. Click **User management**.
5. Click  **Import configuration file**.

The **Import configuration file** dialog opens. Navigate to the location where the configuration file is stored and import it. The new configuration is active immediately and no system restart is required.




### 3.11.2.3 Configure user for impersonation

Impersonation enables a user to assume another user account. The user can then perform operations that are actually only permitted for the other account. This configuration must be set for each tenant.

#### Prerequisite

You have the **Technical configuration administrator** function privilege.

#### Procedure

1. Log in to User Management.  
Click the link that was provided to you or that you have saved as a bookmark in your browser, e.g., **http://myServer:1080/#myTenant/adminUsers**. The **Log in** dialog opens.
2. Enter the name of the infrastructure tenant in the  **Tenant** field, e.g., **master**.
3. Enter your user name and your password.
4. Click the user for which you want to allow impersonation.
5. Click **Privileges**. The list of function privileges is displayed.
6. Click the user for which you want to allow impersonation.
7. Activate the **Impersonation** function privilege.
8. Log out.
9. Log in (page 10) to ARIS Connect.
10. Click the arrow next to your user name, and select **Administration**.
11. Click the  **Configuration** tab.
12. Click **User management**.
13. Click the arrow next to **Users**.
14. Click **General**.
15. Click  **Edit**.
16. Click in the **Impersonation target users** field.
17. Enter the users for which you want to allow impersonation as a comma-separated list.

#### Warning

If the ARIS server was updated, make sure to reenter the user names for all operational tenants in the **Impersonation target users** field again.

18. Click  **Save**.

You have allowed users to use impersonation.

### 3.11.2.4 Customize infrastructure


You can customize general settings of your system infrastructure, for example, format of e-mail in HTML.

You can customize your system configuration as required. You carry out this part of the configuration in ARIS Administration.

#### Prerequisite

You have the **Technical configuration administrator** function privilege.

#### Procedure

1. Start ARIS Connect.
2. Click your user name and select **Administration**.
3. Click the  **Configuration** tab.
4. Activate **User Management**.
5. Click the arrow next to **Infrastructure**.
6. Click a configuration category. The following categories are available:

#### GENERAL

You can configure the following properties of your system:

##### Build number

Build number of ARIS Administration. This corresponds to the following property: `com.aris.umc.version` Cross-tenant property that cannot be changed.

##### Load balancer URL

Specifies the URL of the load balancer. This corresponds to the following property: `com.aris.umc.loadbalancer.url` Cross-tenant property that cannot be changed.

##### E-mails with HTTP URLs only

Specifies whether or not the HTTP protocol is used instead of the HTTPS protocol in e-mails. This corresponds to the following property: `com.aris.umc.notification.useHttpLinks`

#### HTTP CLIENT

These are all cross-tenant settings and cannot be changed.

##### Connection timeout

Specifies the duration after which a client's connection attempt is canceled. This is defined in milliseconds. This corresponds to the following property: `com.aris.umc.client.connect.timeout`

##### Idle timeout

Specifies the wait time timeout of the ARIS Administration REST client. This is defined in milliseconds. This corresponds to the following property: `com.aris.umc.client.idle.timeout`

**Read timeout**

Specifies the wait time timeout of the REST client for read access. This is defined in milliseconds. This corresponds to the following property: `com.aris.umc.client.read.timeout`

**Maximum connections (total)**

Specifies the maximum number of connections that may be established simultaneously. If additional connections are to be established, they are refused. This corresponds to the following property: `com.aris.umc.client.connections.max`

**Maximum connections (per host)**

Specifies the maximum number of connections that may be established simultaneously per host. If additional connections are to be established, they are refused. This corresponds to the following property: `com.aris.umc.client.connections.perhost`

**Number of retries**

Specifies the maximum number of retries. This corresponds to the following property: `com.aris.umc.client.retry.max`

**Host name verification**

Specifies whether the verification of the SSL host name is activated. Verification is enabled by default. This corresponds to the following property: `com.aris.umc.ssl.host.verification.active`

**ADVANCED SETTINGS**

You can configure the following properties of your system:

**Allowed remote clients**

Comma-separated list of client IPs that uses the remote interface of ARIS Administration. Cross-tenant property that cannot be changed. This corresponds to the following property: `com.aris.umc.remote.clients`

**Configuration cache lifetime**

Specifies the lifetime of the configuration cache in seconds. The configuration is reloaded after the time set here. Cross-tenant property that cannot be changed. This corresponds to the following property: `com.aris.umc.config.cache.ttl`

**Encrypted properties**

Specifies a comma-separated list of encrypted property keys. This corresponds to the following property: `com.aris.umc.config.encrypted`

**JAAS login context**

Specifies the login name for the JAAS context. Cross-tenant property that cannot be changed. This corresponds to the following property: `com.aris.umc.jaas.login.context`

**Default tenant**

Specifies that the default tenant is used for authentication. Cross-tenant property that cannot be changed. This corresponds to the following property: `com.aris.umc.basicauth.tenant`

### Infrastructure tenant


Specifies the infrastructure tenant. Specifies the tenant with special privileges for managing other tenants, components, and the configuration in ARIS Administration.


By default, the **master** tenant is the infrastructure tenant. The system users **system** and **superuser** have administrative privileges, i.e., they can access ARIS Administration and Tenant Management.

Users with the relevant privileges can specify other infrastructure tenants in ARIS Administration. Cross-tenant property that cannot be changed.

This corresponds to the following property: `com.aris.infrastructure.tenant`

1. Click  **Edit**.

The **Cross-tenant** symbol  indicates that the settings made apply to all tenants on this server and cannot be changed.

2. Adjust your settings.
3. Click  **Save**.

You have customized your system configuration.

### 3.11.2.5 Customize Kerberos settings


Kerberos is a computer network authentication protocol that works on the basis of tickets to allow nodes communicating over a non-secure network to prove their identity to one another in a secure manner.

You can customize your system configuration as required. You carry out this part of the configuration in ARIS Administration.

#### Prerequisite

You have the **Technical configuration administrator** function privilege.

#### Procedure

1. Start ARIS Connect.
2. Click your user name and select **Administration**.
3. Click the  **Configuration** tab.
4. Activate **User Management**.
5. Click the arrow next to **Kerberos**.
6. Click a configuration category. The following categories are available:

#### GENERAL

You can configure the following properties of your system:

#### Use Kerberos

Specifies whether a Kerberos-based login is allowed. This corresponds to the following property: `com.aris.umc.kerberos.active`

**KDC**

Specifies the fully qualified name of the central **Key Distribution Center (KDC)**. This is usually the fully qualified host name of the LDAP server. This corresponds to the following property:  
com.aris.umc.kerberos.kdc

**Realm**

Specifies the realm of Kerberos tickets. Fully qualified domain name in uppercase letters. This corresponds to the following property: com.aris.umc.kerberos.realm

**Principal**

Specifies the name of the user used for verifying Kerberos tickets.

If Kerberos is used, each user, computer or service provided by a server must be defined as a principal. This corresponds to the following property:  
com.aris.umc.kerberos.servicePrincipalName

**Key table**

Specifies the location of the keytab file that is used for Kerberos tickets. This corresponds to the following property: com.aris.umc.kerberos.keyTab

 **Upload**

To upload the key table file, click  **Upload** under the **Key table** field.

**Configuration file**

Storage location of the configuration file for Kerberos. The file can be uploaded directly. This corresponds to the following property: com.aris.umc.kerberos.config

 **Upload**

To upload the configuration file, click  **Upload** under the **Configuration file** field.

**ADVANCED SETTINGS**

You can configure the following properties of your system:

**Debug output**

Specifies whether debug output is allowed for Kerberos operations. This corresponds to the following property: com.aris.umc.kerberos.debug

**Allow local users**

Specifies whether the LDAP connection is mandatory for Kerberos-based login. If this option is enabled, Kerberos is used for the login of local users also. This corresponds to the following property: com.aris.umc.kerberos.allowlocalusers

**Validate user name**


**Specifies if the user name needs to be validated for separator. The default value is false. This corresponds to the following property: com.aris.umc.kerberos.validateuser**


**Default tenant**

Specifies the default tenant for a Kerberos-based login. This corresponds to the following property: com.aris.umc.kerberos.tenant

Cross-tenant property that cannot be changed.

1. Click  **Edit**.

The **Cross-tenant** symbol  indicates that the settings made apply to all tenants on this server and cannot be changed.

2. Adjust your settings.
3. Click  **Save**.

You have customized your system configuration.





### 3.11.2.6 Upload Kerberos configuration files

You can upload the Kerberos configuration file or the key table.

#### Prerequisite

You have the **Technical configuration administrator** function privilege.

#### Procedure

1. Start ARIS Connect.
2. Click your user name and select **Administration**.
3. Click the  **Configuration** tab.
4. Activate **User Management**.
5. Click the arrow next to **Kerberos**. The **Cross-tenant** symbol  indicates that the settings made apply to all tenants on this server and cannot be changed.
6. Activate the **General** configuration category.
7. To upload the key table file, click  **Upload** under the **Key table** field. To upload the configuration file, click  **Upload** under the **Configuration file** field. The dialog for uploading a file opens.
8. Select the relevant file.

You have uploaded a configuration file.



### 3.11.2.7 Add LDAP server






LDAP enables information from a distributed, location-independent and hierarchical database in a network to be queried and modified.

You can use multiple LDAP servers with ARIS.

#### Prerequisite

You have the **Technical configuration administrator** function privilege.

#### Procedure

1. Start ARIS Connect.
2. Click your user name and select **Administration**.
3. Click the  **Configuration** tab.
4. Activate **User Management**.
5. Click the arrow next to **LDAP**.
6. Click **General settings**.
7. Click  **Edit**.
8. Enable **Activate LDAP**.
9. Enable **Activate multiple LDAP integration**.
10. Click  **Save**.
11. Click  **Add**. The **Add LDAP server** dialog opens.
12. Enter the following (page 409):
  - ID of the LDAP server
  - Display name of the LDAP server
  - LDAP server URL
  - LDAP server fallback URL
  - User name of the user who has access to the LDAP content
  - Password of this user
  - Specify whether or not SSL should be used and in which mode
  - Specify whether or not host names and certificates should be verified
  - Specify the connection timeout
13. Specify the read timeout
14. Click  **Save**.

You have added an LDAP server.

If you want to specify more than one LDAP server, proceed with step 10 of the procedure steps mentioned above.

### 3.11.2.8 Test connection to an LDAP server



LDAP enables information from a distributed, location-independent and hierarchical database in a network to be queried and modified.

You can use multiple LDAP servers with ARIS.

#### Prerequisite

You have the **Technical configuration administrator** function privilege.

#### Procedure

1. Start ARIS Connect.
2. Click your user name and select **Administration**.
3. Click the  **Configuration** tab.
4. Activate **User Management**.
5. Click the arrow next to **LDAP**.
6. Select the relevant LDAP server.
7. Click **Connection**.
8. Click  **Test connection**.

A message is displayed, whether or not the connection to the LDAP server specified is valid.

### 3.11.2.9 Edit connection to an LDAP server



LDAP enables information from a distributed, location-independent and hierarchical database in a network to be queried and modified.

You can use multiple LDAP servers with ARIS.

#### Prerequisite

You have the **Technical configuration administrator** function privilege.

#### Procedure

1. Start ARIS Connect.
2. Click your user name and select **Administration**.
3. Click the  **Configuration** tab.
4. Activate **User Management**.
5. Click the arrow next to **LDAP**.
6. Select the relevant LDAP server.
7. Click **Connection**.
8. Click  **Edit**.
9. Enter the following (page 409):
  - ID of the LDAP server
  - Display name of the LDAP server

- LDAP server URL
- LDAP server fallback URL
- User name of the user who has access to the LDAP content
- Password of this user
- Specify whether or not SSL should be used and in which mode
- Specify whether or not host names and certificates should be verified
- Specify the connection timeout
- Specify the read timeout

10. Click  **Save**.

You have edited an LDAP server connection.



### 3.11.2.10 Upload LDAP truststore file

You can upload the truststore file.

#### Prerequisite

You have the **Technical configuration administrator** function privilege.

#### Procedure

1. Start ARIS Connect.
2. Click your user name and select **Administration**.
3. Click the  **Configuration** tab.
4. Activate **User Management**.
5. Click the arrow next to **LDAP**.
6. Click **General settings**.
7. Click **Truststore**.
8. Click  **Upload**. The **Truststore** dialog opens.
9. Select the relevant file.

You have uploaded a truststore file

### 3.11.2.11 Customize LDAP settings


LDAP enables information from a distributed, location-independent and hierarchical database in a network to be queried and modified.

You can customize your system configuration as required. You carry out this part of the configuration in ARIS Administration.

#### Prerequisite

You have the **Technical configuration administrator** function privilege.

#### Procedure

1. Start ARIS Connect.
2. Click your user name and select **Administration**.
3. Click the  **Configuration** tab.
4. Activate **User Management**.
5. Click the arrow next to **LDAP**.
6. Click a configuration category. The following categories are available:

#### GENERAL SETTINGS

You can configure the following properties of your system:

##### Activate LDAP

Specifies whether or not the LDAP integration is enabled. This corresponds to the following property: `com.aris.umc.ldap.active`

##### Activate multiple LDAP integration

Specifies whether or not integration of multiple LDAP servers is to be activated. The default value is **false**. This corresponds to the following property: `com.aris.umc.ldap.multi.active`

##### Configured LDAP server count

Displays the number of LDAP servers allowed. This corresponds to the following property: `com.aris.umc.ldap.connection.count`

#### TRUSTSTORE

##### Truststore

Specifies where to look for the truststore. This corresponds to the following property: `com.aris.umc.ldap.ssl.truststore.location`

##### Upload

You can upload (page 362) a truststore file.

##### Password

Specifies the truststore password. This corresponds to the following property: `com.aris.umc.ldap.ssl.truststore.password`

**Type**

Specifies the truststore type to be used. This corresponds to the following property:  
com.aris.umc.ldap.ssl.truststore.type

**ADVANCED SETTINGS****Debug output**

Specifies whether or not debug information for LDAP operations are output. This corresponds to the following property: com.aris.umc.ldap.debug

**Import superior group**

Specifies whether the superior group is to be imported automatically when the group is imported. This corresponds to the following property: com.aris.umc.ldap.group.import.parent.enabled

**Import user at login**

Specifies whether an LDAP user is to be imported automatically during the login attempt. This corresponds to the following property: com.aris.umc.ldap.user.importOnLogin

**Import user groups when synchronizing**

Specifies whether additional user groups are to be imported during user synchronization. This corresponds to the following property: com.aris.umc.ldap.sync.user.importgroups

**Update group associations at login**

Specifies whether the **memberOf** attribute is read (**true**) or not (**false**). If the value of the property is **true**, the **memberOf** attribute is read and the referenced groups are automatically imported. The import of the groups occurs when a user from the group logs in for the first time. This corresponds to the following property:  
com.aris.umc.ldap.attribute.memberof.resolveOnFirstLogin

**Use attribute value paging**

Specifies whether a page break is to be inserted if the server-side limit for valid values is exceeded for attributes, e.g., if more than 1,500 attribute values exist. This corresponds to the following property: com.aris.umc.ldap.user.attributes.paging.enabled

**Prevent login of manually created users**

Specifies that only LDAP users may log in. This does not apply to the **arisservice**, **guest**, **superuser**, and **system** users. This corresponds to the following property:  
com.aris.umc.ldap.auth.only

**Cache size**

Specifies the maximum number of LDAP entities that are cached during an import. This corresponds to the following property: com.aris.umc.ldap.entity.cache.size

**Pool wait time**

Specifies the maximum amount of time in milliseconds that a connection request may take if the maximum number of connections to the LDAP server was exceeded. Cross-tenant property that cannot be changed. This corresponds to the following property:  
com.aris.umc.ldap.connection.concurrent.timeout

**Pool size**

Specifies the maximum number of connections that are ready for reuse in a pool. The connection that was used last is discarded when the pool is full. Cross-tenant property that cannot be changed. This corresponds to the following property: `com.aris.umc.ldap.connection.pool.size`

**Pool time**

Specifies the maximum amount of time that a connection remains in a pool. The connection is removed from the pool at the latest after this period of time. Cross-tenant property that cannot be changed. This corresponds to the following property:  
`com.aris.umc.ldap.connection.pool.timeout`

**Skip errors**

Specifies whether the LDAP import ignores users or user groups for which errors occurred without showing an error message. This corresponds to the following property:  
`com.aris.umc.ldap.sync.skipOnFault`

**Use bottom-up method**

Specifies whether the bottom-up method (**memberOf** attribute) or the top-down method (**hasMember** attribute) is applied when associating users to user groups. This corresponds to the following property: `com.aris.umc.ldap.sync.members.searchBottomUp`

**Use DN as GUID**

Specifies that the fully qualified name (distinguished name) is used as GUID. This corresponds to the following property: `com.aris.umc.ldap.sync.useDnAsGuid`

1. Select the relevant LDAP server.
2. Click a configuration category. The following categories are available:

**CONNECTION**

You can configure the following properties of your system:

**ID**

Specifies the unique ID of this specific LDAP connection. This corresponds to the following property: `com.aris.umc.ldap.connection.id` plus the ID defined.

**Name**

Specifies the name of this specific LDAP connection. This corresponds to the following property: `com.aris.umc.ldap.connection.name` plus the ID defined.

**Server URL**

Specifies the URL of the LDAP server. This corresponds to the following property:  
`com.aris.umc.ldap.url`

**Server URL (fallback)**

Specifies the fallback URL of the LDAP server. This URL is only used if the server cannot be reached via its primary URL. This corresponds to the following property:  
`com.aris.umc.ldap.backup.url`

**User name**

Specifies the user name of the LDAP user. This corresponds to the following property:  
com.aris.umc.ldap.service.user

**Password**

Specifies the password of the LDAP user. This corresponds to the following property:  
com.aris.umc.ldap.service.pwd

**Use SSL**

Specifies if SSL is to be used. This corresponds to the following property: com.aris.umc.ldap.ssl

**SSL mode**

Specifies the SSL mode (page 370). This corresponds to the following property:  
com.aris.umc.ldap.ssl.mode

**Verify host names**

Specifies if an SSL host is to be verified. This corresponds to the following property:  
com.aris.umc.ldap.ssl.host.verification.active

**Verify certificates**

Specifies whether an SSL certificate is to be verified. This corresponds to the following property:  
com.aris.umc.ldap.ssl.certificate.verification.active

**Simultaneous connections**

Specifies the maximum number of simultaneous connections to the same LDAP server. If additional connections are to be established, they are refused. Cross-tenant property that cannot be changed.

This corresponds to the following property: com.aris.umc.ldap.connection.concurrent

**Connection timeout**

Specifies the duration after which the attempt to connect to the LDAP server is canceled. This is defined in milliseconds. This corresponds to the following property: com.aris.umc.ldap.timeout

**Read timeout**

Specifies the maximum amount of time that read access may take. This is defined in milliseconds. This corresponds to the following property: com.aris.umc.ldap.read.timeout

**ATTRIBUTE MAPPINGS**

You can configure the following properties of your system:

**objectClass**

Specifies the attribute that contains the object class. This corresponds to the following property:  
com.aris.umc.ldap.attribute.objectclass

**DN**

Specifies the fully qualified name (distinguished name). This corresponds to the following property: com.aris.umc.ldap.attribute.distinguishedname

**GUID**

Specifies the LDAP GUID. This corresponds to the following property:  
com.aris.umc.ldap.attribute.guid

## GROUP ATTRIBUTE MAPPINGS

You can configure the following properties of your system:

### **Name**

Specifies the group name. This corresponds to the following property:  
com.aris.umc.ldap.attribute.group.name

### **hasMember**

Specifies the attribute that references the members of a group. This corresponds to the following property: com.aris.umc.ldap.attribute.hasmember

### **User-defined**

Specifies a comma-separated list of LDAP attributes that are to be imported as user-defined attributes of a group. This corresponds to the following property:  
com.aris.umc.ldap.group.attributes.userdefined

## USER ATTRIBUTE MAPPINGS

You can configure the following properties of your system:

### **Name**

Specifies the user name of a user. This corresponds to the following property:  
com.aris.umc.ldap.attribute.user.name

### **First name**

Specifies the first name of a user. This corresponds to the following property:  
com.aris.umc.ldap.attribute.user.firstname

### **Last name**

Specifies the last name of a user. This corresponds to the following property:  
com.aris.umc.ldap.attribute.user.lastname

### **E-mail address**

Specifies the e-mail address of a user. This corresponds to the following property:  
com.aris.umc.ldap.attribute.user.email

### **Telephone number**

Specifies the telephone number of a user. This corresponds to the following property:  
com.aris.umc.ldap.attribute.user.phone

### **Picture**

Specifies the picture of a user. This corresponds to the following property:  
com.aris.umc.ldap.attribute.user.picture

### **memberOf**

Specifies the attribute that references the groups of a user. This corresponds to the following property: com.aris.umc.ldap.attribute.memberof

### **User-defined**



Specifies a comma-separated list of LDAP attributes that are to be imported as user-defined attributes of a user. This corresponds to the following property:  
com.aris.umc.ldap.user.attributes.userdefined

## BEHAVIOR

### Group object class

Object class of the LDAP groups. This corresponds to the following property:  
com.aris.umc.ldap.group.objectclass

### User object class

Specifies the object class of the LDAP user. This corresponds to the following property:  
com.aris.umc.ldap.user.objectclass

### Search paths

Specifies a semicolon-separated list of all LDAP search paths. This corresponds to the following property: com.aris.umc.ldap.searchpath

### Group search paths

Specifies a semicolon-separated list of all LDAP search paths for user groups. Overwrites the list of general search paths. This corresponds to the following property:  
com.aris.umc.ldap.group.searchpath

### User search paths

Specifies a semicolon-separated list of LDAP search paths for users. Overwrites the list of general search paths. This corresponds to the following property: com.aris.umc.ldap.user.searchpath

### Group search filter

Specifies the query filter for LDAP groups. This corresponds to the following property:  
com.aris.umc.ldap.filter.group

### User search filter

Specifies the query filter for LDAP users. This corresponds to the following property:  
com.aris.umc.ldap.filter.user

### Recursion depth

Specifies the recursion depth that is to be used for nested groups and users. This corresponds to the following property: com.aris.umc.ldap.recursion.depth


### Page size


Specifies the maximum number of entries that are loaded in a single LDAP query. This corresponds to the following property: com.aris.umc.ldap.pagesize

### Referrals

Defines how referrals to other LDAP systems are processed. This corresponds to the following property: com.aris.umc.ldap.referral

1. Click  **Edit**.

The **Cross-tenant** symbol  indicates that the settings made apply to all tenants on this server and cannot be changed.

2. Adjust your settings.
3. Click  **Save**.

You have customized your system configuration.




### 3.11.2.12 Customize ARIS for LDAP server operations

You can configure ARIS for LDAP server operations.

#### Prerequisite

You have the **Technical configuration administrator** function privilege.

#### Procedure

1. Start ARIS Connect.
2. Click your user name and select **Administration**.
3. Click the  **Configuration** tab.
4. Click **User management**.
5. Click the arrow next to **LDAP**.
6. Click **General settings**.
7. Click  **Edit**.
8. Enable **Activate LDAP**.
9. If you want to upload a configuration, ensure that you have disabled pop-up blockers in the browser.  
Click **Truststore**.
10. Click  **Upload**. The **Truststore** dialog opens.
11. Select the relevant LDAP server.
12. Configure the URL for the LDAP system. Click **Connection**.
13. Enter an ID, a name, and the URL in the **Server URL** field, for example:  
`ldap://hggc.mycompany.com:3168`.
14. Configure the path to the backup system, if this backup system is used for your LDAP system and automatically applies the function of the original system, if required in the **Server URL (fallback)** field.
15. Click **Behavior**.
16. Enter the Path to the user group in the **Group search paths** field.
17. Enter the Path to the users in the **User search paths** field.  
If you want to enable the function of following referrals of users to other directories, enter **follow** in the **Referral** field.  
If you want to avoid the above behavior, enter **ignore** in the **Referral** field.  
If you leave this entry blank, referrals are not followed.

Optional: If you want to ensure that the import of LDAP users is carried out despite any errors that might occur, e.g., if names are redundant, click **Global settings > Advanced settings** and enable **Skip errors**.

Please note that system performance is significantly deteriorated if you enable this option. You have configured ARIS for LDAP server operations.

You have configured ARIS for LDAP server operations.

### 3.11.2.12.1 Configure secure communication between ARIS and LDAP server

You can encrypt the communication between ARIS and the LDAP server.

To do so, you have two mutually exclusive options:

- **STARTTLS**

This transforms a connection that was originally untrusted into an encrypted connection without using a specific port.

- **SSL**

The connection between ARIS and the LDAP server is established using a specific port.



#### Prerequisite

- The LDAP server has a valid SSL certificate and LDAPS is activated.
- ARIS Administration trusts the LDAP server (the SSL certificate of the LDAP server or the certification authority is stored in the JRE database of trustworthy certificates).

#### STARTTLS

You can use STARTTLS to configure encrypted communication between ARIS and the LDAP server.

#### Procedure



1. Start ARIS Connect.
2. Click your user name and select **Administration**.
3. Click the  **Configuration** tab.
4. Click **User management**.
5. Click the arrow next to **LDAP**.
6. Select the relevant LDAP server.
7. Click **Connection**.
8. Click  **Edit**.
9. Configure the URL for the LDAP system. To do so, enter the URL as in the **Server URL** field, for example:  
`ldap://hggc.mycompany.com:3168.`
10. Configure the path to the backup system, if this backup system is used for your LDAP system and automatically applies the function of the original system, if required in the **Server URL (fallback)** field.

11. Enable **Use SSL**.
  12. Select **STARTTLS** from the **SSL mode** list.
  13. ARIS must trust the LDAP server used. Therefore, we recommend that you use the LDAP server with a certificate signed by a public certification authority. If your certificate is signed by a public certification authority and stored in the list of trustworthy certificates of your JRE, you do not need to configure anything else.
  14. Upload LDAP truststore file.
- You can upload the truststore file.

### Prerequisite

You have the **Technical configuration administrator** function privilege.



### Procedure

1. Start ARIS Connect.
2. Click your user name and select **Administration**.
3. Click the  **Configuration** tab.
4. Activate **User Management**.
5. Click the arrow next to **LDAP**.
6. Click **General settings**.
7. Click **Truststore**.
8. Click  **Upload**. The **Truststore** dialog opens.
9. Select the relevant file.

You have uploaded a truststore file

## SSL

### Procedure

1. Start ARIS Connect.
2. Click your user name and select **Administration**.
3. Click the  **Configuration** tab.
4. Click **User management**.
5. Click the arrow next to **LDAP**.
6. Select the relevant LDAP server.
7. Click **Connection**.
8. Click  **Edit**.
9. Configure the URL for the LDAP system. To do so, enter the URL as in the **Server URL** field, for example:  
`ldap://hqqc.mycompany.com:3168.`
10. Configure the path to the backup system, if this backup system is used for your LDAP system and automatically applies the function of the original system, if required in the **Server URL (fallback)** field.

11. Enable **Use SSL**.
12. Select **SSL** from the **SSL mode** list.
13. ARIS must trust the LDAP server used. Therefore, we recommend that you use the LDAP server with a certificate signed by a public certification authority. If your certificate is signed by a public certification authority and stored in the list of trustworthy certificates of your JRE, you do not need to configure anything else.
14. Upload LDAP truststore file



### 3.11.2.12.2 Upload LDAP truststore file

You can upload the truststore file.

#### Prerequisite

You have the **Technical configuration administrator** function privilege.

#### Procedure

1. Start ARIS Connect.
2. Click your user name and select **Administration**.
3. Click the  **Configuration** tab.
4. Activate **User Management**.
5. Click the arrow next to **LDAP**.
6. Click **General settings**.
7. Click **Truststore**.
8. Click  **Upload**. The **Truststore** dialog opens.
9. Select the relevant file.

You have uploaded a truststore file


### 3.11.2.12.3 Allow login for LDAP users only

To allow only LDAP users to log in to ARIS Architect and ARIS Process Board, you need to configure the system accordingly.

#### Prerequisite

You have the **Technical configuration administrator** function privilege.

#### Procedure

1. Start ARIS Connect.
2. Click your user name and select **Administration**.
3. Click the  **Configuration** tab.
4. Click **User management**.
5. Select **All** from the list.
6. Find the string **com.aris.umc.ldap.auth.only** and define it as **true**.

Only LDAP users and the following users can log in to ARIS Architect and ARIS Process Board:  
**system, superuser, arisservice, and guest.**

### 3.11.2.12.4 Configure single sign-on

If you are using MS Active Directory Domain Services, you can configure SSO (single sign-on). This allows users to work with all ARIS components as soon as they are logged in to the domain. Separate login to ARIS components is not required.

Single sign-on in ARIS is based on Kerberos. Kerberos is a network authentication, allowing nodes to communicate using an invisible network and to securely make their identity known to each other. Kerberos is the recommended method for user authentication in MS Windows networks. In addition, it is widely used with Linux operating systems and is designed for use with all major platforms.

Please contact your LDAP administrator for this.

#### Prerequisite

##### Server

- Users who want to use SSO must have a valid Microsoft Active Directory Domain Services user login.
- This user is available in ARIS Administration.
- ARIS Administration authenticates against LDAP.
- Microsoft Active Directory Domain Services supports Kerberos-based authentication (default) and the service principal name of the ARIS Server is entered in the following format: **HTTP/<hostname>**, e.g. **HTTP/mypc01.my.domain.com**.

##### Client

- The client computers and servers are connected to the same MS Active Directory Domain Services.
- The browser used supports a Kerberos-based authentication.
- The browser has been configured accordingly.


### CONFIGURATION IN ARIS ADMINISTRATION USING KERBEROS

SSO must be configured for the servers.

#### Prerequisite

You have the **Technical configuration administrator** function privilege.

#### Procedure

1. Start ARIS Connect.
2. Click your user name and select **Administration**.
3. Click the  **Configuration** tab.
4. Click **User management**.
5. Click the arrow next to **Kerberos**.

If you do not have a Kerberos configuration file, take the **kbr5.conf** from your installation media under **Add-ons\Kerberos**. Name it, for example, **krb5.conf**, add the following lines, and adjust the configuration to meet your requirements.

```
[libdefaults]
default_tgs_etypes = des-cbc-md5 des-cbc-crc des3-cbc-sha1 aes128-cts
aes128-cts-hmac-sha1-96 aes256-cts aes256-cts-hmac-sha1-96 rc4-hmac
arcfour-hmac arcfour-hmac-md5
default_tkt_etypes = des-cbc-md5 des-cbc-crc des3-cbc-sha1 aes128-cts
aes128-cts-hmac-sha1-96 aes256-cts aes256-cts-hmac-sha1-96 rc4-hmac
arcfour-hmac arcfour-hmac-md5
permitted_etypes = des-cbc-md5 des-cbc-crc des3-cbc-sha1 aes128-cts
aes128-cts-hmac-sha1-96 aes256-cts aes256-cts-hmac-sha1-96 rc4-hmac
arcfour-hmac arcfour-hmac-md5
```

6. To upload the configuration file, click  **Upload** under the **Configuration file** field.

7. Click  **Edit**.

8. Enable **Use Kerberos**.

9. In the **Principal** field, enter the technical user name given by the administrator.

If the Service Principal Name in the keytab is, for example, **mypc01@MY.DOMAIN.COM**, the values of the property **com.company.aris.umc.kerberos.servicePrincipalName** must contain the Service Principal Name exactly as specified in the keytab file.

10. In the **Realm** field, configure the realm for the Kerberos service. Enter the fully qualified domain name in uppercase letters.

Example: **MYDOMAIN.COM**.

11. In the **KDC** field, configure the fully qualified name of the KDC to be used.

12. **Optional:**

a. Click **Advanced settings**.

b. Enable **Debug output**.

The debug output of the program that the user wishes to log in to is saved in the file **system.out** of the respective program. For user management, for example, this is located in the directory **<ARIS installation directory/work\_umcadmin\_m/base/logs**.

You have configured SSO using Kerberos in ARIS Administration.

## CONFIGURATION IN ARIS ADMINISTRATION USING SAML



SSO must be configured for the servers.

### Prerequisite

- You have the **Technical configuration administrator** function privilege.
- If you use multiple LDAP systems, the user names must be unambiguous through all LDAP systems. Otherwise no SSO is possible.

### Procedure

1. Start ARIS Connect.
2. Click your user name and select **Administration**.

3. Click the  **Configuration** tab.
4. Click **User management**.
5. Click the arrow next to **SAML**.
6. Click **General**.
7. Click  **Edit**.
8. Enable **Use SAML**.
9. Enter the ID of the identity provider in the **Identity provider ID** field.
10. Enter the ID of the service provider in the **Service provider ID** field.
11. Enter the end point of the identity provider that is used for single sign-on in the **Single sign-on URL** field.
12. Enter the end point of the identity provider that is used for single log-out in in the **Single logout URL** field.

You have configured SSO using SAML in ARIS Administration.

Please note that SSO (single sign-on) using SAML will not work in case of multiple LDAP servers and same login names (even with different entities) in different LDAP systems.

## CLIENT CONFIGURATION

Configure the browser settings to allow SSO. SSO has been tested with the following browsers:

- Microsoft® Internet Explorer® (version 11 or higher)
- Mozilla Firefox®

You need to empty the Kerberos ticket cache of each client first in order to avoid obsolete tickets if Microsoft Active Directory Domain Services were changed. Delete the Kerberos ticket cache by executing the command **klist.exe purge**. If the purge program is not available on the client computer, you can also simply log off the client computer from the domain and log it back in.

### MICROSOFT® INTERNET EXPLORER®

Microsoft® Internet Explorer® supports Kerberos authentication only if the ARIS Server is part of your local intranet.

#### Procedure

1. Start Microsoft® Internet Explorer®.
2. Click **Tools > Internet Options**.
3. Activate the **Security** tab and click **Local Intranet**.
4. Click **Sites**, and select **Advanced**.
5. Add the URL of the ARIS Server that was configured for SSO. Add the DNS host name and the IP address of the ARIS Server.
6. Optional: Disable the **Require server verification (https:) for all sites in this zone** check box.
7. Click **Close**, and select **OK**.
8. Click **Custom level** and make sure that no user-defined settings affect your new settings.



9. Find the **User Authentication** section. Verify whether the **Automatic logon only in Intranet zone** option is enabled.
10. Click **OK**.
11. Close and restart Microsoft® Internet Explorer®.

### MOZILLA FIREFOX®

In Mozilla Firefox®, you can define trustworthy sites using the computer name, IP address, or a combination of both. You can use wildcards.

#### Procedure

1. Start Mozilla Firefox®.
2. Enter **about:config** in the address box and press Enter. Confirm a message, if required.
3. Enter **network.negotiate** in the **Search** box and press Enter, if required.
4. Double-click **network.negotiate-auth.trusted-uris**.
5. Enter the computer name or the IP address of the ARIS Server that you configured for SSO, and click **OK**.
6. Close and restart Mozilla Firefox.

If you prefer to use an encryption stronger than AES 128bit and this is allowed in your country, replace the JCE Policy file of the JDK of your ARIS Server with the Java Cryptography Extension (JCE) Unlimited Strength Jurisdiction Policy Files 6 (<http://www.oracle.com/technetwork/java/javase/downloads/index.html>). This allows unlimited key length.

If you cannot replace the Policy files, but still want to use SSO, you need to apply a procedure allowed by the JDK for encrypting Kerberos tickets, for example, AES 128bit.



### 3.11.2.13 Delete LDAP server

LDAP enables information from a distributed, location-independent and hierarchical database in a network to be queried and modified.

#### Prerequisite

- You have the **Technical configuration administrator** function privilege.
- Your system is configured to allow multiple LDAP servers.

#### Procedure

1. Start ARIS Connect.
2. Click your user name and select **Administration**.
3. Click the  **Configuration** tab.
4. Activate **User Management**.
5. Click the arrow next to **LDAP**.
6. Select the relevant LDAP server.
7. Click **Connection**.
8. Click  **Delete**.

You have deleted an LDAP server.

### 3.11.2.14 Customize user-defined notifications


You can customize your system configuration as required. You carry out this part of the configuration in ARIS Administration.

Variables (page 424) may be used to personalize the content of a notification of ARIS Administration. Variables can be used in both notification subject and body.

#### Prerequisite

- You have the **Technical configuration administrator** function privilege.
- You have uploaded (page 385) the relevant templates for user-defined notifications.

#### Procedure

1. Start ARIS Connect.
2. Click your user name and select **Administration**.
3. Click the  **Configuration** tab.
4. Activate **User Management**.
5. Click the arrow next to **User-defined notifications**.
6. Click a configuration category. The following categories are available:  
Users

#### NOTIFY ABOUT CREATION

Specifies whether users are to be notified after they have been created. This corresponds to the following property: `com.aris.umc.notification.userCreated.enabled`

**User created - Subject**

Subject of the notification that is sent when a user has been created. This corresponds to the following property: `com.aris.umc.notification.userCreated.subject`

**User created - Message**

Specifies the text of the notification that is sent when a user has been created. This corresponds to the following property: `com.aris.umc.notification.userCreated.message`

**User created - HTML template**

Specifies the HTML template used for the notification that is sent when users are notified that they have been created. The template must have been uploaded previously. This corresponds to the following property: `com.aris.umc.notification.userCreated.template`

** Upload**

Opens the dialog to upload a user defined HTML template.

**Notify about deactivation**

Specifies whether users are to be notified after they have been deactivated. This corresponds to the following property: `com.aris.umc.notification.userDisabled.enabled`

**User deactivated - Subject**

Specifies the subject of the notification that is sent when a user has been deactivated. This corresponds to the following property: `com.aris.umc.notification.userDisabled.subject`

**User deactivated - Message**

Specifies the text of the notification that is sent when a user has been deactivated. This corresponds to the following property: `com.aris.umc.notification.userDisabled.message`

**User deactivated - HTML template**

Specifies the HTML template used for the notification that is sent when users are notified that they have been deactivated. The template must have been uploaded previously. This corresponds to the following property: `com.aris.umc.notification.userDisabled.template`

** Upload**

Opens the dialog to upload a user defined HTML template.

**Notify about activation**

Specifies whether users are to be notified after they have been activated. This corresponds to the following property: `com.aris.umc.notification.userEnabled.enabled`

**User activated - Subject**

Specifies the subject of the notification that is sent when a user has been activated. This corresponds to the following property: `com.aris.umc.notification.userEnabled.subject`

**User activated - Message**

Specifies the text of the notification that is sent when a user has been activated. This corresponds to the following property: `com.aris.umc.notification.userEnabled.message`

**User activated - HTML template**

Specifies the HTML template used for the notification that is sent when users are notified that they have been activated. The template must have been uploaded previously. This corresponds to the following property: `com.aris.umc.notification.userEnabled.template`

** Upload**

Opens the dialog to upload a user defined HTML template.

**PASSWORDS****Notify about password change**

Specifies whether users are to be notified after their password has been changed. This corresponds to the following property: `com.aris.umc.notification.passwordChanged.enabled`

**Password change - Subject**

Specifies the subject of the notification that is sent when a password has been changed. This corresponds to the following property: `com.aris.umc.notification.passwordChanged.subject`

**Password change - Message**

Specifies the text of the notification that is sent when a password has been changed. This corresponds to the following property: `com.aris.umc.notification.passwordChanged.message`

**Password change - HTML template**

Specifies the HTML template used for the notification that is sent when a user is to be notified about a password change. The template must have been uploaded previously. This corresponds to the following property: `com.aris.umc.notification.passwordChanged.template`

** Upload**

Opens the dialog to upload a user defined HTML template.

**Notify about password reset**

Specifies whether users are to be notified after their password has been reset. This corresponds to the following property: `com.aris.umc.notification.passwordReset.enabled`

**Password reset - Subject**

Specifies the subject of the notification that is sent when a password has been reset. This corresponds to the following property: `com.aris.umc.notification.passwordReset.subject`

**Password reset - Message**

Specifies the text of the notification that is sent when a password has been reset. This corresponds to the following property: `com.aris.umc.notification.passwordReset.message`

**Password reset - HTML template**

Specifies the HTML template used for the notification that is sent when a user is to be notified about a password reset. The template must have been uploaded previously. This corresponds to the following property: `com.aris.umc.notification.passwordReset.template`

** Upload**

Opens the dialog to upload a user defined HTML template.

**Notify about password reset request**

Specifies that users are to be notified if they have requested a password reset. This corresponds to the following property: `com.aris.umc.notification.passwordResetRequested.enabled`

**Password reset request - Subject**

Specifies the subject of the notification that is sent when a user has requested a password reset.

This corresponds to the following property:

`com.aris.umc.notification.passwordResetRequested.subject`

**Password reset request - Message**

Specifies the text of the notification that is sent when a user has requested a password reset. This corresponds to the following property:

`com.aris.umc.notification.passwordResetRequested.message`

**Password reset request - HTML template**

Specifies the HTML template used for the notification that is sent when a user has requested a password reset. The template must have been uploaded previously. This corresponds to the following property: `com.aris.umc.notification.passwordResetRequested.template`

** Upload**

Opens the dialog to upload a user defined HTML template.

**LICENSES****Notify about license expiration**

Specifies whether administrators with the **License management** privilege are to be notified when a license has expired. This corresponds to the following property:

`com.aris.umc.notification.licenseExpired.enabled`

**License has expired - Subject**

Specifies the subject of the notification that is sent when a license has expired. This corresponds to the following property: `com.aris.umc.notification.licenseExpired.subject`

**License has expired - Message**

Specifies the text of the notification that is sent when a license has expired. This corresponds to the following property: `com.aris.umc.notification.licenseExpired.message`

**License has expired - HTML template**

Specifies the HTML template used for the notification that is sent when an administrator is to be notified that a license has expired. The template must have been uploaded previously. This corresponds to the following property: `com.aris.umc.notification.licenseExpired.templates`

** Upload**

Opens the dialog to upload a user defined HTML template.

**Notify before license expiration**

Specifies whether administrators with the **License management** privilege are to be notified when a license is about to expire. This corresponds to the following property:

`com.aris.umc.notification.licenseExpiring.enabled`

**Days before expiration**

Specifies how many days before license expiration a notification is sent. This corresponds to the following property: `com.aris.umc.notification.licenseExpiring.threshold`

**License will expire soon - Subject**

Specifies the subject of the notification that is sent when a license is about to expire. This corresponds to the following property: `com.aris.umc.notification.licenseExpiring.subject`

**License will expire soon - Message**

Specifies the text of the notification that is sent when a license is about to expire. This corresponds to the following property:

`com.aris.umc.notification.licenseExpiring.message`

**License will expire soon - HTML template**

Specifies the HTML template used for the notification that is sent when an administrator is to be notified that a license will soon expire. The template must have been uploaded previously. This corresponds to the following property: `com.aris.umc.notification.licenseExpiring.template`

 **Upload**

Opens the dialog to upload a user defined HTML template.

**Notify about license exhaustion**

Specifies whether administrators with the **License management** privilege are to be notified when the total number of logins allowed for the license is reached. This corresponds to the following property: `com.aris.umc.notification.licenseSeatsConsumed.enabled`

**License exhaustion - Subject**

Specifies the subject of the notification that is sent when the total number of logins allowed for the license is reached. This corresponds to the following property:

`com.aris.umc.notification.licenseSeatsConsumed.subject`

**License exhaustion - Message**

Specifies the text of the notification that is sent when the total number of logins allowed for the license is reached. This corresponds to the following property:

`com.aris.umc.notification.licenseSeatsConsumed.message`

**License exhaustion - HTML template**

Specifies the HTML template used for the notification that is sent when an administrator is to be notified that the total number of logins allowed with a license is reached. The template must have been uploaded previously. This corresponds to the following property:

`com.aris.umc.notification.licenseSeatsConsumed.template`

 **Upload**

Opens the dialog to upload a user defined HTML template.

**TENANTS****Notify about deletion**

Specifies whether a notification is sent if a tenant was deleted. This corresponds to the following property: `com.aris.umc.notification.tenantDeleted.enabled`

**Notify all users about deletion**

Specifies whether a notification is to be sent to all users. This corresponds to the following property: `com.aris.umc.notification.tenantDeleted.sendToAll.enabled`

**Tenant deleted - Subject**

Specifies the subject of the notification that is sent if a tenant was deleted. This corresponds to the following property: `com.aris.umc.notification.tenantDeleted.subject`

**Tenant deleted - Message**

Specifies the text of the notification that is sent if a tenant was deleted. This corresponds to the following property: `com.aris.umc.notification.tenantDeleted.message`

**Tenant deleted - HTML template**

Specifies the HTML template used for the notification that is sent when an administrator is to be notified that a tenant has been deleted. The template must have been uploaded previously. This corresponds to the following property: `com.aris.umc.notification.tenantDeleted.template`

 **Upload**

Opens the dialog to upload a user defined HTML template.

**Notify about deactivation**

Specifies whether a notification is sent if a tenant was deactivated. This corresponds to the following property: `com.aris.umc.notification.tenantDisabled.enabled`

**Notify all users about deactivation**

Specifies whether a notification is sent to all users if a tenant was deactivated. This corresponds to the following property: `com.aris.umc.notification.tenantDisabled.sendToAll.enabled`

**Tenant deactivated - Subject**

Specifies the subject of the notification that is sent if a tenant was deactivated. This corresponds to the following property: `com.aris.umc.notification.tenantDisabled.subject`

**Tenant deactivated - Message**

Specifies the text of the notification that is sent if a tenant was deactivated. This corresponds to the following property: `com.aris.umc.notification.tenantDisabled.message`

**Tenant deactivated - HTML template**

Specifies the HTML template used for the notification that is sent when an administrator is to be notified that a tenant has been deactivated. The template must have been uploaded previously. This corresponds to the following property: `com.aris.umc.notification.tenantDisabled.template`

 **Upload**

Opens the dialog to upload a user defined HTML template.

**Notify about activation**

Specifies whether a notification is sent if a tenant was activated. This corresponds to the following property: `com.aris.umc.notification.tenantEnabled.enabled`

**Notify all users about activation**

Specifies whether a notification is sent to all users if a tenant was activated. This corresponds to the following property: `com.aris.umc.notification.tenantEnabled.sendToAll.enabled`

**Tenant activated - Subject**

Specifies the subject of the notification that is sent if a tenant was activated. This corresponds to the following property: `com.aris.umc.notification.tenantEnabled.subject`

**Tenant activated - Message**

Specifies the text of the notification that is sent if a tenant was activated. This corresponds to the following property: `com.aris.umc.notification.tenantEnabled.message`

**Tenant activated - HTML template**

Specifies the HTML template used for the notification that is sent when an administrator is to be notified that a tenant has been activated. The template must have been uploaded previously. This corresponds to the following property: `com.aris.umc.notification.tenantEnabled.template`

** Upload**

Opens the dialog to upload a user defined HTML template.

**MULTI-FACTOR AUTHENTICATION****Notify about one-time password request**

Specifies whether users are to be notified if they have requested a one-time password. This corresponds to the following property: `com.aris.umc.notification.otpRequested.enabled`

**One-time password request - Subject**

Subject of the notification that is sent when a user has requested a one-time password. This corresponds to the following property: `com.aris.umc.notification.otpRequested.subject`

**One-time password request - Message**

Text of the notification that is sent when a user has requested a one-time password. This corresponds to the following property: `com.aris.umc.notification.otpRequested.message`

**One-time password request - HTML template**

Specifies the HTML template used for the notification that is sent when a user has requested a one-time password. The template must have been uploaded previously. This corresponds to the following property: `com.aris.umc.notification.otpRequested.message`

** Upload**

Opens the dialog to upload a user defined HTML template.

**Notify about token secret change**

Specifies whether users are to be notified if their token secret has been changed. This corresponds to the following property: `com.aris.umc.notification.otpSecretChanged.enabled`

**Token secret change - Subject**

Subject of the notification that is sent when the token secret has been changed by a user. This corresponds to the following property: `com.aris.umc.notification.otpSecretChanged.subject`

**Token secret change - Message**

Text of the notification that is sent when the token secret has been changed by a user. This corresponds to the following property: `com.aris.umc.notification.otpSecretChanged.message`



**Token secret change - HTML template**

Specifies the HTML template used for the notification that is sent when a user has changed the token secret. The template must have been uploaded previously. This corresponds to the following property: `com.aris.umc.notification.otpSecretChanged.template`

** Upload**

Opens the dialog to upload a user defined HTML template.y

**OAUTH****Notify about signup**

Specifies whether administrators are to be notified if a new user has signed up. This corresponds to the following property: `com.aris.umc.notification.signupCompleted.enabled`

**Signup complete - Subject**

Subject of the notification that is sent when a new user has signed up. This corresponds to the following property: `com.aris.umc.notification.signupCompleted.subject`

**Signup complete - Message**



Text of the notification that is sent when a new user has signed up. This corresponds to the following property: `com.aris.umc.notification.signupCompleted.message`

**Signup complete - HTML template**

Specifies the HTML template used for the notification that is sent when a new user has signed up. The template must have been uploaded previously. This corresponds to the following property: `com.aris.umc.notification.signupCompleted.template`

** Upload**

Opens the dialog to upload a user defined HTML template.

7. Click  **Edit**.
8. Adjust your settings.
9. Click  **Save**.

You have customized your system configuration.



### 3.11.2.15 Upload templates for notifications

You can upload the templates for user-defined notifications.

#### Prerequisite

You have the **Technical configuration administrator** function privilege.

#### Procedure

1. Start ARIS Connect.
2. Click your user name and select **Administration**.
3. Click the  **Configuration** tab.
4. Activate **User Management**.
5. Click the arrow next to **User-defined notifications**.
6. Click a category.
7. Click  **Upload**. The dialog for uploading a file opens.
8. Select the relevant file.

You have uploaded a template for notifications.

### 3.11.2.16 Customize OAuth settings

OAuth is only relevant for API Portal.


OAuth is an open standard for authorization. This mechanism is used, for example, by Google, Facebook, Twitter, etc. to permit users to share information about their accounts with third party applications or websites without revealing them their passwords.

You can customize your system configuration as required. You carry out this part of the configuration in ARIS Administration.

#### Prerequisite

You have the **Technical configuration administrator** function privilege.

#### Procedure

1. Start ARIS Connect.
2. Click your user name and select **Administration**.
3. Click the  **Configuration** tab.
4. Activate **User Management**.
5. Click the arrow next to **OAuth**.
6. Click a configuration category. The following categories are available:

#### GENERAL

##### Use OAuth

Specifies whether OAuth is allowed. The default value is **false**. This corresponds to the following property: `com.aris.umc.oauth.active`

##### OAuth providers

Specifies the social network providers for which the login is allowed.

Enable the relevant providers. This corresponds to the following property:

`com.aris.umc.oauth.providers`

##### API keys

Specifies a comma-separated list of API keys. This corresponds to the following property:

`com.aris.umc.oauth.api.keys`

##### API secrets

Specifies a comma-separated list of API secrets. This corresponds to the following property:

`com.aris.umc.oauth.api.secrets`

#### ADVANCED SETTINGS


##### Debug output

Specifies whether debug output is enabled for OAuth operations. The default value is **false**. This corresponds to the following property: `com.aris.umc.oauth.debug`

**Default tenant**

Specifies the default tenant that is used for OAuth-based authentication. The default value is **default**. Cross-tenant property that cannot be changed. This corresponds to the following property: com.aris.umc.oauth.tenant

7. Click  **Edit**.

The **Cross-tenant** symbol  indicates that the settings made apply to all tenants on this server and cannot be changed.

8. Adjust your settings.

9. Click  **Save**.

You have customized your system configuration.

### 3.11.2.17 Customize password policy


You can customize the password policies such as length or strength of a password depending on the use of special characters, numbers, etc.

You can customize your system configuration as required. You carry out this part of the configuration in ARIS Administration.

**Prerequisite**

You have the **Technical configuration administrator** function privilege.

**Procedure**

1. Start ARIS Connect.
2. Click your user name and select **Administration**.
3. Click the  **Configuration** tab.
4. Activate **User Management**.
5. Click the arrow next to **Password policy**.
6. Click a configuration category. The following categories are available:

**GENERAL****Minimum length**

Specifies the minimum length of a password. This corresponds to the following property: com.aris.umc.password.length.min

**Maximum length**

Specifies the maximum length of a password. This corresponds to the following property: com.aris.umc.password.length.max

**Minimum number of lowercase letters**

Specifies the minimum number of lowercase letters in a password. This corresponds to the following property: com.aris.umc.password.characters.lowercase.min

**Allow uppercase letters**

Specifies whether uppercase letters are allowed in a password. This corresponds to the following property: `com.aris.umc.password.characters.uppercase.allowed`

**Minimum number of uppercase letters**

Specifies the minimum number of uppercase letters in a password. This corresponds to the following property: `com.aris.umc.password.characters.uppercase.min`

**Allow numbers**

Specifies whether numbers are allowed in a password. This corresponds to the following property: `com.aris.umc.password.characters.numeric.allowed`

**Minimum number of numbers**

Specifies the minimum number of numbers that must be contained in a password. This corresponds to the following property: `com.aris.umc.password.characters.numeric.min`

**Allow special characters**

Specifies whether special characters are allowed in a password. This corresponds to the following property: `com.aris.umc.password.characters.special.allowed`

**Minimum number of special characters**

Specifies the minimum number of special characters in a password. This corresponds to the following property: `com.aris.umc.password.characters.special.min`

**Special characters**

Specifies which characters are special characters. This corresponds to the following property: `com.aris.umc.password.characters.special.set`

**EXPIRING PASSWORDS****Activate expiring passwords**

Specifies whether passwords are set to be valid only for a specific amount of time. This is defined for a single tenant. Once the password has expired, the user is directed to a Web site enabling the password to be changed. Thereafter, the user is redirected to the application. This corresponds to the following property: `com.aris.umc.password.expiry.active`

**Password lifetime**

Specifies the period of time after which a password expires. This is defined for a single tenant. This corresponds to the following property: `com.aris.umc.password.expiry.days`

**ADVANCED SETTINGS****Force change after reset**

Specifies whether a user must change the password if it was reset (and sent via e-mail). This is defined for a single tenant. This corresponds to the following property: `com.aris.umc.password.change.forceAfterReset`

**Force different password**

Specifies whether the new password must differ from the old one. This is defined for a single tenant. This corresponds to the following property: `com.aris.umc.password.change.forceDifference`

**Force change before first login**



Specifies whether a user must change the password upon first login. This is defined for a single tenant. This corresponds to the following property:  
com.aris.umc.password.change.forceOnFirstLogin

**Activate reset confirmation**

Specifies whether a user must confirm a password reset. This corresponds to the following property: com.aris.umc.password.reset.confirmation.active

**Link lifetime**

Specifies the time in seconds during which a user can click the link sent by e-mail in order to confirm the password. This corresponds to the following property:  
com.aris.umc.password.reset.confirmation.ttl

1. Click  **Edit**.
2. Adjust your settings.
3. Click  **Save**.

You have customized your system configuration.


### 3.11.2.18 Customize SAML

You can customize your system configuration as required. You carry out this part of the configuration in ARIS Administration. ARIS supports SAML 2.0.

**Prerequisite**

You have the **Technical configuration administrator** function privilege.

**Procedure**

1. Start ARIS Connect.
2. Click your user name and select **Administration**.
3. Click the  **Configuration** tab.
4. Activate **User Management**.
5. Click the arrow next to **SAML**.
6. Click a configuration category. The following categories are available:

**GENERAL****Use SAML**

Specifies whether an SAML-based login is allowed. This corresponds to the following property:  
com.aris.umc.saml.active

**Binding**

Specifies the binding used for sending authentication requests to the identity provider. Defines how the redirecting of the authentication is performed. The options are **Redirect** or **POST**. This corresponds to the following property: com.aris.umc.saml.binding

**Identity provider ID**

Specifies the ID of the identity provider. This corresponds to the following property:  
com.aris.umc.saml.identity.provider.id

**Service provider ID**

Specifies the ID of the service provider. This corresponds to the following property:  
com.aris.umc.saml.service.provider.id

**Single sign-on URL**

Specifies the end point of the identity provider that is used for single sign-on. This corresponds to the following property: com.aris.umc.saml.identity.provider.sso.url

**Single logout URL**

Specifies the end point of the identity provider that is used for single log-out (page 871). This corresponds to the following property: com.aris.umc.saml.identity.provider.logout.url

**SIGNATURE****Enforce signing of assertions**

Enforces that SAML assertions must be signed. If set, all assertions received by the application must be signed. Assertions sent by the application are signed. This corresponds to the following property: com.aris.umc.saml.signature.assertion.active

**Enforce signing of requests**

Enforces that the SAML authentication requests must be signed. If set, all requests received by the application must be signed. Requests sent by the application are signed. This corresponds to the following property: com.aris.umc.saml.signature.request.active

**Enforce signing of responses**

Specifies whether the SAML authentication response must be signed or not. This corresponds to the following property: com.aris.umc.saml.signature.resonse.active

**Enforce signing of metadata**

Enforces that the SAML metadata must be signed. If set, the service provider metadata file provided by the application is signed. This corresponds to the following property:  
com.aris.umc.saml.signature.metadata.active

**Signature algorithm**

Specifies the algorithm for the signature. The algorithm can be selected from the list. This corresponds to the following property: com.aris.umc.saml.signature.algorithm

**KEYSTORE****Keystore**

Specifies the location of the keystore file used for validating SAML assertions. The keystore must have been uploaded previously. This corresponds to the following property:  
com.aris.umc.saml.keystore.location

** Upload**

Opens the **Keystore** dialog.

**Alias**

Specifies the alias name that is used to access the keystore. This corresponds to the following property: `com.aris.umc.saml.keystore.alias`

**Password**

Specifies the password that is used to access the keystore. This corresponds to the following property: `com.aris.umc.saml.keystore.password`

**Type**

Specifies the type of the keystore to be used. The keystore type can be selected from a list. This corresponds to the following property: `com.aris.umc.saml.keystore.typ`

**TRUSTSTORE****Truststore**

Specifies the location of the truststore file used for validating SAML assertions. The keystore must have been uploaded previously. This corresponds to the following property:  
`com.aris.umc.saml.truststore.location`

 **Upload**

Opens the **Truststore** dialog.

**Alias**

Specifies the alias to be used for accessing the truststore. This corresponds to the following property: `com.aris.umc.saml.truststore.alias`

**Password**

Specifies the password to be used for accessing the truststore. This corresponds to the following property: `com.aris.umc.saml.truststore.password`

**Type**

Specifies the type of the truststore. This corresponds to the following property:  
`com.aris.umc.saml.truststore.type`

**ADVANCED SETTINGS****Login using DN**

Specifies whether login is to be tried using the fully qualified name instead of the user name. This corresponds to the following property: `com.aris.umc.saml.login.mode.dn.active`

**Decompose DN**

Specifies whether the fully qualified name is to be decomposed. This corresponds to the following property: `com.aris.umc.saml.login.mode.keyword.active`

**Keyword**

Specifies which part of the fully qualified name is to be used for login. This corresponds to the following property: `com.aris.umc.saml.login.mode.keyword.name`



**Authentication context classes**

Specifies the authentication context classes to request, meaning which strength of the authentication is defined. For example, you specify that users must use Kerberos if you define Microsoft® Windows as the **Authentication context class** and the **Authentication context comparison** as **exact**. This corresponds to the following property:

com.aris.umc.saml.auth.context.class.refs

**Authentication context comparison**

Specifies the authentication context comparison to request, meaning you specify whether other authentication procedures are allowed or not. For example, you specify that users must use Kerberos if you define Microsoft® Windows as the **Authentication context class** and the **Authentication context comparison** as **exact**. This corresponds to the following property:

com.aris.umc.saml.auth.context.comparison

**NameID format**

Specifies in which format the user ID is transferred to ARIS Administration. This corresponds to the following property: com.aris.umc.saml.auth.nameid.format

**Automatically create user**

Defines whether or not the user specified in the SAML assertion should be created automatically if the user does not already exist. The default value is **false**. The following restrictions will apply to automatically created users:

- The **Login** attribute is set to the name specified in the assertion
- The **distinguished name** attribute is set to the name specified in the assertion (only if the name is in an appropriate format)
- A manual login is not possible if the **password** and **e-mail** attributes are not maintained. This corresponds to the following property: com.aris.umc.saml.login.users.create

**Clock skew**

Specifies the time offset between identity provider and service provider in seconds. Assertions are accepted if they are received within the permitted time frame. This corresponds to the following property: com.aris.umc.saml.assertion.timeoffset


**Assertion lifetime**

Specifies the maximum lifetime of an SAML assertion in seconds. This corresponds to the following property: com.aris.umc.saml.assertion.ttl

**Default tenant**

Specifies the default tenant that is to be used for the SAML-based login. This corresponds to the following property: com.aris.umc.saml.tenant

7. Click  **Edit**.

The **Cross-tenant** symbol  indicates that the settings made apply to all tenants on this server and cannot be changed.

8. Adjust your settings.

9. Click  **Save**.

You have customized your system configuration.



### 3.11.2.18.1 Upload keystore file

You can upload the keystore file.

#### Prerequisite

You have the **Technical configuration administrator** function privilege.

#### Procedure

1. Start ARIS Connect.
2. Click your user name and select **Administration**.
3. Click the  **Configuration** tab.
4. Activate **User Management**.
5. Click the arrow next to **SAML**.
6. Click **Keystore**.
7. Click  **Upload**. The dialog for uploading a file opens.
8. Select the relevant file.

You have uploaded a keystore file.



### 3.11.2.18.2 Upload truststore file

You can upload the truststore file.

#### Prerequisite

You have the **Technical configuration administrator** function privilege.

#### Procedure

1. Start ARIS Connect.
2. Click your user name and select **Administration**.
3. Click the  **Configuration** tab.
4. Activate **User Management**.
5. Click the arrow next to **SAML**.
6. Click **Truststore**.
7. Click  **Upload**. The dialog for uploading a file opens.
8. Select the relevant file.

You have uploaded a truststore file


### 3.11.2.19 Customize security settings

You can customize your system configuration as required. You carry out this part of the configuration in ARIS Administration.

#### Prerequisite

You have the **Technical configuration administrator** function privilege.

#### Procedure

1. Start ARIS Connect.
2. Click your user name and select **Administration**.
3. Click the  **Configuration** tab.
4. Activate **User Management**.
5. Click the arrow next to **Security**.
6. Click a configuration category. The following categories are available:

#### ACCOUNT LOCKOUT

##### Lock users after failed login attempts

Specifies whether a user login is temporarily locked when a user causes too many failed logins. The default value is **false**. This corresponds to the following property:  
`com.aris.umc.authentication.lock.enabled`

##### Attempt limit

Specifies the number of failed login attempts that are allowed before user login is locked. This corresponds to the following property: `com.aris.umc.authentication.lock.counter.limit`

##### Lockout duration

Specifies how long a user login is temporarily locked when a user causes too many failed logins. This is defined in milliseconds. This corresponds to the following property:  
`com.aris.umc.authentication.lock.ttl`

##### Lock counter duration

Time that must elapse before the number of failed login attempts is reset. This is defined in milliseconds. This corresponds to the following property:  
`com.aris.umc.authentication.lock.counter.ttl`

#### USER SESSIONS

##### Session cache size

Specifies how many session IDs are saved in the session renewal cache. When the cache is full, the least recently used sessions are removed. Cross-tenant property that cannot be changed. This corresponds to the following property: `com.aris.umc.session.renewal.cache.size`

##### Session cache lifetime

Specifies the maximum duration in seconds that a renewed session remains in the session renewal cache. A session can be renewed at the earliest after this period of time. Cross-tenant

property that cannot be changed. This corresponds to the following property:

`com.aris.umc.session.renewal.cache.ttl`

### **Session ID generator**

Specifies the random number generator used for generating session IDs. This corresponds to the following property: `com.aris.umc.session.identifier.generator`

### **Minimum length of session ID**

Specifies the minimum length of a session ID in bytes. For security reasons this value should not be less than 32. This corresponds to the following property:

`com.aris.umc.session.identifier.length.min`

### **Maximum length of session ID**

Specifies the maximum length of a session ID in bytes. This corresponds to the following property: `com.aris.umc.session.identifier.length.max`

### **Maximum concurrent sessions**

Specifies the maximum number of concurrent sessions that can be active for a single user. This does not apply to the **arisservice** and **superuser** users. This corresponds to the following property: `com.aris.umc.session.concurrent.max`

## **MULTI-FACTOR AUTHENTICATION**

### **Use multi-factor authentication**

Specifies whether multi-factor authentication is required. The default value is **false**. This corresponds to the following property: `com.aris.umc.authentication.multiFactor.active`

### **Clock skew intervals**

Specifies the clock skew in number of intervals. One-time passwords (OTPs) that are within the valid range [`currentTimeStep - clock_skew`, `currentTimeStep + clock_skew`] are permitted. This is defined in milliseconds. This corresponds to the following property:

`com.aris.umc.authentication.multiFactor.clockSkew`

### **Excluded users**

Specifies a comma-separated list of users for whom the multi-factor authentication is not required. This corresponds to the following property:

`com.aris.umc.authentication.multiFactor.excludedUsers`

## **ADVANCED SETTINGS**

### **Generate user statistics**

Activates the user statistics. The default value is **false**. If you specify this as true, the following properties for distinct user statistics are enabled as default:

- Log authentication
- Log changes to configuration
- Log changes to licenses/privileges
- Log changes to users/user groups
- You can disable/enable the properties mentioned above.

This corresponds to the following property: `com.aris.umc.audit.enabled`

### **Log authentication**

Enables authentication logging. The default value is **true** but this property is only enabled when **Generate user statistics** is specified as **true**. The following user statistics are logged and can be exported (page 42):

- Login failed
- Login successful
- Logged out
- Logged out by administrator

This corresponds to the following property: `com.aris.umc.audit.log.auth.enabled`

### **Log changes to configuration**

Enables logging of changes to the configuration. The default value is **true** but this property is only enabled when **Generate user statistics** is specified as **true**. The following user statistics are logged and can be exported (page 42):

- Organizational chart deleted
- Organizational chart updated
- One-time password requested
- Password changed
- Password reset
- Password transferred between users
- Profile picture deleted
- Profile picture imported
- Privilege assigned
- Privilege assignment removed
- Configuration option changed
- Configuration file deleted
- Configuration file imported
- Data backup imported
- Tenant created
- Tenant deleted
- Tenant updated

This corresponds to the following property: `com.aris.umc.audit.log.conf.enabled`

### **Log changes to licenses/privileges**

Enables logging of changes to licenses or privileges. The default value is **true** but this property is only enabled when **Generate user statistics** is specified as **true**. The following user statistics are logged and can be exported (page 42):

- License deleted
- License imported

- License consumed
- License released
- Violation of user group license limit
- Violation of user license limit
- Replace license file for tenant

This corresponds to the following property: `com.aris.umc.audit.log.license.privilege.enabled`

### **Log changes to users/user groups**

Enables logging of changes to users or user groups. The default value is **true** but this property is only enabled when **Generate user statistics** is specified as **true**. The following user statistics are logged and can be exported (page 42):

- User created
- User deleted
- Escalation manager assignment removed
- User group created
- User group deleted
- Group assigned to group
- Group unassigned from group
- User group updated
- LDAP data imported
- Synchronized with LDAP

This corresponds to the following property: `com.aris.umc.audit.log.user.group.enabled`

### **Force SSO**

Specifies that only an SSO login is allowed. The default value is **false**. This corresponds to the following property: `com.aris.umc.authentication.sso.only`

### **Minimum authentication delay**

Specifies the minimum delay that is added at each login. This is defined in milliseconds. This corresponds to the following property: `com.aris.umc.authentication.delay.min`

### **Maximum authentication delay**

Specifies the maximum delay that is added at each login. This is defined in milliseconds. This corresponds to the following property: `com.aris.umc.authentication.delay.max`

### **Use OTPs**

Specifies whether or not the generation of one-time passwords (OTPs) is allowed. This corresponds to the following property: `com.aris.umc.otp.active`


### **Lifetime**

Specifies the lifetime of a one-time password (OTP) in seconds. Passwords become invalid after this time period at the latest. This corresponds to the following property: `com.aris.umc.otp.ttl`

### **License pools at user group-level**

Specifies that license pools are assigned at the user group level (page 34). If this option is enabled, licenses must not be assigned to users directly, but are to be assigned via user groups only. This corresponds to the following property: `com.aris.umc.license.distribution.handling`

7. Click  **Edit**.

The **Cross-tenant** symbol  indicates that the settings made apply to all tenants on this server and cannot be changed.

8. Adjust your settings.

9. Click  **Save**.

You have customized your system configuration.


### 3.11.2.20 Customize SMTP settings

You can customize your system configuration as required. You carry out this part of the configuration in ARIS Administration.

#### Prerequisite

You have the **Technical configuration administrator** function privilege.

#### Procedure

1. Start ARIS Connect.
2. Click your user name and select **Administration**.
3. Click the  **Configuration** tab.
4. Activate **User Management**.
5. Click the arrow next to **SMTP**.
6. Click a configuration category. The following categories are available:

#### CONNECTION

##### Host name

Specifies the host name or IP address of the SMTP server. Cross-tenant property that cannot be changed. This corresponds to the following property: `com.aris.umc.notification.smtp.host`

##### Port

Specifies the port for the SMTP server. Cross-tenant property that cannot be changed. This corresponds to the following property: `com.aris.umc.notification.smtp.port`

##### Sender address

Specifies the sender address for notifications. This must be a valid e-mail address. Cross-tenant property that cannot be changed. This corresponds to the following property:  
`com.aris.umc.notification.sender`

##### E-mail format

Specifies the default type used for sending notifications. This corresponds to the following property: `com.aris.umc.notification.type`

**Default language**

Specifies the default language in which notifications are sent. If this property is not defined, the server operating system language is used. If a user prefers a different locale, this locale is given preference. Otherwise, the global settings are considered. This corresponds to the following property: `com.aris.umc.notification.language`

**Use authentication**

Specifies whether authentication to the SMTP server is to be used. Cross-tenant property that cannot be changed. This corresponds to the following property:  
`com.aris.umc.notification.smtp.authentication`

**User name**

Specifies the user name that is used for authentication. Cross-tenant property that cannot be changed. This corresponds to the following property: `com.aris.umc.notification.smtp.userName`

**Password**

Specifies the password that is used for authentication to the SMTP server. Cross-tenant property that cannot be changed. This corresponds to the following property:  
`com.aris.umc.notification.smtp.password`

**Use SSL**

Specifies whether TLS is to be used for the connection to the SMTP server. Cross-tenant property that cannot be changed. This corresponds to the following property:  
`com.aris.umc.notification.smtp.ssl`

**SSL mode**

Specifies the method to be used for a trusted connection. **STARTTLS** or **SSL** can be used. STARTTLS transforms a connection that was originally untrusted into an encrypted connection without requiring a specific port for the trusted connection. SSL establishes a trusted connection with a dedicated port immediately. Cross-tenant property that cannot be changed. This corresponds to the following property: `com.aris.umc.notification.smtp.ssl.mode`

**Connection timeout**

Specifies the duration after which the attempt to connect to the SMTP server is canceled. This is defined in milliseconds. This corresponds to the following property:  
`com.aris.umc.notification.smtp.timeout`

**ADVANCED SETTINGS****Debug output**

Activates debugging output. This corresponds to the following property:  
`com.aris.umc.notification.debug`

**Number of retries**

Specifies the number of retries for sending notifications. This corresponds to the following property: `com.aris.umc.notification.smtp.retry.count`

**Minimum wait time**

Specifies the minimum wait time between the retries. This corresponds to the following property:  
`com.aris.umc.notification.smtp.retry.sleep.min`



**Maximum wait time**

Specifies the maximum wait time between the retries. This corresponds to the following property: `com.aris.umc.notification.smtp.retry.sleep.max`

**Send rate**

Specifies the maximum number of messages sent per second. Cross-tenant property that cannot be changed. This corresponds to the following property: `com.aris.umc.notification.smtp.sendrate`

**Reply-to addresses**

Specifies a comma-separated list of reply-to addresses. This corresponds to the following property: `com.aris.umc.notification.smtp.replyto`


**Number of threads**

Specifies the maximum number of threads that are used for sending notifications. Cross-tenant property that cannot be changed. This corresponds to the following property: `com.aris.umc.notification.threads`

**Maximum queue length**

Specifies the maximum number of notifications allowed in a send queue. If the send queue is too full, all subsequent notifications are refused. Cross-tenant property that cannot be changed. This corresponds to the following property: `com.aris.umc.notification.queue`

7. Click  **Edit**.

The **Cross-tenant** symbol  indicates that the settings made apply to all tenants on this server and cannot be changed.

8. Adjust your settings.

9. Click  **Save**.

You have customized your system configuration.


### 3.11.2.21 Customize user settings

You can customize your system configuration as required. You carry out this part of the configuration in ARIS Administration.

#### Prerequisite

You have the **Technical configuration administrator** function privilege.

#### Procedure

1. Start ARIS Connect.
2. Click your user name and select **Administration**.
3. Click the  **Configuration** tab.
4. Activate **User Management**.
5. Click the arrow next to **Users**.
6. Click a configuration category. The following categories are available:

#### GENERAL

##### **E-mail address required**

Specifies whether the **E-mail address** box must be specified for a user. This corresponds to the following property: `com.aris.umc.users.email.required`

##### **Validate e-mail address**

Specifies whether a check is performed when entering the e-mail address of a user to determine whether the e-mail address is valid. This corresponds to the following property:  
`com.aris.umc.users.email.validation.active`

##### **Maximum login name length**

Specifies the maximum length of the login names. This corresponds to the following property:  
`com.aris.umc.users.name.length.max`

##### **Maximum picture size**

Specifies the maximum size of a profile picture in bytes. The default setting is 1048576 bytes. This corresponds to the following property: `com.aris.umc.collaboration.picture.size.max`

##### **Session duration (initial)**

Specifies the initial life span of a standard user session in minutes. This corresponds to the following property: `com.aris.umc.session.ttl`

##### **Session duration (max)**

Specifies the maximum life span of a standard user session in minutes. This corresponds to the following property: `com.aris.umc.session.ttl.max`

##### **Impersonation target users**

Specifies the users for which you want to allow impersonation (page 285). This corresponds to the following property: `com.aris.umc.impersonation.targets`

**Default user group name**

Specifies an existing user group as default user group to which all users created afterwards will be assigned. This corresponds to the following property: `com.aris.umc.default.group`

**Display technical users**

Specifies whether or not user statistics and charts are also displayed for technical users such as **system**, **arisservice**, and **guest**. This corresponds to the following property: `com.aris.umc.chart.display.defaultUsers.enabled`

**ARISSERVICE****Generate, if not available**

Specifies whether the user **arisservice** is generated at startup, if not yet available. This corresponds to the following property: `com.aris.umc.users.service.create`

**User name**

Specifies the login name of the user **arisservice**. This corresponds to the following property: `com.aris.umc.users.service.name`

**E-mail address**

Specifies the e-mail address of the user **arisservice**. This corresponds to the following property: `com.aris.umc.users.service.email`

**Initial password**

Specifies the initial password of the user **arisservice**. This corresponds to the following property: `com.aris.umc.users.service.password`

**GUEST****Generate, if not available**

Specifies whether the user **guest** is generated at startup, if not yet available. This corresponds to the following property: `com.aris.umc.users.guest.create`

**User name**

Specifies the login name of the user **guest**. This corresponds to the following property: `com.aris.umc.users.guest.name`

**E-mail address**

Specifies the e-mail address of the user **guest**. This corresponds to the following property: `com.aris.umc.users.guest.email`

**Initial password**

Specifies the initial password of the user **guest**. This corresponds to the following property: `com.aris.umc.users.guest.password`

**Automatically log in visitors**

Specifies that visitors are automatically logged in as a guest when accessing the ARIS Connect portal. This corresponds to the following property: `com.aris.umc.users.guest.allow.auto.login`

## SUPERUSER

### User name

Specifies the login name of the administrator in ARIS Administration. This corresponds to the following property: `com.aris.umc.users.admin.name`

### E-mail address

Specifies the e-mail address of the administrator. This corresponds to the following property: `com.aris.umc.users.admin.email`

### Initial password

Specifies the initial password of the administrator in ARIS Administration. This corresponds to the following property: `com.aris.umc.users.admin.password`

## SYSTEM

### Generate, if not available

Specifies whether the user **system** is generated at startup, if not yet available. This corresponds to the following property: `com.aris.umc.users.system.create`

### User name

Specifies the login name of the user **system**. This corresponds to the following property: `com.aris.umc.users.system.name`

### E-mail address

Specifies the e-mail address of the user **system**. This corresponds to the following property: `com.aris.umc.users.system.email`

### Initial password



Specifies the initial password of the user **system**. This corresponds to the following property: `com.aris.umc.users.system.password`

### Session duration (initial)

Specifies the initial duration of a system user session in minutes. This corresponds to the following property: `com.aris.umc.session.system.ttl`

### Session duration (max)

Specifies the maximum duration of a system user session in minutes. This corresponds to the following property: `com.aris.umc.session.system.ttl.max`

7. Click  **Edit**.
8. Adjust your settings.
9. Click  **Save**.

You have customized your system configuration.

### 3.11.2.22 Valuable information

This section provides background information to assist you in carrying out the relevant procedures.

#### 3.11.2.22.1 What is impersonation?

Users manage tenants on behalf of the user **superuser**. This requires the **creation** of these users in the user management for the infrastructure tenant, e.g., master (page 354). To use impersonation, users require the **Impersonation** function privilege in the infrastructure tenant. For Tenant Management, they also require the **User administrator**, **Tenant administrator**, and **Technical configuration administrator** function privileges.

In all other operational tenants, e.g., **default**, the user **superuser** must be defined as the target for impersonation (page 281). Impersonation enables users to back up tenants in which they do not exist as a user.

To back up and restore the data, the user **superuser** requires the following function privileges in all operational tenants:

- ARCM administrator
- Analysis administrator
- Collaboration administrator
- Dashboard administrator
- Document administrator
- Database administrator
- License administrator
- Process Governance administrator
- Server administrator
- Technical configuration administrator

#### 3.11.2.22.2 What infrastructure properties are available?

You can customize your system infrastructure (page 355) as required.

Key	Description	Valid input	Example
com.aris.umc.notification.useHttpLinks	E-mails with HTTP URLs only Specifies whether or not the HTTP protocol is used instead of the HTTPS protocol in e-mails.	true, false.	
com.aris.umc.basicauth.tenant	Default tenant Specifies that the default tenant is used for authentication. Cross-tenant property that cannot be changed.	String	

Key	Description	Valid input	Example
com.aris.infrastructure.tenant	<p>Infrastructure tenant</p> <p>Specifies the tenant with special privileges for managing other tenants, components, and the configuration in ARIS Administration.</p> <p>By default, the <b>master</b> tenant is the infrastructure tenant. The system users <b>system</b> and <b>superuser</b> have administrative privileges, i.e., they can access ARIS Administration and Tenant Management.</p> <p>Users with the relevant privileges can specify other infrastructure tenants in ARIS Administration. Cross-tenant property that cannot be changed.</p>		
com.aris.umc.client.connect.timeout	<p>Connection timeout</p> <p>Specifies the duration after which a client's connection attempt is canceled. This is defined in milliseconds.</p> <p>Cross-tenant property that cannot be changed.</p>	Integer > 0	
com.aris.umc.client.connections.max	<p>Maximum connections (total)</p> <p>Specifies the maximum number of connections that may be established simultaneously. If additional connections are to be established, they are refused.</p>	Integer > 0	
com.aris.umc.client.connections.perhost	<p>Maximum connections (per host)</p> <p>Specifies the maximum number of connections that may be established simultaneously per host. If additional connections are to be established, they are refused.</p>	Integer > 0	
com.aris.umc.client.idle.timeout	<p>Idle timeout</p> <p>Specifies the wait time timeout of the ARIS Administration REST client. This is defined in milliseconds.</p>	Integer > 0	

Key	Description	Valid input	Example
com.aris.umc.client.read.timeout	Read timeout Specifies the wait time timeout of the REST client for read access. This is defined in milliseconds.	Integer > 0	
com.aris.umc.client.retry.max	Number of retries Specifies the maximum number of retries.	Integer > 0	
com.aris.umc.config.cache.ttl	Configuration cache lifetime Specifies the lifetime of the configuration cache in seconds. The configuration is reloaded after the time set here. Cross-tenant property that cannot be changed.	Integer > 0	
com.aris.umc.config.encrypted	Encrypted properties Specifies a comma-separated list of encrypted property keys.	List of strings	com.software ag.aris.umc.l dap.service.pw d
com.aris.umc.jaas.login.context	JAAS login context Specifies the login name for the JAAS context. Cross-tenant property that cannot be changed.	String	UMC-DB
com.aris.umc.remote.clients	Allowed remote clients Comma-separated list of client IPs that uses the remote interface of ARIS Administration.	String	
com.aris.umc.ssl.host.verification.active	Host name verification Specifies whether the verification of the SSL host name is activated. Verification is enabled by default.	true, false	
com.aris.umc.version	Build number Build number of ARIS Administration. Cross-tenant property that cannot be changed.	String	9.8.0-SNAPS HOT

Key	Description	Valid input	Example
com.aris.umc.loadbalancer.url	Load balancer URL Specifies the URL of the load balancer. Cross-tenant property that cannot be changed.		

### 3.11.2.22.3 What Kerberos properties are available?

You can configure Kerberos (page 357) as required.

Key	Description	Valid input	Example
com.aris.umc.kerberos.active	Use Kerberos Specifies whether a Kerberos-based login is allowed.	true, false	
com.aris.umc.kerberos.config	Configuration file Storage location of the configuration file for Kerberos. The file can be uploaded directly.	String	./config/Kerberos/krb5.conf
com.aris.umc.kerberos.debug	Debug output Specifies whether debug output is allowed for Kerberos operations.	true, false	
com.aris.umc.kerberos.kdc	KDC Specifies the fully qualified name of the central <b>Key Distribution Center (KDC)</b> . This is usually the fully qualified host name of the LDAP server.	String	049bfs01.me.corp.softwareag.com
com.aris.umc.kerberos.keyTab	Key table Specifies the location of the keytab file that is used for Kerberos tickets. The file can be uploaded directly.	String	C:/safePlace/krb-umc.keytab
com.aris.umc.kerberos.realm	Realm Specifies the realm of Kerberos tickets. Fully qualified domain name in uppercase letters.	String	MY.CORP.SOFTWAREAG.COM



Key	Description	Valid input	Example
com.aris.umc.kerberos.servicePrincipalName	<p>Principal</p> <p>Specifies the name of the user used for verifying Kerberos tickets.</p> <p>If Kerberos is used, each user, computer or service provided by a server must be defined as a principal.</p>	String	MyLogin
com.aris.umc.kerberos.tenant	<p>Default tenant</p> <p>Specifies the default tenant for a Kerberos-based login.</p> <p>Cross-tenant property that cannot be changed.</p>	String	
com.aris.umc.kerberos.validateuser	<p>Validate user name</p> <p>Specifies if the user name needs to be validated for separator. The default value is <b>false</b>.</p>	true, false	
com.aris.umc.kerberos.allowlocalusers	<p>Allow local users</p> <p>Specifies whether the LDAP connection is mandatory for Kerberos-based login. If this option is enabled, Kerberos is used for the login of local users also.</p>	true, false	

### 3.11.2.22.4 What LDAP properties are available?

You can customize LDAP (page 363) as required.

Key	Description	Valid input	Example
com.aris.umc.ldap.active	Activate LDAP Specifies whether or not the LDAP integration is enabled.	true, false	
com.aris.umc.ldap.active	Activate multiple LDAP integration Specifies whether or not integration of multiple LDAP servers is to be activated. The default value is <b>false</b> .	true, false	
com.aris.umc.ldap.connection.count	Configured LDAP server count Displays the number of LDAP servers allowed.	Integer	2
com.aris.umc.ldap.attribute.memberof.resolveOnFirstLogin	Update group associations at login Specifies whether the <b>memberOf</b> attribute is read ( <b>true</b> ) or not ( <b>false</b> ). If the value of the property is <b>true</b> , the <b>memberOf</b> attribute is read and the referenced groups are automatically imported. The import of the groups occurs when a user from the group logs in for the first time.	true, false	
com.aris.umc.ldap.user.attributes.paging.enabled	Use attribute value paging Specifies whether a page break is to be inserted if the server-side limit for valid values is exceeded for attributes, e.g., if more than 1,500 attribute values exist.	true, false	
com.aris.umc.ldap.auth.only	Prevent login of manually created users Specifies that only LDAP users may log in. This does not apply to the <b>arisservice</b> , <b>guest</b> , <b>superuser</b> , and <b>system</b> users.	true, false	
com.aris.umc.ldap.connection.id plus the ID defined.	ID Specifies the unique ID of this specific LDAP connection.	String	

Key	Description	Valid input	Example
com.aris.umc.ldap.connection.name plus the ID defined.	Name Specifies the name of this specific LDAP connection.	String	
com.aris.umc.ldap.url	Server URL Specifies the URL of the LDAP server.	String	
com.aris.umc.ldap.backup.url	Server URL (fallback) Specifies the fallback URL of the LDAP server. This URL is only used if the server cannot be reached via its primary URL.	String	ldap://0815bfs01.my.corp.com:389
com.aris.umc.ldap.connection.concurrent	Simultaneous connections Specifies the maximum number of simultaneous connections to the same LDAP server. If additional connections are to be established, they are refused.	Integer > 0	
com.aris.umc.ldap.connection.timeout	Connection timeout Specifies the duration after which the attempt to connect to the LDAP server is canceled. This is defined in milliseconds.		
com.aris.umc.ldap.connection.concurrent.timeout	Pool wait time Specifies the maximum amount of time in milliseconds that a connection request may take if the maximum number of connections to the LDAP server was exceeded.	Integer > 0	
com.aris.umc.ldap.connection.pool.size	Pool size Specifies the maximum number of connections that are ready for reuse in a pool. The connection that was used last is discarded when the pool is full.	Integer > 0	
com.aris.umc.ldap.connection.pool.timeout	Pool time Specifies the maximum amount of time that a connection remains in a pool. The connection is removed from the pool at the latest after this	Integer > 0	

Key	Description	Valid input	Example
	period of time.		
com.aris.umc.ldap.entity.cache.size	Cache size Specifies the maximum number of LDAP entities that are cached during an import.	Integer > 0	3500
com.aris.umc.ldap.filter.group	Group search filter Specifies the query filter for LDAP groups.	String	(&(objectClass=role)(name=y*))
com.aris.umc.ldap.filter.user	User search filter Specifies the query filter for LDAP users.	String	(&(sAMAccountName=*))
com.aris.umc.ldap.group.import.parent.enabled	Import superior group Specifies whether the superior group is to be imported automatically when the group is imported.	true, false	false
com.aris.umc.ldap.group.searchpath	Group search paths Specifies a semicolon-separated list of all LDAP search paths for user groups. Overwrites the list of general search paths.	String	OU\=distribution lists\,DC\=my,DC\=corp\,DC\=company\,DC\=com
com.aris.umc.ldap.searchpath	Search paths Specifies a semicolon-separated list of all LDAP search paths.	String	OU\=stadt\,OU\=location\, OU\=employees\,DC\=my\,DC\=corp\, DC\=company\,DC\=com
com.aris.umc.ldap.pagesize	Page size Specifies the maximum number of entries that are loaded in a single LDAP query.	Integer > 0	

Key	Description	Valid input	Example
com.aris.umc.ldap.read.timeout	Read timeout Specifies the maximum amount of time that read access may take. This is defined in milliseconds.	Integer > 0	
com.aris.umc.ldap.recursion.depth	Recursion depth Specifies the recursion depth that is to be used for nested groups and users.	<b>1</b> means one level, <b>0</b> means all	1
com.aris.umc.ldap.referral	Referrals Defines how referrals to other LDAP systems are processed.	<ul style="list-style-type: none"> <li>▪ <b>follow</b> means that the referral is automatically followed.</li> <li>▪ <b>ignore</b> means that referrals are ignored.</li> <li>▪ <b>throw</b> means that referrals are checked.</li> </ul>	ignore
com.aris.umc.ldap.service.pwd	Password Specifies the password of the LDAP user.	String	
com.aris.umc.ldap.service.user	User name Specifies the user name of the LDAP user.	String	arisldapservice
com.aris.umc.ldap.ssl	Use SSL Specifies if SSL is to be used.	true, false	
com.aris.umc.ldap.ssl.certificate.validation.active	Verify certificates Specifies whether an SSL certificate is to be verified.	true, false	
com.aris.umc.ldap.ssl.host.validation.active	Verify host names Specifies if an SSL host is to be verified.	true, false	
com.aris.umc.ldap.ssl.mode	SSL mode Specifies the SSL mode (page 370).	String	STARTTLS
com.aris.umc.ldap.ssl.truststore.location	Truststore Specifies where to look for the truststore.	String	

Key	Description	Valid input	Example
com.aris.umc.ldap.ssl.truststore.password	Password Specifies the truststore password.	String	
com.aris.umc.ldap.ssl.truststore.type	Type Specifies the truststore type to be used.	String	
com.aris.umc.ldap.sync.skipOnFault	Skip errors Specifies whether the LDAP import ignores users or user groups for which errors occurred without showing an error message.	true (without message), false (with error message)	
com.aris.umc.ldap.sync.useDnAsGuid	Use DN as GUID Specifies that the fully qualified name (distinguished name) is used as GUID.	true, false	
com.aris.umc.ldap.user.importOnLogin	Import user at login Specifies whether an LDAP user is to be imported automatically during the login attempt.	true, false	false
com.aris.umc.ldap.user.importOnLogin	Import user at login Specifies whether an LDAP user is to be imported automatically during the login attempt.	true, false	false
com.aris.umc.ldap.user.searchpath	User search paths Specifies a semicolon-separated list of LDAP search paths for users. Overwrites the list of general search paths.	String	OU\=employees\,DC\=my\,DC\=corp\, DC\=company\,DC\=com
com.aris.umc.ldap.sync.members.searchBottomUp	Use bottom-up method Specifies whether the bottom-up method ( <b>memberOf</b> attribute) or the top-down method ( <b>hasMember</b> attribute) is applied when associating users to user groups.		

<b>Key</b>	<b>Description</b>	<b>Valid input</b>	<b>Example</b>
com.aris.umc.ldap.debug	Debug output Specifies whether or not debug information for LDAP operations are output.	true, false	false
com.aris.umc.ldap.sync.user.importgroups	Import user groups when synchronizing Specifies whether additional user groups are to be imported during user synchronization.	true, false	false

### 3.11.2.22.5 What LDAP attribute mapping properties are available?

You can customize the LDAP attribute mappings (page 363) as required.

Key	Description	Valid input	Example
com.aris.umc.ldap.attribute.distinguishedname	DN Specifies the fully qualified name (distinguished name).	String	distinguishedName
com.aris.umc.ldap.attribute.group.name	Name Specifies the group name.	String	Group name
com.aris.umc.ldap.attribute.guid	GUID Specifies the LDAP GUID.	String	Object GUID
com.aris.umc.ldap.attribute.hasmember	hasMember Specifies the attribute that references the members of a group.	String	hasMember
com.aris.umc.ldap.attribute.memberof	memberOf Specifies the attribute that references the groups of a user.	String	memberOf
com.aris.umc.ldap.attribute.objectclass	objectClass Specifies the attribute that contains the object class.	String	objectClass
com.aris.umc.ldap.attribute.user.email	E-mail address Specifies the e-mail address of a user.	String	john.smith@softwareag.com
com.aris.umc.ldap.attribute.user.firstname	First name Specifies the first name of a user.	String	John
com.aris.umc.ldap.attribute.user.lastname	Last name Specifies the last name of a user.	String	Smith
com.aris.umc.ldap.attribute.user.name	Name Specifies the user name of a user.	String	Fragment
com.aris.umc.ldap.attribute.user.phone	Telephone number Specifies the telephone number of a user.	String	+491234567
com.aris.umc.ldap.attribute.user.picture	Picture Specifies the picture of a user.	Location of an image	
com.aris.umc.ldap.group.attributes.userdefined	User-defined Specifies a comma-separated list of	String	Description, operating



<b>Key</b>	<b>Description</b>	<b>Valid input</b>	<b>Example</b>
ed	LDAP attributes that are to be imported as user-defined attributes of a group.j		system
com.aris.umc.ldap.group.objectclass	Group object class Object class of the LDAP groups.	String	Group
com.aris.umc.ldap.user.attributes.userdefined	User-defined Specifies a comma-separated list of LDAP attributes that are to be imported as user-defined attributes of a user.	String	Description, operating system
com.aris.umc.ldap.user.objectclass	User object class Specifies the object class of the LDAP user.	String	Organizational unit

### 3.11.2.22.6 Which properties are available for user-defined notifications?

You can customize the user-defined notifications (page 377) as required.

Variables (page 424) may be used to personalize the content of a notification of ARIS Administration. Variables can be used in both notification subject and body.

Key	Description	Valid input	Example
com.aris.umc.notification.licenseExpired.enabled	Notify about license expiration Specifies whether administrators with the <b>License management</b> privilege are to be notified when a license has expired.	true, false	true
com.aris.umc.notification.licenseExpired.message	License has expired - Message Specifies the text of the notification that is sent when a license has expired.	String	
com.aris.umc.notification.licenseExpired.subject	License has expired - Subject Specifies the subject of the notification that is sent when a license has expired.	String	
com.aris.umc.notification.licenseExpired.templates	License has expired - HTML template Specifies the HTML template used for the notification that is sent when an administrator is to be notified that a license has expired. The template must have been uploaded previously.		
com.aris.umc.notification.licenseExpiring.enabled	Notify before license expiration Specifies whether administrators with the <b>License management</b> privilege are to be notified when a license is about to expire.	true, false	true
com.aris.umc.notification.licenseExpiring.message	License will expire soon - Message Specifies the text of the notification that is sent when a license is about to expire.	String	
com.aris.umc.notification.licenseExpiring.subject	License will expire soon - Subject Specifies the subject of the notification that is sent when a license is about to expire.	String	

Key	Description	Valid input	Example
com.aris.umc.notification.licenseExpiring.template	License will expire soon - HTML template Specifies the HTML template used for the notification that is sent when an administrator is to be notified that a license will soon expire. The template must have been uploaded previously.		
com.aris.umc.notification.licenseExpiring.threshold	Days before expiration Specifies how many days before license expiration a notification is sent.	Integer > 0	14
com.aris.umc.notification.licenseSeatsConsumed.enabled	Notify about license exhaustion Specifies whether administrators with the <b>License management</b> privilege are to be notified when the total number of logins allowed for the license is reached.	true, false	true
com.aris.umc.notification.licenseSeatsConsumed.message	License exhaustion - Message Specifies the text of the notification that is sent when the total number of logins allowed for the license is reached.	String	
com.aris.umc.notification.licenseSeatsConsumed.template	License exhaustion - HTML template Specifies the HTML template used for the notification that is sent when an administrator is to be notified that the total number of logins allowed with a license is reached. The template must have been uploaded previously.		
com.aris.umc.notification.licenseSeatsConsumed.subject	License exhaustion - Subject Specifies the subject of the notification that is sent when the total number of logins allowed for the license is reached.	String	
com.aris.umc.notification.passwordChanged.enabled	Notify about password change Specifies whether users are to be notified after their password has been changed.	true, false	
com.aris.umc.notification.passwordChanged.message	Password change - Message Specifies the text of the notification that is sent when a password has been changed.	String	

Key	Description	Valid input	Example
com.aris.umc.notification.passwordChanged.subject	Password change - Subject Specifies the subject of the notification that is sent when a password has been changed.	String	
com.aris.umc.notification.passwordChanged.template	Password change - HTML template Specifies the HTML template used for the notification that is sent when a user is to be notified about a password change. The template must have been uploaded previously.		
com.aris.umc.notification.passwordReset.enabled	Notify about password reset Specifies whether users are to be notified after their password has been reset.	true, false	
com.aris.umc.notification.passwordReset.message	Password reset - Message Specifies the text of the notification that is sent when a password has been reset.	String	
com.aris.umc.notification.passwordReset.subject	Password reset - Subject Specifies the subject of the notification that is sent when a password has been reset.	String	
com.aris.umc.notification.passwordReset.template	Password reset - HTML template Specifies the HTML template used for the notification that is sent when a user is to be notified about a password reset. The template must have been uploaded previously.		
com.aris.umc.notification.passwordResetRequested.enabled	Notify about password reset request Specifies that users are to be notified if they have requested a password reset.		
com.aris.umc.notification.passwordResetRequested.message	Password reset request - Message Specifies the text of the notification that is sent when a user has requested a password reset.		
com.aris.umc.notification.passwordResetRequested.subject	Password reset request - Subject Specifies the subject of the notification that is sent when a user has requested a password reset.		

Key	Description	Valid input	Example
com.aris.umc.notification.passwordResetRequested.template	Password reset request - HTML template Specifies the HTML template used for the notification that is sent when a user has requested a password reset. The template must have been uploaded previously.		
com.aris.umc.notification.tenantDeleted.enabled	Notify about deletion Specifies whether a notification is sent if a tenant was deleted.	true, false	true
com.aris.umc.notification.tenantDeleted.message	Tenant deleted - Message Specifies the text of the notification that is sent if a tenant was deleted.	String	
com.aris.umc.notification.tenantDeleted.sendToAll.enabled	Notify all users about deletion Specifies whether a notification is to be sent to all users.	true, false	false
com.aris.umc.notification.tenantDeleted.subject	Tenant deleted - Subject Specifies the subject of the notification that is sent if a tenant was deleted.	String	
com.aris.umc.notification.tenantDeleted.template	Tenant deleted - HTML template Specifies the HTML template used for the notification that is sent when an administrator is to be notified that a tenant has been deleted. The template must have been uploaded previously.		
com.aris.umc.notification.tenantDisabled.enabled	Notify about deactivation Specifies whether a notification is sent if a tenant was deactivated.	true, false	true
com.aris.umc.notification.tenantDisabled.message	Tenant deactivated - Message Specifies the text of the notification that is sent if a tenant was deactivated.	String	
com.aris.umc.notification.tenantDisabled.sendToAll.enabled	Notify all users about deactivation Specifies whether a notification is sent to all users if a tenant was deactivated.	true, false	false
com.aris.umc.notification.tenantDisabled.subject	Tenant deactivated - Subject Specifies the subject of the notification that is sent if a tenant was deactivated.	String	
com.aris.umc.notification.tenantDisabled.template	Tenant deactivated - HTML template		

Key	Description	Valid input	Example
on.tenantDisabled.template	Specifies the HTML template used for the notification that is sent when an administrator is to be notified that a tenant has been deactivated. The template must have been uploaded previously.		
com.aris.umc.notification.tenantEnabled.enabled	Notify about activation Specifies whether a notification is sent if a tenant was activated.	true, false	true
com.aris.umc.notification.tenantEnabled.message	Tenant activated - Message Specifies the text of the notification that is sent if a tenant was activated.	String	
com.aris.umc.notification.tenantEnabled.sendToAll.enabled	Notify all users about activation Specifies whether a notification is sent to all users if a tenant was activated.	true, false	false
com.aris.umc.notification.tenantEnabled.subject	Tenant activated - Subject Specifies the subject of the notification that is sent if a tenant was activated.	String	
com.aris.umc.notification.tenantEnabled.template	Tenant activated - HTML template Specifies the HTML template used for the notification that is sent when an administrator is to be notified that a tenant has been activated. The template must have been uploaded previously.		
com.aris.umc.notification.userCreated.enabled	Notify about creation Specifies whether users are to be notified after they have been created.	true, false	
com.aris.umc.notification.userCreated.message	User created - Message Specifies the text of the notification that is sent when a user has been created.	String	
com.aris.umc.notification.userCreated.subject	User created - Subject Subject of the notification that is sent when a user has been created.	String	
com.aris.umc.notification.userCreated.template	User created - HTML template Specifies the HTML template used for the notification that is sent when users are notified that they have been created. The template must have been uploaded		

Key	Description	Valid input	Example
	previously.		
com.aris.umc.notification.userDisabled.enabled	Notify about deactivation Specifies whether users are to be notified after they have been deactivated.	true, false	
com.aris.umc.notification.userDisabled.message	User deactivated - Message Specifies the text of the notification that is sent when a user has been deactivated.	String	
com.aris.umc.notification.userDisabled.subject	User deactivated - Subject Specifies the subject of the notification that is sent when a user has been deactivated.	String	
com.aris.umc.notification.userDisabled.template	User deactivated - HTML template Specifies the HTML template used for the notification that is sent when users are notified that they have been deactivated. The template must have been uploaded previously.		
com.aris.umc.notification.userEnabled.enabled	Notify about activation Specifies whether users are to be notified after they have been activated.	true, false	
com.aris.umc.notification.userEnabled.message	User activated - Message Specifies the text of the notification that is sent when a user has been activated.	String	
com.aris.umc.notification.userEnabled.subject	User activated - Subject Specifies the subject of the notification that is sent when a user has been activated.	String	
com.aris.umc.notification.userEnabled.template	User activated - HTML template Specifies the HTML template used for the notification that is sent when users are notified that they have been activated. The template must have been uploaded previously.		
com.aris.umc.notification.otpSecretChanged.enabled	Notify about token secret change Specifies whether users are to be notified if their token secret has been changed.	true, false	

Key	Description	Valid input	Example
com.aris.umc.notification.otpSecretChanged.subject	Token secret change - Subject Subject of the notification that is sent when the token secret has been changed by a user.	String	
com.aris.umc.notification.otpSecretChanged.message	Token secret change - Message Text of the notification that is sent when the token secret has been changed by a user.	String	
com.aris.umc.notification.otpSecretChanged.template	Token secret change - HTML template Specifies the HTML template used for the notification that is sent when a user has changed the token secret. The template must have been uploaded previously.		
com.aris.umc.notification.otpRequested.enabled	Notify about one-time password request Specifies whether users are to be notified if they have requested a one-time password.	true, false	
com.aris.umc.notification.otpRequested.subject	One-time password request - Subject Subject of the notification that is sent when a user has requested a one-time password.	String	
com.aris.umc.notification.otpRequested.message	One-time password request - Message Text of the notification that is sent when a user has requested a one-time password.	String	
com.aris.umc.notification.otpRequested.message	One-time password request - HTML template Specifies the HTML template used for the notification that is sent when a user has requested a one-time password. The template must have been uploaded previously.		
com.aris.umc.notification.signupCompleted.enabled	Notify about signup Specifies whether administrators are to be notified if a new user has signed up.	true, false	
com.aris.umc.notification.signupCompleted.subject	Signup complete - Subject Subject of the notification that is sent when a new user has signed up.	String	
com.aris.umc.notification.signupCompleted.message	Signup complete - Message Text of the notification that is sent when a new user has signed up.	String	



Key	Description	Valid input	Example
com.aris.umc.notification.signupCompleted.template	Signup complete - HTML template Specifies the HTML template used for the notification that is sent when a new user has signed up. The template must have been uploaded previously.		

### 3.11.2.22.7 What variables can be used for user-defined notifications?

Variables (page 424) may be used to personalize the content of a notification of ARIS Administration. Variables can be used in both notification subject and body. The following variables are supported:

#### TEXT NOTIFICATIONS:

- @tenant.name - Name of the tenant the user belongs to
- @user.login - Login of a user receiving notifications
- @user.givenName - First name of a user receiving notifications
- @user.lastName - Last name of a user receiving notifications
- @user.password - (New) password of a user receiving notifications

The following variables are supported for license-related events:

- @license.serial - Serial number of a license
- @license.productName - Name of a licensed product
- @license.expiry - Expiration date of a licensed product in the format YYYY-MM-DD

#### HTML NOTIFICATION

- \${tenant.name} - Name of the tenant the user belongs to
- \${user.login} - Login of a user receiving notifications
- \${user.givenName} - First name of a user receiving notifications
- \${user.lastName} - Last name of a user receiving notifications
- \${user.password} - (New) password of a user receiving notifications

The following variables are supported for license-related events:

- \${license.serial} - Serial number of a license
- \${license.productName} - Name of a licensed product
- \${license.expiry} - Expiration date of a licensed product in the format YYYY-MM-DD

### 3.11.2.22.8 What OAuth properties are available?

OAuth is only relevant for API Portal.

You can configure OAuth (page 386) as required.

Key	Description	Valid input	Example
com.aris.umc.oauth.active	Use OAuth Specifies whether OAuth is allowed. The default value is <b>false</b> .	true, false	
com.aris.umc.oauth.api.keys	API keys Specifies a comma-separated list of API keys.	String	
com.aris.umc.oauth.api.secrets	API secrets Specifies a comma-separated list of API secrets.	String	
com.aris.umc.oauth.debug	Debug output Specifies whether debug output is enabled for OAuth operations. The default value is <b>false</b> .	true, false	
com.aris.umc.oauth.providers	OAuth providers Specifies the social network providers for which the login is allowed.	Comma-separated list	Google, Facebook
com.aris.umc.oauth.tenant	Default tenant Specifies the default tenant that is used for OAuth-based authentication. The default value is <b>default</b> .	String	default

### 3.11.2.22.9 What properties are available for password policies?

You can customize your password policies (page 387) as required.

Key	Description	Valid input	Example
com.aris.umc.password.characters.lowercase.min	Minimum number of lowercase letters Specifies the minimum number of lowercase letters in a password.	Integer > 0	
com.aris.umc.password.characters.numeric.allowed	Allow numbers Specifies whether numbers are allowed in a password.	true, false	
com.aris.umc.password.characters.numeric.min	Minimum number of numbers Specifies the minimum number of numbers that must be contained in a password.	Integer > 0	
com.aris.umc.password.characters.special.allowed	Allow special characters Specifies whether special characters are allowed in a password.	true, false	
com.aris.umc.password.characters.special.min	Minimum number of special characters Specifies the minimum number of special characters in a password.	Integer > 0	
com.aris.umc.password.characters.special.set	Special characters Specifies which characters are special characters.	String	*\$-+?&=!% {}/ _
com.aris.umc.password.characters.uppercase.allowed	Allow uppercase letters Specifies whether uppercase letters are allowed in a password.	true, false	
com.aris.umc.password.characters.uppercase.min	Minimum number of uppercase letters Specifies the minimum number of uppercase letters in a password.	Integer > 0	
com.aris.umc.password.length.max	Maximum length Specifies the maximum length of a password.	0 < Integer > 47	
com.aris.umc.password.length.min	Minimum length Specifies the minimum length of a password.	Integer > 0	

Key	Description	Valid input	Example
com.aris.umc.password.expiry.active	<p>Activate expiring passwords</p> <p>Specifies whether passwords are set to be valid only for a specific amount of time. This is defined for a single tenant. Once the password has expired, the user is directed to a Web site enabling the password to be changed. Thereafter, the user is redirected to the application.</p>	true, false	
com.aris.umc.password.expiry.days	<p>Password lifetime</p> <p>Specifies the period of time after which a password expires. This is defined for a single tenant.</p>	Integer > 0	
com.aris.umc.password.change.forceOnFirstLogin	<p>Force change before first login</p> <p>Specifies whether a user must change the password upon first login. This is defined for a single tenant.</p>	true, false	
com.aris.umc.password.change.forceAfterReset	<p>Force change after reset</p> <p>Specifies whether a user must change the password if it was reset (and sent via e-mail). This is defined for a single tenant.</p>	true, false	
com.aris.umc.password.change.forceDifference	<p>Force different password</p> <p>Specifies whether the new password must differ from the old one. This is defined for a single tenant.</p>	true, false	
com.aris.umc.password.reset.confirmation.active	<p>Activate reset confirmation</p> <p>Specifies whether a user must confirm a password reset.</p>	true, false	
com.aris.umc.password.reset.confirmation.ttl	<p>Link lifetime</p> <p>Specifies the time in seconds during which a user can click the link sent by e-mail in order to confirm the password.</p>	Integer > 0	30

### 3.11.2.22.10 What SAML properties are available?

You can configure SAML (page 389) as required.

Key	Description	Valid input
com.aris.umc.saml.active	Use SAML Specifies whether an SAML-based login is allowed.	true, false
com.aris.umc.saml.binding	Binding Specifies the binding used for sending authentication requests to the identity provider. Defines how the redirecting of the authentication is performed. The options are <b>Redirect</b> or <b>POST</b> .	
com.aris.umc.saml.identity.provider.id	Identity provider ID Specifies the ID of the identity provider.	String
com.aris.umc.saml.service.provider.id	Service provider ID Specifies the ID of the service provider.	String
com.aris.umc.saml.identity.provider.single.sign.on.url	Single sign-on URL Specifies the end point of the identity provider that is used for single sign-on.	
com.aris.umc.saml.identity.provider.single.logout.url	Single logout URL Specifies the end point of the identity provider that is used for single log-out (page 871).	
com.aris.umc.saml.signature.assertion.active	Sign assertions Enforces that SAML assertions must be signed. If set, all assertions received by the application must be signed. Assertions sent by the application are signed.	true, false
com.aris.umc.saml.signature.request.active	Sign requests Enforces that the SAML authentication requests must be signed. If set, all requests received by the application must be signed. Requests sent by the application are signed.	true, false
com.aris.umc.saml.signature.response.active	Sign responses Enforces that the SAML response must be signed. If set, all responses received by the application must be signed. Responses sent by the application are signed.	true, false

Key	Description	Valid input
com.aris.umc.saml .signature.metadata a.active	Sign metadata Enforces that the SAML metadata must be signed. If set, the service provider metadata file provided by the application is signed.	true, false
com.aris.umc.saml .signature.algorith m	Signature algorithm Specifies the algorithm for the signature. The algorithm can be selected from the list.	String
com.aris.umc.saml .keystore.location	Keystore Specifies the location of the keystore file used for validating SAML assertions. The keystore must have been uploaded previously.	
com.aris.umc.saml .keystore.alias	Alias Specifies the alias name that is used to access the keystore.	String
com.aris.umc.saml .keystore.passwor d	Password Specifies the password that is used to access the keystore.	String
com.aris.umc.saml .keystore.typ	Type Specifies the type of the keystore to be used. The keystore type can be selected from a list.	String
com.aris.umc.saml .truststore.location	Truststore Specifies the location of the truststore file used for validating SAML assertions. The keystore must have been uploaded previously.	
com.aris.umc.saml .truststore.alias	Alias Specifies the alias to be used for accessing the truststore.	String
com.aris.umc.saml .truststore.passwo rd	Password Specifies the password to be used for accessing the truststore.	String
com.aris.umc.saml .truststore.type	Type Specifies the type of the truststore.	String
com.aris.umc.saml .login.mode.dn.act ive	Login using DN Specifies whether login is to be tried using the fully qualified name instead of the user name.	true, false

Key	Description	Valid input
com.aris.umc.saml .login.mode.keyword.active	Decompose DN Specifies whether the fully qualified name is to be decomposed.	true, false
com.aris.umc.saml .login.mode.keyword.name	Keyword Specifies which part of the fully qualified name is to be used for login.	String
com.aris.umc.saml .auth.context.class.refs	Authentication context classes Specifies the authentication context classes to request, meaning which strength of the authentication is defined. For example, you specify that users must use Kerberos if you define Microsoft® Windows as the <b>Authentication context class</b> and the <b>Authentication context comparison</b> as <b>exact</b> .	String
com.aris.umc.saml .auth.context.comparison	Authentication context comparison Specifies the authentication context comparison to request, meaning you specify whether other authentication procedures are allowed or not. For example, you specify that users must use Kerberos if you define Microsoft® Windows as the <b>Authentication context class</b> and the <b>Authentication context comparison</b> as <b>exact</b> .	String
com.aris.umc.saml .auth.nameid.format	NameID format Specifies in which format the user ID is transferred to ARIS Administration.	String
com.aris.umc.saml .login.users.create	Automatically create user Defines whether or not the user specified in the SAML assertion should be created automatically if the user does not already exist. The default value is <b>false</b> . The following restrictions will apply to automatically created users: <ul style="list-style-type: none"> <li>▪ The <b>Login</b> attribute is set to the name specified in the assertion</li> <li>▪ The <b>distinguished name</b> attribute is set to the name specified in the assertion (only if the name is in a appropriate format)</li> <li>▪ A manual login is not possible if the <b>password</b> and <b>e-mail</b> attributes are not maintained.</li> </ul>	true, false

Key	Description	Valid input
com.aris.umc.saml.assertion.querystring	SAML assertion as a query string Defines whether or not the SAML assertion can be part of a query string. Cross-tenant property that cannot be changed.	true, false
com.aris.umc.saml.roles.extension	Include roles Specifies whether or not roles should be included. Cross-tenant property that cannot be changed.	true, false
com.aris.umc.saml.roles.attributeName	Attribute name for reading roles from assertion Defines the attribute name to be used to read roles from an SAML assertion. Cross-tenant property that cannot be changed.	String
com.aris.umc.saml.assertion.timeoffset	Clock skew Specifies the time offset between identity provider and service provider in seconds. Assertions are accepted if they are received within the permitted time frame.	
com.aris.umc.saml.assertion.ttl	Assertion lifetime Specifies the maximum lifetime of an SAML assertion in seconds.	
com.aris.umc.saml.tenant	Default tenant Specifies the default tenant that is to be used for the SAML-based login.	String
com.aris.umc.saml.extension.fname.attributeName	Attribute name for reading first names from assertion Specifies the attribute name to be used for reading first names from a SAML assertion. Cross-tenant property that cannot be changed.	String
com.aris.umc.saml.extension.enable	Use multiple values from SAML assertion Specifies whether or not the SAML extension is to be enabled so that multiple values can be read from the SAML assertion. Cross-tenant property that cannot be changed.	true, false
com.aris.umc.saml.extension.lname.attributeName	Attribute name for reading last names from assertion Specifies the attribute name to be used for reading last names from a SAML assertion. Cross-tenant property that cannot be changed.	String



Key	Description	Valid input
com.aris.umc.saml .extension.email.a ttributeName	Attribute name for reading e-mail addresses from assertion Specifies the attribute name to be used for reading e-mail addresses from a SAML assertion. Cross-tenant property that cannot be changed.	String
com.aris.umc.saml .extension.subdom ain.attributeName	Attribute name for reading subdomains from assertion Specifies the attribute name to be used for reading subdomains from a SAML assertion. Cross-tenant property that cannot be changed.	String
com.aris.umc.saml .extension.assertio n.validation.active	Enable assertion validation Specifies whether or not assertion validation is to be enabled.	true, false

### 3.11.2.22.11 What security properties are available?

You can customize the security settings (page 394) as required.

Key	Description	Valid input	Example
com.aris.umc.authentication.lock.enabled	Lock users after failed login attempts Specifies whether a user login is temporarily locked when a user causes too many failed logins. The default value is <b>false</b> .	true, false	
com.aris.umc.authentication.delay.max	Maximum authentication delay Specifies the maximum delay that is added at each login. This is defined in milliseconds.	Integer > 0	
com.aris.umc.authentication.delay.min	Minimum authentication delay Specifies the minimum delay that is added at each login. This is defined in milliseconds.	Integer > 0	
com.aris.umc.authentication.lock.counter.limit	Attempt limit Specifies the number of failed login attempts that are allowed before user login is locked.	Integer > 0	
com.aris.umc.authentication.lock.counter.ttl	Lock counter duration Time that must elapse before the number of failed login attempts is reset. This is defined in milliseconds.	Integer > 0	
com.aris.umc.authentication.lock.ttl	Lockout duration Specifies how long a user login is temporarily locked when a user causes too many failed logins. This is defined in milliseconds.	Integer > 0	
com.aris.umc.authentication.multiFactor.active	Use multi-factor authentication Specifies whether multi-factor authentication is required. The default value is <b>false</b> .	true, false	

Key	Description	Valid input	Example
com.aris.umc.authentication.multiFactor.clockSkew	Clock skew intervals Specifies the clock skew in number of intervals. One-time passwords (OTPs) that are within the valid range [currentTimeStep - clock_skew, currentTimeStep + clock_skew] are permitted. This is defined in milliseconds.	Integer > 0	
com.aris.umc.authentication.multiFactor.excludedUsers	Excluded users Specifies a comma-separated list of users for whom the multi-factor authentication is not required.	String	
com.aris.umc.authentication.sso.only	Force SSO Specifies that only an SSO login is allowed. The default value is <b>false</b> .	true, false	
com.aris.umc.session.concurrent.max	Maximum concurrent sessions Specifies the maximum number of concurrent sessions that can be active for a single user. This does not apply to the <b>arisservice</b> and <b>superuser</b> users.	Integer > 0	
com.aris.umc.session.identifier.generator	Session ID generator Specifies the random number generator used for generating session IDs.	String	
com.aris.umc.session.identifier.length.max	Maximum length of session ID Specifies the maximum length of a session ID in bytes.	Integer > 0	
com.aris.umc.session.identifier.length.min	Minimum length of session ID Specifies the minimum length of a session ID in bytes. For security reasons this value should not be less than 32.	Integer > 0	

Key	Description	Valid input	Example
com.aris.umc.session.renewal.cache.size	<p>Session cache size</p> <p>Specifies how many session IDs are saved in the session renewal cache. When the cache is full, the least recently used sessions are removed.</p> <p>Cross-tenant property that cannot be changed.</p>	Integer > 0	
com.aris.umc.session.renewal.cache.time	<p>Session cache lifetime</p> <p>Specifies the maximum duration in seconds that a renewed session remains in the session renewal cache. A session can be renewed at the earliest after this period of time. Cross-tenant property that cannot be changed.</p>	Integer > 0	
com.aris.umc.otp.active	<p>Use OTPs</p> <p>Specifies whether or not the generation of one-time passwords (OTPs) is allowed.</p>		
com.aris.umc.otp.time	<p>Lifetime</p> <p>Specifies the lifetime of a one-time password (OTP) in seconds. Passwords become invalid after this time period at the latest.</p>		
com.aris.umc.audit.enabled	<p>Generate user statistics</p> <p>Activates the user statistics. The default value is <b>false</b>. If you specify this as true, the following properties for distinct user statistics are enabled as default:</p> <ul style="list-style-type: none"> <li>▪ Log authentication</li> <li>▪ Log changes to configuration</li> <li>▪ Log changes to licenses/privileges</li> <li>▪ Log changes to users/user groups</li> <li>▪ You can disable/enable the properties mentioned above.</li> </ul>	true, false	false

Key	Description	Valid input	Example
com.aris.umc.audit.log.auth.enabled	<p>Log authentication</p> <p>Enables authentication logging. The default value is <b>true</b> but this property is only enabled when <b>Generate user statistics</b> is specified as <b>true</b>. The following user statistics are logged and can be exported (page 42):</p> <ul style="list-style-type: none"> <li>▪ Login failed</li> <li>▪ Login successful</li> <li>▪ Logged out</li> <li>▪ Logged out by administrator</li> </ul>	true, false	true
com.aris.umc.audit.log.conf.enabled	<p>Log changes to configuration</p> <p>Enables logging of changes to the configuration. The default is <b>allowed</b> (default value <b>true</b>). The following user statistics are logged and can be exported (page 42):</p> <ul style="list-style-type: none"> <li>▪ Organizational chart deleted</li> <li>▪ Organizational chart updated</li> <li>▪ One-time password requested</li> <li>▪ Password changed</li> <li>▪ Password reset</li> <li>▪ Password transferred between users</li> <li>▪ Profile picture deleted</li> <li>▪ Profile picture imported</li> <li>▪ Privilege assigned</li> <li>▪ Privilege assignment removed</li> <li>▪ Configuration option changed</li> <li>▪ Configuration file deleted</li> <li>▪ Configuration file imported</li> <li>▪ Data backup imported</li> <li>▪ Tenant created</li> <li>▪ Tenant deleted</li> <li>▪ Tenant updated</li> </ul>	true, false	true

Key	Description	Valid input	Example
com.aris.umc.audit.log.license.privilege.enabled	<p>Log changes to licenses/privileges</p> <p>Enables logging of changes to licenses or privileges. The default is <b>allowed</b> (default value <b>true</b>). The following user statistics are logged and can be exported (page 42):</p> <ul style="list-style-type: none"> <li>▪ License deleted</li> <li>▪ License imported</li> <li>▪ License consumed</li> <li>▪ License released</li> <li>▪ Violation of user group license limit</li> <li>▪ Violation of user license limit</li> <li>▪ Replace license file for tenant</li> </ul>	true, false	true
com.aris.umc.audit.log.user.group.enabled	<p>Log changes to users/user groups</p> <p>Enables logging of changes to users or user groups. The default is <b>allowed</b> (default value <b>true</b>). The following user statistics are logged and can be exported (page 42):</p> <ul style="list-style-type: none"> <li>▪ User created</li> <li>▪ User deleted</li> <li>▪ Escalation manager assignment removed</li> <li>▪ User group created</li> <li>▪ User group deleted</li> <li>▪ Group assigned to group</li> <li>▪ Group unassigned from group</li> <li>▪ User group updated</li> <li>▪ LDAP data imported</li> <li>▪ Synchronized with LDAP</li> </ul>	true, false	true
com.aris.umc.license.distribution.handling	<p>License pools at user group-level</p> <p>Specifies that license pools are assigned at the user group level (page 34). If this option is enabled, licenses must not be assigned to users directly, but are to be assigned via user groups only.</p>	true, false	false

### 3.11.2.22.12 What SMTP properties are available?

You can configure SMTP (page 398) as required.

Key	Description	Valid input	Example
com.aris.umc.notification.debug	Debug output Activates debugging output.	true, false	
com.aris.umc.notification.language	Default language Specifies the default language in which notifications are sent. If this property is not defined, the server operating system language is used. If a user prefers a different locale, this locale is given preference. Otherwise, the global settings are considered.	en	
com.aris.umc.notification.queue	Maximum queue length Specifies the maximum number of notifications allowed in a send queue. If the send queue is too full, all subsequent notifications are refused. Cross-tenant property that cannot be changed.	Integer > 0	
com.aris.umc.notification.sender	Sender address Specifies the sender address for notifications. This must be a valid e-mail address.	String	
com.aris.umc.notification.type	E-mail format Specifies the default type used for sending notifications.	String	
com.aris.umc.notification.smtp.authentication	Use authentication Specifies whether authentication to the SMTP server is to be used.	true, false	
com.aris.umc.notification.smtp.host	Host name Specifies the host name or IP address of the SMTP server. Cross-tenant property that cannot be changed.	String	localsmtp.my.corp.softw areag.com
com.aris.umc.notification.smtp.password	Password Specifies the password that is used for authentication to the SMTP server.	String	smtppassword

Key	Description	Valid input	Example
com.aris.umc.notification.smtp.port	Port Specifies the port for the SMTP server.	Integer greater than or equal to 0, but less than or equal to 65535	
com.aris.umc.notification.smtp.ssl	Use SSL Specifies whether TLS is to be used for the connection to the SMTP server.	true, false	false
com.aris.umc.notification.smtp.ssl.mode	SSL mode Specifies the method to be used for a trusted connection. <b>STARTTLS</b> or <b>SSL</b> can be used. STARTTLS transforms a connection that was originally untrusted into an encrypted connection without requiring a specific port for the trusted connection. SSL establishes a trusted connection with a dedicated port immediately.	STARTTLS, SSL	STARTTLS
com.aris.umc.notification.smtp.timeout	Connection timeout Specifies the duration after which the attempt to connect to the SMTP server is canceled. This is defined in milliseconds.	Integer > 0	
com.aris.umc.notification.smtp.userName	User name Specifies the user name that is used for authentication.	String	
com.aris.umc.notification.smtp.retry.count	Number of retries Specifies the number of retries for sending notifications.	Integer > 0	
com.aris.umc.notification.smtp.retry.sleep.min	Minimum wait time Specifies the minimum wait time between the retries. This is defined in milliseconds.	Integer > 0	
com.aris.umc.notification.smtp.retry.sleep.max	Maximum wait time Specifies the maximum wait time between the retries. This is defined in milliseconds.	Integer > 0	



<b>Key</b>	<b>Description</b>	<b>Valid input</b>	<b>Example</b>
com.aris.umc.notification.smtp.sendrate	Send rate Specifies the maximum number of messages sent per second. Cross-tenant property that cannot be changed.	Integer > 0	
com.aris.umc.notification.smtp.replyto	Reply-to addresses Specifies a comma-separated list of reply-to addresses.		
com.aris.umc.notification.threads	Number of threads Specifies the maximum number of threads that are used for sending notifications. Cross-tenant property that cannot be changed.	Integer > 0	

### 3.11.2.22.13 What user settings properties are available?

You can customize the configuration for users (page 401) as required.

Key	Description	Valid input	Example
com.aris.umc.collaboration.picture.size.max	Maximum picture size Specifies the maximum size of a profile picture in bytes. The default setting is 1048576 bytes.	Integer > 0	1048576
com.aris.umc.users.admin.email	E-mail address Specifies the e-mail address of the administrator.	String	
com.aris.umc.users.admin.name	User name Specifies the login name of the administrator in ARIS Administration.	String	superuser
com.aris.umc.users.admin.password	Initial password Specifies the initial password of the administrator in ARIS Administration.	String	
com.aris.umc.users.email.required	E-mail address required Specifies whether the <b>E-mail address</b> box must be specified for a user.	true, false	
com.aris.umc.users.email.validation.active	Validate e-mail address Specifies whether a check is performed when entering the e-mail address of a user to determine whether the e-mail address is valid.	true, false	
com.aris.umc.users.name.length.max	Maximum login name length Specifies the maximum length of the login names.	Integer > 0	
com.aris.umc.users.service.create	Generate, if not available Specifies whether the user <b>arisservice</b> is generated at startup, if not yet available.	true, false	
com.aris.umc.users.service.email	E-mail address Specifies the e-mail address of the user <b>arisservice</b> .	String	
com.aris.umc.users.service.name	User name Specifies the login name of the user <b>arisservice</b> .	String	

Key	Description	Valid input	Example
com.aris.umc.users.service.password	Initial password Specifies the initial password of the user <b>arisservice</b> .	String	
com.aris.umc.users.guest.create	Generate, if not available Specifies whether the user <b>guest</b> is generated at startup, if not yet available.	true, false	
com.aris.umc.users.guest.email	E-mail address Specifies the e-mail address of the user <b>guest</b> .	String	
com.aris.umc.users.guest.name	User name Specifies the login name of the user <b>guest</b> .	String	
com.aris.umc.users.guest.password	Initial password Specifies the initial password of the user <b>guest</b> .	String	
com.aris.umc.users.guest.allow.auto.login	Automatically log in visitors Specifies that visitors are automatically logged in as a guest when accessing the ARIS Connect portal.	true, false	
com.aris.umc.users.system.create	Generate, if not available Specifies whether the user <b>system</b> is generated at startup, if not yet available.	true, false	
com.aris.umc.users.system.email	E-mail address Specifies the e-mail address of the user <b>system</b> .	String	
com.aris.umc.users.system.name	User name Specifies the login name of the user <b>system</b> .	String	
com.aris.umc.users.system.password	Initial password Specifies the initial password of the user <b>system</b> .	String	
com.aris.umc.session.system.timeout.max	Session duration (max) Specifies the maximum duration of a system user session in minutes.	Integer > 0	

Key	Description	Valid input	Example
com.aris.umc.session.system.ttl	Session duration (initial) Specifies the initial duration of a system user session in minutes.	Integer > 0	
com.aris.umc.session.ttl	Session duration (initial) Specifies the initial life span of a standard user session in minutes.	Integer > 0	
com.aris.umc.session.ttl.max	Session duration (max) Specifies the maximum life span of a standard user session in minutes.	Integer > 0	
com.aris.umc.impersonation.targets	Impersonation target users Specifies the users for which you want to allow impersonation (page 285).	String	
com.aris.umc.default.group	Default user group name Specifies an existing user group as default user group to which all users created afterwards will be assigned.	String	
com.aris.umc.chart.display.defaultUsers.enabled	Display technical users Specifies whether or not user statistics and charts are also displayed for technical users such as <b>system</b> , <b>arisservice</b> , and <b>guest</b> .	true, false	

### **3.11.2.22.14 What is the default user group?**

You can configure (page 401) a default user group in the ARIS Administration. This group must exist in the ARIS Administration. A user is automatically assigned to this default user group whenever a user is created.

All local users who were created after specifying a default user group are automatically assigned to this group.

You can specify an LDAP user group as default user group. All LDAP users in the LDAP group are assigned to this group.

Hidden users such as, e.g., arisservice, are never assigned to the default user group.

### 3.11.3 Set up Document storage

You can customize general settings of ARIS document storage.



#### 3.11.3.1 Export configuration

You can export configurations in order to import them into any tenant or installation and use them there.

##### Prerequisite

- You have the **Technical configuration administrator** function privilege.
- You have allowed pop-ups for the pages of ARIS Administration.

##### Procedure

1. Start ARIS Connect.
2. Click your user name and select **Administration**.
3. Click the  **Configuration** tab.
4. Click **Document storage**.
5. Click  **Export current configuration as a file**.

You can save the configuration file of ARIS document storage at the relevant location for further use.



#### 3.11.3.2 Import configuration

You can import configurations, which were, for example, exported from a different tenant, into any tenant or installation and use them there.

##### Prerequisite

You have the **Technical configuration administrator** function privilege.

##### Procedure

1. Start ARIS Connect.
2. Click your user name and select **Administration**.
3. Click the  **Configuration** tab.
4. Click **Document storage**.
5. Click  **Import configuration file**.

The **Import configuration file** dialog opens. Navigate to the location where the configuration file is stored and import it. The new configuration is active immediately and no system restart is required.


### 3.11.3.3 Customize infrastructure settings

You can customize the infrastructure for your document storage, e.g., the path for mobile uploads.

#### Prerequisite

You have the **Technical configuration administrator** function privilege.

#### Procedure

1. Start ARIS Connect.
2. Click your user name and select **Administration**.
3. Click the  **Configuration** tab.
4. Click **Document storage**.
5. Click the arrow next to **Infrastructure**.
6. Click a configuration category. The following categories are available:

#### GENERAL

##### Enable use of network share

Specifies whether a network share or a local directory is used for storing document content. If enabled, only meta data are stored in the ARIS document storage database. Cross-tenant property that cannot be changed. The default is **allowed** (default value **true**). This corresponds to the following property: `com.aris.ads.filesystem.active`

##### Path to the network share

Path to a network share or a local directory where the document content is stored. If enabled, in distributed systems, all ARIS document storage instances must have access in the same way to this share or local directory. You must enter the network share in the following form:

`\\<servername>\<directory>`, e.g., `\\myServer\data`. If you leave the preconfigured path, all data are stored in the local file system under `<ARIS installation directory>\server\bin\work\work_adsadmin_m\data`. You can use an absolute path to the local file system as well, e.g., `C:\docdata`. This corresponds to the following property: `com.aris.ads.filesystem.path`

##### Thumbnail width

If the picture width is smaller than the thumbnail width specified, no thumbnail is displayed for this picture. This corresponds to the following property: `com.aris.ads.filesystem.path`

##### Batch job schedule

Specifies the time at which a lock should be removed automatically (e.g., `'0 0 2 * * ?'` if this is to happen every night at 2:00 a.m.). The time defined in the string must be a CRON expression. This corresponds to the following property: `com.idsscheer.aris.ads.batch.fire`

##### Maximum number of revisions

Specifies the maximum number of revisions. This corresponds to the following property: `com.idsscheer.aris.ads.batch.document.revision.maxcount`

**Maximum revision age**

Specifies the maximum revision age in days. This corresponds to the following property:  
com.idsscheer.aris.ads.batch.document.revision.maxagedays

**Maximum lock age**

Specifies the maximum lock age in hours. This corresponds to the following property:  
com.idsscheer.aris.ads.batch.document.maxAgeHour

**Folder for mobile uploads**

Specifies the path where to store files uploaded from mobile devices. This corresponds to the following property: com.aris.ads.mobile.upload.path

**Build version**

This ARIS document storage version is currently installed. Cross-tenant property that cannot be changed. This corresponds to the following property: com.aris.ads.version


**ADVANCED SETTINGS****Configuration cache lifetime**

Specifies the time to live (TTL) for internal caches in seconds. Cross-tenant property that cannot be changed. This corresponds to the following property: com.aris.ads.config.cache.ttl

**Encrypted properties**

Specifies a comma-separated list of encrypted property keys. This corresponds to the following property: com.aris.ads.config.encrypted

7. Click  **Edit**.

The **Cross-tenant** symbol  indicates that the settings made apply to all tenants on this server and cannot be changed.

8. Adjust your settings.

9. Click  **Save**.

You have customized your document storage configuration.



### 3.11.3.4 Add third-party document management system





You can configure a third-party document management system.

The system available is Microsoft® SharePoint 2013. Please contact your local Software AG sales organization (<http://softwareag.com>) for other third-party document management systems (TDMS).

#### Prerequisite

You have the **Technical configuration administrator** function privilege.

#### Procedure

1. Start ARIS Connect.
2. Click your user name and select **Administration**.
3. Click the  **Configuration** tab.
4. Click **Document storage**.
5. Click the arrow next to **Document management system**.
6. Click a configuration category. The following categories are available:
7. Click **General settings**.
8. Click  **Edit**.
9. Enable **Use third-party document management system**.
10. Optional: If you want to use more than one third-party document management system, enable **Activate multiple document management systems**.
11. Click  **Save**.
12. Click  **Add**. The **Add document management system server** dialog opens.
13. Enter the following (page 458):
  - the server ID
  - the display name of the server
  - the server URL
  - the user name of the user, who is allowed to access the third-party document management system content
  - the password of this user
  - the path to the root folder
  - the site collection
14. Click **Save**.

You have added a third-party document management system.

If you want to specify more than one third-party document management system, proceed with step 12 of the procedure steps mentioned above.


### 3.11.3.5 Edit document management system

The system available is Microsoft® SharePoint 2013. Please contact your local Software AG sales organization (<http://softwareag.com>) for other third-party document management systems (TDMS).

#### Prerequisite

You have the **Technical configuration administrator** function privilege.

#### Procedure

1. Start ARIS Connect.
2. Click your user name and select **Administration**.
3. Click the  **Configuration** tab.
4. Click **Document storage**.
5. Click the arrow next to **Document management system**.
6. Click a configuration category. The following categories are available:
  - General settings

#### Use third-party document management system

Specifies whether or not a third-party document management system can be used. This corresponds to the following property: `com.idsscheer.aris.ads.dms.active`

#### Activate multiple document management systems

Specified whether or not more than one third-party documents management system can be used. This corresponds to the following property: `com.idsscheer.aris.ads.dms.multiple.active`

#### Configured DMS server count

Displays the number of third-party document management systems configured. This corresponds to the following property: `com.idsscheer.aris.ads.dms.configuration count`

1. Click the arrow next to the relevant document management system.
  - For each third-party document management system, the following categories are available:

### CONNECTION

#### ID

Specifies the ID of the third-party documents management system. This corresponds to the following property: `com.idsscheer.aris.ads.dms.connection.id`

#### Name

Specifies the name of the third-party documents management system. This corresponds to the following property: `com.idsscheer.aris.ads.dms.display.name`

#### Type

Specifies which third-party document management system is to be used, e.g. Microsoft® SharePoint 2013. This corresponds to the following property: `com.idsscheer.aris.ads.dms.type`

**Server URL**

Specifies the URL of the server on which the third-party document management system is installed. This corresponds to the following property: `com.idsscheer.aris.ads.dms.url`

**User name**

Specifies the user that is granted access to the third-party document management system. This corresponds to the following property: `com.idsscheer.aris.ads.dms.user`

**Password**

Specifies the password for accessing a third-party document management system. This corresponds to the following property: `com.idsscheer.aris.ads.dms.password`

**Root folder**

Specifies the name under which access to a third-party document management system is granted. This corresponds to the following property: `com.idsscheer.aris.ads.dms.root`

**Site collection**

Specifies a Microsoft® SharePoint site collection or a subsite containing the document library. This corresponds to the following property: `com.idsscheer.aris.ads.dms.site.collection`

**DOCUMENT ATTRIBUTE MAPPINGS****Description**

Specifies the description field for a document in the third-party document management system. This corresponds to the following property: `com.idsscheer.aris.ads.dms.document.description`

**Owner**

Specifies a document owner in the third-party document management system. This corresponds to the following property: `com.idsscheer.aris.ads.dms.document.owner`


**Tags**

Specifies a third-party document management system property containing the tags of the document (metadata). This corresponds to the following property: `com.idsscheer.aris.ads.dms.tags.holder`

**Search fields**

Specifies a comma-separated list of strings that contains the names of the fields used to search for documents in a repository of a third-party document management system. The assistance of an administrator knowing which fields were configured is required. This corresponds to the following property: `com.idsscheer.aris.ads.dms.search.fields`

2. Click  **Edit**.

The **Cross-tenant** symbol  indicates that the settings made apply to all tenants on this server and cannot be changed.

3. Adjust your settings.

4. Click  **Save**.

You have customized your document storage configuration.



### 3.11.3.6 Delete third-party document management system

The system available is Microsoft® SharePoint 2013. Please contact your local Software AG sales organization (<http://softwareag.com>) for other third-party document management systems (TDMS).

#### Prerequisite

You have the **Technical configuration administrator** function privilege.

#### Procedure

1. Start ARIS Connect.
2. Click your user name and select **Administration**.
3. Click the  **Configuration** tab.
4. Click **Document storage**.
5. Click the arrow next to **Document management system**.
6. Click the arrow next to the relevant document management system.
7. Click **Connection**.
8. Click  **Delete**. The **Confirmation** dialog opens.
9. Click **OK**.

You have deleted a third-party document management system.


### 3.11.3.7 Customize quota and restrictions

You can configure the quota and restrictions for your document storage.

#### Prerequisite

You have the **Technical configuration administrator** function privilege.

#### Procedure

1. Start ARIS Connect.
2. Click your user name and select **Administration**.
3. Click the  **Configuration** tab.
4. Click **Document storage**.
5. Click the arrow next to **Quota and restrictions**.
6. Click **General**.

#### Maximum file size

Specifies the maximum allowed size (in kilobytes) for file uploads. This corresponds to the following property: `com.aris.ads.config.max.filesize`

#### Quota limit

Specifies the maximum total size (in kilobytes) of the document storage available to a tenant. This corresponds to the following property: `com.aris.ads.config.storage.quota.limit`

**Quota usage**

Amount of storage already used (in kilobytes) by uploaded documents. This corresponds to the following property: `com.aris.ads.config.storage.quota.usage`

**Restrict file extensions**

Specifies whether or not the file type filter (file extensions) is activated. The default is **not enabled** (default value **false**). This corresponds to the following property:  
`com.aris.ads.config.supported.filetypes.filter.active`

**Valid file extensions**



Specifies the list of allowed file extensions. This corresponds to the following property:  
`com.aris.ads.config.supported.filetypes.filter`

**Restrict file types**

Specifies whether or not the file type filter (MIME types) is activated. The default is **not enabled** (default value **false**). This corresponds to the following property:  
`com.aris.ads.config.supported.mimetypes.filter.active`

**Allowed file types**

Specifies the list of allowed file types (MIME types). This corresponds to the following property:  
`com.aris.ads.config.supported.mimetypes.filter`

7. Click  **Edit**.
8. Adjust your settings.
9. Click  **Save**.

You have configured the quota and restrictions for your document storage.


### 3.11.3.8 Configure full-text search

You can display the settings for the full-text search in your document storage.

**Prerequisite**

You have the **Technical configuration administrator** function privilege.

**Procedure**

1. Start ARIS Connect.
2. Click your user name and select **Administration**.
3. Click the  **Configuration** tab.
4. Click **Document storage**.
5. Click the arrow next to **Full-text search**.
6. Click a configuration category. The following categories are available:

General

**Maximum document size**

Specifies the maximum document size in Elasticsearch. Cross-tenant property that cannot be changed. This corresponds to the following property:  
`com.idsscheer.aris.ads.search.elastic.document.maxsize.kb`

**Storage limit**

Specifies the storage limit for the Elasticsearch parser. Cross-tenant property that cannot be changed. This corresponds to the following property:

`com.idsscheer.aris.ads.search.elastic.parser.memory.threshold.kb`

**Maximum number of parallel threads**



Specifies the maximum number of threads for parallel processing when indexing documents. Cross-tenant property that cannot be changed. This corresponds to the following property:


`com.idsscheer.aris.ads.search.elastic.parser.thread.count`

**Maximum queue size**

Specifies the maximum size of the queue for indexing documents. Cross-tenant property that cannot be changed. This corresponds to the following property:

`com.idsscheer.aris.ads.search.elastic.parser.queue.size`

1. Click  **Edit**.
2. Adjust your settings.
3. Click  **Save**.

The **Cross-tenant** symbol  indicates that the settings made apply to all tenants on this server and cannot be changed.


### 3.11.3.9 Configure WebDAV

You can display the WebDAV settings in your document storage.

#### Prerequisite

You have the **Technical configuration administrator** function privilege.

#### Procedure



1. Start ARIS Connect.
2. Click your user name and select **Administration**.
3. Click the  **Configuration** tab.
4. Click **Document storage**.
5. Click the arrow next to **WebDAV**.
6. Click a configuration category. The following categories are available:
  - General


#### Tenant

Specifies the tenant for which a WebDAV mapping exists. Please note that when you use multiple LDAP servers (page 360), WebDAV works for local users only. Cross-tenant property that cannot be changed. This corresponds to the following property: `com.softwareag.ads.webdav.tenant`

#### Repository

Specifies the name of the repository for which WebDAV is to be available. There can only ever be one repository per tenant. Cross-tenant property that cannot be changed. This corresponds to the following property: `com.softwareag.ads.webdav.repository`

7. Click  **Edit**.
8. Adjust your settings.
9. Click  **Save**.

The **Cross-tenant** symbol  indicates that the settings made apply to all tenants on this server and cannot be changed.

### 3.11.3.10 Valuable information

This section provides background information to assist you in carrying out the relevant procedures.

#### 3.11.3.10.1 What properties for the full-text search are available?

You can display (page 452) the settings for the full-text search in your document storage.

Key	Description	Valid input	Example
com.idsscheer.aris.ads.search.elastic.document.maxsize.kb	Maximum document size Specifies the maximum document size in Elasticsearch. Cross-tenant property that cannot be changed.	Integer > 0	2000
com.idsscheer.aris.ads.search.elastic.parser.memory.threshold.kb	Storage limit Specifies the storage limit for the Elasticsearch parser. Cross-tenant property that cannot be changed.	Integer > 0	500
com.idsscheer.aris.ads.search.elastic.parser.queue.size	Maximum queue size Specifies the maximum size of the queue for indexing documents. Cross-tenant property that cannot be changed.	Integer > 0, default value is 10.	40
com.idsscheer.aris.ads.search.elastic.parser.thread.count	Maximum number of parallel threads Specifies the maximum number of threads for parallel processing when indexing documents. Cross-tenant property that cannot be changed.	Integer > 0	10



### 3.11.3.10.2 What infrastructure properties are available?

You can configure the infrastructure (page 446) for your document storage.


#### GENERAL


Key	Description	Valid input	Example
com.aris.ads.filesystem.active	Enable use of network share Specifies whether a network share or a local directory is used for storing document content. If enabled, only meta data are stored in the ARIS document storage database. Cross-tenant property that cannot be changed.	false, true	
com.aris.ads.filesystem.path	Path to the network share Path to a network share or a local directory where the document content is stored. If enabled, in distributed systems, all ARIS document storage instances must have access in the same way to this share or local directory. You must enter the network share in the following form: <b>\\&lt;servername&gt;\&lt;directory&gt;</b> , e.g., <b>\\myServer\data</b> . If you leave the preconfigured path, all data are stored in the local file system under <b>&lt;ARIS installation directory&gt;\server\bin\work\work_admin_m\data</b> . You can use an absolute path to the local file system as well, e.g., <b>C:\docdata</b> . The default is <b>allowed</b> (default value <b>true</b> ). Cross-tenant property that cannot be changed.		
com.aris.ads.filesystem.path	Thumbnails width If the picture width is smaller than the thumbnail width specified, no thumbnail is displayed for this picture. Cross-tenant property that cannot be changed.	Integer > 0	160
com.idsscheer.aris.ads.batch.fire	Batch job schedule Specifies the time at which a lock should be removed automatically (e.g., '0 0 2 * * ?' if this is to happen every night at 2:00 a.m.). The time defined in the string must be a		


Key	Description	Valid input	Example
	CRON expression.		
com.idsscheer.aris.ads.batch.document.revision.maxcount	Maximum number of revisions Specifies the maximum number of revisions.	Integer > 0	
com.idsscheer.aris.ads.batch.document.revision.maxagedays	Maximum revision age Specifies the maximum revision age in days.	Integer > 0	
com.aris.ads.mobile.upload.path	Folder for mobile uploads Specifies the path where to store files uploaded from mobile devices.	Folder	/mobileuploads
com.aris.ads.version	Build version This ARIS document storage version is currently installed. Cross-tenant property that cannot be changed.	Number	11.0.1.123456

**General**


Advanced settings

Activate network share usage  

Path to the network share  

Thumbnails size  

Path for mobile uploads


Build version  

## ADVANCED SETTINGS

Key	Description	Valid input
com.aris.ads.config.cache.ttl	Configuration cache lifetime Specifies the time to live (TTL) for internal caches in seconds. Cross-tenant property that cannot be changed.	Integer > 0
com.aris.ads.config.encrypted	Encrypted properties Specifies a comma-separated list of encrypted property keys.	List

General

**Advanced settings**

Configuration cache lifetime  

Encrypted properties

### 3.11.3.10.3 What document management system properties are available?

You can configure a third-party document management systems (page 449).

The system available is Microsoft® SharePoint 2013. Please contact your local Software AG sales organization (<http://softwareag.com>) for other third-party document management systems (TDMS).

#### CONNECTION

Key	Description	Valid input	Example
com.idsscheer.aris.ads.dms.active	Use third-party document management system Specifies whether or not a third-party document management system can be used.	true, false	
com.idsscheer.aris.ads.dms.multiple.active	Activate multiple document management systems Specified whether or not more than one third-party documents management system can be used.	true, false	
com.idsscheer.aris.ads.dms.configuration.count	Configured DMS server count Displays the number of third-party document management systems configured.	Integer	2
com.idsscheer.aris.ads.dms.connection.id	ID Specifies the ID of the third-party documents management system.	String	
com.idsscheer.aris.ads.dms.display.name	Name Specifies the name of the third-party documents management system.	String	
com.idsscheer.aris.ads.dms.type	Type Specifies which third-party document management system is to be used, e.g. Microsoft® SharePoint 2013.	SP2013, SP2016	SP2013

Key	Description	Valid input	Example
com.idsscheer.aris.ads.dms.url	Server URL Specifies the URL of the server on which the third-party document management system is installed.	URL	
com.idsscheer.aris.ads.dms.user	User name Specifies the user that is granted access to the third-party document management system.	String	
com.idsscheer.aris.ads.dms.password	Password Specifies the password for accessing a third-party document management system.	String	
com.idsscheer.aris.ads.dms.root	Root folder Specifies the name under which access to a third-party document management system is granted.	String	
com.idsscheer.aris.ads.dms.site.collection	Web site collection Specifies a Microsoft® SharePoint site collection or a subsite containing the document library.	Comma-separated list	

**Connection**

Document attribute mappings

Advanced settings

Use third-party document management system

Type:

Server URL:

User name:

Password:

Root folder:

Web site collection:

## DOCUMENT ATTRIBUTE MAPPINGS

Key	Description	Valid input	Example
com.idsscheer.aris.ads.dms.document.description	Description Specifies the description field for a document in the third-party document management system.	String	
com.idsscheer.aris.ads.dms.document.owner	Person responsible Specifies a document owner in the third-party document management system.	String	
com.idsscheer.aris.ads.dms.tags.holder	Tags Specifies a third-party document management system property containing the tags of the document (metadata).	Comma-separated list	
com.idsscheer.aris.ads.dms.search.fields	Search fields Specifies a comma-separated list of strings that contains the names of the fields used to search for documents in a repository of a third-party document management system. The assistance of an administrator knowing which fields were configured is required.	Comma-separated list	FileLeafRef, Title

Connection	Description	Description0
<b>Document attribute mappings</b>	Owner	Owner
Advanced settings	Tags	Keywords
	Search fields	FileLeafRef, Title

**ADVANCED SETTINGS**

Key	Description	Valid input	Example
com.idsscheer.aris.ads .dms.foldertypeid	Folder data type Specifies the ID of the internal data type directory of the third-party document management system. Changing this ID is possible only in case of errors and requires consultation with the administrator of the third-party document management system.	String	2398473487 60298

Connection

Document attribute mappings

**Advanced settings**

Folder data type

0x012000228E68DC3EFBAF41B1721

### 3.11.3.10.4 What properties are available for quota and restrictions?

You can configure the quota and restrictions (page 451) for your document storage.

Key	Description	Valid input	Example
com.aris.ads.config.max.filesize	Maximum file size Specifies the maximum allowed size (in kilobytes) for file uploads.	Integer > 0	0
com.aris.ads.config.storage.quota.limit	Quota limit Specifies the maximum total size (in kilobytes) of the document storage available to a tenant.	Integer > 0	0
com.aris.ads.config.storage.quota.usage	Quota usage Amount of storage already used (in kilobytes) by uploaded documents.	Integer > 0	9678
com.aris.ads.config.supported.filetypes.filter	Valid file extensions Specifies the list of allowed file extensions.	String	jpeg,jpg,png,gif,pdf,doc,docx,ppt,pptx,pps,ppsx,odt,xls,xlsx
com.aris.ads.config.supported.filetypes.filter.active	Restrict file types Specifies whether or not the file type filter (file extensions) is activated. The default is <b>not enabled</b> (default value <b>false</b> ).	true, false	false
com.aris.ads.config.supported.mimetypes.filter	Allowed file types Specifies the list of allowed file types (MIME types).	String	text/plain,text/pdf
com.aris.ads.config.supported.mimetypes.filter.active	Restrict file types Specifies whether or not the file type filter (MIME types) is activated. The default is <b>not enabled</b> (default value <b>false</b> ).	true, false	false

### 3.11.3.10.5 What WebDAV properties are available?

You can display the WebDAV settings (page 454) in your document storage.

Key	Description	Valid input	Example
com.softwareag.ads.webdav.repository	Repository Specifies the name of the repository for which WebDAV is to be available. There can only ever be one repository per tenant.	String	apg
com.softwareag.ads.webdav.tenant	Tenant Specifies the tenant for which a WebDAV mapping exists. Please note that when you use multiple LDAP servers (page 360), WebDAV works for local users only.	String	default



## 3.11.4 Set up Process Governance

You can customize general settings of Process Governance.



### 3.11.4.1 Export configuration

You can export configurations in order to import them into any tenant or installation and use them there.

#### Prerequisite

- You have the **Process Governance administrator** function privilege.
- You have allowed pop-ups for the pages of ARIS Administration.

#### Procedure

1. Click your user name and select **Administration**.
2. Click the  **Configuration** tab.
3. Click **Process Governance**.
4. Click  **Export current configuration as a file**.

You can save the configuration file of Process Governance at the relevant location for further use.



### 3.11.4.2 Import configuration

You can import configurations, which were, for example, exported from a different tenant, into any tenant or installation and use them there.

#### Prerequisite

- You have the **Process Governance administrator** function privilege.
- You have allowed pop-ups for the pages of ARIS Administration.

#### Procedure

1. Click your user name and select **Administration**.
2. Click the  **Configuration** tab.
3. Click **Process Governance**.
4. Click  **Import configuration file**.

The **Import configuration file** dialog opens. Navigate to the location where the configuration file is stored and import it. The new configuration is active immediately and no system restart is required.



### 3.11.4.3 Customize infrastructure settings


You can customize your system configuration as required. You carry out this part of the configuration in ARIS Administration.

#### Prerequisite

You have the **Process Governance administrator** function privilege.

#### Procedure

1. Click your user name and select **Administration**.
2. Click the  **Configuration** tab.
3. Click **Process Governance**.
4. Select **Infrastructure** in the list box.
5. Click  **Edit**.

The **Cross-tenant** symbol  indicates that the settings made apply to all tenants on this server and cannot be changed.

6. Adjust your settings.

#### Encrypted properties

Specifies the configuration properties with encrypted values in a comma-separated list. This corresponds to the following property: `com.idsscheer.age.config.encrypted`

#### Web service read timeout

Specifies the timeout for read access to a Web service in milliseconds. This corresponds to the following property: `com.idsscheer.age.activity.ws.call.timeout`

#### Maximum execution time

Specifies the maximum execution time in milliseconds for activities that support a timeout. Cross-tenant property that cannot be changed. This corresponds to the following property: `com.idsscheer.age.xe.maxExecDuration`

#### Maximum query result size

Specifies the maximum number of items that are to be returned by a single query. Cross-tenant property that cannot be changed. This corresponds to the following property: `com.idsscheer.age.query.maxResults`

#### Log level

Specifies the log level relevant for logging messages in a log file. Cross-tenant property that cannot be changed. This corresponds to the following property: `com.idsscheer.age.log.dblogger.severity`

#### Archive folder

Specifies the location of the folder used for archiving automatically generated processes. Cross-tenant property that cannot be changed. This corresponds to the following property: `com.idsscheer.age.autodeploy.archive`

**Input folder**

Specifies the location of the folder used for storing automatically generated processes. Cross-tenant property that cannot be changed. This corresponds to the following property: `com.idsscheer.age.autodeploy.model`

**Log file output path**

Specifies the output path for the system monitoring log files. Cross-tenant property that cannot be changed. This corresponds to the following property: `com.idsscheer.age.log.monitoring.output.path`

**Stop process instance if notification fails**

Specifies that running a process instance should fail if a notification cannot be successfully sent. This corresponds to the following property: `com.aris.age.email.fail.instance.on.error`

**Simulate notifications**

Specifies that notifications are not to be sent to their recipients. This corresponds to the following property: `com.aris.age.email.simulate.only`

**Build number**

Process Governance build number. Cross-tenant property that cannot be changed. This corresponds to the following property: `com.idsscheer.age.version`

**Node assignment strategy**

Indicates the node assignment strategy that is currently active. The default value is `TENANT_BASED`. Cross-tenant property that cannot be changed. This corresponds to the following property: `com.idsscheer.age.node.assignment.strategy`

7. Click  **Save**.

You have customized your system configuration.



### 3.11.4.4 Customize Publishing


You can customize your system configuration as required. You carry out this part of the configuration in ARIS Administration.

**Prerequisite**

You have the **Process Governance administrator** function privilege.

**Procedure**

1. Click your user name and select **Administration**.
2. Click the  **Configuration** tab.
3. Click **Process Governance**.
4. Select **Publishing** in the list box.
5. Click  **Edit**.

The **Cross-tenant** symbol  indicates that the settings made apply to all tenants on this server and cannot be changed.

6. Adjust your settings.

#### **Export to server hard drive**

Specifies that a static export is to be saved on a hard drive of the server. This works only in a non-distributed scenario in which everything is installed on a single server.

If this value is set to false, the export is saved as a ZIP file to ARIS document storage and a link is generated. This corresponds to the following property:

com.idsscheer.age.serviceenabling.staticExport.exportToDisk

#### **Static export directory**

Specifies the directory for the static export. This corresponds to the following property:

com.idsscheer.age.serviceenabling.staticExport.exportDir

#### **Static export link template**

Specifies the template for the link to a static export that is generated via Web service.

Cross-tenant property that cannot be changed. This corresponds to the following property:

com.idsscheer.age.serviceenabling.staticExport.wsServer

7. Click  **Save**.

You have customized your system configuration.



### **3.11.4.5 Customize Reporting**

You can customize your system configuration as required. You carry out this part of the configuration in ARIS Administration.

#### **Prerequisite**

You have the **Process Governance administrator** function privilege.

#### **Procedure**

1. Click your user name and select **Administration**.
2. Click the  **Configuration** tab.
3. Click **Process Governance**.
4. Select **Reporting** in the list box.
5. Click  **Edit**.
6. Adjust your settings.

#### **Default method language**

Specifies the default method language for the ARIS services. This corresponds to the following property: com.idsscheer.age.serviceenabling.scriptrunner.defaultLanguage

7. Click  **Save**.

You have customized your system configuration.



### 3.11.4.6 Customize workflow policies

You can customize your system configuration as required. You carry out this part of the configuration in ARIS Administration.

#### Prerequisite

You have the **Process Governance administrator** function privilege.

#### Procedure

1. Click your user name and select **Administration**.
2. Click the  **Configuration** tab.
3. Click **Process Governance**.
4. Select **Workflow policies** in the list box.
5. Click  **Edit**.
6. Adjust your settings.

#### Exclude weekend

Specifies whether only work days are to be considered in an escalation. This corresponds to the following property: `com.idsscheer.age.days.workingdays.enabled`

#### Weekend days

Specifies which days of the week represent the weekend in a five-day week. The week starts on Sunday (day 1) and ends on Saturday (day 7). This corresponds to the following property: `com.idsscheer.age.days.off`

#### Public holidays

Specifies the public holidays. The format is DD.MM., e.g., 01.01.,24.12. This corresponds to the following property: `com.idsscheer.age.days.publicholidays`

#### E-signature (double authentication)

Specifies whether or not reentering the password is necessary when completing tasks. This corresponds to the following property: `com.idsscheer.age.e.signature.enabled`

#### Reminder notification threshold

Specifies when a reminder notification is to be sent when X% of the amount of time that is expected to elapse until the due date have already been consumed. The default value is 75 %. This corresponds to the following property: `com.idsscheer.age.reminder.notification.time`

#### Notify when a substitute is activated

Specifies whether or not a notification is sent when a substitute is configured for ARIS Process Board. This corresponds to the following property: `com.idsscheer.age.substitution.notification.enabled`

#### Allow task delegation

Specifies whether or not delegation of tasks to other users (Delegate/Substitution) is allowed. This corresponds to the following property: `com.idsscheer.age.taskList.delegation.enabled`

### Confirm start of task execution

Specifies centrally for all users whether or not the confirmation dialog is displayed when a task is started in ARIS Process Board for the first time. This corresponds to the following property:  
com.idsscheer.age.taskList.startTaskConfirmation.enabled

7. Click  **Save**.

You have customized your system configuration.



## 3.11.4.7 Customize pools


You can customize your system configuration as required. You carry out this part of the configuration in ARIS Administration.

### Prerequisite

You have the **Process Governance administrator** function privilege.

### Procedure

1. Click your user name and select **Administration**.
2. Click the  **Configuration** tab.
3. Click **Process Governance**.
4. Select **Pools** in the list box.
5. Click  **Edit**.

The **Cross-tenant** symbol  indicates that the settings made apply to all tenants on this server and cannot be changed.

6. Adjust your settings.

### Job service thread pool size

Specifies the number of threads to be used by the job service. Cross-tenant property that cannot be changed. This corresponds to the following property:  
com.idsscheer.age.job.service.threadsNumber

### Simulation pool size

Specifies the size of the pool containing simulated process instances. Cross-tenant property that cannot be changed. This corresponds to the following property:  
com.idsscheer.age.simulation.instanceExecutorsPool.size

### Dispatch worker thread pool size

Specifies the pool size for dispatch worker threads. Cross-tenant property that cannot be changed. This corresponds to the following property:  
com.idsscheer.age.xe.dispatch.workersPool.size

7. Click  **Save**.

You have customized your system configuration.

### 3.11.4.8 Set up sending notifications to Process Governance administrators

You can specify that Process Governance administrators receive e-mail notifications if problems occur during process execution for users modeled in an organizational chart relevant to Process Governance.

#### Prerequisite

You have the **User administrator** function privilege.

#### Procedure

1. Assign the relevant users Process Governance administrator privileges.
2. Also, specify (page 20) the **E-mail address** attribute for the Process Governance administrators.

The Process Governance administrators will automatically receive an e-mail if problems occur during process execution, e.g., if an error occurs during execution of an automated task or if the recipient of an e-mail message has not been entered as a user.

### 3.11.4.9 Valuable information

This section provides background information to assist you in carrying out the relevant procedures.

#### 3.11.4.9.1 What infrastructure properties are available?

You can configure your Process Governance the infrastructure (page 465). This is where you find an overview of keys and value pairs.

Key	Description	Valid input	Example
com.idsscheer.age.config.encrypted	Encrypted properties Specifies the configuration properties with encrypted values in a comma-separated list.	String	
com.idsscheer.age.activity.ws.call.timeout	Web service read timeout Specifies the timeout for read access to a Web service in milliseconds.	43200000	Number > 0
com.idsscheer.age.log.dblogger.severity	Log level Specifies the log level relevant for logging messages in a log file. Cross-tenant property that cannot be changed.		Number > 0
com.idsscheer.age.log.monitoring.output.path	Log file output path Specifies the output path for the system monitoring log files. Cross-tenant property that cannot be changed.	Path on a server	
com.idsscheer.age.query.maxResults	Maximum query result size Specifies the maximum number of items that are to be returned by a single query. Cross-tenant property that cannot be changed.		
com.idsscheer.age.xe.maxExecutionDuration	Maximum execution time Specifies the maximum execution time in milliseconds for activities that support a timeout. Cross-tenant property that cannot be changed.	43200000	Number > 0
com.idsscheer.age.autodeploy.archive	Archive folder Specifies the location of the folder used for		



Key	Description	Valid input	Example
e	archiving automatically generated processes. Cross-tenant property that cannot be changed.		
com.idsscheer.age .autodeploy.model	Input folder Specifies the location of the folder used for storing automatically generated processes. Cross-tenant property that cannot be changed.		
com.aris.age.email .fail.instance.on.er ror	Stop process instance if notification fails Specifies that running a process instance should fail if a notification cannot be successfully sent. The default is <b>allowed</b> (default value <b>true</b> ).	true, false	true
com.aris.age.email .simulate.only	Specifies that notifications are not to be sent to their recipients. The default value is <b>false</b> .	true, false	false
com.idsscheer.age .version	Build number Process Governance build number. Cross-tenant property that cannot be changed.		
com.idsscheer.age .node.assignment. strategy	Node assignment strategy Indicates the node assignment strategy that is currently active. The default value is TENANT_BASED. Cross-tenant property that cannot be changed. Cross-tenant property that cannot be changed.	TENANT_BAS ED, PROCESS_IN STANCE_BAS ED	TENANT_BA SED

### 3.11.4.9.2 What Publishing properties are available?

You can configure Process Governance Publishing (page 466). This is where you find an overview of keys and value pairs:

Key	Description	Valid input	Example
com.idsscheer.age .serviceenabling.st aticExport.exportT oDisk	Export to server hard drive  Specifies that a static export is to be saved on a hard drive of the server. This works only in a non-distributed scenario in which everything is installed on a single server.  If this value is set to false, the export is saved as a ZIP file to ARIS document storage and a link is generated.	true, false; the default value is true.	true
com.idsscheer.age .serviceenabling.st aticExport.exportD ir	Static export directory  Specifies the directory for the static export.	<Installation directory>/se rver/bin/work /work_apg_m /base/webapp s/aris/apgstat ic	D:/ARIS9. 5/server/bi n/work/wo rk_apg_m/ base/weba pps/aris/ap gstatic
com.idsscheer.age .serviceenabling.st aticExport.wsServ er	Static export link template  Specifies the template for the link to a static export that is generated via Web service.  Cross-tenant property that cannot be changed.	http://Proces s Governance_s erver/aris/ap gstatic/<GUI D>	http://Proc ess Governanc e_server/a ris/apgstati c/234ekmf hkdsau4w5 8

### 3.11.4.9.3 What Reporting properties are available?

You can configure Process Governance Reporting (page 467). This is where you find an overview of keys and value pairs:

Key	Description	Valid input	Example
com.idsscheer.age.serviceneeabling.scriptrunner.defaultLanguage	Default method language Specifies the default method language for the ARIS services.	en_US	en_US, de_DE

### 3.11.4.9.4 What properties are available for workflow policies?

You can configure the workflow policies (page 468) for Process Governance.

Key	Description	Valid input	Example
com.idsscheer.age.days.workingdays.enabled	Exclude weekend Specifies whether only work days are to be considered in an escalation.	true, false	
com.idsscheer.age.days.off	Weekend days Specifies which days of the week represent the weekend in a five-day week. The week starts on Sunday (day 1) and ends on Saturday (day 7).	String	1,7 Weekends Saturday and Sunday.
com.idsscheer.age.days.publicholidays	Public holidays Specifies the public holidays. The format is DD.MM., e.g., 01.01.,24.12.	Date	01.01,07.01,08.03,...
com.idsscheer.age.e.signature.enabled	E-signature (double authentication) Specifies whether or not reentering the password is necessary when completing tasks.	true, false	false
com.idsscheer.age.reminder.notification.time	Reminder notification threshold Specifies when a reminder notification is to be sent when X% of the amount of time that is expected to elapse until the due date have already been consumed. The default value is 75 %.	Number > 0	75

Key	Description	Valid input	Example
com.idsscheer.age.substitution.notification.enabled	Notify when a substitute is activated Specifies whether or not a notification is sent when a substitute is configured for ARIS Process Board.	true, false	false
com.idsscheer.age.taskList.delegation.enabled	Allow task delegation Specifies whether or not delegation of tasks to other users (Delegate/Substitution) is allowed.	true, false	true
com.idsscheer.age.taskList.startTaskConfirmation.enabled	Confirm start of task execution Specifies centrally for all users whether or not the confirmation dialog is displayed when a task is started in ARIS Process Board for the first time.	true, false	true

### 3.11.4.9.5 What properties are available for pools?

You can configure thread pools (page 469) for Process Governance. This is where you find an overview of keys and value pairs:

Key	Description	Valid input	Example
com.idsscheer.age.job.service.threadsNumber	Job service thread pool size Specifies the number of threads to be used by the job service. Cross-tenant property that cannot be changed.	Integer > 0	8
com.idsscheer.age.simulation.instanceExecutorsPool.size	Simulation pool size Specifies the size of the pool containing simulated process instances. Cross-tenant property that cannot be changed.	Integer > 0	5
com.idsscheer.age.xe.dispatch.workersPool.size	Dispatch worker thread pool size Specifies the pool size for dispatch worker threads. Cross-tenant property that cannot be changed.	Integer > 0	16

## 3.11.5 Set up Collaboration

You can customize general settings of Collaboration.


### 3.11.5.1 Customize Collaboration

You can customize Collaboration. Depending on your license, you have read-access from ARIS to documents managed in third-party document management systems.

#### Prerequisite

You have the **Collaboration administrator** function privilege.

#### Procedure

1. Click  **Configuration**.
2. Click **Collaboration**.
3. Click a configuration category. The following categories are available:

#### GENERAL SETTINGS

##### Activate Collaboration

Activates Collaboration. The default is **allowed** (default value **true**). This corresponds to the following property: `collaboration.optionsPage.enableECP`

##### Create groups

Specifies whether or not creating groups in Collaboration is allowed. The default is **allowed** (default value **true**). This corresponds to the following property: `collaboration.optionsPage.allowCreationOfGroups`

##### Create filter

Specifies whether or not creating filters in Collaboration is allowed. The default is **allowed** (default value **true**). This corresponds to the following property: `collaboration.optionsPage.allowCreationOfFilters`

##### Enable Like button

Specifies whether or not the **Like** button is displayed. The default is **allowed** (default value **true**). This corresponds to the following property: `collaboration.optionsPage.enableLikeButton`

##### Create comments

Specifies whether or not comments on content are allowed. The default is **allowed** (default value **true**). This corresponds to the following property: `collaboration.optionsPage.allowCommenting`

##### Share content

Specifies whether or not sharing of content is allowed. The default is **allowed** (default value **true**). This corresponds to the following property: `collaboration.optionsPage.allowSharing`

##### Create bookmarks

Specifies whether or not creating bookmarks is allowed. The default is **allowed** (default value **true**). This corresponds to the following property: `collaboration.optionsPage.allowBookmarks`

**Create tags**

Specifies whether or not creating tags is allowed. The default is **allowed** (default value **true**). This corresponds to the following property: `collaboration.optionsPage.allowTags`

**Flag activities**

Specifies whether or not flagging content is allowed. The default is **allowed** (default value **true**). This corresponds to the following property: `collaboration.optionsPage.allowFlags`

**Allow tag filtering (My feed)**

Specifies whether or not filtering using tags is allowed on the Collaboration start page. The default is **allowed** (default value **true**). This corresponds to the following property: `collaboration.optionsPage.allowTagFilterInMainStream`

**Allow tag filtering (Portal)**

Specifies whether or not filtering using tags is allowed in the **My activities** area. The default is **allowed** (default value **true**). This corresponds to the following property: `collaboration.optionsPage.allowTagFilterInFullStream`


**Allow tag filtering (My portal feeds)**

Specifies whether or not filtering using tags is allowed in the portal. The default is **allowed** (default value **true**). This corresponds to the following property: `collaboration.optionsPage.allowTagFilterInCommentStream`

**Public access to portal feeds**

Specifies whether posts to model feeds are visible only if a user is following the model feed or is a member of a group that is following the model feed. The default is **allowed** (default value **true**). This corresponds to the following property: `collaboration.optionsPage.filterPrivateFeeds`

**Use search operator 'OR' instead of 'AND'**

Specifies whether or not filtering using tags is allowed in  **My feed**. If an additional tag is activated, more entries are displayed in the list. The default is **allowed** (default value **true**). This corresponds to the following property: `collaboration.optionsPage.tagsCloudSearchOperator`

**Enable attachments**

Specifies whether or not documents from ARIS document storage can be accessed as new attachments for activities. The default is **allowed** (default value **true**). This corresponds to the following property: `collaboration.optionsPage.enableAttachment`

**Export activities as ZIP file**

Specifies whether activities are exported as a ZIP file instantly or whether the ZIP file will be stored in ARIS document storage and you can download it later. The default value is **false**. This corresponds to the following property: `collaboration.optionsPage.exportActivitiesAsZipFileInstantly`

**Automatically follow groups**

Specifies whether or not users are automatically followers of groups they have posted or commented on their content. The default value is **false**. This corresponds to the following property: `collaboration.optionsPage.autoFollowGroup`

**Automatically follow users**

Specifies whether or not users are automatically followers of users they have posted or commented on their content. The default value is **false**. This corresponds to the following property: `collaboration.optionsPage.autoFollowUser`

**Automatically follow models**


Specifies whether or not users are automatically followers of models they have posted or commented on their content. The default value is **false**. This corresponds to the following property: `collaboration.optionsPage.autoFollowModel`

**CONFIGURE USER GROUP****Enable all user groups**

Enables the function based on which all ARIS user groups are displayed when users are posting in Collaboration. This corresponds to the following property: `enableAllUserGroups`

**Configure visibility of user groups in the collaboration**

Enables the function based on which a single ARIS user group is displayed when users are posting in Collaboration. This corresponds to the following property: `userGroupsToHaveOwnFeedInCollaboration`

4. Click  **Edit property** in the row of the property you want to configure.


If Collaboration is deactivated, the properties are also deactivated and cannot be edited.

You have configured your Collaboration.

**3.11.5.2 What properties are available for Collaboration?**

The following can be customized in Collaboration.

Key	Description	Valid input
<code>collaboration.optionsPage.enableECP</code>	Activate Collaboration Activates Collaboration. The default is <b>allowed</b> (default value <b>true</b> ).	true, false
<code>collaboration.optionsPage.allowCreationOfGroups</code>	Create groups Specifies whether or not creating groups in Collaboration is allowed. The default is <b>allowed</b> (default value <b>true</b> ).	true, false
<code>collaboration.optionsPage.allowCreationOfFilters</code>	Create filters Specifies whether or not creating filters in Collaboration is allowed. The default is <b>allowed</b> (default value <b>true</b> ).	true, false
<code>collaboration.optionsPage.enableLikeButton</code>	Enable Like button Specifies whether or not the <b>Like</b> button is displayed. The default is <b>allowed</b> (default value <b>true</b> ).	true, false

Key	Description	Valid input
collaboration.optionsPage.allowCommenting	Create comments Specifies whether or not comments on content are allowed. The default is <b>allowed</b> (default value <b>true</b> ).	true, false
collaboration.optionsPage.allowSharing	Share content Specifies whether or not sharing of content is allowed. The default is <b>allowed</b> (default value <b>true</b> ).	true, false
collaboration.optionsPage.allowBookmarks	Create bookmarks Specifies whether or not creating bookmarks is allowed. The default is <b>allowed</b> (default value <b>true</b> ).	true, false
collaboration.optionsPage.allowTags	Create tags Specifies whether or not creating tags is allowed. The default is <b>allowed</b> (default value <b>true</b> ).	true, false
collaboration.optionsPage.allowFlags	Flag activities Specifies whether or not flagging content is allowed. The default is <b>allowed</b> (default value <b>true</b> ).	true, false
collaboration.optionsPage.allowTagFilterInMainStream	Allow tag filtering (My feed) Specifies whether or not filtering using tags is allowed on the Collaboration start page.	true, false
collaboration.optionsPage.allowTagFilterInFullStream	Allow tag filtering (Portal) Specifies whether or not filtering using tags is allowed in the <b>My activities</b> area. The default is <b>allowed</b> (default value <b>true</b> ).	true, false
collaboration.optionsPage.allowTagFilterInCommentStream	Allow tag filtering (My portal feeds) Specifies whether or not filtering using tags is allowed in the portal. The default is <b>allowed</b> (default value <b>true</b> ).	true, false
collaboration.optionsPage.filterPrivateFeeds	Public access to portal feeds Specifies whether posts to model feeds are visible only if a user is following the model feed or is a member of a group that is following the model feed. The default is <b>allowed</b> (default value <b>true</b> ).	true, false
collaboration.optionsPage.tagsCloudSearchOperator	Use search operator 'OR' instead of 'AND' Specifies whether or not filtering using tags is allowed in  <b>My feed</b> . If an additional tag is activated, more entries are displayed in the list. The default is <b>allowed</b> (default value <b>true</b> ).	true, false



Key	Description	Valid input
collaboration.optionsPage.enableAttachment	Enable attachments Specifies whether or not documents from ARIS document storage can be accessed as new attachments for activities.	true, false
collaboration.optionsPage.exportActivitiesAsZipFileInstantly	Export activities as ZIP file instantly Specifies whether activities are exported as a ZIP file instantly or whether the ZIP file will be stored in ARIS document storage and you can download it later.	true, false
collaboration.optionsPage.autoFollowGroup	Follow groups automatically Specifies whether or not users are automatically followers of groups they have posted or commented on their content. The default value is <b>false</b> .	true, false
collaboration.optionsPage.autoFollowUser	Follow users automatically Specifies whether or not users are automatically followers of users they have posted or commented on their content. The default value is <b>false</b> .	true, false
collaboration.optionsPage.autoFollowModel	Follow models automatically Specifies whether or not users are automatically followers of models they have posted or commented on their content. The default value is <b>false</b> .	true, false
enableAllUserGroups	Enable all user groups Enables the function based on which all ARIS user groups are displayed when users are posting in Collaboration.	true, false
userGroupsToHaveOwnFeedInCollaboration	Configure visibility of user groups in the collaboration Enables the function based on which a single ARIS user group is displayed when users are posting in Collaboration.	true, false

## 4 Use ARIS Connect

ARIS Connect is an integrated environment in which you can create, display, and change processes, as well as discuss and improve them jointly with other ARIS Connect users. When you open ARIS Connect in your Web browser you receive role-based access to the process descriptions that are relevant to you.

### 4.1 Work in the portal

ARIS Connect is an integrated environment in which you can create, display, and change processes, as well as discuss and improve them jointly with other ARIS Connect users. When you open ARIS Connect in your Web browser you receive role-based access to the process descriptions that are relevant to you.

If you click  **Portal**, you can view all information relevant to you.

Depending on your role, the view (page 297), and the published databases (page 288) your administrator selected, the function and content of the portal may vary. In the following, the functions of the classic view (page 610) and the default view (page 610) are described.

#### 4.1.1 Views

The portal shows specific information for each user. Different views display information in different ways. By default, ARIS comes with two different views. The classic view (page 481) and the default view. These views are defined in configuration sets (page 297), that cannot be changed. However, administrators can define multiple modified modification sets based on these templates.

##### 4.1.1.1 Classic view

If the administrator provides at least one database (page 288) which you have access to, this view shows all content relevant to you in a clear structure.

- Home (page 482)
- Groups (page 483)









Content filters restrict the information in specific areas of the portal to content that is relevant to you. Content filters can be defined in two ways:

- Content filters can be assigned via role. If a role object is assigned (page 554) in models to an existing user group you are member, the relevant filters are added to the **My content** area automatically.
- You can add filters (page 552) and activate them as content filters (page 555) to further restrict this content.

### 4.1.1.1.1 Home

Depending on your license, not all described quick access buttons may be available.

There are several editing areas available:

	<b>Quick start</b>	(page 611)
	<b>My content</b>	Opens the <b>My content</b> area (page 623) where you can filter the portal content of the databases you have access to by various categories, e. g. <b>Role</b> and <b>Location</b> .
	<b>My favorites</b>	Provides direct access to saved filter criteria (Seite <b>Error! Bookmark not defined.</b> ) of the <b>Favorites</b> area of the search as well as to models and groups a user selected as personal favorites (page 577).
	<b>My GRC tasks</b>	Shows an overview of your current tasks from ARIS Risk & Compliance Manager (page <b>Error! Bookmark not defined.</b> ) in ARIS Connect.
	<b>My activities</b>	Shows the current activities you are following in Collaboration or in the portal (page 704).
	<b>Dashboards</b>	Opens the <b>Dashboards</b> area where you can access to various dashboards sorted in categories such as <b>Business usage monitoring</b> .
	<b>Recent changes</b>	Shows all links to models that were changed recently. In addition, for each model the time elapsed since the last change and the path are shown.
	<b>Contacts</b>	Lists all users of the current ARIS Connect server with <b>User administrator</b> privileges. If you have any requests regarding the privileges of your user account, you can get in touch with these ARIS Connect users.

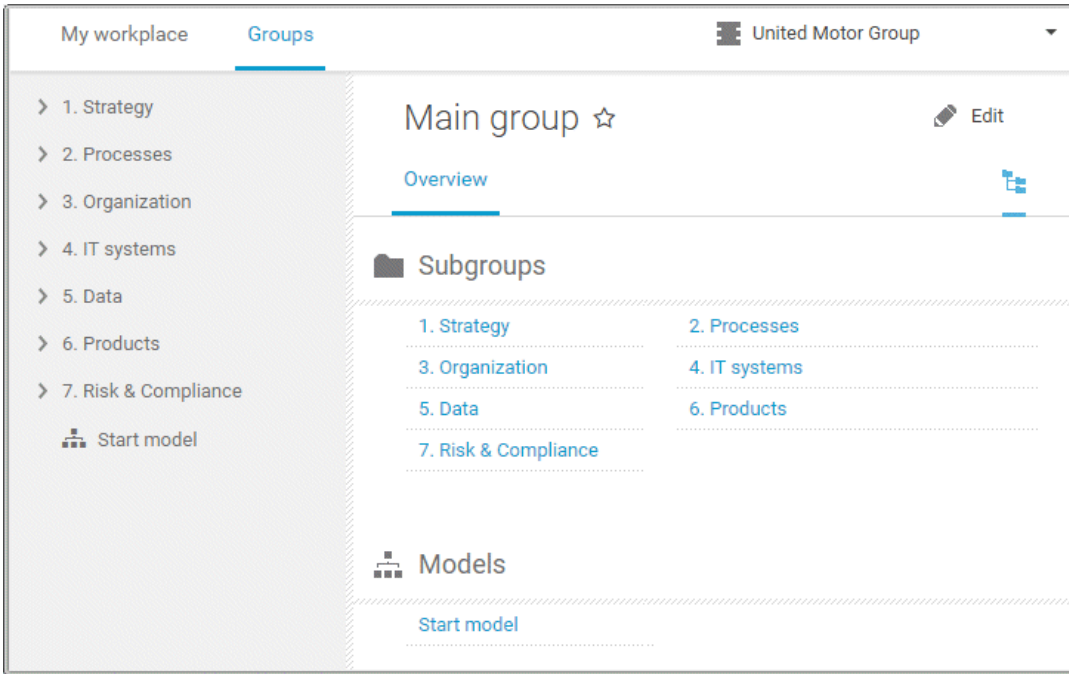
### 4.1.1.1.2 Groups

Use the Explorer tree to navigate to the entire contents of the portal you selected. Depending on the contents selected and the model type, different functions are available.

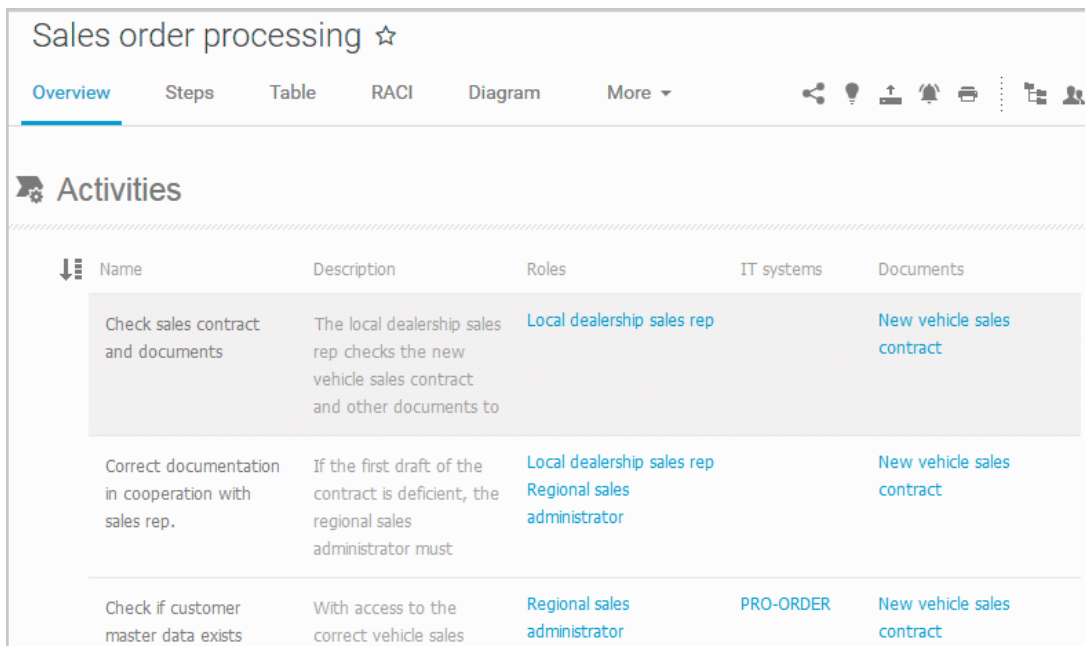
#### Fact sheets of ARIS models

##### Overview

Gives an overview of the item selected, e. g., displays variant relationships of the selected item or the content of a selected group.



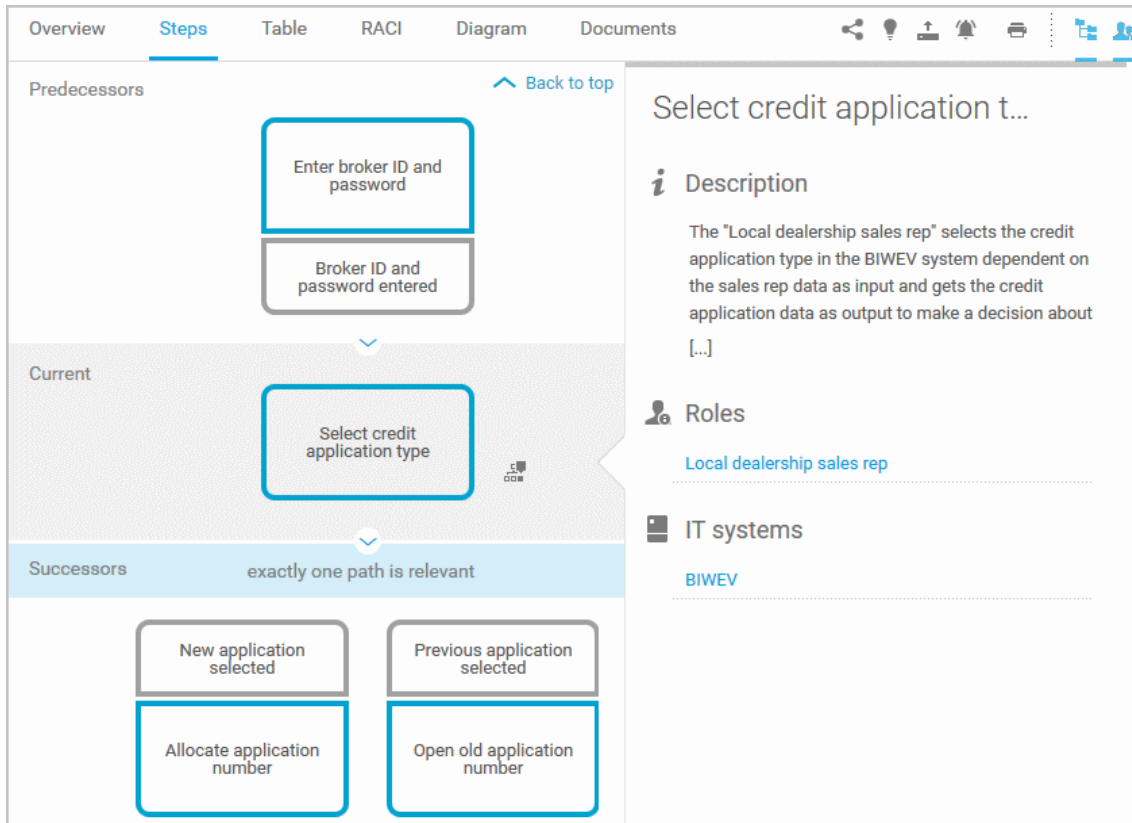
If you have selected a model, additional headings are shown depending on the context.



Content that can be used to navigate to other content is displayed as links.

## Steps

Transparently displays all steps of a process (EPC) (page **Error! Bookmark not defined.**). Regardless of the process size you can view only the previous, current, and subsequent process steps. For the current step the relevant information is provided in the form of links.



You can easily navigate to the top of the **Steps** fact sheet (page **Error! Bookmark not defined.**) and you can easily navigate between the **Steps** and the **Diagram** fact sheet (page **Error! Bookmark not defined.**).

**Table**

Shows the functions that the process of type **EPC** and **BPMN** contains, as well as the roles assigned to them. In the tables, you can add columns (page **Error! Bookmark not defined.**) and remove added columns (page **Error! Bookmark not defined.**) again.

Functions	Roles
Check sales contract and documents	Local dealership sales rep
Correct documentation in cooperation with sal	Local dealership sales rep Regional sales administrator
Check if customer master data exists	Regional sales administrator
Create customer master data	Regional sales administrator
Enter vehicle data and details	Regional sales administrator
Check if vehicle is in stock	
Allocate vehicle	Regional sales administrator
Create sales order	Regional sales administrator

You can sort the functions (page **Error! Bookmark not defined.**) in different ways by clicking the column title.

You can open a matrix (page **Error! Bookmark not defined.**) based on the **Table** fact sheet to clearly display the interrelations between the individual roles and functions.

Functions	Roles	
	Local dealership sales rep	Redonal sales administrator
Check sales contract and documents	<input checked="" type="checkbox"/>	
Correct documentation in cooperation with sales rep.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Check if customer master data exists		<input checked="" type="checkbox"/>
Create customer master data		<input checked="" type="checkbox"/>
Enter vehicle data and details		<input checked="" type="checkbox"/>

**RACI**





RACI matrices display the activities processes and the associated organizational responsibilities. RACI matrices are displayed only if RACI information is available for this process (page **Error! Bookmark not defined.**). You can sort the functions (page **Error! Bookmark not defined.**) matrices.

Overview		Steps	Table	<b>RACI</b>	More ▾
↓ Functions		Local dealership sales rep		Regional sales administrator	
Check sales contract and documents	<b>R</b>	A	R	A	
	C	I	C	I	
Correct documentation in cooperation with sales rep.	R	A	<b>R</b>	A	
	<b>C</b>	I	C	I	
Check if customer master data exists	R	A	<b>R</b>	A	
	C	I	C	I	
Create customer master data	R	A	<b>R</b>	A	
	C	I	C	I	

## Diagram


Graphically displays the diagram in Model Viewer. Depending on the diagram type, different functions are available.



You can change the view of the diagram (page **Error! Bookmark not defined.**) () to show these aspects you want to focus on. Using the functions of the view bar you can change the size of appearance (page **Error! Bookmark not defined.**). Click  **Properties** to view the properties of a model or a model item. (page **Error! Bookmark not defined.**) You can highlight objects in the diagram (page **Error! Bookmark not defined.**) () that meet a defined condition. In addition, you can open assigned models (page **Error! Bookmark not defined.**) ().

## Tasks

Shows your tasks created by mini workflows or Process Governance processes. For editing, selected tasks are opened in ARIS Process Board (page 5).

Task	Priority	Status
 New document submitted: Assigned Nov 26, 2018		New



## Transactions

Transactions are displayed if you are using Process-driven Management for SAP and if this function has been configured (page 291) in the portal.

Transaction code	Name	Supports	Type	
	Create contract	Contract negotiation and completion in ERP Create contract	SAP transaction	
	Periodic billing	Contract negotiation and completion in ERP	SAP transaction	
	Display contract	Contract negotiation and completion in ERP Inform sales office about contract	SAP transaction	
	Change contract	Contract negotiation and completion in ERP	SAP transaction	
	Create quotation	Quotation processing in ERP (to-be)	SAP transaction	
SDQ1	Expired quotations	Quotation processing in ERP (to-be)	SAP transaction	▶ ▼
SDQ2	Expired quotations	Quotation processing in ERP (to-be)	SAP transaction	
SDQ3	Complete quotatio	Quotation processing in ERP (to-be)	SAP transaction	

You can start (page 548) the ▶ transaction automatically via the default server in each row displaying a transaction code. Click the ▼ arrow head to display all registered SAP Servers. The default server selected is indicated by a check mark.

16 A08 Solution Manager 7.1  
 18 S04 Solution Manager 7.0  
 SAP URL  
 Logon data [Reset data](#)

To start the transaction, click an SAP Server or a URL. The Login dialog opens.

### SAP logon

Client:

User:

Password:

Log on to the SAP system in the current language and the transaction starts. The login remains valid until you log out of the portal or enter different login data (page 549). To delete the current SAP logon data, click the ▼ arrow head and then **Reset logon data**. For the next transaction start you need to log on to the SAP system again.

If you click a transaction on the **Transactions** page, such as **SDQ1**, its fact sheet including detailed information is displayed. If documents are available, you will be able to download (page 549) them.

### Documents

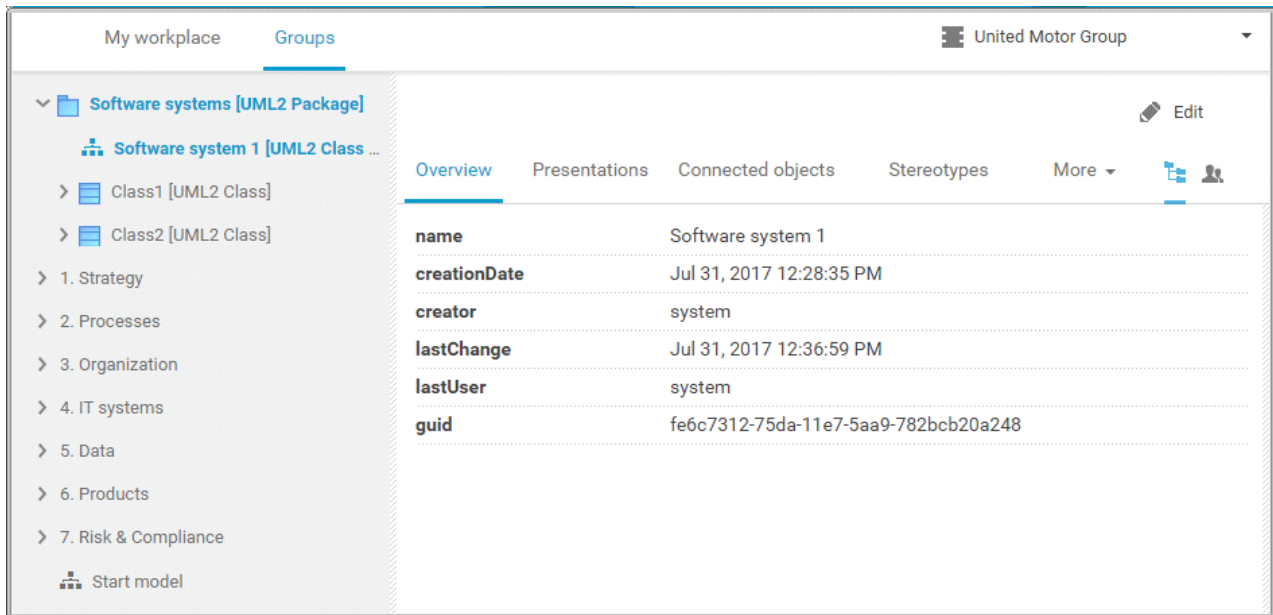
Lists documents assigned to models or objects, for example, by the **Link 1 - Link 4** attributes. These documents are stored in ARIS document storage.

Overview   Steps   Table   RACI   Diagram   Tasks <b>Documents</b>			
<div style="text-align: center;"> <span>⏪</span> <span>⏩</span> <span>1-1 of 1</span> <span>⏴</span> <span>⏵</span> </div>			
Name	Owner	Last update	Related to
Modeling conventions	stem14	2018.11.26, 10:25:38	Sales order processing

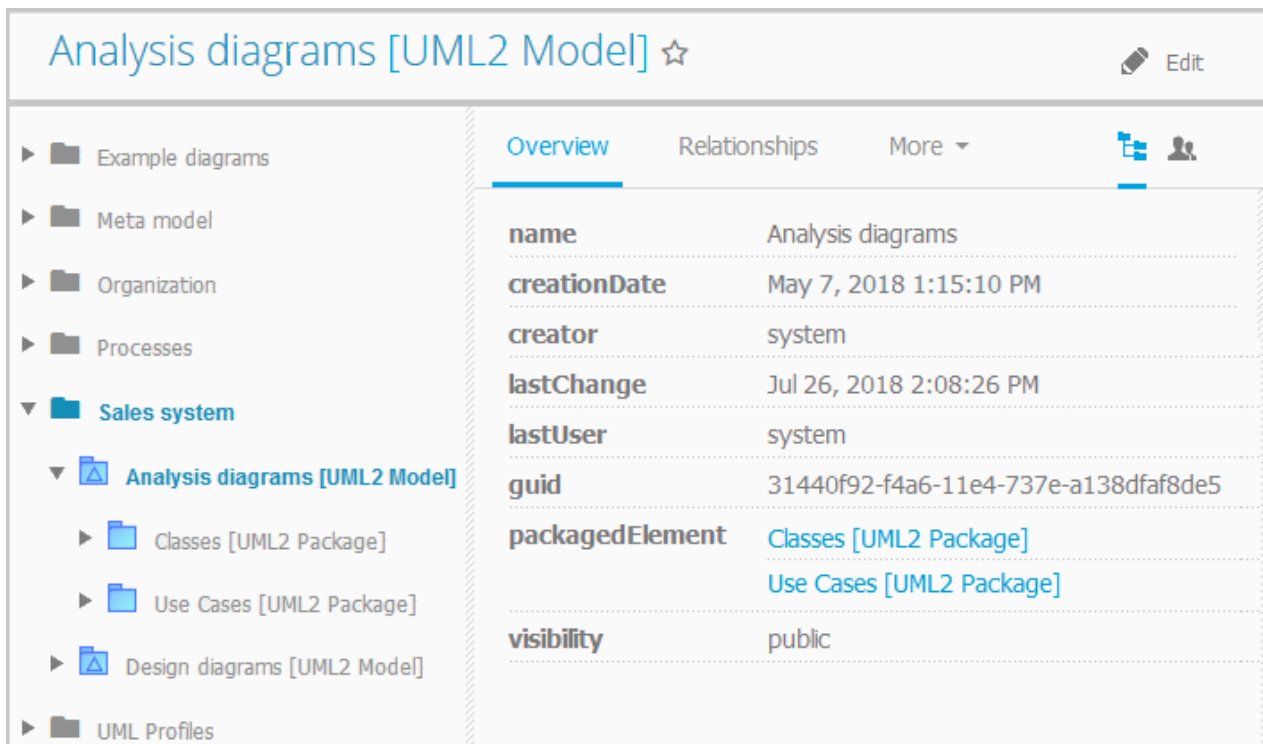
## Fact sheets of UML elements

### Overview

The relevant content is displayed based on the item selected. If you have selected a group, the group content is displayed. Content that can be used to navigate to other content is displayed as links.



For example, if you have selected a UML element, additional headings are shown depending on the context.



**Relationships**

Displays the relationships of the selected UML element as a link. If you click the link, the related element is displayed and highlighted in the tree.

**Reused objects**

Lists the objects that the selected element reuses as a link. If you click the link, the related element is displayed and highlighted in the tree.

**Linked diagrams**

Lists the diagrams with which the selected element is linked as a link. If you click the link, the related element is displayed and highlighted in the tree.

**Presentations**

Lists the diagrams in which the selected element occurs as a link. If you click the link, the related element is displayed and highlighted in the tree.

**Stereotypes**

Lists the stereotypes that were applied to the selected element as a link. If you click the link, the related element is displayed and highlighted in the tree.

**Profiles**

Lists the profiles that were applied to the selected element.


**Tagged values**

Lists the tagged values with which the selected element is linked as a link. If you click the link, the related element is displayed and highlighted in the tree.

**Diagram**

This entry is displayed if you have selected a UML diagram. It displays the UML diagram in Model Viewer graphically.

### 4.1.1.2 Default view

If you click  **Portal**, you can view all information relevant to you.

If the administrator provides at least one database (page 288), this view shows all content relevant to you in a clear structure:

- Home (page 482)
- Processes (page 494)
- Organization (page 503)
- IT systems (page 504)

In the default view, only assignments are shown that belong to the current hierarchy, for example, assignments from Value-added chain diagrams (VAC) to object of process models like EPCs, but no assignments to organizational charts.









Content filters restrict the information in specific areas of the portal to content that is relevant to you. Content filters can be defined in two ways:

- Content filters can be assigned via role. If a role object is assigned (page 554) in models to an existing user group you are member, the relevant filters are added to the **My content** area automatically.
- You can add filters (page 552) and activate them as content filters (page 555) to further restrict this content.

### 4.1.1.2.1 Home

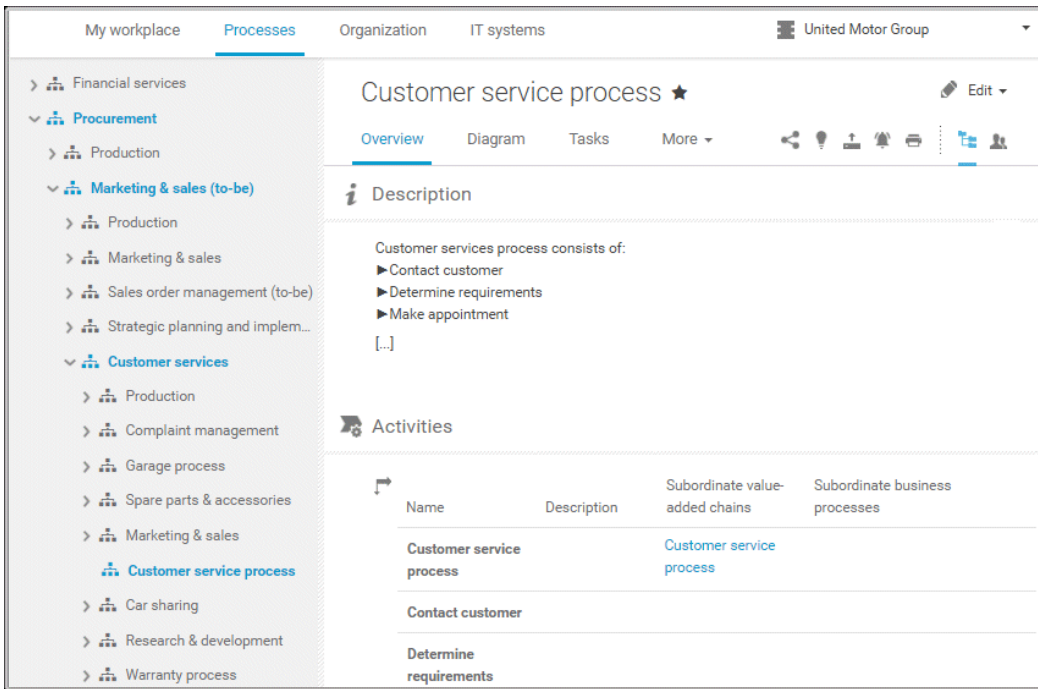
Depending on your license, not all described quick access buttons may be available.

There are several editing areas available:

	<b>Quick start</b>	(page 611)
	<b>My content</b>	Opens the <b>My content</b> area (page 623) where you can filter the portal content of the databases you have access to by various categories, e. g. <b>Role</b> and <b>Location</b> .
	<b>My favorites</b>	Provides direct access to saved filter criteria (Seite <b>Error! Bookmark not defined.</b> ) of the <b>Favorites</b> area of the search as well as to models and groups a user selected as personal favorites (page 577).
	<b>My GRC tasks</b>	Shows an overview of your current tasks from ARIS Risk & Compliance Manager (page <b>Error! Bookmark not defined.</b> ) in ARIS Connect.
	<b>My activities</b>	Shows the current activities you are following in Collaboration or in the portal (page 704).
	<b>Dashboards</b>	Opens the <b>Dashboards</b> area where you can access to various dashboards sorted in categories such as <b>Business usage monitoring</b> .
	<b>Recent changes</b>	Shows all links to models that were changed recently. In addition, for each model the time elapsed since the last change and the path are shown.
	<b>Contacts</b>	Lists all users of the current ARIS Connect server with <b>User administrator</b> privileges. If you have any requests regarding the privileges of your user account, you can get in touch with these ARIS Connect users.

## 4.1.1.2.2 Processes

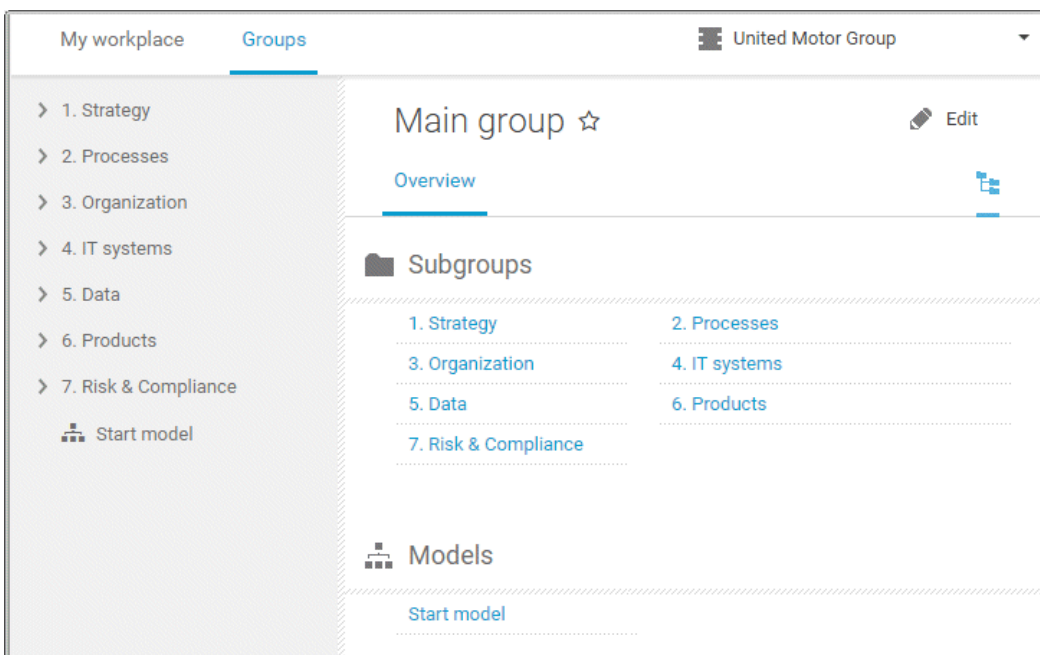
Quickly gain an overview of all processes that are relevant to you. Navigate via value-added chains to the process chains of the portal selected.



Depending on the contents selected and the type of a diagram, different fact sheets and functions are available.

### Overview

Gives an overview of the item selected, e. g., displays variant relationships of the selected item or the content of a selected group.



If you have selected a model, additional headings are shown depending on the context.

## Sales order processing ☆

Overview
Steps
Table
RACI
Diagram
More ▾

🔗
💡
📄
🔔
🖨️
⋮
📊
👤

---

### 🔍 Activities

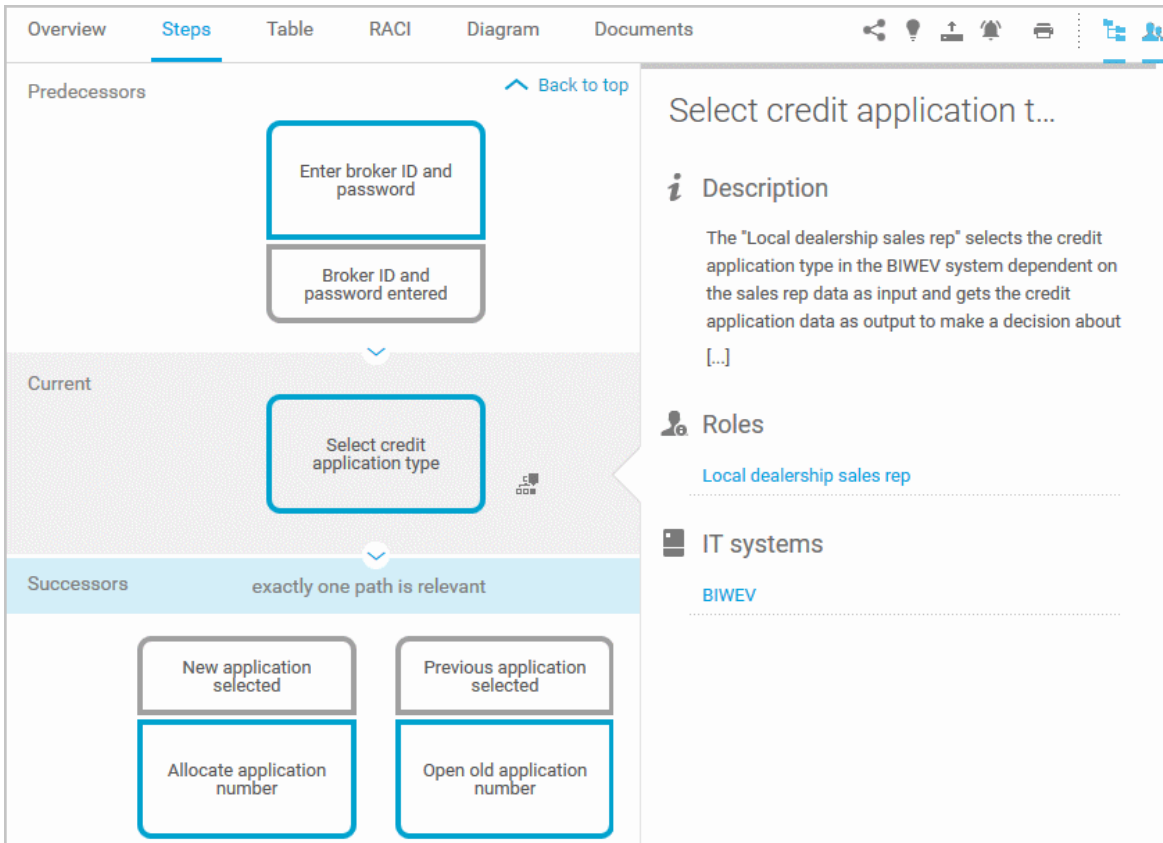
↓	Name	Description	Roles	IT systems	Documents
	Check sales contract and documents	The local dealership sales rep checks the new vehicle sales contract and other documents to	<a href="#">Local dealership sales rep</a>		<a href="#">New vehicle sales contract</a>
	Correct documentation in cooperation with sales rep.	If the first draft of the contract is deficient, the regional sales administrator must	<a href="#">Local dealership sales rep</a> <a href="#">Regional sales administrator</a>		<a href="#">New vehicle sales contract</a>
	Check if customer master data exists	With access to the correct vehicle sales	<a href="#">Regional sales administrator</a>	<a href="#">PRO-ORDER</a>	<a href="#">New vehicle sales contract</a>

Content that can be used to navigate to other content is displayed as links.



## Steps

Transparently displays all steps of a process (EPC) (page **Error! Bookmark not defined.**). Regardless of the process size you can view only the previous, current, and subsequent process steps. For the current step the relevant information is provided in the form of links.



You can easily navigate to the top of the **Steps** fact sheet (page **Error! Bookmark not defined.**) and you can easily navigate between the **Steps** and the **Diagram** fact sheet (page **Error! Bookmark not defined.**).

**Table**

Shows the functions that the process of type **EPC** and **BPMN** contains, as well as the roles assigned to them. In the tables, you can add columns (page **Error! Bookmark not defined.**) and remove added columns (page **Error! Bookmark not defined.**) again.

<span>Overview</span> <span>Steps</span> <span><b>Table</b></span> <span>RACI</span> <span>More ▾</span>	
↓ Functions	Roles
Check sales contract and documents	Local dealership sales rep
Correct documentation in cooperation with sal	Local dealership sales rep Regional sales administrator
Check if customer master data exists	Regional sales administrator
Create customer master data	Regional sales administrator
Enter vehicle data and details	Regional sales administrator
Check if vehicle is in stock	
Allocate vehicle	Regional sales administrator
Create sales order	Regional sales administrator

You can sort the functions (page **Error! Bookmark not defined.**) in different ways by clicking the column title.

You can open a matrix (page **Error! Bookmark not defined.**) based on the **Table** fact sheet to clearly display the interrelations between the individual roles and functions.

<span>Overview</span> <span>Steps</span> <span><b>Table</b></span> <span>RACI</span> <span>More ▾</span>		
↓ Functions	Roles	
	Local dealership sales rep	Regional sales administrator
Check sales contract and documents	<input checked="" type="checkbox"/>	
Correct documentation in cooperation with sales rep.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Check if customer master data exists		<input checked="" type="checkbox"/>
Create customer master data		<input checked="" type="checkbox"/>
Enter vehicle data and details		<input checked="" type="checkbox"/>

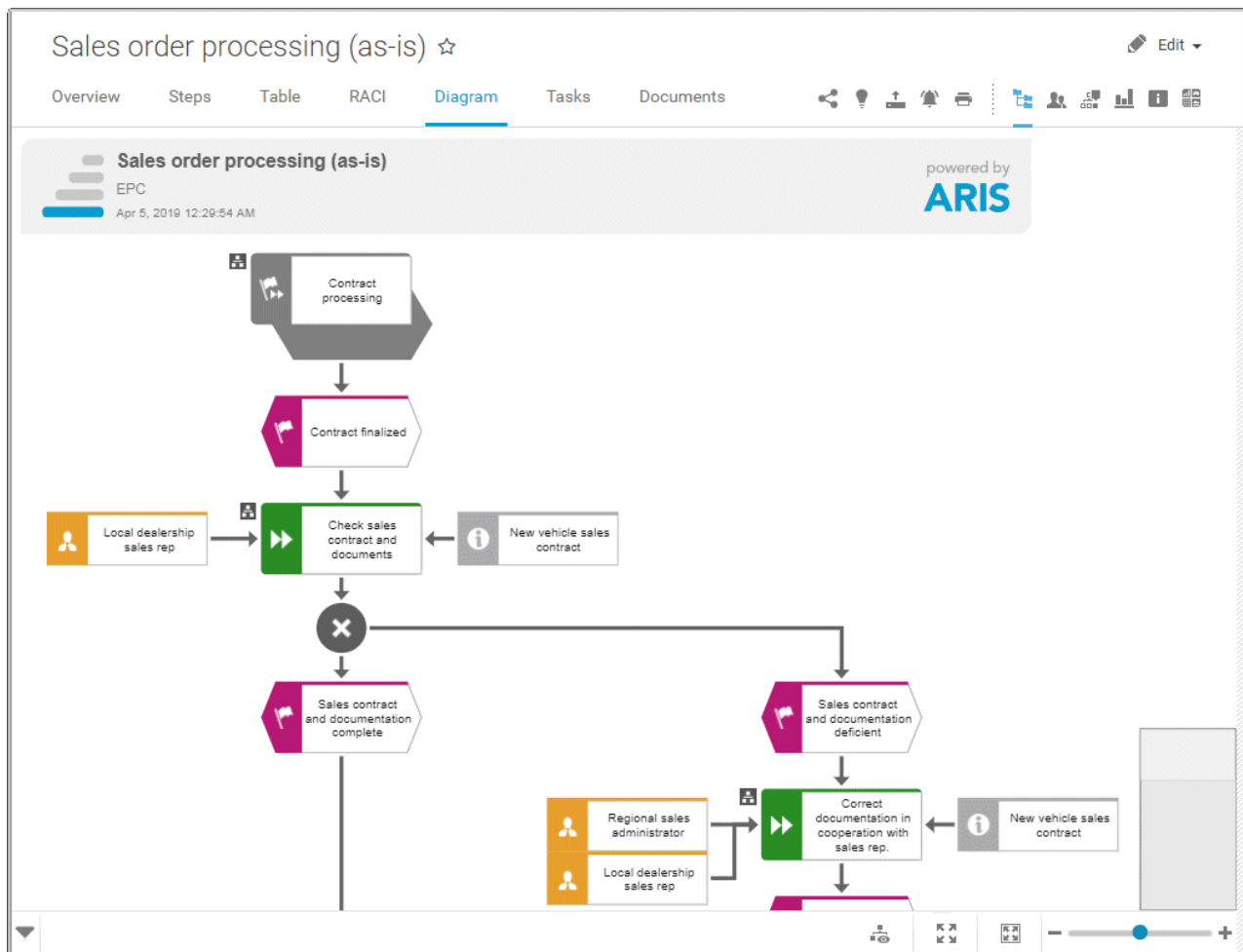
**RACI**





RACI matrices display the activities processes and the associated organizational responsibilities. RACI matrices are displayed only if RACI information is available for this process (page **Error! Bookmark not defined.**). You can sort the functions (page **Error! Bookmark not defined.**) matrices.

<span>Overview</span> <span>Steps</span> <span>Table</span> <span><b>RACI</b></span> <span>More ▾</span>		
<span>↓ Functions</span>	Local dealership sales rep	Regional sales administrator
Check sales contract and documents	R A C I	R A C I
Correct documentation in cooperation with sales rep.	R A C I	R A C I
Check if customer master data exists	R A C I	R A C I
Create customer master data	R A C I	R A C I

## Diagram


Graphically displays the diagram in Model Viewer. Depending on the diagram type, different functions are available.



You can change the view of the diagram (page **Error! Bookmark not defined.**) () to show these aspects you want to focus on. Using the functions of the view bar you can change the size of appearance (page **Error! Bookmark not defined.**). Click  **Properties** to view the properties of a model or a model item. (page **Error! Bookmark not defined.**) You can highlight objects in the diagram (page **Error! Bookmark not defined.**) () that meet a defined condition. In addition, you can open assigned models (page **Error! Bookmark not defined.**) ().

## Tasks

Shows your tasks created by mini workflows or Process Governance processes. For editing, selected tasks are opened in ARIS Process Board (page 5).

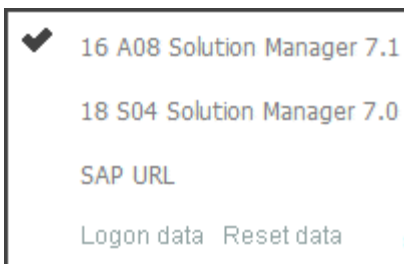
Task	Priority	Status
 New document submitted: Assigned Nov 26, 2018		New

## Transactions

Transactions are displayed if you are using Process-driven Management for SAP and if this function has been configured (page 291) in the portal.

Transaction code	Name	Supports	Type	
	Create contract	Contract negotiation and completion in ERP Create contract	SAP transaction	
	Periodic billing	Contract negotiation and completion in ERP	SAP transaction	
	Display contract	Contract negotiation and completion in ERP Inform sales office about contract	SAP transaction	
	Change contract	Contract negotiation and completion in ERP	SAP transaction	
	Create quotation	Quotation processing in ERP (to-be)	SAP transaction	
SDQ1	Expired quotations	Quotation processing in ERP (to-be)	SAP transaction	▶ ▼
SDQ2	Expired quotations	Quotation processing in ERP (to-be)	SAP transaction	
SDQ3	Complete quotatio	Quotation processing in ERP (to-be)	SAP transaction	

You can start (page 548) the ▶ transaction automatically via the default server in each row displaying a transaction code. Click the ▼ arrow head to display all registered SAP Servers. The default server selected is indicated by a check mark.



To start the transaction, click an SAP Server or a URL. The Login dialog opens.

### SAP logon

Client:

User:

Password:

Log on to the SAP system in the current language and the transaction starts. The login remains valid until you log out of the portal or enter different login data (page 549). To delete the current SAP logon data, click the ▼ arrow head and then **Reset logon data**. For the next transaction start you need to log on to the SAP system again.

If you click a transaction on the **Transactions** page, such as **SDQ1**, its fact sheet including detailed information is displayed. If documents are available, you will be able to download (page 549) them.

**Documents**

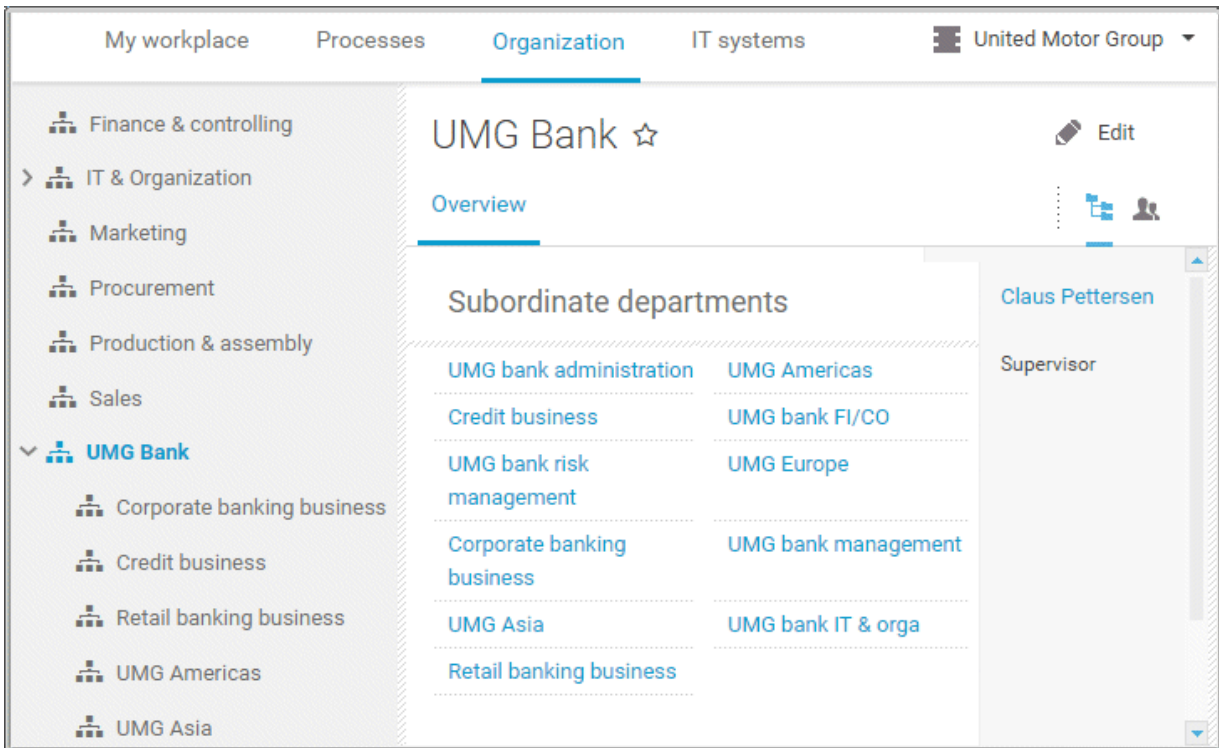
Lists documents assigned to models or objects, for example, by the **Link 1 - Link 4** attributes. These documents are stored in ARIS document storage.

<span>Overview</span> <span>Steps</span> <span>Table</span> <span>RACI</span> <span>Diagram</span> <span>Tasks</span> <span style="border-bottom: 1px solid black;">Documents</span>			
<span>⏪</span> <span>⏩</span> <span>1-1 of 1</span> <span>⏪</span> <span>⏩</span>			
Name	Owner	Last update	Related to
Modeling conventions	stem14	2018.11.26, 10:25:38	Sales order processing

### 4.1.1.2.3 Organization

Quickly gain an overview of the organizational structure. Navigate to all organizational elements of the portal selected.

The Overview gives you access to the relevant information. For example, if you click a supported process, the process information (page 494) is displayed. IT information (page 504) is available when clicking a system in use.





### 4.1.1.2.4 IT systems

Quickly obtain an overview of the IT landscape. Use the Explorer tree to navigate to all IT systems of the portal.

Depending on the contents selected, different functions are available.

#### Overview

The **Overview** fact sheet gives you access to the relevant information. If you do not select any items in Explorer, all IT systems are listed in alphabetical order.

The screenshot displays the 'IT systems' overview page. At the top, there are navigation tabs: 'Processes', 'Organization', 'IT systems' (selected), and 'Glossary'. The 'United Motor Group' logo is in the top right corner. On the left, an Explorer tree lists various IT systems: ERX-00, HEBA-2, TBA-TT, EPLU, BIWEV, ETR, OVIT-BSE, COT, JONKUSS-00, PRO-DISPO, ADC, and CEDAT. The main content area shows the 'Overview' fact sheet for a selected system, with sub-tabs for 'Overview', 'Diagram', 'Tasks', and 'Documents'. The fact sheet includes a star icon, the name 'amy.architecture', the role 'Responsible', the date 'Feb 16, 2016', and the label 'Last change'. Below this is a section titled 'Subordinate IT systems' which contains a grid of system names: ERX-00, HEBA-2, TBA-TT, EPLU, BIWEV, ETR, OVIT-BSE, COT, JONKUSS-00, and PRO-DISPO.

## Diagram

All information is also available via the **Application system type diagram** model type containing all IT systems.

Using the functions of the view bar you can change the size of appearance. Navigate in the model using the small frame of the thumbnail view above the slider. Clicking the ▼ arrow head will hide the bar.

Click **i Properties** to view all attributes specified. If you have selected an object, the attributes for that object are displayed. Click **More** to view related objects or occurrences. The model properties are shown if no object is selected.

If you navigate by clicking an assignment icon of an IT system, all diagrams assigned are offered for selection. These diagrams provide detailed information on the given IT system, as well as on the related roles, persons, and items.

Overview **Diagram** Tasks Documents

2. IT systems (alphabetically)  
Application system type diagram  
Feb 18, 2016 1:06:52 PM

powered by **ARIS**

**A**

ABB-TT ADC ALCHOR A-PLAN

**B**

BADGIN BAMU BCT-INT BELEG

**C**

COMPET-OO COT CSBS CTK

▼ [Thumbnail View Icon] [Zoom Slider] +

## Tasks

Lists the tasks the logged in user is supposed to do regarding the selected item. For editing, selected tasks are opened in ARIS Process Board (page 5).

## Documents

Lists the documents the are connected to the selected item.

## IT system fact sheets

If you click an IT system in the Explorer tree or Overview, the IT system fact sheets provide you with important information at a glance. There are fact sheets like **Process architecture**, **Information architecture**, or **IT infrastructure**.


The screenshot displays the ARIS Explorer interface for the 'A-PLAN' IT system. The top navigation bar includes 'Processes', 'Organization', 'IT systems' (selected), and 'Glossary'. The breadcrumb trail shows '2. IT systems (alphabetically)'. The main content area is divided into several sections:

- Overview:** Displays key metrics: 'Up to 10000' (Number of users), 'Non-standard' (Standardization status), and 'Between 4 hours and 24 hours' (Maximum downtime).
- Supported roles:** Lists roles such as 'Logistics administrator', 'Regional sales administrator', 'Local dealership sales rep', and 'Warehouse coordinator'.
- Business processes (context information):** Lists processes like 'Billing', 'Order processing (as-is)', 'Contract negotiation and conclusion (as-is)', 'Quotation processing (as-is)', 'Receive and condition vehicle', 'Inspection of delivered goods', and 'Goods receipt/service receipt'.
- Personnel:** Identifies 'Peter Brown' as the responsible person, with contact details: telephone '555-32547', email 'peter.brown@united-motors-group.com', and role 'Sales support EMEA'. The unit responsible is 'APL'.

The left sidebar shows a tree view of IT systems, including 'A-PLAN' and various functionalities and tests.

## 4.1.2 Use the portal

ARIS Connect is an integrated environment in which you can create, display, and change processes, as well as discuss and improve them jointly with other ARIS Connect users. When you open ARIS Connect in your Web browser you receive role-based access to the process descriptions that are relevant to you.

If you click  **Portal**, you can view all information relevant to you.

Depending on your role, the view (page 297), and the published databases (page 288) your administrator selected, the function and content of the portal may vary. In the following, the functions of the classic view (page 610) and the default view (page 610) are described.

## 4.1.2.1 Collaborate






Here are the collaboration possibilities described.

### 4.1.2.1.1 Comment on portal content

Add comments to models and post information that could be of interest to your colleagues.

#### Prerequisite

You have the required access privilege (page 280) in ARIS Architect.


1. Navigate to a process.
2. Click  **Comment** in the bar panel if the bar is not activated yet.
3. Enter or copy your text into the input field. Up to 250 characters are available. If you also want to add a link, note that the characters in the link are counted towards the 250 available characters.
4. Click  **Tag**.
5. Enter the words to be used as keywords (page 715) in the tag input box, e.g., BPM. Alternatively, select an existing tag from the list of tags. It is displayed as soon as you enter a letter that is part of an existing tag. Press the Enter key after each keyword.
6. Click  **Link**.
7. Insert a link to a Web site that contains more detailed information.
8. Click **Add link**. The link is checked and added.
9. Click  **File**. The **Select document** dialog is displayed.
10. Click  **Upload new document** to upload one of your own documents. The dialog opens.
11. Select the file you want to upload and enter the relevant additional information.
12. Click **Upload**.
13. Enable the check box of the document you want to add to your post.
14. Click **OK**.


Your comment is posted.

### 4.1.2.1.2 Follow processes in the portal

Follow processes or other models to be informed about updates in the portal and in Collaboration.

#### Procedure

1. Navigate to a process.
2. Click  **Comment** in the bar panel if the bar is not activated yet.
3. Click **Follow**.

The content you are following is displayed in the portal under **My activities** and in Collaboration under  **My portal feeds**. To stop following content, click the relevant link, and in the content displayed click **Unfollow**.








### 4.1.2.1.3 Request feedback on processes

You can request feedback on processes from other users.

#### Prerequisite

- You have at least the **ARIS Connect Viewer** license privilege.
- When using Microsoft® Internet Explorer version 8, the compatibility mode must be disabled.

#### Procedure

1. Open ARIS Connect and log in with your user name and password.
2. Click  **Portal** if it is not activated yet.
3. Click Groups (page 483) in the classic view (page 610) or Processes (page 494) in the default view (page 610).
4. Click  **Navigation** if the navigation bar is not shown.
5. Click the model for which you want feedback.
6. Click  **Comment** if the **Comment** bar is not open yet.
7. Enter your comment in the box provided.
8. Click  **Tag**.
9. Enter the words to be used as keywords (page 715) in the tag input box, e.g., BPM. Alternatively, select an existing tag from the list of tags. It is displayed as soon as you enter a letter that is part of an existing tag. Press the Enter key after each keyword.
10. Click  **Link**.
11. Insert a link to a Web site that contains more detailed information.
12. Click **Add link**. The link is checked and added.
13. Click  **File**. The **Select document** dialog is displayed.
14. Click  **Upload new document** to upload one of your own documents. The dialog opens.
15. Select the file you want to upload and enter the relevant additional information.
16. Click **Upload**.
17. Enable the check box of the document you want to add to your post.
18. Click **OK**.

The comment is displayed below the process and can be commented on by other users.

All users can select the language to be used for the notification in their profile in ARIS Connect.

This workflow is a part of ARIS Connect. It can be customized, if required. For example, you can change e-mail texts, add notifications, make changes to dialogs, etc. The integration of complex workflows (standard RCM, change management, etc.) requires the **ARIS Design Server** license or **ARIS Connect** Server extension pack: **Process Governance**.

## 4.1.2.2 Compliance

Here are the compliance functions described.


### 4.1.2.2.1 Open data from ARIS Connect in ARIS Risk & Compliance Manager

You can open risks and hierarchies in ARIS Connect from ARIS Risk & Compliance Manager.

#### Prerequisite

- The ARIS Connect integration is enabled in ARIS Risk & Compliance Manager.
- You have a role in ARIS Risk & Compliance Manager that allows you to open risks and/or hierarchy elements.
- You have the ARIS Risk & Compliance Manager Contribute or ARIS Risk & Compliance Manager Operate license privilege.
- You have the required privileges in ARIS Connect.

#### Procedure

1. In ARIS Connect, open the overview from which you want to display objects from ARIS Risk & Compliance Manager.
2. Click  **Open in ARIS Risk & Compliance Manager**.

The selected element is opened in ARIS Risk & Compliance Manager.


### 4.1.2.2.2 Show my GRC tasks

Display an overview of your current tasks from ARIS Risk & Compliance Manager in ARIS Connect. For detailed information on how to work on tasks in ARIS Risk & Compliance Manager, refer to ARIS Risk & Compliance Manager online help.

#### Prerequisite

- The ARIS Connect integration is enabled in ARIS Risk & Compliance Manager.
- You have a role in ARIS Risk & Compliance Manager that allows you to edit objects.
- You have the ARIS Risk & Compliance Manager Contribute or ARIS Risk & Compliance Manager Operate license privilege.
- You have the required privileges in ARIS Connect.

#### Procedure

1. Click **Home** >  **My GRC tasks**. Your ARIS Risk & Compliance Manager tasks are displayed.
2. Click the relevant task.

The task is displayed in ARIS Risk & Compliance Manager.

### 4.1.2.2.3 Show risk assessments from ARIS Risk & Compliance Manager in ARIS Connect

You can generated risk assessments in ARIS Connect.


#### Prerequisite

- The ARIS Connect integration is enabled in ARIS Risk & Compliance Manager.
- You have the **Risk owner** role in ARIS Risk & Compliance Manager.
- You have the ARIS Risk & Compliance Manager Contribute or ARIS Risk & Compliance Manager Operate license privilege.
- You have the required privileges in ARIS Connect.

#### Procedure

1. In ARIS Connect, open the risk for which you want to show the assigned risk assessments.
2. Click **Risk assessments**. The list of risk assessments is displayed in ARIS Connect.
3. Click the ID of the relevant risk assessment.

The risk assessment form is displayed below the list.

To open (page **Error! Bookmark not defined.**) the risk assessment in ARIS Risk & Compliance Manager, click  **Open in ARIS Risk & Compliance Manager**.




#### 4.1.2.2.4 Create issue in ARIS Risk & Compliance Manager





You can generate an issue in ARIS Risk & Compliance Manager to analyze and monitor a problem relating to a particular object. It is possible to assign several objects of different object types to an issue. You can generate issues for functions (processes and controls), organizational units, application system types, risks and risk categories.

##### Prerequisite

- The ARIS Connect integration is enabled in ARIS Risk & Compliance Manager.
- You have a role in ARIS Risk & Compliance Manager that allows you to create issues.
- You have the ARIS Risk & Compliance Manager Contribute or ARIS Risk & Compliance Manager Operate license privilege.
- You have the required privileges in ARIS Connect.

##### Procedure

1. In ARIS Connect, open the overview from which you want to create an issue in ARIS Risk & Compliance Manager.
2. Click  **Create issue in ARIS Risk & Compliance Manager**.
3. The Issue form is opened in ARIS Risk & Compliance Manager.
4. Edit the mandatory fields.
  - a. Enter the **Name** for the issue.
  - b. Enter the **Description** of the issue.
  - c. Enter a description of the **Remediation measure**.
  - d. Enter the date by which the issue is to be remediated (**Remediation planned before**) (becomes a mandatory field as soon as the **Release** creator status is selected).
  - e. Assign an **Issue owner** and an **Issue reviewer** (becomes a mandatory field as soon as the **Release** creator status is selected).
5. Edit the optional fields.
  - a. Enable **Financial details** to display the attributes for categorizing financial incidents.
    1. Select the **Business line level 2**. Level 1 is set automatically as a result.
    2. Select the **Incident type level 2**. Level 1 is set automatically as a result.
    3. Select the **Incident cause classification level 2**. Level 1 is set automatically as a result.
    4. Specify the expected loss.
    5. Select a currency. If a currency is specified at the system or environment, it is displayed here automatically, but can be changed.
  - b. To describe the incident in greater detail, add reference **documents**.
  - c. Insert a remark.
  - d. Use **Assignments** to assign the hierarchy elements that can be affected by the incident.

6. Assign an issue owner/issue reviewer.
  - a. In the Issue owner or Issue reviewer row, click  **Create assignment**. The list of assignable users opens.
  - b. Click  **Create assignment** in the row of the relevant user. The list closes.
  - c. Click  **Save**.
7. Click  **Save**.
8. Click **OK**.

Your entries are saved. An issue was generated for the selected objects and added to the **My generated issues** list in ARIS Risk & Compliance Manager. The users in charge are notified automatically by e-mail.

### 4.1.2.3 Documents

Here is the use of documents described.


#### 4.1.2.3.1 Propose a document to a model

You can submit new documents on ARIS Connect content that is evaluated by the person responsible for the content and that may be linked to the contents.

##### Prerequisite

- You have at least the **ARIS Connect Viewer** license.
- The **Person responsible** document attribute must be specified for the relevant document with a user name that exists in user management.
- The person responsible must have the **ARIS Connect Viewer** or **ARIS Connect Designer** license.

##### Procedure

1. Click a model.
2. Click  **Propose document**. The **Submit new document** dialog opens.
3. Select the documents you want to submit.
4. Click **Send**.

The person responsible for the contents receives the approval request by e-mail. They can approve the document. It is then linked to the model or object. If they do not approve it, no link is created. The applicant receives a corresponding e-mail.

This workflow is a part of ARIS Connect. It can be customized, if required. For example, you can change e-mail texts, add notifications, make changes to dialogs, etc. The integration of complex workflows (standard RCM, change management, etc.) requires the **ARIS Design Server** license or **ARIS Connect** Server extension pack: **Process Governance**.

#### 4.1.2.3.2 Propose a document to an object


You can submit new documents on ARIS Connect content that is evaluated by the person responsible for the content and that may be linked to the contents.

##### Prerequisite

- You have at least the **ARIS Connect Viewer** license.
- The **Person responsible** document attribute must be specified for the relevant document with a user name that exists in user management.
- The person responsible must have the **ARIS Connect Viewer** or **ARIS Connect Designer** license.

##### Procedure

1. Click a model.
2. Click the **Diagram** fact sheet.

3. Click an object.
4. Click  **Propose document**. The **Submit new document** dialog opens.
5. Select the documents you want to submit.
6. Click **Send**.

The person responsible for the contents receives the approval request by e-mail. They can approve the document. It is then linked to the model or object. If they do not approve it, no link is created. The applicant receives a corresponding e-mail.

This workflow is a part of ARIS Connect. It can be customized, if required. For example, you can change e-mail texts, add notifications, make changes to dialogs, etc. The integration of complex workflows (standard RCM, change management, etc.) requires the **ARIS Design Server** license or **ARIS Connect** Server extension pack: **Process Governance**.






### 4.1.2.3.3 Link new documents to a model or object

You can link new documents with a model or object.

#### Prerequisite

You have the ARIS Connect Designer license.

#### Procedure

1. Click Groups (page 483) in the classic view (page 610) or Processes (page 494) in the default view (page 610).
2. Click the name of the model you want to edit.
3. Click  **Edit** >  **Edit model**. The model opens in the Model Editor on an individual tab.
4. Click  **Properties**. The **Properties** bar opens.
5. Activate the **Documents** tab.
6. Click in the model background to add a document to the model or the relevant object to add a document to the object.
7. Click  **Add document**. The dialog opens.
8. Navigate to the target folder.
9. Click  **Upload new document**. The **Select new document** dialog opens.
10. Click **Select file** and select a document.
11. Enter a title and, if required, specify further document properties.
12. Click **Upload**.
13. Select the relevant documents and click **OK**.

The documents are linked with the model or object.






#### 4.1.2.3.4 Add existing documents to a model or object

You can link documents from ARIS document storage or a document management system with a model or object.

##### Prerequisite

You have the ARIS Connect Designer license.

##### Procedure

1. Click  **Portal** if it is not activated yet.
2. Navigate to a group and click a model.
3. Click **Diagram** if not enabled yet.
4. Click  **Edit** >  **Edit model**. The model opens in the Model Editor on an individual tab.
5. Click  **Properties**.
6. Activate the **Documents** tab.
7. Click in the model background or an object.
8. Click  **Add document**.
9. Click the folder containing the relevant documents.
10. Select the relevant documents and click **OK**.

The documents are linked with the model or object.






#### 4.1.2.3.5 Submit a change request for a document

You can send change requests for documents to the document manager for documents in ARIS Connect.

##### Prerequisite

You have the ARIS Connect Designer license.

##### Procedure

1. Open ARIS Connect and log in with your user name and password.
2. Click  **Portal** if it is not activated yet.
3. Open (page **Error! Bookmark not defined.**) the model that contains the document you want to submit a change request for.
4. Click **Diagram** if not enabled yet.
5. Click  **Edit** >  **Edit model**.
6. Click  **Properties**.
7. Activate the **Documents** tab.
8. Select the document for which you want to submit a change request.
9. Click  **Submit change request**. The dialog opens.
10. Enter a title and a description for your request.

11. Select the priority with which the request is to be handled.
12. Click **Send**.

You will automatically receive a confirmation notification.

The document manager receives the change request by e-mail with a link to the relevant document and a link to edit the associated task in ARIS Process Board.

Once the document manager has processed the request, the applicant receives a message by e-mail.

If the change request is accepted, the person who is to implement the changes receives an e-mail including a link to the associated task in ARIS Process Board and the information added. After processing and approval - or rejection -, the applicant receives an e-mail including the information that the change requests have been implemented - or rejected.

This workflow is a part of ARIS Connect. It can be customized, if required. For example, you can change e-mail texts, add notifications, make changes to dialogs, etc. The integration of complex workflows (standard RCM, change management, etc.) requires the **ARIS Design Server** license or **ARIS Connect** Server extension pack: **Process Governance**.




### 4.1.2.3.6 Have document approved

Ask the person in charge to approve the documents you changed so that the changed document can be made available to all users.

#### Prerequisite

You have the ARIS Connect Designer license.

#### Procedure

1. Open ARIS Connect and log in with your user name and password.
2. Click  **Portal** if it is not activated yet.
3. Open (page **Error! Bookmark not defined.**) the model that contains the document that you want to have approved.
4. Click  **Properties**.
5. Activate the **Documents** tab.
6. Select the relevant document.
7. Click  **Request approval**. The dialog opens.
8. Click **Send**.

The person responsible receives an e-mail with the relevant information and a link to the associated task in ARIS Process Board. If the person responsible approves the changes, the current version of the document is made available in ARIS Connect (status APPROVED). The document is visible in the portal on the **Documents** tab. If rejected, the document receives the status REJECTED.

This workflow is a part of ARIS Connect. It can be customized, if required. For example, you can change e-mail texts, add notifications, make changes to dialogs, etc. The integration of complex

workflows (standard RCM, change management, etc.) requires the **ARIS Design Server** license or **ARIS Connect** Server extension pack: **Process Governance**.






### 4.1.2.3.7 Share document

You can share documents with other users.

#### Prerequisite

You have the ARIS Connect Designer license.

#### Procedure

1. Click  **Portal** if it is not activated yet.
2. Open (page **Error! Bookmark not defined.**) the model that contains the document you want to submit a change request for.
3. Click **Diagram** if not enabled yet.
4. Click  **Edit** >  **Edit model**.
5. Click  **Properties**.
6. Activate the **Documents** tab.
7. Select the document you want to share with another user.
8. Click  **Share document**. The dialog opens.
9. Select the user you want to share the document with.
10. Enable **Send copy to me** to receive a copy of the message, if required.
11. You can also enter a subject and a comment.
12. Click **Send**.

The selected user receives an e-mail containing the information you entered and a link to the corresponding document.

This workflow is a part of ARIS Connect. It can be customized, if required. For example, you can change e-mail texts, add notifications, make changes to dialogs, etc. The integration of complex workflows (standard RCM, change management, etc.) requires the **ARIS Design Server** license or **ARIS Connect** Server extension pack: **Process Governance**.






### 4.1.2.3.8 Remove document from a model or object

You can remove a document from a model or object.

#### Prerequisite

You have the ARIS Connect Designer license.

#### Procedure

1. Click  **Portal** if it is not activated yet.
2. Open (page **Error! Bookmark not defined.**) the model you want to remove the document from.
3. Click **Diagram** if not enabled yet.
4. Click  **Edit** >  **Edit model**.
5. Click  **Properties**.
6. Activate the **Documents** tab.
7. Click  **Remove selected document**.

The document is removed from the model or object and no longer has any relationship to the model or object.




## 4.1.2.4 Execute processes

Here is the execution of processes described.


### 4.1.2.4.1 Start governance process

You can start governance processes from the portal.

#### Prerequisite

The  **Start governance process** function is provided only if an executable process is available, and if the item for which the governance process is to be started is defined as the execution context (page 99).

#### Procedure

1. Navigate to the process or object for which you want to start the governance process.
2. Click  **Start governance process**. If multiple processes are available, they will be displayed for selection.
3. Click the executable process.

The executable process will start.

## 4.1.2.5 Model

Here is the use of models described.




### 4.1.2.5.1 Submit change request

You can send change requests for models to the person responsible.

#### Prerequisites

- You have at least the **ARIS Connect Viewer** license privilege.
- The **Person responsible** model attribute must be specified for the relevant model with a user name that exists in the user management.
- The models are saved in a versionable database.
- When using Microsoft® Internet Explorer version 8, the compatibility mode must be disabled.

#### Procedure

1. Open ARIS Connect and log in with your user name and password.
2. Click  **Portal** if it is not activated yet.
3. Click Groups (page 483) in the classic view (page 610) or Processes (page 494) in the default view (page 610).
4. Click  **Navigation** if the navigation bar is not shown.
5. Click the model for which you want to submit a change request.
6. Click  **Submit change request**. The dialog opens.
7. Enter a title and a description for your request.
8. Select the priority with which the request is to be handled.
9. Add any relevant documents, graphics, etc. that could be used as a basis for editing.
10. Click **Send**. A completion message is displayed.
11. Click **OK**.

The person responsible receives the change request by e-mail with a link to the relevant model and a link to edit the associated task in ARIS Process Board.

Once the person responsible has processed the request, the applicant receives a message by e-mail.

As soon as the first change request is made, the **ARIS Connect Governance Inbox** database is automatically created in ARIS. It contains a Requirements inbox for each person responsible with a model of the **Requirements tree** type. An object of the **Requirement** type is created for each change request. As the process continues, the realization status of the object is automatically changed depending on which status the person responsible has selected (**Approve, Reject**). This enables all change requests to be monitored in the **ARIS Connect Governance Inbox** database.

All users can select the language to be used for the notification in their profile in ARIS Connect.

This workflow is a part of ARIS Connect. It can be customized, if required. For example, you can change e-mail texts, add notifications, make changes to dialogs, etc. The integration of complex workflows (standard RCM, change management, etc.) requires the **ARIS Design Server** license or **ARIS Connect** Server extension pack: **Process Governance**.







#### 4.1.2.5.2 Ask for model approval

Ask the person in charge to approve the models you changed so that the changed models can be made available to all users.

##### Prerequisite

- You have at least the **ARIS Connect Viewer** license privilege.
- When using Microsoft® Internet Explorer version 8, the compatibility mode must be disabled.

##### Procedure

1. Open ARIS Connect and log in with your user name and password.
2. Click  **Portal** if it is not activated yet.
3. Click Groups (page 483) in the classic view (page 610) or Processes (page 494) in the default view (page 610).
4. Click  **Navigation** if the navigation bar is not shown.
5. Click the name of the model you want to edit.
6. Click  **Edit** >  **Edit model**. The model opens in the Model Editor on an individual tab.
7. Make the required changes.
8. Click  **Comment** if it is not activated yet.
9. Click  **Request approval**. The **Confirmation** dialog opens for you to confirm that the model changes are to be saved and the model is to be reopened read-only.
10. Click **OK**. The model reopens read-only and the **Request approval** dialog is displayed.
11. If required, select a person in charge to approve the model if the **Person responsible** attribute has not been specified at the model.
12. Enter a comment to explain the approval request.
13. Click **Send**. A completion message is displayed.
14. Click **OK**.

The person responsible receives an e-mail with the relevant information and a link to the associated task in ARIS Process Board. If the person responsible approves the changes, the model is automatically published and the current version is provided.

Until then, only you and other modelers can view your changes.

All users can select the language to be used for the notification in their profile in ARIS Connect.

This workflow is a part of ARIS Connect. It can be customized, if required. For example, you can change e-mail texts, add notifications, make changes to dialogs, etc. The integration of complex

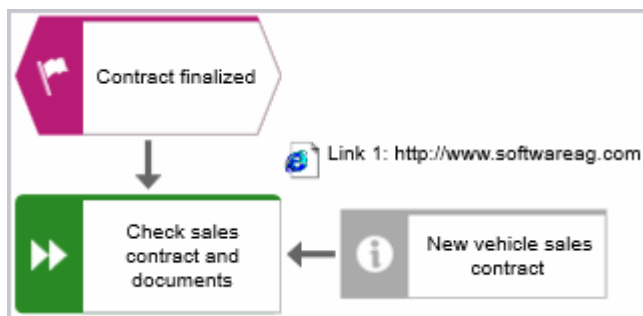
workflows (standard RCM, change management, etc.) requires the **ARIS Design Server** license or **ARIS Connect** Server extension pack: **Process Governance**.

### 4.1.2.5.3 Open placed link attributes

In Model Viewer, you can open placed link attributes.

#### Procedure

1. Click Groups (page 483) in the classic view (page 610) or Processes (page 494) in the default view (page 610).
2. Select the required model in the navigation. The fact sheets are shown.
3. Click **Diagram** if you have not already selected this fact sheet before. The diagram as well as all placed link attributes are displayed in the Model Viewer.



4. Click the relevant link attribute.

The link opens. This is how you can easily open a text document or a new e-mail with the e-mail recipient entered, for example.




### 4.1.2.5.4 Share model

You can share models with other users.

#### Prerequisite

- You have at least the **ARIS Connect Viewer** license privilege.
- When using Microsoft® Internet Explorer version 8, the compatibility mode must be disabled.

#### Procedure

1. Open ARIS Connect and log in with your user name and password.
2. Click  **Portal** if it is not activated yet.
3. Click Groups (page 483) in the classic view (page 610) or Processes (page 494) in the default view (page 610).
4. Click  **Navigation** if the navigation bar is not shown.
5. Click the model you want to send to another user.
6. Click  **Share model**. The dialog opens.

7. Select the user you want to share the model with.
8. Enable **Send copy to me** to receive a copy of the message, if required.
9. You can also enter a subject and a comment.
10. Click **Send**.

The selected user receives an e-mail containing the information you entered and a link to the corresponding model.

All users can select the language to be used for the notification in their profile in ARIS Connect. This workflow is a part of ARIS Connect. It can be customized, if required. For example, you can change e-mail texts, add notifications, make changes to dialogs, etc. The integration of complex workflows (standard RCM, change management, etc.) requires the **ARIS Design Server** license or **ARIS Connect** Server extension pack: **Process Governance**.



### 4.1.2.5.5 Create model

You can quickly and easily create new models.

#### Prerequisites

- You have the **ARIS Connect Designer** license privilege.
- The classic configuration set or modification set (page 297) based on it is selected for the portal.
- The relevant model type must be included in the database filter. If this is not the case, the portal page is displayed again after the **Create model** dialog closes.

#### Procedure

1. Open ARIS Connect and log in with your user name and password.
2. Click  **Portal** if it is not activated yet.
3. Click  **Create new model** on the **Quick start (page 611)** area. The dialog opens.
4. Enter a name for the new model in the **Model name** box.
5. Click the **Model type** box and enter part of the model type name. All model types (page 814) are displayed whose names contain the term you entered.
6. Select the required model type. The **Target** area displays the database and group names. This is where the new model will be stored.
7. Click **Change** if you want to store the model in a different database and/or group. The **Select target group** dialog opens.
8. Select the required database in the **Database** box.
9. Select the required group.
10. Click **OK**. The **Select target group** dialog closes.
11. Check your input.
12. Click **OK**. The **Create model** dialog closes.

The model is created and opens in a new tab (page 741).






## 4.1.2.5.6 Edit models

You can edit models in ARIS Connect.

### Prerequisite

- You have the **ARIS Connect Designer** privilege.
- When using Microsoft® Internet Explorer version 8, the compatibility mode must be disabled.

### Procedure

1. Open ARIS Connect and log in with your user name and password.
2. Click  **Portal** if it is not activated yet.
3. Click Groups (page 483) in the classic view (page 610) or Processes (page 494) in the default view (page 610).
4. Click  **Navigation** if the navigation bar is not shown.
5. Click the name of the model you want to edit.
6. Click  **Edit** >  **Edit model**. The model opens in the Model Editor on an individual tab.
7. Make the required changes.
8. Click  **Save**.

Your changes are saved in the model.

All users can select the language to be used for the notification in their profile in ARIS Connect. This workflow is a part of ARIS Connect. It can be customized, if required. For example, you can change e-mail texts, add notifications, make changes to dialogs, etc. The integration of complex workflows (standard RCM, change management, etc.) requires the **ARIS Design Server** license or **ARIS Connect** Server extension pack: **Process Governance**.




## 4.1.2.6 Model Viewer

Here is the use of the Model Viewer described.


### 4.1.2.6.1 Use the view bar

In the Model Viewer, you can adjust the display of a model.

#### Procedure

1. Click Groups (page 483) in the classic view (page 610) or Processes (page 494) in the default view (page 610).
2. Select the required model in the navigation. The fact sheets are shown.
3. Activate the **Diagram** fact sheet. The view bar is positioned at the bottom.
4. Click  **Full screen view** to enlarge the model to the whole display range.
5. Click  **Exit full screen** to show the model in the previous display range again.
6. Click  **Fit to window** to fit in the whole model into the display range.
7. Move the slider to enlarge or reduce the display size of the model.



8. Click  **Change view** to select a specific view (page **Error! Bookmark not defined.**) of the model.
9. On the left, click the ▼ arrow down to hide the view bar.
10. On the left, click ▲ arrow up to view the view bar again.

You have used the view bar to adjust the Model Viewer.

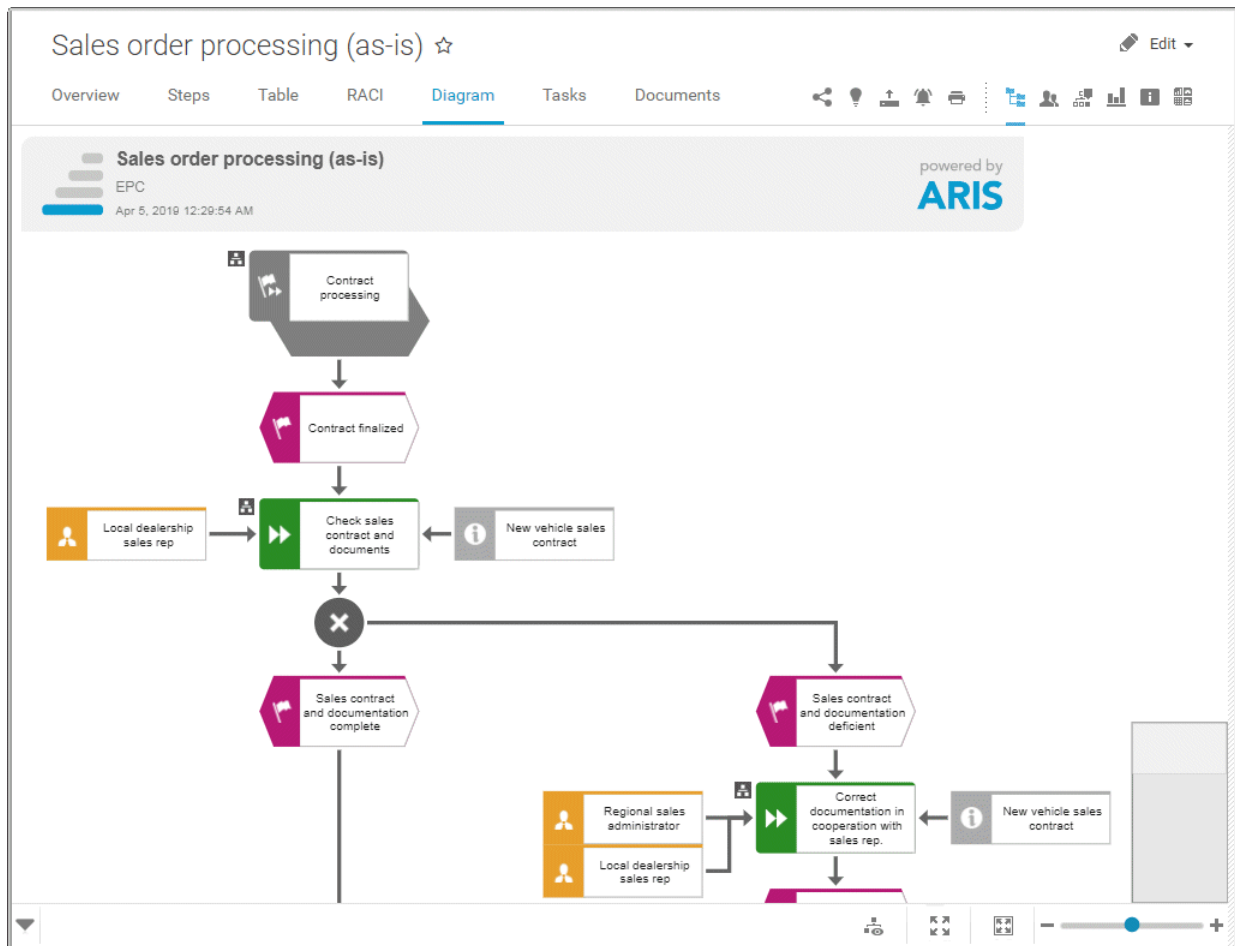
### 4.1.2.6.2 Change view





In the Model Viewer, you can change the view of models. Depending on the modeling content, despite of different criteria views can have the same result. If a view based on the current option settings cannot be generated, the indication **No diagram available** is shown in the model window.


#### Procedure

1. Click Groups (page 483) in the classic view (page 610) or Processes (page 494) in the default view (page 610).
2. Select the required model in the navigation. The fact sheets are shown.
3. Activate the **Diagram** fact sheet. The diagram is displayed in the Model Viewer.

Graphically displays the diagram in Model Viewer. Depending on the diagram type, different functions are available.



You can change the view of the diagram (page **Error! Bookmark not defined.**) () to show these aspects you want to focus on. Using the functions of the view bar you can change the size of appearance (page **Error! Bookmark not defined.**). Click  **Properties** to view the properties of a model or a model item. (page **Error! Bookmark not defined.**) You can highlight objects in the diagram (page **Error! Bookmark not defined.**) () that meet a defined condition. In addition, you can open assigned models (page **Error! Bookmark not defined.**) ().

1. Click  **Change view**. The view options (page 619) are shown. The view options displayed depends on the type of the model. The view options of model type **EPC**, e. g., differs from a model of type **Enterprise BPMN collaboration**.
2. Click the options (page 619) to change the view of the model. Based on the options, the model view is adjusted.
3. To close the **Change view** bar, click in the model window.



As long as the view options are active, the  **Change view** icon is colored in red and the selected view is output, e. g. **Lean**.



### 4.1.2.6.3 Reset a changed view

In the Model Viewer, you can determine that models are displayed on criteria you have selected (page **Error! Bookmark not defined.**). If you want to see the model without restrictions, you can reset all criteria.

#### Procedure


1. Click the red colored  **Change view** icon if the view options (page 619) are collapsed.
2. Click  **Reset all** to the right of the title **Views**.
3. To close the **Change view** bar, click in the model window.

The model is shown without restrictions and the  **Change view** icon is not colored anymore.

### 4.1.2.6.4 Show properties

In the Model Viewer, you can display the properties of the model or of model items.

#### Procedure

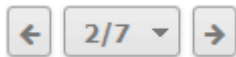
1. Click Groups (page 483) in the classic view (page 610) or Processes (page 494) in the default view (page 610).
2. Select the required model in the navigation. The fact sheets are shown.
3. Activate the **Diagram** fact sheet.
4. Click  **Properties**. The **Property** bar opens and the **Attributes** tab is activated.

Attributes <span>More ▾</span>	
Attribute	Attribute value
Name	Organizational chart
Remark/Example	Organization
Type	Structural element
Time of generation	Apr 18, 2017 11:20:25 AM
Creator	w.becker
Last change	Aug 18, 2019 11:25:00 AM
Last user	system

If you have selected an object, the attributes for that object are displayed. Click **More** to view related objects or occurrences. The model properties are shown if no object is selected.

5. Click **More > Related objects** to show the related object of the selected object. The types of the connections and the names of the related objects are shown.

- Click **More > Related models** show the related models of the selected object. The occurrences of the selected object in the current and other models is displayed. If a model contains more than one occurrence of the selected object, you can select them directly or using arrows to the left or to the right.




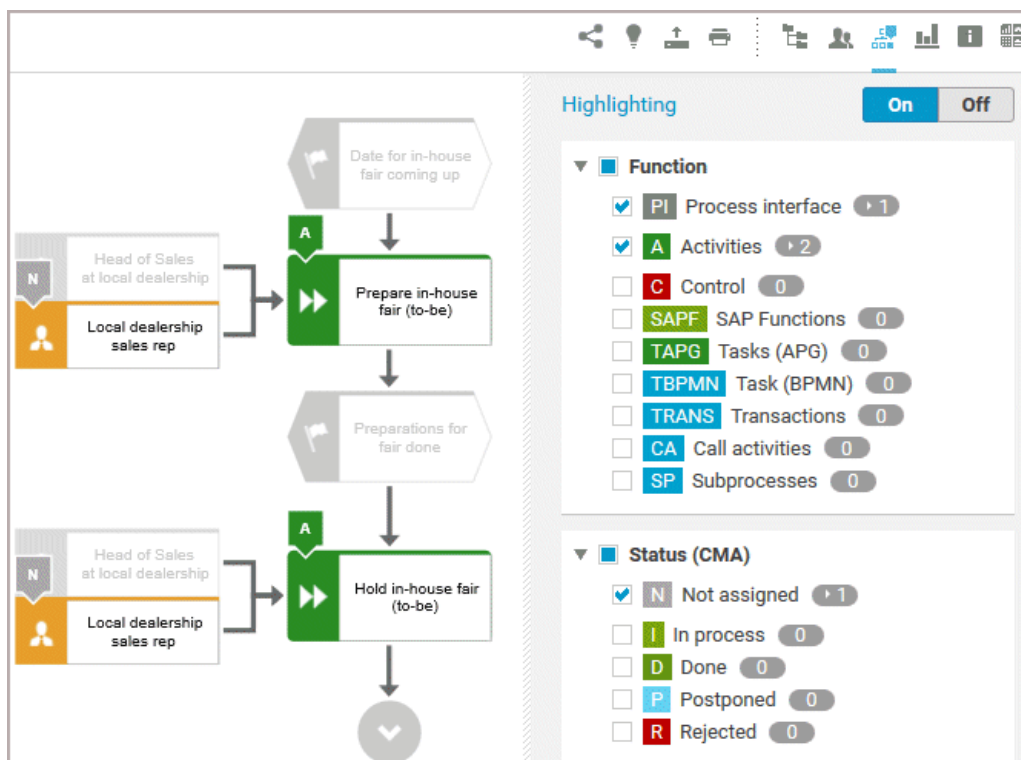
You have used the **Property** bar.

#### 4.1.2.6.5 Highlight objects

In the Model Viewer, you can highlight objects that meet a defined condition. The highlighting remains active for as long as you stay in the view or until you switch highlighting off (page 569).

##### Procedure

- Click Groups (page 483) in the classic view (page 610) or Processes (page 494) in the default view (page 610).
- Select the required model in the navigation. The fact sheets are shown.
- Activate the **Diagram** fact sheet.
- Click  **Highlighting > On**.
- Enable the criteria to be met. The objects are then highlighted in the diagram. In this example the activities are highlighted and the role that is not assigned because their check boxes are activated.





You have highlighted objects.

### 4.1.2.6.6 Open assignment

In Model Viewer, you can quickly open models assigned to objects. Assigned diagrams contain detailed information on the object that the diagrams are assigned to, for example.

#### Procedure

1. Click Groups (page 483) in the classic view (page 610) or Processes (page 494) in the default view (page 610).
2. Select the required model in the navigation. The fact sheets are shown.
3. Activate the **Diagram** fact sheet. The model as well as all objects with assigned models are displayed in the Model Viewer.
4. Click the relevant  assignment icon, or double-click the object at which the relevant  assignment icon is shown.

If only one diagram is assigned, that model opens directly. If more than one model is assigned, all assigned model are offered for selection in a dialog.

## 4.1.2.7 Navigate

Here are the navigation possibilities described.


### 4.1.2.7.1 Select database

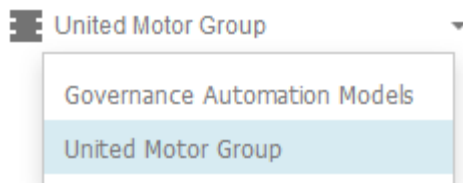
You can select one of the databases offered in the portal to access its content.

#### Prerequisite

Several databases have been published. If only one database has been published, the ▼ down arrow symbol to select another database is not displayed.

#### Procedure

1. Click the name of the current database that follows the  database symbol. In the standard ARIS Connect views, database selection is located top right of the screen. The list of available databases opens.



2. Click the name of the database you want to use.

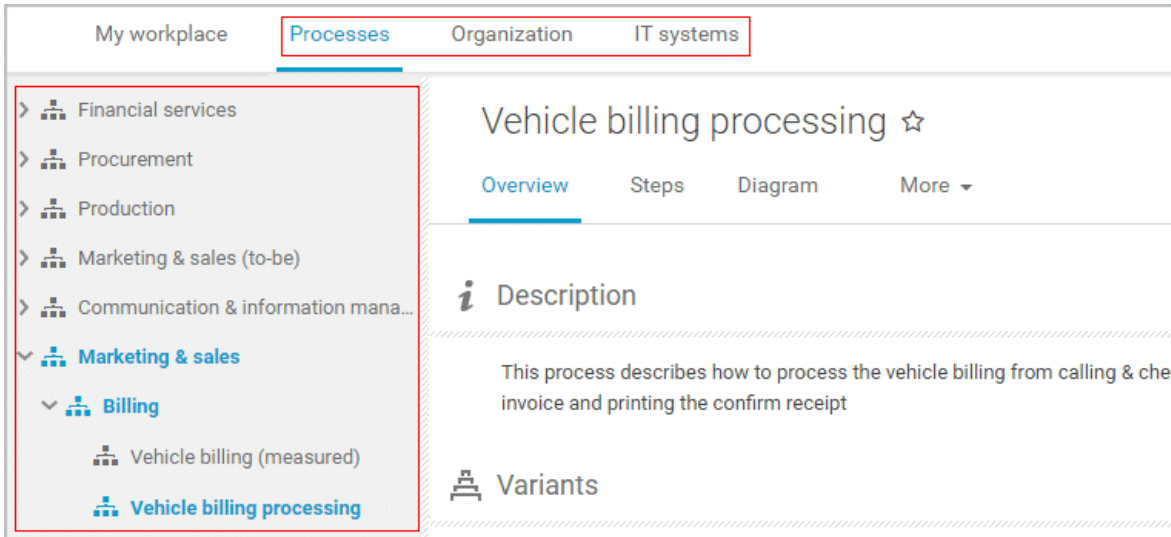
The name of the selected database is displayed. The **Recent changes** area is updated according to the selected database. If you start a search (page 581), it is performed based on the current database.



Shows all links to models that were changed recently. In addition, for each model the time elapsed since the last change and the path are shown.

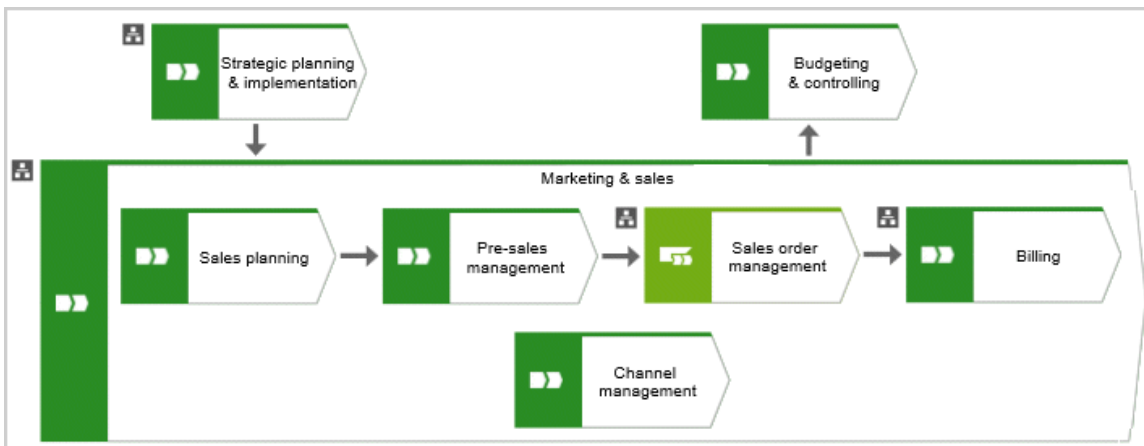
### 4.1.2.7.2 Navigate in the portal

With the help of hierarchies, administrators control (page 316) how portal users can quickly navigate to relevant information. These hierarchies map the relationships between superior and subordinate items.

In the example for the **default** view, the **Processes**, **Organization**, and **IT systems** hierarchies are defined. The **Processes** hierarchy is activated where users have access to all processes of the current database. The fact sheets provides various information about selected processes. When selecting a process the **Overview** fact sheet is activated by default.



If the **Diagram** fact sheet is selected, you can navigate to assigned diagrams (page **Error! Bookmark not defined.**) by clicking an object's  assignment icon, or by double-clicking an object with the  assignment icon.



### 4.1.2.7.3 Navigate step by step

You can easily follow the process flow in process models of the **EPC** type. Predecessor and successor as well as the attributes of the selected object are displayed.

#### Procedure

1. Click Groups (page 483) in the classic view (page 610) or Processes (page 494) in the default view (page 610).
2. Select a process model. You are offered the fact sheets of the process model.
3. Click the **Steps** fact sheet. The first event of the process is shown at the top. It does not have a predecessor, therefore, no object is placed in this field. Below, the event's successor is output. To the right, the attributes are shown.
4. Click the successor. The event as a predecessor is moved to the field above, the succeeding object is placed in the middle, and its successors are visible in the lower field. The attributes of this object are now visible.



If event and function precede or succeed each other, they are displayed together.

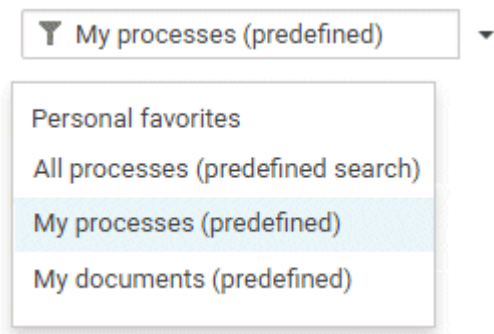
You navigate through a process step by step.

#### 4.1.2.7.4 Use the Favorites tab in the portal

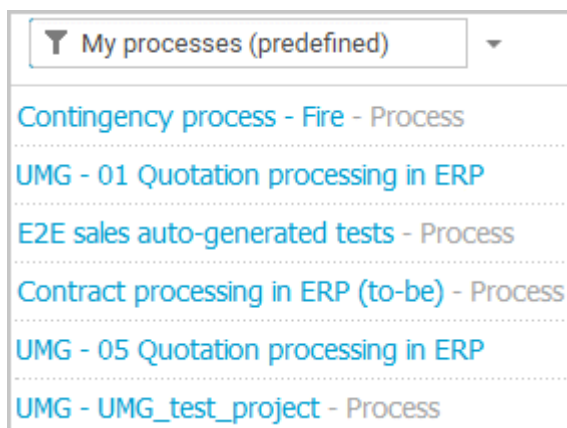
In the portal, you have direct access to all saved filter settings (page 578). The filters output the content of the selected database, while the personal favorites (page 577) of all published databases are listed and can be accessed.

##### Procedure

1. If you have access to more than one database, select the database you want to work with.
2. Click  **My favorites** in **Home** (page 482)
3. Click the  **down arrow** of the **Filter selection** field.



4. Click the context caption to select the relevant filter settings, e. g., **My processes (predefined)**. The content of the selected database is filtered.



If the filter result does not fit on one page, page numbers are displayed behind the **Filter selection** field.

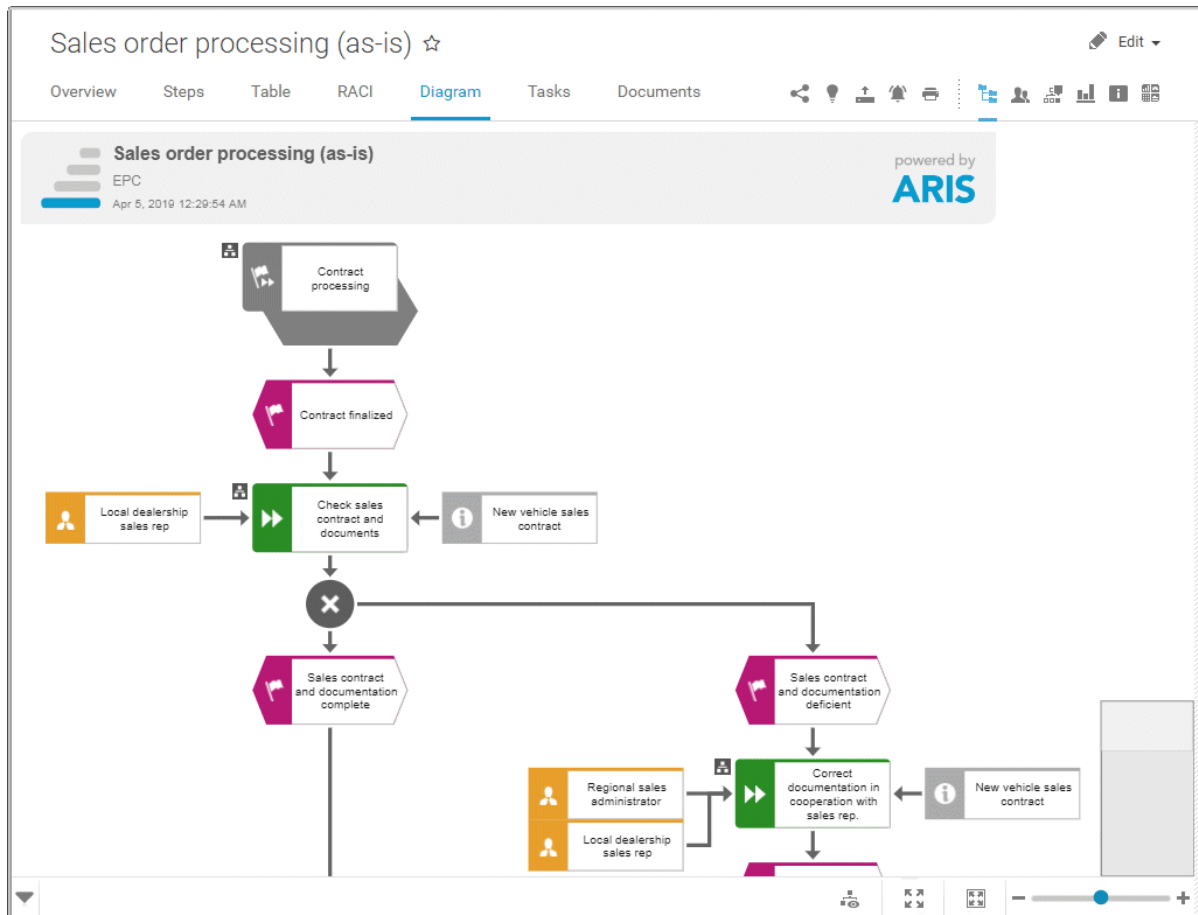
5. Click the page numbers to display the content of the corresponding pages.
6. Click the name of the item. The item opens.




You have filtered database content based on your filter setting and opened one of your favorites using the **Favorites** tab.

### 4.1.2.7.5 Switch from Steps to Diagram


For models of type **EPC** you can switch from the **Steps** fact sheet to the **Diagram** fact sheet where the current object symbol is selected.

Graphically displays the diagram in Model Viewer. Depending on the diagram type, different functions are available.



You can change the view of the diagram (page **Error! Bookmark not defined.**) () to show these aspects you want to focus on. Using the functions of the view bar you can change the size of appearance (page **Error! Bookmark not defined.**). Click **i Properties** to view the properties of a model or a model item. (page **Error! Bookmark not defined.**) You can highlight objects in the diagram (page **Error! Bookmark not defined.**) () that meet a defined condition. In addition, you can open assigned models (page **Error! Bookmark not defined.**) ().

#### Procedure

1. Click Groups (page 483) in the classic view (page 610) or Processes (page 494) in the default view (page 610).
2. Select the required model in the navigation. The fact sheets are shown.
3. Activate the **Steps** fact sheet and navigate to the relevant step.
4. Click  **Show in diagram** next to the step.

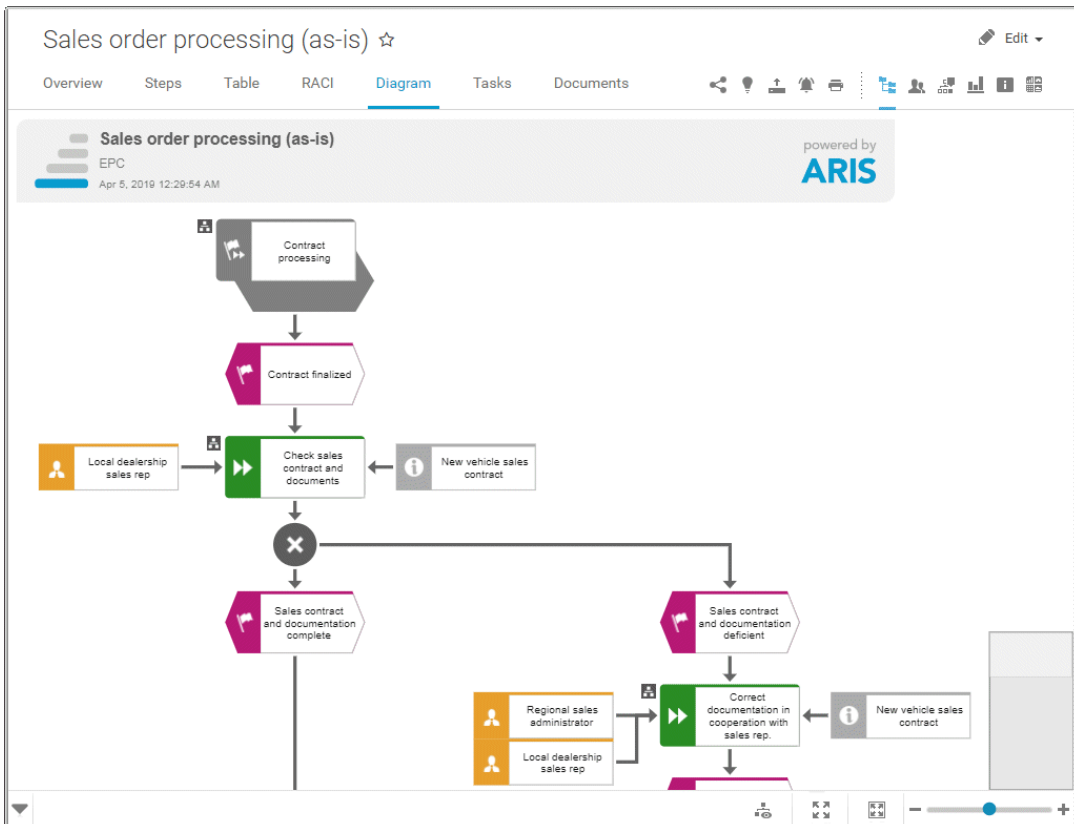






The **Diagram** fact sheet is opened and the object symbol of the current step is selected. To return to the **Steps** fact sheet, click **Steps**. If you have selected another object in the **Diagram** fact sheet, this object is marked in the **Steps** fact sheet.

### 4.1.2.7.6 Switch from Diagram to Steps

For models of type **EPC** you can switch from the **Diagram** fact sheet to the **Steps** fact sheet where the current object symbol is selected.

Graphically displays the diagram in Model Viewer. Depending on the diagram type, different functions are available.



You can change the view of the diagram (page **Error! Bookmark not defined.**) () to show these aspects you want to focus on. Using the functions of the view bar you can change the size of appearance (page **Error! Bookmark not defined.**). Click  **Properties** to view the properties of a model or a model item. (page **Error! Bookmark not defined.**) You can highlight objects in the diagram (page **Error! Bookmark not defined.**) () that meet a defined condition. In addition, you can open assigned models (page **Error! Bookmark not defined.**) ().

#### Procedure



1. Click Groups (page 483) in the classic view (page 610) or Processes (page 494) in the default view (page 610).
2. Select the required model in the navigation. The fact sheets are shown.
3. Activate the **Diagram** fact sheet.
4. Select the relevant object symbol.
5. Activate the **Steps** fact sheet.

The object you have selected in the **Diagram** fact sheet is marked in the **Steps** fact sheet.

### 4.1.2.7.7 Return to the top of the Steps fact sheet

For models of type **EPC** you can return quickly to the top of the **Steps** fact sheet.

#### Procedure

1. Click Groups (page 483) in the classic view (page 610) or Processes (page 494) in the default view (page 610).
2. Select the required model in the navigation. The fact sheets are shown.
3. Activate the **Steps** fact sheet and navigate to the relevant step. In the **Steps** fact sheet, at the top right the link  **Back to top** is shown.
4. Click  **Back to top**.

The top of the **Steps** fact sheet is shown.


## 4.1.2.8 Output information

Here are the different ways described to get information.

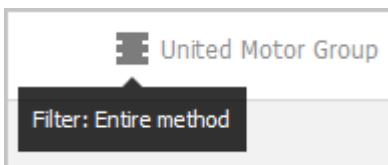
### 4.1.2.8.1 Display the current method filter

You can display the method filter that you use for the current database.

#### Procedure

1. Drag the mouse cursor over the database name located at the top right of the screen.
2. Leave the mouse cursor above the  database symbol for a short time.


The filter name is displayed:





### 4.1.2.8.2 Print the graphic of the current model

In the portal, you can print the graphic of the current model as PDF.

#### Procedure

1. Click Groups (page 483) in the classic view (page 610) or Processes (page 494) in the default view (page 610).
2. Select the required model in the navigation. The fact sheets are shown.
3. Click  **Print graphic as PDF**. The **Select output options** dialog opens.
4. Specify your settings.
5. Click **OK**. After report generation, the **Print graphic as PDF** dialog opens.
6. Click **Download result**. Using the following dialog, open the file in a PDF viewer or save it.




In the portal, you have printed the graphic of the current model as a PDF.

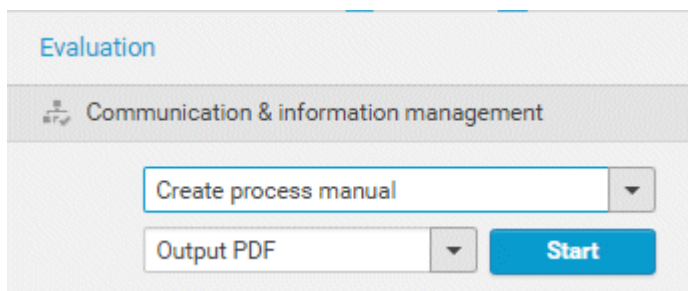
To the left of the user name, a  notification is inserted. Click the notification icon and  **Export graphic as PDF** to download the result again. The result is also listed on the **Evaluation** bar. If you select the **Diagram** fact sheet, you can open the **Evaluation** bar and download the printed model graphic as a PDF.

### 4.1.2.8.3 Generate report

The package includes various reports that you can start in the portal. Depending on the selected elements, reports are offered that provide a plausible evaluation for this context.

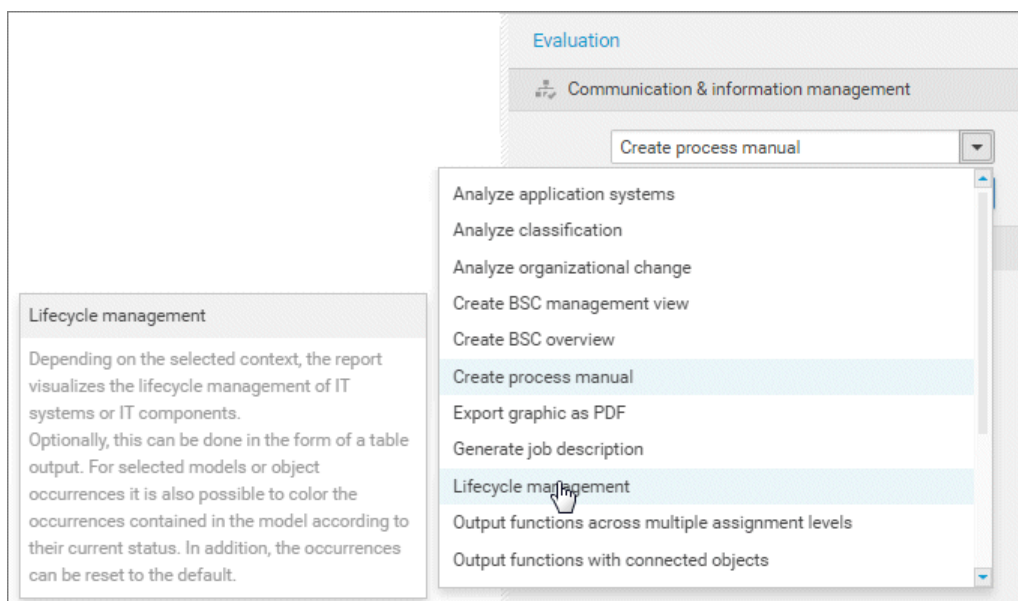
#### Procedure

1. Open ARIS Connect and log in with your user name and password.
2. Click  **Portal** if it is not activated yet.
3. Click Groups (page 483) in the classic view (page 610) or Processes (page 494) in the default view (page 610).
4. Click  **Navigation** if the navigation bar is not shown.
5. Click the model for which you want to create a report.
6. Click **Diagram** if not enabled yet. The model is displayed.
7. Click  **Evaluation**. The **Evaluation** bar opens showing the name of the item for which the report is generated.

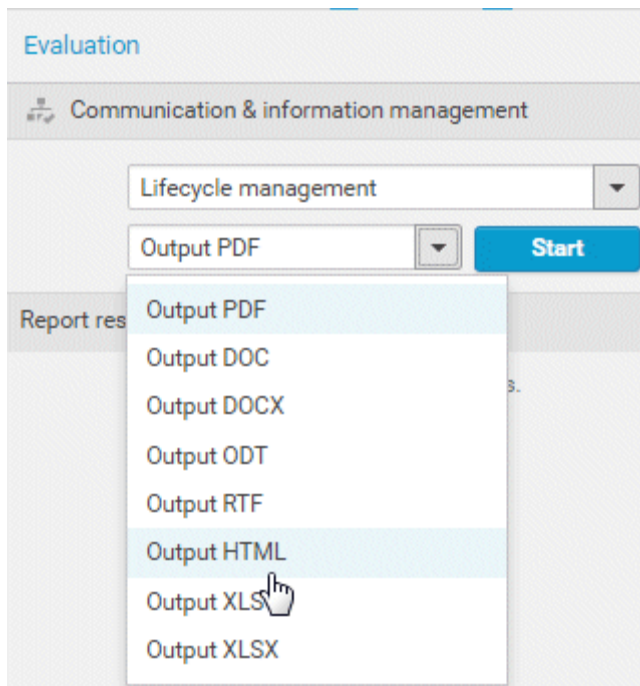


All reports you can start for this diagram are displayed.

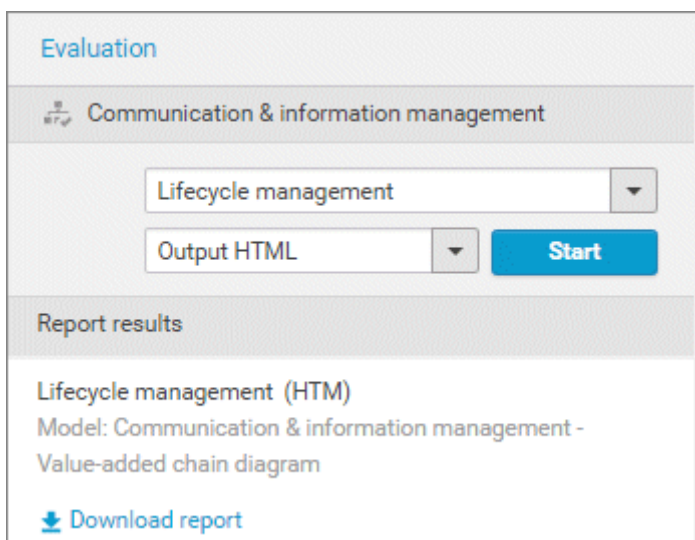
8. Click the ▼ down arrow next to the report name.
9. Select the relevant report.



10. Select the output format (page 640), e.g., **Output HTML**.



11. Click **Start**.
12. Depending on the report chosen, an options dialog is displayed. Specify your settings and click **OK**. The report is started and a progress bar is displayed.
13. After the report is complete, the report is shown in the **Report results** link list for downloading and a dialog opens.
14. Click **Download result** if you want to download the report immediately. You can choose whether to open or to save the report.
15. If you want to download the report result later, click the **Download report** link the **Report results** link list.




You have created a report. Only information you are authorized to view is included.

#### 4.1.2.8.4 Show where object occurrences are used


You can display where occurrences of an object are used and select the required occurrence using the navigation controls.

##### Procedure

1. Click  **Quick start (page 611) in Home** (page 482).

2. Click  **View models & documents**. Depending on the active configuration set, the navigation area opens, e. g. **Groups** or **Processes**.

Opens the Groups (page 483) structure in the **Classic** (page 610) view or Processes (page 494) structure in the **Default** (page 610) view, where you can browse the ARIS Connect content of the selected database.

1. Click the name of the model. The factsheet of the model opens.
2. Click **Diagram**. The **Diagram** fact sheet opens.
3. Select the required object in the **Diagram** fact sheet.
4. Click  **Properties**. The Properties bar opens.
5. Click **More**.
6. Click the **Related models** tab. The occurrences of the selected object are listed. If more than one occurrence exists in the current model, the number of the selected occurrence and the total number of occurrences are displayed next to the object name.
7. Click the left or right arrow to navigate to the next occurrence in the model. The next occurrence is selected and its number updated.
8. To directly select an occurrence, expand the drop-down list and click the occurrence number.
9. To open a model that contains an occurrence of the selected object, click the name of the model in the **In other diagrams** area. The model opens and the first occurrence of the object is selected. If there is no **Diagram** fact sheet for the occurrence, the first fact sheet tab is shown, e.g., **Overview**

In the **In other models** area, all models are displayed to which you have at least read access. You have switched between the occurrences of an object using the navigation controls.



### 4.1.2.8.5 Show dashboards

You can show dashboards for various items. The following example is based on predefined dashboards by default that are contained in the supplied **United Motor Group** database and the Classic view (page 481).

#### Prerequisite

Dashboards are configured for the items selected.

#### Procedure

1. In the Portal, select (page **Error! Bookmark not defined.**) the **United Motor Group** database.
2. Click **Groups**. The Group tree opens.
3. Click **2. Processes > 2.1 Process architecture >  Enterprise process map**. The **Overview** fact sheet of the **Enterprise process map** model opens and shows the CoE - Local Maturity (page 648) dashboard.
4. Click **2.1.1 Core processes > 2.1.1.1 Customer services > 2.1.1.1.1 Customer services process >  Customer services process**. The **Overview** fact sheet of the **Enterprise process map** model opens and shows the CoE - Local Maturity (page 648) dashboard.
5. Click the **Dashboards** fact sheet. The model's dashboards are shown. You can switch between the Process Change Management (page 653) and the Local Maturity (page 648) dashboards.

You have shown different dashboards by default.



### 4.1.2.8.6 Show dashboard in a sidebar

You can show the **EA dashboard for objectives** dashboard in a sidebar. The following example is based on predefined dashboards by default that are contained in the supplied **United Motor Group** database and the Classic view (page 481).

#### Prerequisite

Dashboards are configured for the items selected.

#### Procedure

1. In the Portal, select (page **Error! Bookmark not defined.**) the **United Motor Group** database.
2. Click **Groups**. The Group tree opens.
3. Click **1 Strategy > 1.1 Business strategy > 1.1.1 Strategies & Tactics >  01 Business strategies (all UMG segments)**. The **Diagram** fact sheet of the model opens.
4. Click  **Dashboards**.





The Dashboard sidebar opens and shows the EA dashboard for objectives (page 693) dashboards.



### 4.1.2.8.7 Generate report for multiple elements

You can generate reports for multiple elements at once. Depending on the selected elements, reports are offered that provide a plausible evaluation for this context.

#### Procedure





1. Click  **Repository**.
2. Navigate to the group where the content is stored you want to select.
3. Activate the check boxes of the relevant elements.
4. Click  **Evaluation**. The **Evaluation** bar opens.
5. Click the **Reports** tab. The number of item for which the report is generated is shown.
6. Click the drop-down list box to display the list of available reports.
7. Leave the mouse pointer on the name of a report if you want to display its description.
8. Click the name of the relevant report.
9. Click the **Start** button if you want to output the report in the displayed format (page 640). To select a different output format, click the **Output format** field and select the format you want to use, e. g. **Output PDF**.
10. Click the **Start** button. The report is created.
11. When the report is created the result is listed in the **Reports** tab and a dialog to download the result opens.
12. Click  **Download result**. Depending on your browser settings, you can specify the download folder or the result is downloaded in the default download folder.
13. To download the result later, click  **Download report** in the **Reports** tab.

You have created a report for multiple elements.

### 4.1.2.8.8 Run semantic check

You can run semantic checks for the open model or selected objects.

#### Procedure

1. Click  **Repository**.
2. Navigate to the group where the content is stored you want to select.
3. Activate the check boxes of the relevant elements.
4. Click  **Evaluation**. The **Evaluation** bar opens.
5. Click the **Semantic checks** tab.
6. Click the drop-down list box to display the list of available semantic checks.
7. Leave the mouse pointer on the name of a semantic check if you want to display its description.
8. Click the name of the relevant semantic check.
9. Click the **Start** button if you want to output the semantic check in the displayed format (page 640).  
To select a different output format, click the **Output format** field and select the format you want to use, e. g. **Output XLS**.
10. Click the **Start** button. The semantic check is performed.
11. If additional settings are required, dialogs are opened. Specify the settings. When the semantic check is created the result is listed in the **Semantic checks** tab and a dialog to download the result opens.
12. Click  **Download result**. Depending on your browser settings, you can specify the download folder or the result is downloaded in the default download folder.
13. To download the result later, click  **Download semantic check result** in the **Semantic checks** tab.

You performed the semantic check for the open model or for the selected objects.


## 4.1.2.9 Table

Here is the use of tables described.

### 4.1.2.9.1 Add a column to a table

You can add columns to a table. As long as you navigate in the fact sheet view added columns are displayed. All added columns will be removed automatically when you leave the fact sheet view, for example, when you select another model in the group structure.

#### Procedure


1. Click Groups (page 483) in the classic view (page 610) or Processes (page 494) in the default view (page 610).
2. Select the required model in the navigation. The fact sheets are shown.
3. Activate the **Table** fact sheet.
4. Click  **Add column**. The available columns are shown.
5. Click the column name of the column you want to insert.

You inserted a column.

### 4.1.2.9.2 Remove a column of a table

You can delete columns of a table that you have added before. As long as you navigate in the fact sheet view added columns are displayed. All added columns will be removed automatically when you leave the fact sheet view, for example, when you select another model in the group structure.

#### Procedure



1. Activate the **Table** fact sheet.
2. Move the mouse cursor over the column header of the column you want to remove.
3. Click  **Remove** behind the column title.

The column is removed without confirmation prompt.

### 4.1.2.9.3 Open the matrix of a table

You can open a matrix based on the **Table (page 615)** fact sheet to clearly display the interrelations between the individual roles and functions.


#### Procedure

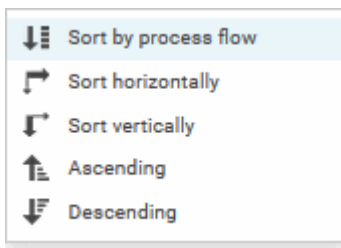
1. Click Groups (page 483) in the classic view (page 610) or Processes (page 494) in the default view (page 610).
  2. Select the required model in the navigation. The fact sheets are shown.
  3. Activate the **Table** fact sheet.
  4. Clicking  **Matrix**. The interrelations between the individual roles and functions are transparently displays.
  5. Click  **Add column** to extend the table. You can delete added columns at any time.
- You have opened a matrix based on the **Table** fact sheet.

### 4.1.2.9.4 Sort functions of fact sheets

You can sort the functions of fact sheets, e. g. of the Table (page 615) or RACI (page 617) fact sheet.

#### Procedure

1. Click Groups (page 483) in the classic view (page 610) or Processes (page 494) in the default view (page 610).
2. Select the required model in the navigation. The fact sheets are shown.
3. Activate the relevant fact sheet.
4. Click the column title  **Functions**. The sort options are displayed.



5. Click the relevant sort option. The functions are resorted.
- You have resorted the functions.

## 4.1.2.10 Process-Driven Management for SAP® Solutions

You select Process Driven Management for SAP® Solutions in the Perspective Wizard.

You can refine and evaluate your business processes in ARIS. This enables you to optimize your business processes.

You need to configure the system depending on the SAP Solution Manager® version in use. Please refer to chapters:

- Using SAP Solution Manager 7.2
- Using SAP Solution Manager 7.1
- Version independent configuration and handling.





### 4.1.2.10.1 Run SAP® transaction


Run transactions in the connected SAP system.

#### Prerequisite

- You have at least the **ARIS Connect Viewer** license privilege.
- You are using Process-driven Management for SAP.
- Your administrator has configured the portal for the use of SAP content (page 291).

#### Procedure

1. Open ARIS Connect and log in with your user name and password.
2. Click  **Portal** if it is not activated yet.
3. Click Groups (page 483) in the classic view (page 610) or Processes (page 494) in the default view (page 610).
4. Click  **Navigation** if the navigation bar is not shown.
5. Navigate to the relevant model of the EPC type, where transactions are available.
6. Click **Transactions**. You can start the  transaction automatically via the default server in each row displaying a transaction code. Click the  arrow head to display all registered SAP Servers. The default server selected is indicated by a check mark.
7. Run the transaction. The **SAP logon** dialog opens.
8. Enter the number of the SAP client and the user name, and click **OK**. Depending on your browser settings, the **Run SAP transaction** dialog opens.
9. Enter the password and click **Log on**.

The transaction is run in the current language. The logon remains active until you log out of the portal, enter different logon data, or close the SAP system. To delete the current SAP logon data, click the  arrow head and then **Reset logon data**. For the next transaction start you need to log on to the SAP system again.



### 4.1.2.10.2 Reset SAP® logon data

Change the logon information for running transactions.

#### Prerequisite

- You have at least the **ARIS Connect Viewer** license privilege.
- You are using Process-driven Management for SAP.
- This function has been configured in the portal.

#### Procedure

1. Open ARIS Connect and log in with your user name and password.
2. Click  **Portal** if it is not activated yet.
3. Click Groups (page 483) in the classic view (page 610) or Processes (page 494) in the default view (page 610).
4. Click  **Navigation** if the navigation bar is not shown.
5. Open the relevant model.
6. Click **Transactions**.
7. In the last column of a transaction code, click the ▼ arrow head and then **Reset logon data**.

For the next transaction start (page 548) you need to log on to the SAP system again.




### 4.1.2.10.3 Download SAP® documents

You can download SAP documents that are associated with SAP transactions.

#### Prerequisite

- You have at least the **ARIS Connect Viewer** license privilege.
- You are using Process-driven Management for SAP.
- Documents are available.
- This function has been configured in the portal (page 291).

#### Procedure

1. Open ARIS Connect and log in with your user name and password.
2. Click  **Portal** if it is not activated yet.
3. Click Groups (page 483) in the classic view (page 610) or Processes (page 494) in the default view (page 610).
4. Click  **Navigation** if the navigation bar is not shown.
5. Open the relevant model.
6. Click **Transactions**.
7. Click the relevant transaction code. The fact sheet opens.
8. Next to the relevant document, click  **Download document**.

The document is downloaded.

## 4.1.2.10.4 Configure ARIS Online Guide

If the ARIS Online Guide is used for making documents that were created in the SAP® system specially for your business processes available across the company, configure your custom settings to call the ARIS Online Guide.

### Prerequisite

ARIS and the SAP® system have been configured for using the ARIS Online Guide.

### Procedure

1. Log on to the SAP system.
2. Start the **/n/IDS/AOG\_USER** transaction. The **ARIS Online Guide - User-specific settings** dialog opens.
3. Enable the **Use ARIS Online Guide** check box.
4. Select the **Connect** option to display the ARIS Online Guide in the portal in ARIS Connect.
5. If you also want to use the F1 help from the SAP system in addition to the ARIS Online Guide, enable the **Also show default help** check box.
6. Enter the required connection data for ARIS Server and tenant on which the database was published as a portal. You administrator might already have specified default entries that you do not need to edit.

#### Base URL for Connect

URL for the relevant ARIS Server:

http://<server name>

#### Tenant

Tenant that manages the database published as a portal.

7. Save your changes.

The settings have been applied.

If you changed the default values set by your administrator and want to restore them, click **Restore defaults**.

### 4.1.2.10.5 Start ARIS Online Guide

If your administrator has provided (page 291) ARIS Online Guide via ARIS Connect, you can open the relevant portal pages from SAP screens using the F1 key. All transactions are shown there in relation to the process. Details are summarized in corresponding fact sheets.

#### Prerequisites

- This function has been configured in the portal (page 291).
- You have configured the help call (page 550).

#### Procedure

Press the F1 key in the open screen. The corresponding portal page opens (link syntax: `http://<server name:port>/?tcode=<transaction code>#<tenant>/onlineguide`)

All information pertaining to this transaction is available on the open page.



### 4.1.3 Use filters


You can define content filters (page 552) to restrict the content in the portal, so that only the content is displayed you want to focus on.

Content filters are available only if roles are assigned (page 554) to your user in models and the portal has been configured for the use of role filters.

#### 4.1.3.1 Open My content to manage filters

In the **My content** (page 623) area you can manage your filters.

##### Procedure

1. Start ARIS Connect.
2. Click **Home** >  **My content**.

The **My content** area opens and you can manage your filters.

#### 4.1.3.2 Add filters

You can add individual filters to the **Selected filters** section thus they become active.

##### Procedure

1. In the **Add filters** section, move the mouse pointer over the name of the relevant filter.  
Behind the name, a plus sign is shown.
2. Click the **+** plus sign.

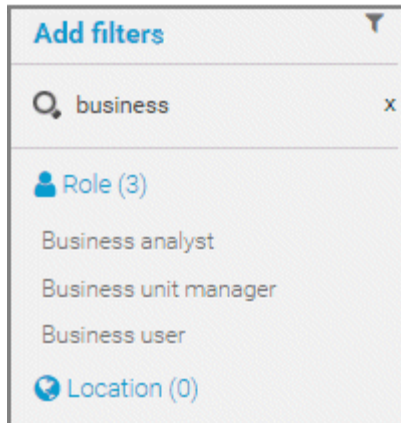
The filter is moved from the category of the **Add filters** section to the appropriate category of the **Selected filters** section and the content of the result pane is adjusted.

### 4.1.3.3 Add a number of filters

You can number of filters to the **Selected filters** section using the find functionality.

#### Procedure

1. In the **Add filters** section, click the **Find filter** field.
2. Enter a part of the name of the filters you want to add, e. g. **Business**. The found filters are shown under the appropriate category. The number of filters found is displayed behind the category name.



3. Behind **Add filters**, click **Add all** to move all filters found from the **Add filters** section to the appropriate category of the **Selected filters** section.

The filters are moved and the content of the result pane is adjusted.







### 4.1.3.4 Assign roles for the use of content filters

You can define content filters (page 625) via role assignment. In this case these filters are added to the role filters under **Selected filters** of the **My content** (page 623) area.

#### Prerequisites

- You have the **User administrator** function privilege.
- You have the **ARIS Connect Designer** license privilege.

#### Procedure

1. Click  **Portal**.
2. Click Groups (page 483) in the classic view (page 610) or Processes (page 494) in the default view (page 610).
3. In the navigation, select a diagram containing an occurrence of the relevant role, e.g., **Regional sales department specialist**. The fact sheets are shown.
4. Click  **Edit** >  **Edit model**. The model opens in Model Editor on a separate tab for editing.
5. Select the relevant **Role** type object in the model.
6. Click  **Properties**. The Properties bar opens.
7. Click the **Attributes** tab if it is not activated yet.
8. Add (page 751) the **User/User group association** attribute if it is not displayed.
9. Move the mouse pointer to the **User/User group association** attribute.
10. Click  **Select user**. The **Select user(s)/user group(s)** dialog opens.
11. Enter the user name in the  **Filter** box.
12. Enable the check box for the user, and click **OK**.
13. Save the changes and close the diagram.


The role has been assigned to the user.

If this user activates (page 555) the content filters, information is restricted (page 625) according to the the role.

### 4.1.3.5 Activate content filter using the My content area

You can determine that the role filter is used to filter your access to the portal's content.

#### Procedure

1. Click **Home** >  **My content**.
2. Check if the current filter setting is appropriate. If not, add an individual filter (page 552), add a number of filters (page 553), remove filters (page 556), or reset filter (page 556).
3. Turn the content filter switch on.



The filter is applied to the portal content. In front of your user name a symbol indicates the activated content filter.




### 4.1.3.6 Activate content filters using the button

You can turn on the content filters using the **Content filters** symbol.

#### Procedure

1. In front of your user name, click  **Content filters**. The **Content filters** pop-up opens.
2. Click **On**.



The content filters is applied and the portal content restricted. A  red symbol in front of your user name indicates the activated content filter.


### 4.1.3.7 Deactivate content filters

You can turn off the content filters using the **Content filters** symbol.


#### Procedure

1. In front of your user name, click  **Content filters**. The **Content filters** pop-up opens.
2. Click **Off**.



The content filters are removed and the portal content is not restricted anymore. A  blue symbol in front of your user name indicates the deactivated content filters.

### 4.1.3.8 Reset filter

You can reset the filters. The added filters are removed and only the content filters assigned via role stay active. The  **Reset filters** button is only displayed if you are logged in as user to whom a content filter is assigned via roles (page 554).

#### Procedure


Behind **Selected filters**, click  **Reset filters**.

All filters except the filters assigned by role assignment are removed and the content of the result pane is adjusted.

### 4.1.3.9 Remove selected filters

You can remove selected filters to remove its restrictions.

#### Procedure

1. In the **Selected filters** section, move the mouse pointer over the name of the relevant filter. Behind the name, a cross sign is shown.
2. Click the  cross sign.

The filter is removed from the category of the **Selected filters** section to the appropriate category of the **Add filters** section. The content the filter avoided is displayed and the content of the result pane is adjusted.

### 4.1.3.10 Remove all filters

You can remove all filters from the **Selected filters** section, the added filters as well as the filters assigned by role assignment (page 554).

#### Procedure

Behind **Selected filters**, click  **Remove all**.



All filters including the filters assigned by role assignment are removed and the content of the result pane is adjusted.

## 4.1.4 Use models

### 4.1.4.1 Open assignment

In Model Viewer, you can quickly open models assigned to objects. Assigned diagrams contain detailed information on the object that the diagrams are assigned to, for example.

#### Procedure

1. Click Groups (page 483) in the classic view (page 610) or Processes (page 494) in the default view (page 610).
2. Select the required model in the navigation. The fact sheets are shown.
3. Activate the **Diagram** fact sheet. The model as well as all objects with assigned models are displayed in the Model Viewer.
4. Click the relevant  assignment icon, or double-click the object at which the relevant  assignment icon is shown.

If only one diagram is assigned, that model opens directly. If more than one model is assigned, all assigned model are offered for selection in a dialog.

### 4.1.4.2 Open placed link attributes

In Model Viewer, you can open placed link attributes.

#### Procedure

1. Click Groups (page 483) in the classic view (page 610) or Processes (page 494) in the default view (page 610).
2. Select the required model in the navigation. The fact sheets are shown.
3. Click **Diagram** if you have not already selected this fact sheet before. The diagram as well as all placed link attributes are displayed in the Model Viewer.





4. Click the relevant link attribute.

The link opens. This is how you can easily open a text document or a new e-mail with the e-mail recipient entered, for example.

### 4.1.4.3 Return to the top of the Steps fact sheet

For models of type **EPC** you can return quickly to the top of the **Steps** fact sheet.

#### Procedure


1. Click Groups (page 483) in the classic view (page 610) or Processes (page 494) in the default view (page 610).
2. Select the required model in the navigation. The fact sheets are shown.
3. Activate the **Steps** fact sheet and navigate to the relevant step. In the **Steps** fact sheet, at the top right the link  **Back to top** is shown.
4. Click  **Back to top**.

The top of the **Steps** fact sheet is shown.

### 4.1.4.4 Switch from Steps to Diagram

For models of type **EPC** you can switch from the **Steps** fact sheet to the **Diagram** fact sheet where the current object symbol is selected.

#### Procedure

1. Click Groups (page 483) in the classic view (page 610) or Processes (page 494) in the default view (page 610).
2. Select the required model in the navigation. The fact sheets are shown.
3. Activate the **Steps** fact sheet and navigate to the relevant step.
4. Click  **Show in diagram** next to the step.

The **Diagram** fact sheet is opened and the object symbol of the current step is selected. To return to the **Steps** fact sheet, click **Steps**. If you have selected another object in the **Diagram** fact sheet, this object is marked in the **Steps** fact sheet.

### 4.1.4.5 Switch from Diagram to Steps

For models of type **EPC** you can switch from the **Diagram** fact sheet to the **Steps** fact sheet where the current object symbol is selected.

#### Procedure


1. Click Groups (page 483) in the classic view (page 610) or Processes (page 494) in the default view (page 610).
2. Select the required model in the navigation. The fact sheets are shown.
3. Activate the **Diagram** fact sheet.
4. Select the relevant object symbol.
5. Activate the **Steps** fact sheet.

The object you have selected in the **Diagram** fact sheet is marked in the **Steps** fact sheet.



### 4.1.4.6 Print the graphic of the current model

In the portal, you can print the graphic of the current model as PDF.

#### Procedure

1. Click Groups (page 483) in the classic view (page 610) or Processes (page 494) in the default view (page 610).
2. Select the required model in the navigation. The fact sheets are shown.
3. Click  **Print graphic as PDF**. The **Select output options** dialog opens.
4. Specify your settings.
5. Click **OK**. After report generation, the **Print graphic as PDF** dialog opens.
6. Click **Download result**. Using the following dialog, open the file in a PDF viewer or save it.

In the portal, you have printed the graphic of the current model as a PDF.

To the left of the user name, a  notification is inserted. Click the notification icon and  **Export graphic as PDF** to download the result again. The result is also listed on the **Evaluation** bar. If you select the **Diagram** fact sheet, you can open the **Evaluation** bar and download the printed model graphic as a PDF.









### 4.1.4.7 Ask for model approval

Ask the person in charge to approve the models you changed so that the changed models can be made available to all users.

#### Prerequisite

- You have at least the **ARIS Connect Viewer** license privilege.
- When using Microsoft® Internet Explorer version 8, the compatibility mode must be disabled.

#### Procedure

1. Open ARIS Connect and log in with your user name and password.
2. Click  **Portal** if it is not activated yet.
3. Click Groups (page 483) in the classic view (page 610) or Processes (page 494) in the default view (page 610).
4. Click  **Navigation** if the navigation bar is not shown.
5. Click the name of the model you want to edit.
6. Click  **Edit** >  **Edit model**. The model opens in the Model Editor on an individual tab.
7. Make the required changes.
8. Click  **Comment** if it is not activated yet.
9. Click  **Request approval**. The **Confirmation** dialog opens for you to confirm that the model changes are to be saved and the model is to be reopened read-only.
10. Click **OK**. The model reopens read-only and the **Request approval** dialog is displayed.
11. If required, select a person in charge to approve the model if the **Person responsible** attribute has not been specified at the model.
12. Enter a comment to explain the approval request.
13. Click **Send**. A completion message is displayed.
14. Click **OK**.

The person responsible receives an e-mail with the relevant information and a link to the associated task in ARIS Process Board. If the person responsible approves the changes, the model is automatically published and the current version is provided.

Until then, only you and other modelers can view your changes.

All users can select the language to be used for the notification in their profile in ARIS Connect.

This workflow is a part of ARIS Connect. It can be customized, if required. For example, you can change e-mail texts, add notifications, make changes to dialogs, etc. The integration of complex workflows (standard RCM, change management, etc.) requires the **ARIS Design Server** license or **ARIS Connect** Server extension pack: **Process Governance**.




### 4.1.4.8 Share model

You can share models with other users.

#### Prerequisite

- You have at least the **ARIS Connect Viewer** license privilege.
- When using Microsoft® Internet Explorer version 8, the compatibility mode must be disabled.

#### Procedure

1. Open ARIS Connect and log in with your user name and password.
2. Click  **Portal** if it is not activated yet.
3. Click Groups (page 483) in the classic view (page 610) or Processes (page 494) in the default view (page 610).
4. Click  **Navigation** if the navigation bar is not shown.
5. Click the model you want to send to another user.
6. Click  **Share model**. The dialog opens.
7. Select the user you want to share the model with.
8. Enable **Send copy to me** to receive a copy of the message, if required.
9. You can also enter a subject and a comment.
10. Click **Send**.

The selected user receives an e-mail containing the information you entered and a link to the corresponding model.

All users can select the language to be used for the notification in their profile in ARIS Connect. This workflow is a part of ARIS Connect. It can be customized, if required. For example, you can change e-mail texts, add notifications, make changes to dialogs, etc. The integration of complex workflows (standard RCM, change management, etc.) requires the **ARIS Design Server** license or **ARIS Connect** Server extension pack: **Process Governance**.




### 4.1.4.9 Inform owner of change

You can inform the model owner of model changes you have made in the portal (page 581). The process owner is automatically determined by the attribute **Person responsible**.

#### Prerequisite

- You have the **ARIS Connect Viewer** and **Contribution** license privileges, or the **ARIS Connect Designer** license privilege.
- When using Microsoft® Internet Explorer version 8, the compatibility mode must be disabled.

#### Procedure

1. Open ARIS Connect and log in with your user name and password.
2. Click  **Portal** if it is not activated yet.
3. Click Groups (page 483) in the classic view (page 610) or Processes (page 494) in the default view (page 610).
4. Click  **Navigation** if the navigation bar is not shown.
5. Navigate to the items and change the relevant attributes (page 581). Depending on the attributes, various editing options (page 590) are available.
6. Click  **Inform owner of change**. The **Inform of change** dialog opens.
7. Insert a change description
8. Click **Submit**. The **Information** dialog opens.
9. Enable the **Do not show this message again** check box if you do not want to be informed again by the dialog when executing the mini workflow more than once during the current session.
10. Click **OK**.




The process owner receives an e-mail containing the information you entered. If he submits the human task, you will be informed via e-mail.

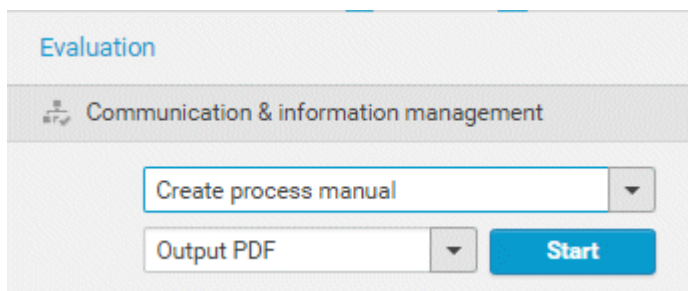
This workflow is a part of ARIS Connect. It can be customized, if required. For example, you can change e-mail texts, add notifications, make changes to dialogs, etc. The integration of complex workflows (standard RCM, change management, etc.) requires the **ARIS Design Server** license or **ARIS Connect** Server extension pack: **Process Governance**.

### 4.1.4.10 Generate report

The package includes various reports that you can start in the portal. Depending on the selected elements, reports are offered that provide a plausible evaluation for this context.

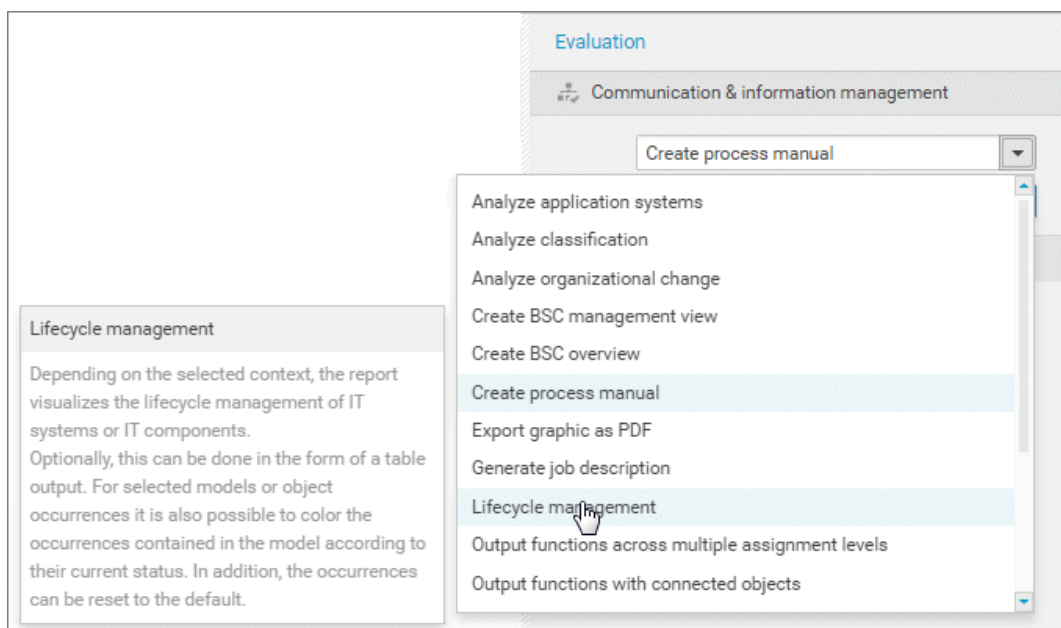
#### Procedure

1. Open ARIS Connect and log in with your user name and password.
2. Click  **Portal** if it is not activated yet.
3. Click Groups (page 483) in the classic view (page 610) or Processes (page 494) in the default view (page 610).
4. Click  **Navigation** if the navigation bar is not shown.
5. Click the model for which you want to create a report.
6. Click **Diagram** if not enabled yet. The model is displayed.
7. Click  **Evaluation**. The **Evaluation** bar opens showing the name of the item for which the report is generated.

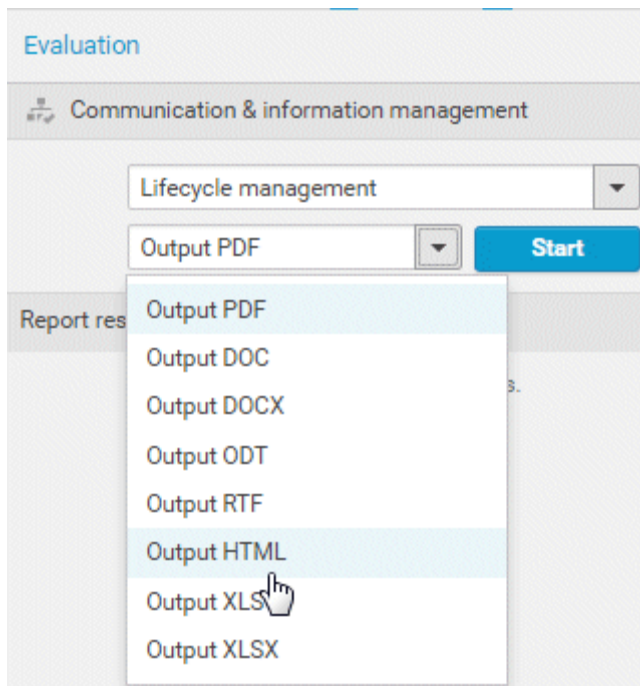


All reports you can start for this diagram are displayed.

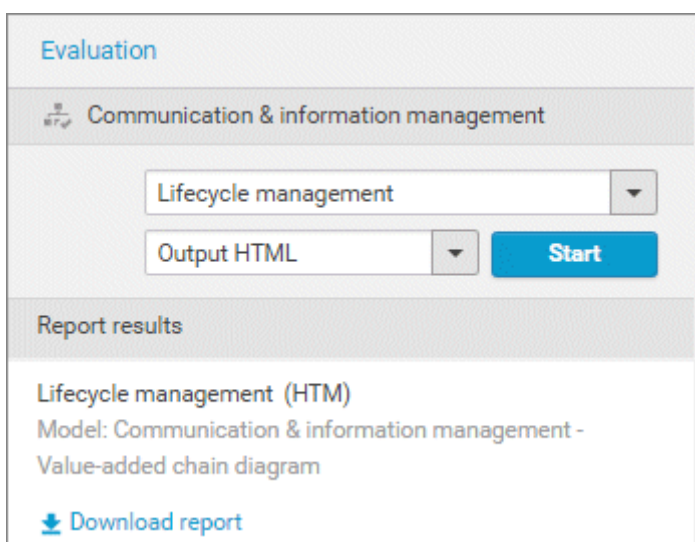
8. Click the ▼ down arrow next to the report name.
9. Select the relevant report.



10. Select the output format (page 640), e.g., **Output HTML**.



11. Click **Start**.
12. Depending on the report chosen, an options dialog is displayed. Specify your settings and click **OK**. The report is started and a progress bar is displayed.
13. After the report is complete, the report is shown in the **Report results** link list for downloading and a dialog opens.
14. Click **Download result** if you want to download the report immediately. You can choose whether to open or to save the report.
15. If you want to download the report result later, click the **Download report** link the **Report results** link list.



You have created a report. Only information you are authorized to view is included.



### 4.1.4.11 Create model

You can quickly and easily create new models.

#### Prerequisites

- You have the **ARIS Connect Designer** license privilege.
- The classic configuration set or modification set (page 297) based on it is selected for the portal.
- The relevant model type must be included in the database filter. If this is not the case, the portal page is displayed again after the **Create model** dialog closes.

#### Procedure

1. Open ARIS Connect and log in with your user name and password.
2. Click  **Portal** if it is not activated yet.
3. Click  **Create new model** on the **Quick start (page 611)** area. The dialog opens.
4. Enter a name for the new model in the **Model name** box.
5. Click the **Model type** box and enter part of the model type name. All model types (page 814) are displayed whose names contain the term you entered.
6. Select the required model type. The **Target** area displays the database and group names. This is where the new model will be stored.
7. Click **Change** if you want to store the model in a different database and/or group. The **Select target group** dialog opens.
8. Select the required database in the **Database** box.
9. Select the required group.
10. Click **OK**. The **Select target group** dialog closes.
11. Check your input.
12. Click **OK**. The **Create model** dialog closes.

The model is created and opens in a new tab (page 741).






## 4.1.4.12 Edit models

You can edit models in ARIS Connect.

### Prerequisite

- You have the **ARIS Connect Designer** privilege.
- When using Microsoft® Internet Explorer version 8, the compatibility mode must be disabled.

### Procedure

1. Open ARIS Connect and log in with your user name and password.
2. Click  **Portal** if it is not activated yet.
3. Click Groups (page 483) in the classic view (page 610) or Processes (page 494) in the default view (page 610).
4. Click  **Navigation** if the navigation bar is not shown.
5. Click the name of the model you want to edit.
6. Click  **Edit** >  **Edit model**. The model opens in the Model Editor on an individual tab.
7. Make the required changes.
8. Click  **Save**.

Your changes are saved in the model.

All users can select the language to be used for the notification in their profile in ARIS Connect. This workflow is a part of ARIS Connect. It can be customized, if required. For example, you can change e-mail texts, add notifications, make changes to dialogs, etc. The integration of complex workflows (standard RCM, change management, etc.) requires the **ARIS Design Server** license or **ARIS Connect** Server extension pack: **Process Governance**.

### 4.1.4.13 Use matrix models

You can display a matrix model in ARIS Connect.


#### 4.1.4.13.1 Open a matrix model in ARIS Connect

You can display a matrix model in ARIS Connect.

##### Prerequisite

You have a valid license for either Designer or ARIS Architect.

##### Procedure

1. Open ARIS Connect and log in with your user name and password.
2. Click  **Portal** if it is not activated yet.
3. Click **Groups**.
4. Navigate to the group containing the relevant model.
5. Click the matrix model.
6. Click **Matrix** to display the matrix model.

The matrix model is displayed.

#### 4.1.4.13.2 Display use of connections for a matrix model in ARIS Connect

You can obtain information about the connections used in a matrix model.

##### Procedure

1. Open a matrix model in ARIS Connect. (page 567)
2. Place the mouse cursor over a connection cell.

The list of connections used in the matrix model is displayed as a tooltip.



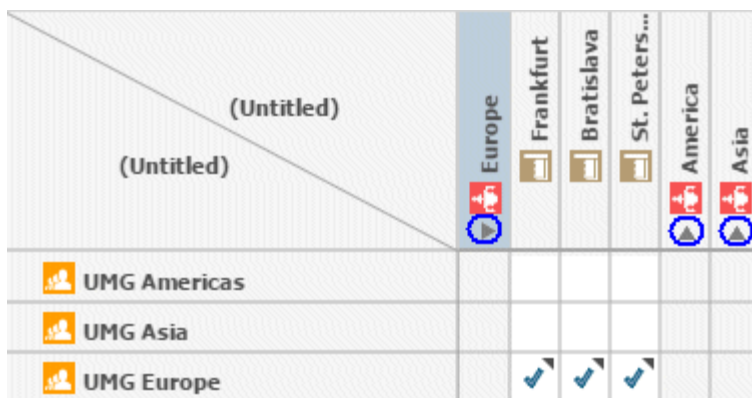
### 4.1.4.13.3 Show/Hide hierarchies in a matrix model in ARIS Connect

You can show or hide hierarchies in a matrix model.

#### Procedure

1. Open a matrix model in ARIS Connect. (page 567)
2. Click the little arrow to expand or collapse the hierarchy. The hierarchy is shown or hidden accordingly.

The hierarchy is shown/hidden.



### 4.1.4.13.4 How are connections displayed?

In general, check marks indicate existing connections between objects in the matrix model. An asterisk indicates that there is more than one connection between two objects. The following display options are also available:

#### Indication of the direction of the connection

In the matrix model, a small arrow indicates the direction of a connection.

	Indicates the direction from an icon placed in the column header to an icon placed in the row header.
	Indicates the direction from an icon placed in the row header to an icon placed in the column header.

#### Indication of abbreviations

If an abbreviation is defined in Designer or ARIS Architect, this abbreviation is displayed instead of the check mark.

## 4.1.5 Highlight model elements

You can highlight model elements to focus on aspects to be monitored.


### 4.1.5.1 Switch highlighting on

You can highlight model elements to focus on aspects to be monitored. This example illustrates highlighting of a process model in the default view (page 492).

#### Prerequisites

The highlighting is configured for the model you have selected.

#### Procedure

1. Click Groups (page 483) in the classic view (page 610) or Processes (page 494) in the default view (page 610).
2. Select the required model in the navigation. The fact sheets are shown.
3. Activate the **Diagram** fact sheet. The model is displayed.
4. Click  **Highlighting**. The **Highlighting** bar is opened. There are various criteria with criterion indicators sorted in different categories.
5. Click **On** in the **Highlighting** bar.
6. Open the relevant category and activate the check boxes of the criteria you want to be highlighted. To highlight all criteria of a category, activate the category check box.

The model elements that meet the selected highlighting criteria are colored and marked by the criterion indicator. The highlighting of process models remains active until you change the view or switch the highlighting off (page 569).


### 4.1.5.2 Switch highlighting off

If you have switched highlighting on (page 569), it remains active for as long as you stay in the view or until you switch highlighting off.

#### Prerequisites

The highlighting is configured for the model you have selected.

#### Procedure

1. Click Groups (page 483) in the classic view (page 610) or Processes (page 494) in the default view (page 610).
2. Select the required model in the navigation. The fact sheets are shown.
3. Activate the **Diagram** fact sheet. The model is displayed.
4. Click  **Highlighting**. The **Highlighting** bar is opened.
5. Click **Off** in the **Highlighting** bar.

The coloring and marks of the model items are removed.

### 4.1.5.3 What is highlighting?

Highlighting is the visual emphasis of model content. If you have switched highlighting on (page 569), model items are colored and marked by criterion indicators based on the criteria you selected.



If you switched highlighting on, all highlighting categories such as **Function** and **Status (CMA)** are listed. You can expand the categories to show its criteria. Furthermore, you can activate the check box of every single criterion. To activate all criteria of a category, activate the check box of the category.

Every criterion has a criterion indicator that is shown in the model if the criterion is activated. Activities, e. g., have the criterion indicator **A**. In the **Highlighting** bar, the number of occurrences is displayed behind the criteria. In the image above, activities occur twice (criterion indicator **A**), objects with the Change Management status **Not assigned** (criterion indicator **N**) only once. Note that in the example above, two object symbols have the **N** criterion indicator, although **1** is shown for the **Not assigned** criterion. The reason for this is that these object symbols are occurrence copies of one and the same object.

If you have switched highlighting on, e. g., for processes, the highlighting remains active until you switch it off or you leave the view.

## 4.1.6 Handle documents

ARIS document storage enables you to manage and temporarily or permanently save documents. Access restriction on folder level is possible in ARIS document storage.


### 4.1.6.1 Propose a document to a model

You can submit new documents on ARIS Connect content that is evaluated by the person responsible for the content and that may be linked to the contents.

#### Prerequisite

- You have at least the **ARIS Connect Viewer** license.
- The **Person responsible** document attribute must be specified for the relevant document with a user name that exists in user management.
- The person responsible must have the **ARIS Connect Viewer** or **ARIS Connect Designer** license.

#### Procedure

1. Click a model.
2. Click  **Propose document**. The **Submit new document** dialog opens.
3. Select the documents you want to submit.
4. Click **Send**.

The person responsible for the contents receives the approval request by e-mail. They can approve the document. It is then linked to the model or object. If they do not approve it, no link is created. The applicant receives a corresponding e-mail.

This workflow is a part of ARIS Connect. It can be customized, if required. For example, you can change e-mail texts, add notifications, make changes to dialogs, etc. The integration of complex workflows (standard RCM, change management, etc.) requires the **ARIS Design Server** license or **ARIS Connect** Server extension pack: **Process Governance**.




### 4.1.6.2 Link new documents to a model or object

You can link new documents with a model or object.

#### Prerequisite

You have the ARIS Connect Designer license.

#### Procedure

1. Click Groups (page 483) in the classic view (page 610) or Processes (page 494) in the default view (page 610).
2. Click the name of the model you want to edit.
3. Click  **Edit** >  **Edit model**. The model opens in the Model Editor on an individual tab.
4. Click  **Properties**. The **Properties** bar opens.
5. Activate the **Documents** tab.

6. Click in the model background to add a document to the model or the relevant object to add a document to the object.
7. Click **+ Add document**. The dialog opens.
8. Navigate to the target folder.
9. Click **↑ Upload new document**. The **Select new document** dialog opens.
10. Click **Select file** and select a document.
11. Enter a title and, if required, specify further document properties.
12. Click **Upload**.
13. Select the relevant documents and click **OK**.

The documents are linked with the model or object.

### 4.1.6.3 Add existing documents to a model or object

You can link documents from ARIS document storage or a document management system with a model or object.

#### Prerequisite

You have the ARIS Connect Designer license.

#### Procedure

1. Click **☰ Portal** if it is not activated yet.
2. Navigate to a group and click a model.
3. Click **Diagram** if not enabled yet.
4. Click **✎ Edit > ↗ Edit model**. The model opens in the Model Editor on an individual tab.
5. Click **📄 Properties**.
6. Activate the **Documents** tab.
7. Click in the model background or an object.
8. Click **+ Add document**.
9. Click the folder containing the relevant documents.
10. Select the relevant documents and click **OK**.

The documents are linked with the model or object.






#### 4.1.6.4 Submit a change request for a document

You can send change requests for documents to the document manager for documents in ARIS Connect.

##### Prerequisite

You have the ARIS Connect Designer license.

##### Procedure

1. Open ARIS Connect and log in with your user name and password.
2. Click  **Portal** if it is not activated yet.
3. Open (page **Error! Bookmark not defined.**) the model that contains the document you want to submit a change request for.
4. Click **Diagram** if not enabled yet.
5. Click  **Edit** >  **Edit model**.
6. Click  **Properties**.
7. Activate the **Documents** tab.
8. Select the document for which you want to submit a change request.
9. Click  **Submit change request**. The dialog opens.
10. Enter a title and a description for your request.
11. Select the priority with which the request is to be handled.
12. Click **Send**.

You will automatically receive a confirmation notification.

The document manager receives the change request by e-mail with a link to the relevant document and a link to edit the associated task in ARIS Process Board.

Once the document manager has processed the request, the applicant receives a message by e-mail.

If the change request is accepted, the person who is to implement the changes receives an e-mail including a link to the associated task in ARIS Process Board and the information added. After processing and approval - or rejection -, the applicant receives an e-mail including the information that the change requests have been implemented - or rejected.

This workflow is a part of ARIS Connect. It can be customized, if required. For example, you can change e-mail texts, add notifications, make changes to dialogs, etc. The integration of complex workflows (standard RCM, change management, etc.) requires the **ARIS Design Server** license or **ARIS Connect** Server extension pack: **Process Governance**.




### 4.1.6.5 Have document approved

Ask the person in charge to approve the documents you changed so that the changed document can be made available to all users.

#### Prerequisite

You have the ARIS Connect Designer license.

#### Procedure

1. Open ARIS Connect and log in with your user name and password.
2. Click  **Portal** if it is not activated yet.
3. Open (page **Error! Bookmark not defined.**) the model that contains the document that you want to have approved.
4. Click  **Properties**.
5. Activate the **Documents** tab.
6. Select the relevant document.
7. Click  **Request approval**. The dialog opens.
8. Click **Send**.

The person responsible receives an e-mail with the relevant information and a link to the associated task in ARIS Process Board. If the person responsible approves the changes, the current version of the document is made available in ARIS Connect (status APPROVED). The document is visible in the portal on the **Documents** tab. If rejected, the document receives the status REJECTED.

This workflow is a part of ARIS Connect. It can be customized, if required. For example, you can change e-mail texts, add notifications, make changes to dialogs, etc. The integration of complex workflows (standard RCM, change management, etc.) requires the **ARIS Design Server** license or **ARIS Connect** Server extension pack: **Process Governance**.





### 4.1.6.6 Share document


You can share documents with other users.

#### Prerequisite

You have the ARIS Connect Designer license.

#### Procedure

1. Click  **Portal** if it is not activated yet.
2. Open (page **Error! Bookmark not defined.**) the model that contains the document you want to submit a change request for.
3. Click **Diagram** if not enabled yet.
4. Click  **Edit** >  **Edit model**.
5. Click  **Properties**.
6. Activate the **Documents** tab.

7. Select the document you want to share with another user.
8. Click  **Share document**. The dialog opens.
9. Select the user you want to share the document with.
10. Enable **Send copy to me** to receive a copy of the message, if required.
11. You can also enter a subject and a comment.
12. Click **Send**.

The selected user receives an e-mail containing the information you entered and a link to the corresponding document.

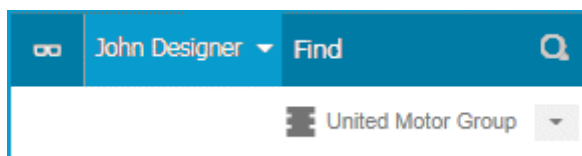
This workflow is a part of ARIS Connect. It can be customized, if required. For example, you can change e-mail texts, add notifications, make changes to dialogs, etc. The integration of complex workflows (standard RCM, change management, etc.) requires the **ARIS Design Server** license or **ARIS Connect** Server extension pack: **Process Governance**.

#### 4.1.6.7 Find a document

You can begin the search for items directly on the start page of ARIS Connect.

##### Procedure

1. If necessary, select the database (page **Error! Bookmark not defined.**) your search is to be based on.
2. Click in the **Find** box.



3. Enter the relevant term.  
A list with the first results (page **Error! Bookmark not defined.**) will be shown as you enter the term. As you complete the term, the list will be updated.
4. In the list, click the entry to which you want to navigate.  
The document will open.


#### 4.1.6.8 Remove document from a model or object

You can remove a document from a model or object.





##### Prerequisite

You have the ARIS Connect Designer license.

##### Procedure

1. Click  **Portal** if it is not activated yet.
2. Open (page **Error! Bookmark not defined.**) the model you want to remove the document from.



3. Click **Diagram** if not enabled yet.
4. Click  **Edit** >  **Edit model**.
5. Click  **Properties**.
6. Activate the **Documents** tab.
7. Click  **Remove selected document**.

The document is removed from the model or object and no longer has any relationship to the model or object.

## 4.1.7 Use favorites

Favorites enable you to quickly access database items you often need to work with.

You can save filter settings (page 578) and single database items as favorites (page 577). While you can define (page 578) and access the filter settings (Seite 578) in the Search area (page **Error! Bookmark not defined.**), you can access personal favorites and favorites based on filter settings in the Favorites area (page 579) of the portal.

### 4.1.7.1 Save a model or group as a personal favorite

You can save a model as a favorite to access it quickly from the **Favorites** tab of the portal.

#### Procedure

1. Navigate to the model or group that you want to save as a personal favorite.
2. Behind the model or group name, click ☆ **Save as a favorite**.

The star is colored (★) and the model or group is added to the **Personal favorites** list. The stars of models or groups that you saved as favorites remain colored until you remove them from the **Personal favorites** list (page 577). This means that the color of a star indicates whether or not a model or group was added to the **Favorites** list.

### 4.1.7.2 Remove a personal favorite

You can remove a personal favorite when it is no longer required.

#### Procedure

1. In the Portal, click **My Favorites**.
2. Click the ▼ **down arrow** of the **Filter selection** field.
3. Click **Personal favorites**.
4. Move the mouse pointer over the relevant model or group name.
5. At the end of the line for the model, click ★ **Remove favorite**.

The model or group is removed from the favorites list. Alternatively, you can click the colored star when you have navigated to the relevant item.

### 4.1.7.3 Save search settings as a favorite

In the Search area (page **Error! Bookmark not defined.**), you can save your search settings. Thus, you can search the content based on specific settings at any time.

#### Procedure

1. Select the filter criteria (page **Error! Bookmark not defined.**) to define your search.
2. Click ☆ **Save search query as favorites**. The dialog opens.
3. Enter a name.
4. Click **OK**.

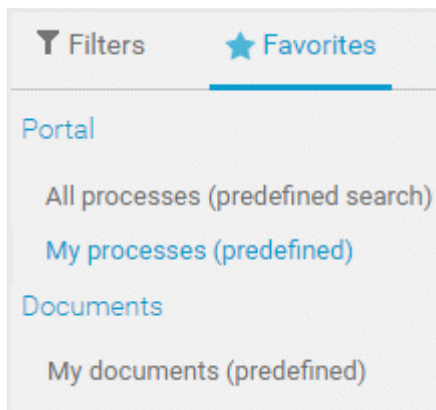
The search settings are saved in the **Favorites** area. You can filter the content based on these settings (Seite 578) at any time from various devices.

### 4.1.7.4 Use a favorite in the Search area

In the Search area (page **Error! Bookmark not defined.**), you can open a favorite setting to filter the content based on predefined filter criteria.

#### Procedure

1. Click **Favorites** in the **Filters** bar.



2. Click the favorite setting you want to use as the filter.

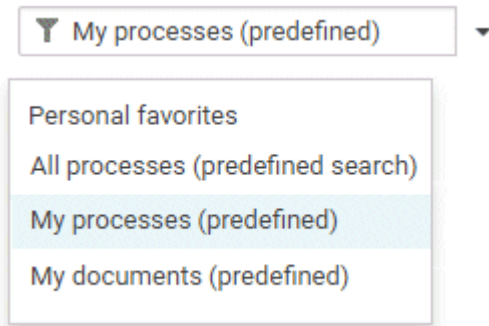
The filter criteria of the selected favorite setting are immediately applied and the list of filter results is updated.

### 4.1.7.5 Use a favorite in the Favorites area

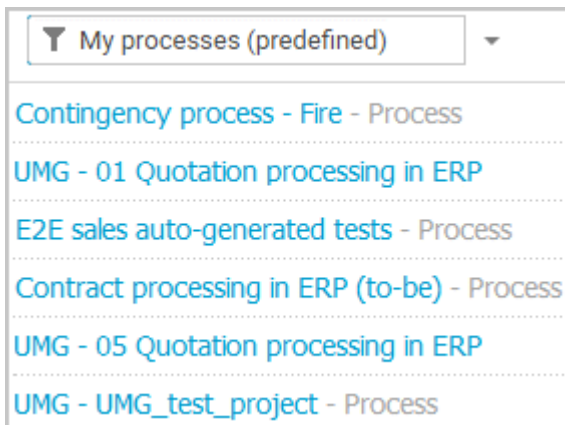
In the Favorites area (page 580), you can open a favorite setting to filter the content based on predefined filter criteria.

#### Procedure

1. In the Portal, click **My Favorites**.
2. Click the ▼ **down arrow** of the **Filter selection** field.



3. Click the context caption to select the relevant filter settings, e. g., **My processes (predefined)**. The content of the selected database is filtered.



If the filter result does not fit on one page, page numbers are displayed behind the **Filter selection** field.

4. Click the page numbers to display the content of the corresponding pages.
5. Click the name of the item. The item opens.

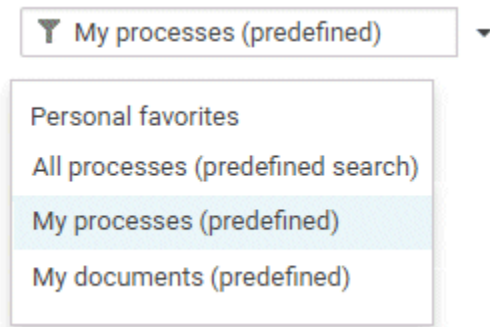
You have filtered database content based on your filter setting and opened one of your favorites using the **Favorites** tab.

## 4.1.7.6 Valuable information

This section provides background information to assist you in carrying out the relevant procedures.

### 4.1.7.6.1 How is the Favorites area structured?

The **Filter** area reflects the saved search context. The search contexts are structured by captions, e.g., **Portal** or **Documents**. The saved favorites are grouped under the captions. Thus, you are able to immediately recognize the search contexts of the favorites.



## 4.1.8 Contribute as a viewer

If you have both the **ARIS Connect Viewer** and **Contribution** license privilege, you can change values of specific items (page 587), create new or reuse existing items (page 582), as well as delete items (page 584) in the portal.

Please note that the description is based on the sample configuration supplied with the classic view of ARIS Connect. In your installation other items may have been configured to be editable and the editing options for items may be different.





### 4.1.8.1 Change values of items

You can change values of items (page 587) in the portal.

#### Prerequisites

- You have the **ARIS Connect Viewer** and **Contribution** license privileges, or the **ARIS Connect Designer** license privilege.
- The **Workspace** database content was published for versionable databases.
- You have at least the **Write** access privilege for the items you want to edit.

#### Procedure

1. Open ARIS Connect and log in with your user name and password.
2. Click  **Portal** if it is not activated yet.
3. Click Groups (page 483) in the classic view (page 610) or Processes (page 494) in the default view (page 610).
4. Click  **Navigation** if the navigation bar is not shown.
5. Click  **Edit** >  **Contribute**. The edit mode (page 586) is enabled.
6. Navigate to the group containing the relevant item.
7. Select the item you want to edit.
8. Activate the **Overview** fact sheet if it is not activated yet.
9. Change the relevant attribute. Depending on the attribute, various editing options (page 590) are available.
10. Confirm your changes.

Your changes are saved.

Text formatting is ignored and cannot be assigned. If you are expected to enter numbers, the field is colored red (page 590) if you do not enter a numerical value.

## 4.1.8.2 Create or reuse items in a table







In the portal, you can create new or reuse existing items.

The following description refers to items in a table (page 590). It uses the example of an object of the **Risk** type.

### Prerequisites

- You have the **ARIS Connect Viewer** and **Contribution** license privileges, or the **ARIS Connect Designer** license privilege.
- The **Workspace** database content was published for versionable databases.
- You have at least the **Write** access privilege for the items you want to edit.

### Procedure

1. Open ARIS Connect and log in with your user name and password.
2. Click  **Portal** if it is not activated yet.
3. Click Groups (page 483) in the classic view (page 610) or Processes (page 494) in the default view (page 610).
4. Click  **Navigation** if the navigation bar is not shown.
5. Click  **Edit** >  **Contribute**. The edit mode (page 586) is enabled.
6. Navigate to the required diagram and select it.
7. Click the object to which you want to assign additional roles. To add objects of the **Role** type to the **Groups** table, you can select a risk from the sample configuration supplied.
8. In the **Activities** area, click the  **plus sign**. The input box opens.
9. Enter the name of the role.  
If a role with the same name already exists, it is offered to you for selection. In addition, this name is listed with **(new item)** added to it.
10. To create a new role and assign the risk to it, click the entry with **(new item)** added to it.  
To reuse an existing role and assign the risk to it, click the other entry.
11. Click  **Change**. A completion message is displayed.

The new role was created (page 594) and added to the list, or the existing role will be reused. If you selected a role to which the risk was already assigned, no new entry is added to the table.

### 4.1.8.3 Create or reuse items in a list

In the portal, you can create new or reuse existing items.






The following description refers to items in a list (page 590). It uses the example of an application system type diagram.

Please note that new items you may have created are added to the diagram. At the same time, a new layout is automatically generated for the diagram. As a consequence, the arrangement of items in the diagram may differ from the original arrangement. If required, a user with the **ARIS Connect Designer** license privilege can adapt the layout of the diagram in Model Editor.

#### Prerequisites

- You have the **ARIS Connect Viewer** and **Contribution** license privileges, or the **ARIS Connect Designer** license privilege.
- The **Workspace** database content was published for versionable databases.
- You have at least the **Write** access privilege for the items you want to edit.

#### Procedure

1. Open ARIS Connect and log in with your user name and password.
2. Click  **Portal** if it is not activated yet.
3. Click Groups (page 483) in the classic view (page 610) or Processes (page 494) in the default view (page 610).
4. Click  **Navigation** if the navigation bar is not shown.
5. Click  **Edit** >  **Contribute**. The edit mode (page 586) is enabled.
6. Navigate to the required diagram and select it.  
To add objects of the **Application system type** type to the **Subordinate IT systems** area, you can select an application system type diagram from the sample configuration supplied, for example.
7. Activate the **Overview** fact sheet if it is not activated yet.
8. Click the **Subordinate IT systems** edit box. Existing objects are displayed one next to the other and the option **Insert item** is shown.
9. Enter the name of the required application system type.  
If an application system type with the same name already exists, it is offered to you for selection. In addition, this name is listed with **(new item)** added to it.
10. To create a new application system, click the entry with **(new item)** added to it.  
To reuse an existing application system type, click the other entry.
11. Enter other names for additional application system types.
12. Click  **Change**. A confirmation prompt is shown listing all new application system types for confirmation.
13. Click **OK**.

New application system types (page 594) are added to the list, or existing application system types will be reused. Occurrences of new application system types are placed in the diagram window.



#### 4.1.8.4 Delete items from tables






In the portal, you can delete items from tables.

The following description refers to items in a table (page 590). It uses the example of an object of the **Risk** type.

##### Prerequisites

- You have the **ARIS Connect Viewer** and **Contribution** license privileges, or the **ARIS Connect Designer** license privilege.
- The **Workspace** database content was published for versionable databases.
- You have at least the **Delete** access privilege for the items you want to delete.

##### Procedure

1. Open ARIS Connect and log in with your user name and password.
2. Click  **Portal** if it is not activated yet.
3. Click Groups (page 483) in the classic view (page 610) or Processes (page 494) in the default view (page 610).
4. Click  **Navigation** if the navigation bar is not shown.
5. Click  **Edit** >  **Contribute**. The edit mode (page 586) is enabled.
6. Navigate to the required diagram and select it.
7. Click the object whose associated item you want to delete. To delete objects of the **Role** type from the **Groups** table, you can select a risk from the sample configuration supplied.
8. In the **Groups** area, click  **Delete** for the role from which you want to remove the risk assignment. A confirmation prompt is shown.
9. Click **OK** to confirm the prompt if you really want to delete the assignment to the role.

The assignment to the role is then deleted. If the assignment was represented as a connection in diagrams, this connection will be deleted from these diagrams. Definitions are retained in the database.

### 4.1.8.5 Delete items from lists

In the portal, you can delete items from lists and thus from diagrams.

The following description refers to items in a list (page 590). It uses the example of an application system type diagram.






#### Prerequisites

- You have the **ARIS Connect Viewer** and **Contribution** license privileges, or the **ARIS Connect Designer** license privilege.
- The **Workspace** database content was published for versionable databases.
- You have at least the **Delete** access privilege for the items you want to delete.

#### Warning

Please note that the deletion of items affects the layout of diagrams. Due to the delete operation, a new layout is automatically generated for the current diagram. As a consequence, the arrangement of items in the diagram may differ from the original arrangement. If required, a user with the **ARIS Connect Designer** license privilege can adapt the layout of the diagram in Model Editor.

#### Procedure

1. Open ARIS Connect and log in with your user name and password.
2. Click  **Portal** if it is not activated yet.
3. Click Groups (page 483) in the classic view (page 610) or Processes (page 494) in the default view (page 610).
4. Click  **Navigation** if the navigation bar is not shown.
5. Click  **Edit** >  **Contribute**. The edit mode (page 586) is enabled.
6. Navigate to the required diagram and select it. To delete objects of the **Application system type** type from the **Subordinate IT systems** area, you can select an application system type diagram from the sample configuration supplied, for example.
7. Activate the **Overview** fact sheet if it is not activated yet.
8. Click the edit box in the **Subordinate IT systems** area. Existing objects are displayed one next to the other with a delete sign (x) added to them.
9. Click the delete sign for the application system types you want to delete from the diagram.
10. Click  **Change**. A confirmation prompt is displayed listing all application system types to be deleted.
11. Click **OK**.

The application system types are deleted from the list, and also from the application system type diagram together with their connections. Definitions are retained in the database.

## 4.1.8.6 Valuable information

This section provides background information to assist you in carrying out the relevant procedures.

### 4.1.8.6.1 Requirements for Contribution

For a user to be able to work with ARIS Viewer Contribution the following requirements must be met:

- The user has the **ARIS Connect Viewer** and **Contribution** license privileges.
- The **Workspace** database content was published for versionable databases.
- The user has at least the **Write** access privilege for the group content of the database to be edited. Deleting items requires the **Delete** access privilege.
- The administrator has activated the classic view (page 610), default view, or a view derived from these views.

### 4.1.8.6.2 How to identify whether the edit mode is active

The edit mode is displayed in the header. If it is not active, only the symbol and **Edit** are displayed:



Clicking **Edit** >  **Contribute** enables the edit mode.

If the edit mode is active, this is shown in the header:



Clicking  **Exit edit mode** disables the edit mode.

The availability of various edit boxes (page 590) is another clear indication that the edit mode is active.

### 4.1.8.6.3 Which items are you allowed to change using the Contribution privilege?

If you have both the **ARIS Connect Viewer** and **Contribution** license privilege, you are able to change items and values for the following predefined items in the portal. 'Predefined' means that these items and their values were configured to be editable in the program by default.

This means that not all items of the following model and object types can be changed. Only those can be changed that were designed to be editable by the underlying concept and were set up accordingly by the configuration.

Please note that this is a sample configuration, which means that other items may have been configured to be editable in your installation.

#### MODEL TYPES

- Application system type diagram
- BPMN collaboration diagram (BPMN 2.0)
- BPMN process diagram (BPMN 2.0)
- Business controls diagram
- Enterprise BPMN collaboration diagram
- Enterprise BPMN process diagram
- EPC
- EPC (material flow)
- EPC (column display)
- EPC (table display)
- EPC (horizontal table display)
- EPC (row display)
- Function allocation diagram
- Organizational chart
- Process schedule
- Risk diagram
- KPI allocation diagram

#### OBJECT TYPES

- Application system
- Application system class
- Application system type
- Cluster/Data model
- Entity type
- Event
- Technical term

- Function
- Information carrier
- KPI instance
- Class
- Lane
- List
- Message
- Organizational unit
- Participant
- Person
- Risk
- Risk category
- Role
- Location
- Position
- System organizational unit
- System organizational unit type
- Test definition

#### 4.1.8.6.4 Which attributes are you able to edit?

ARIS Viewer Contribution enables you to edit attributes (page 590) that are based on the following base types:

- Boolean
- Value
- Floating point number domain
- Integer domain
- Floating point number
- Integer
- Date
- One-liner
- Multi-line text
- Link/File

Text formatting is ignored and cannot be assigned. If you are expected to enter numbers, the field is colored red (page 590) if you do not enter a numerical value.

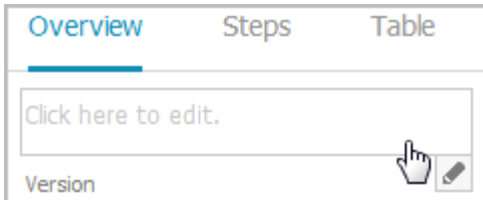
Please note that combined attributes and Binary Large Object (BLOB) attributes are not supported.

### 4.1.8.6.5 Which editing options are available?

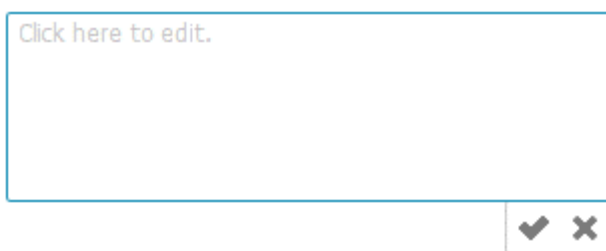
Depending on the attribute (page 589), various editing options are available.

#### Edit box

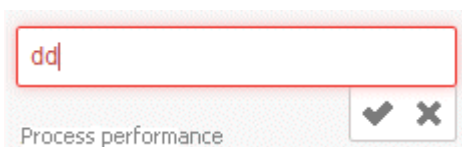
If the edit mode is active (page 586), moving the mouse pointer over an editable property will open the edit box. If no value has been specified yet (page 581), the hint **Click here to edit.** is displayed:



Clicking in the field will open it for editing:



The field indicates whether or not the input corresponds to the type expected. If an entry differs from the type expected, the field is displayed with a red border:



If the entry is correct, the field is displayed without a special characteristic:



## Select user(s)

If you want to select a user, you will be offered a list of the users logged in to the system for you to select in a dialog, e.g., for the **Responsible** attribute:

### Select user(s)

Available users

 ×

1-22 of 22

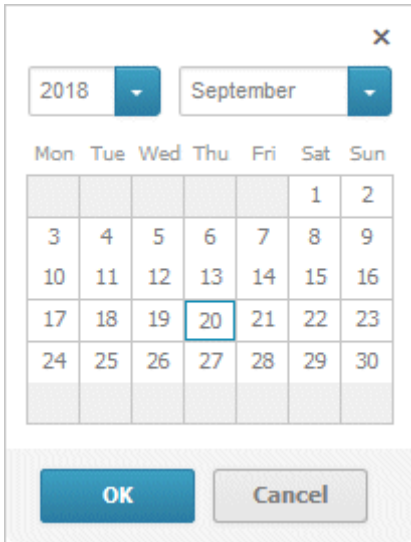
	User name	Name
<input type="checkbox"/>	cljo	Johnson Clifford
<input type="checkbox"/>	conjwo	Wojciech John
<input type="checkbox"/>	erjo	Erlendson John-Michael
<input type="checkbox"/>	jfg	Grimmette John
<input type="checkbox"/>	jjohnson	Johnson Joni
<input type="checkbox"/>	jku	Kucinich John
<input type="checkbox"/>	jobr	Bradford John
<input type="checkbox"/>	jobu	Burgon John
<input type="checkbox"/>	john mansour	John Mansour

**OK** Cancel



## Date input

You can enter dates using the calendar. It opens when you click in the edit box:

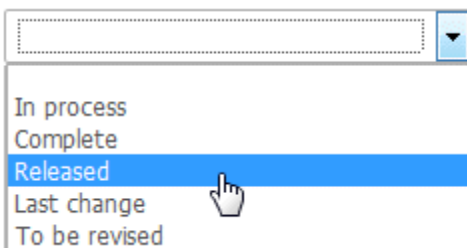


## Drop-down list box

For attributes that require the entry of specific values or of Boolean attributes, you can select the appropriate entry, e.g., for the **Model status** attribute:



Clicking in the field will offer possible values for selection:



## CREATE AND REUSE OBJECTS

### Table

Existing objects are listed in a table. Additional information is displayed in the individual rows:

Groups	
Name	Role
Risk manager group Finance	Risk manager_3
Risk owner group Finance	Risk owner_3
Risk reviewer group Finance	Risk reviewer_3

You can add individual objects to the table (page 582) or remove objects from the table (page 584).

### List

Existing objects are displayed in a list:

Subordinate IT systems	
Collaboration system	Loan processing system
Reporting system	Revision data information system

You can create new or reuse existing objects. It is possible to add multiple items at once. Click in the field and enter the names for the required items. Once your input is complete, click ✓


### Change:

Subordinate IT systems	
Revision data information system x	Loan
Loan (new item)	✓
Loan processing system	✗

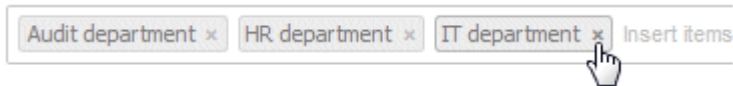
## DELETE OBJECTS

You can delete objects from tables (page 584) and lists (page 585):

### Table

▲ Name	Role	
Risk manager group Finance	Risk manager_3	✕ 

### List



### 4.1.8.6.6 Where to save new items

When a new item is created by a user with the **Contribution** license privilege, its definition is saved to the **Contribution** subgroup of the main group.

**Contribution** is further divided into other groups. For example, functions are saved to **Contribution/Activities**, while organizational units will be stored under **Contribution/Departments**.

Any group that does not yet exist in the database is automatically created.

## 4.1.9 Manage SAP Solutions

Process-Driven Management for SAP® Solutions is available, if you have selected this topic in the Perspective Wizard.

You can refine and evaluate your business processes in ARIS. This enables you to optimize your business processes.

Depending on the SAP Solution Manager® version in use, you need to configure the system differently (see Using SAP Solution Manager 7.2 and Using SAP Solution Manager 7.1. All other procedures are version-independent.

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### ARIS video tutorial

Process-Driven SAP Management Two-Minute Explainer

([http://www.softwareag.com/corporate/rc/rc\\_perma.asp?id=tcm:16-97174](http://www.softwareag.com/corporate/rc/rc_perma.asp?id=tcm:16-97174))

Connectivity for SAP Solutions in ARIS, 4 minutes

([http://www.softwareag.com/corporate/rc/rc\\_perma.asp?id=tcm:16-116500](http://www.softwareag.com/corporate/rc/rc_perma.asp?id=tcm:16-116500))





### 4.1.9.1 Run SAP® transaction


Run transactions in the connected SAP system.

#### Prerequisite

- You have at least the **ARIS Connect Viewer** license privilege.
- You are using Process-driven Management for SAP.
- Your administrator has configured the portal for the use of SAP content.

#### Procedure

1. Open ARIS Connect and log in with your user name and password.
2. Click  **Portal** if it is not activated yet.
3. Click Groups (page 483) in the classic view (page 610) or Processes (page 494) in the default view (page 610).
4. Click  **Navigation** if the navigation bar is not shown.
5. Navigate to the relevant model of the EPC type, where transactions are available.
6. Click **Transactions**. You can start the  transaction automatically via the default server in each row displaying a transaction code. Click the  arrow head to display all registered SAP Servers. The default server selected is indicated by a check mark.
7. Run the transaction. The **SAP logon** dialog opens.
8. Enter the number of the SAP client and the user name, and click **OK**. Depending on your browser settings, the **Run SAP transaction** dialog opens.
9. Enter the password and click **Log on**.

The transaction is run in the current language. The logon remains active until you log out of the portal, enter different logon data, or close the SAP system. To delete the current SAP logon data, click the  arrow head and then **Reset logon data**. For the next transaction start you need to log on to the SAP system again.



### 4.1.9.2 Reset SAP® logon data

Change the logon information for running transactions.

#### Prerequisite

- You have at least the **ARIS Connect Viewer** license privilege.
- You are using Process-driven Management for SAP.
- This function has been configured in the portal.

#### Procedure

1. Open ARIS Connect and log in with your user name and password.
2. Click  **Portal** if it is not activated yet.
3. Click Groups (page 483) in the classic view (page 610) or Processes (page 494) in the default view (page 610).
4. Click  **Navigation** if the navigation bar is not shown.
5. Open the relevant model.
6. Click **Transactions**.
7. In the last column of a transaction code, click the ▼ arrow head and then **Reset logon data**.

For the next transaction start (page 548) you need to log on to the SAP system again.




### 4.1.9.3 Download SAP® documents

You can download SAP documents that are associated with SAP transactions.

#### Prerequisite

- You have at least the **ARIS Connect Viewer** license privilege.
- You are using Process-driven Management for SAP.
- Documents are available.
- This function has been configured in the portal.

#### Procedure

1. Open ARIS Connect and log in with your user name and password.
2. Click  **Portal** if it is not activated yet.
3. Click Groups (page 483) in the classic view (page 610) or Processes (page 494) in the default view (page 610).
4. Click  **Navigation** if the navigation bar is not shown.
5. Open the relevant model.
6. Click **Transactions**.
7. Click the relevant transaction code. The fact sheet opens.
8. Next to the relevant document, click  **Download document**.

The document is downloaded.

#### 4.1.9.4 Configure ARIS Online Guide

If the ARIS Online Guide is used for making documents that were created in the SAP® system specially for your business processes available across the company, configure your custom settings to call the ARIS Online Guide.

##### Prerequisite

ARIS and the SAP® system have been configured for using the ARIS Online Guide.

##### Procedure

1. Log on to the SAP system.
2. Start the **/n/IDS/AOG\_USER** transaction. The **ARIS Online Guide - User-specific settings** dialog opens.
3. Enable the **Use ARIS Online Guide** check box.
4. Select the **Connect** option to display the ARIS Online Guide in the portal in ARIS Connect.
5. If you also want to use the F1 help from the SAP system in addition to the ARIS Online Guide, enable the **Also show default help** check box.
6. Enter the required connection data for ARIS Server and tenant on which the database was published as a portal. You administrator might already have specified default entries that you do not need to edit.

##### Base URL for Connect

URL for the relevant ARIS Server:

http://<server name>

##### Tenant

Tenant that manages the database published as a portal.

7. Save your changes.

The settings have been applied.

If you changed the default values set by your administrator and want to restore them, click **Restore defaults**.

### 4.1.9.5 Start ARIS Online Guide

If your administrator has provided ARIS Online Guide via ARIS Connect, you can open the relevant portal pages from SAP screens using the F1 key. All transactions are shown there in relation to the process. Details are summarized in corresponding fact sheets.

#### Prerequisites

- This function has been configured in the portal.
- You have configured the help call (page 550).

#### Procedure

Press the F1 key in the open screen. The corresponding portal page opens (link syntax: `http://<server name:port>/?tcode=<transaction code>#<tenant>/onlineguide`)

All information pertaining to this transaction is available on the open page.

## 4.1.10 Use RACI matrix

Using the RACI matrix you can represent and analyze responsibilities that exist within a process (page **Error! Bookmark not defined.**). RACI is short for **R**esponsible, **A**ccountable, **S**upportive, **C**onsulted, and **I**nformed.

The matrix shows which organizational unit participates in activities of a process and in what manner:

- **Responsible** indicates who assumes execution responsibility. It shows who is responsible for performing an activity and who actually performs it, but also who assumes the disciplinary responsibility. Execution responsibility must be assigned to at least one role, although others (see **Supportive**) can be delegated to assist in the work required.
- **Accountable** identifies the person ultimately answerable for the correct and thorough completion of a task. Thus, 'Accountable' may be the one in charge of managing the costs, i.e., the one who assumes project budget responsibility. The **decides on** and **accepts** connections are evaluated in order to mark this responsibility.
- **Supportive** relates to the person supporting the person responsible (see 'Responsible') in performing the activity.
- **Consulted** shows who has a consulting role. This organizational unit - typically a group of subject matter experts - is asked for advice prior to a final decision being made or a final action being taken.

**Informed** specifies who must be informed. It indicates who is kept up to date on the progress or completion of a task.

### 4.1.10.1 Create process model for RACI matrix

You can model processes that can be evaluated as a RACI matrix.

#### Prerequisite

You have the **ARIS Connect Designer** privilege.

#### Procedure

1. Create a process model (page **Error! Bookmark not defined.**).
2. Use objects (page **Error! Bookmark not defined.**) and connections that can be evaluated by the RACI matrix.
3. Save the process.





You have modeled a process for which the relevant responsibilities can be represented using a RACI matrix (page **Error! Bookmark not defined.**).



## 4.1.10.2 Display RACI matrix

A RACI matrix can display the activities of a process and the associated organizational responsibilities.

### Procedure

1. Click  **Portal** if it is not activated yet.
2. If your administrator has published multiple databases, select the required database by clicking the current database name next to the  database symbol and then clicking the name of the relevant database.
3. Click Groups (page 483) in the classic view (page 610) or Processes (page 494) in the default view (page 610).
4. Show the  **Navigation** bar if it is not visible yet.
5. In the  **Navigation**, open the group in which the required process (page **Error! Bookmark not defined.**) is stored.
6. Click the name of the process for which you want to display the RACI matrix. The entry **RACI** is shown.
7. Click **RACI**.

The RACI matrix is displayed for the process model you have selected. The functions of the process are arranged in rows, the organizational elements are arranged in columns. In the portal, process participations are displayed by default as a RACI matrix in classic view (page 483) and default view (page 494). You can configure the representation as RASCI matrix. Please contact your local Software AG sales organization (<http://softwareag.com>).

You can use the RA(S)CI - Output organizational participations in processes (page 638) report to output the RACI matrix in Microsoft® Excel format from an open process model (page 741). By default, this report does not return any **Supportive** information. To output this information, your script administrator must set the **g\_bRASCI** variable to **true**.

### 4.1.10.3 Valuable information

This section provides background information to assist you in carrying out the relevant procedures.

#### 4.1.10.3.1 Which diagrams can be used for a RACI matrix?

A RACI matrix can be based on the following diagrams:

- EPC (API name **MT\_EEPC**)
- EPC (column display) (API name **MT\_EEPC\_COLUMN**)
- EPC (material flow) (API name **MT\_EEPC\_MAT**)
- EPC (row display) (API name **MT\_EEPC\_ROW**)
- EPC (table display) (API name **MT\_EEPC\_TAB**)
- EPC (horizontal table display) (API name **MT\_EEPC\_TAB\_HORIZONTAL**)
- BPMN collaboration diagram (BPMN 2.0) - (API name **MT\_BPMN\_COLLABORATION\_DIAGRAM**)
- BPMN process diagram (BPMN 2.0) (API name **MT\_BPMN\_PROCESS\_DIAGRAM**)
- Enterprise BPMN collaboration diagram (API name **MT\_ENTERPRISE\_BPMN\_COLLABORATION**)
- Enterprise BPMN process diagram (API name **MT\_ENTERPRISE\_BPMN\_PROCESS**)
- Function allocation diagram (API name **MT\_FUNC\_ALLOC\_DGM**). This model must be assigned to a function.
- Value-added chain diagram (API name **MT\_VAL\_ADD\_CHN\_DGM**)

#### 4.1.10.3.2 Which objects can be used for a RACI matrix?

The following objects are evaluated by a RACI matrix:

- Function (API name OT\_FUNC)
- Group (API name OT\_GRP)
- Organizational unit (API name OT\_ORG\_UNIT)
- Organizational unit type (API name OT\_ORG\_UNIT\_TYPE)
- Person (API name OT\_PERS)
- Role (API name OT\_PERS\_TYPE)
- Position (API name OT\_POS)

### 4.1.10.3.3 Which connections can be used for a RACI matrix?

The following connections between organizational elements and functions are evaluated by the RACI matrix:

#### RESPONSIBLE (R)

- carries out (API name: CT\_EXEC\_1)
- carries out (API name: CT\_EXEC\_2)

#### ACCOUNTABLE (A)

- decides on (API name: CT\_DECD\_ON)
- decides on (API name: CT\_DECID\_ON)
- accepts (API name: CT\_AGREES)

#### CONSULTED (C)

- is technically responsible for (API name CT\_IS\_TECH\_RESP\_1)
- is technically responsible for (API name CT\_IS\_TECH\_RESP\_3)
- has consulting role in (API name CT\_HAS\_CONSLT\_ROLE\_IN\_1)
- has consulting role in (API name CT\_HAS\_CONSLT\_ROLE\_IN\_2)

#### INFORMED (I)

- must be informed about (API name: CT\_MUST\_BE\_INFO\_ABT\_1)
- must be informed about (API name: CT\_MUST\_BE\_INFO\_ABT\_2)
- must be informed on cancellation (API name: CT\_MUST\_BE\_INFO\_ON\_CNC\_1)
- must be informed on cancellation (API name: CT\_MUST\_BE\_INFO\_ON\_CNC\_2)

If RA(S)CI was set, the following connections are additionally available:

#### SUPPORTIVE (S)

- contributes to (API name CT\_CONTR\_TO\_1)
- contributes to (API name CT\_CONTR\_TO\_2)

## 4.1.11 Use Mini workflows

Mini workflows are some work steps that have to be processed from different people. The flow of the work steps is based on the information provided by the content.

If, e. g., a change request for a model is submitted, the request is sent via e-mail to the person who is extracted from the **Person responsible** attribute of the relevant model. In ARIS Process Board, the request is entered as task. There, the Person responsible can assess if the change should be made.






### 4.1.11.1 Edit models

You can edit models in ARIS Connect.

#### Prerequisite

- You have the **ARIS Connect Designer** privilege.
- When using Microsoft® Internet Explorer version 8, the compatibility mode must be disabled.

#### Procedure

1. Open ARIS Connect and log in with your user name and password.
2. Click  **Portal** if it is not activated yet.
3. Click Groups (page 483) in the classic view (page 610) or Processes (page 494) in the default view (page 610).
4. Click  **Navigation** if the navigation bar is not shown.
5. Click the name of the model you want to edit.
6. Click  **Edit** >  **Edit model**. The model opens in the Model Editor on an individual tab.
7. Make the required changes.
8. Click  **Save**.

Your changes are saved in the model.

All users can select the language to be used for the notification in their profile in ARIS Connect. This workflow is a part of ARIS Connect. It can be customized, if required. For example, you can change e-mail texts, add notifications, make changes to dialogs, etc. The integration of complex workflows (standard RCM, change management, etc.) requires the **ARIS Design Server** license or **ARIS Connect** Server extension pack: **Process Governance**.




## 4.1.11.2 Share model

You can share models with other users.

### Prerequisite

- You have at least the **ARIS Connect Viewer** license privilege.
- When using Microsoft® Internet Explorer version 8, the compatibility mode must be disabled.

### Procedure

1. Open ARIS Connect and log in with your user name and password.
2. Click  **Portal** if it is not activated yet.
3. Click Groups (page 483) in the classic view (page 610) or Processes (page 494) in the default view (page 610).
4. Click  **Navigation** if the navigation bar is not shown.
5. Click the model you want to send to another user.
6. Click  **Share model**. The dialog opens.
7. Select the user you want to share the model with.
8. Enable **Send copy to me** to receive a copy of the message, if required.
9. You can also enter a subject and a comment.
10. Click **Send**.

The selected user receives an e-mail containing the information you entered and a link to the corresponding model.

All users can select the language to be used for the notification in their profile in ARIS Connect. This workflow is a part of ARIS Connect. It can be customized, if required. For example, you can change e-mail texts, add notifications, make changes to dialogs, etc. The integration of complex workflows (standard RCM, change management, etc.) requires the **ARIS Design Server** license or **ARIS Connect** Server extension pack: **Process Governance**.




### 4.1.11.3 Submit change request

You can send change requests for models to the person responsible.

#### Prerequisites

- You have at least the **ARIS Connect Viewer** license privilege.
- The **Person responsible** model attribute must be specified for the relevant model with a user name that exists in the user management.
- The models are saved in a versionable database.
- When using Microsoft® Internet Explorer version 8, the compatibility mode must be disabled.

#### Procedure

1. Open ARIS Connect and log in with your user name and password.
2. Click  **Portal** if it is not activated yet.
3. Click Groups (page 483) in the classic view (page 610) or Processes (page 494) in the default view (page 610).
4. Click  **Navigation** if the navigation bar is not shown.
5. Click the model for which you want to submit a change request.
6. Click  **Submit change request**. The dialog opens.
7. Enter a title and a description for your request.
8. Select the priority with which the request is to be handled.
9. Add any relevant documents, graphics, etc. that could be used as a basis for editing.
10. Click **Send**. A completion message is displayed.
11. Click **OK**.

The person responsible receives the change request by e-mail with a link to the relevant model and a link to edit the associated task in ARIS Process Board.

Once the person responsible has processed the request, the applicant receives a message by e-mail.

As soon as the first change request is made, the **ARIS Connect Governance Inbox** database is automatically created in ARIS. It contains a Requirements inbox for each person responsible with a model of the **Requirements tree** type. An object of the **Requirement** type is created for each change request. As the process continues, the realization status of the object is automatically changed depending on which status the person responsible has selected (**Approve**, **Reject**). This enables all change requests to be monitored in the **ARIS Connect Governance Inbox** database.

All users can select the language to be used for the notification in their profile in ARIS Connect. This workflow is a part of ARIS Connect. It can be customized, if required. For example, you can change e-mail texts, add notifications, make changes to dialogs, etc. The integration of complex workflows (standard RCM, change management, etc.) requires the **ARIS Design Server** license or **ARIS Connect** Server extension pack: **Process Governance**.







#### 4.1.11.4 Ask for model approval

Ask the person in charge to approve the models you changed so that the changed models can be made available to all users.

##### Prerequisite

- You have at least the **ARIS Connect Viewer** license privilege.
- When using Microsoft® Internet Explorer version 8, the compatibility mode must be disabled.

##### Procedure

1. Open ARIS Connect and log in with your user name and password.
2. Click  **Portal** if it is not activated yet.
3. Click Groups (page 483) in the classic view (page 610) or Processes (page 494) in the default view (page 610).
4. Click  **Navigation** if the navigation bar is not shown.
5. Click the name of the model you want to edit.
6. Click  **Edit** >  **Edit model**. The model opens in the Model Editor on an individual tab.
7. Make the required changes.
8. Click  **Comment** if it is not activated yet.
9. Click  **Request approval**. The **Confirmation** dialog opens for you to confirm that the model changes are to be saved and the model is to be reopened read-only.
10. Click **OK**. The model reopens read-only and the **Request approval** dialog is displayed.
11. If required, select a person in charge to approve the model if the **Person responsible** attribute has not been specified at the model.
12. Enter a comment to explain the approval request.
13. Click **Send**. A completion message is displayed.
14. Click **OK**.

The person responsible receives an e-mail with the relevant information and a link to the associated task in ARIS Process Board. If the person responsible approves the changes, the model is automatically published and the current version is provided.

Until then, only you and other modelers can view your changes.

All users can select the language to be used for the notification in their profile in ARIS Connect.

This workflow is a part of ARIS Connect. It can be customized, if required. For example, you can change e-mail texts, add notifications, make changes to dialogs, etc. The integration of complex workflows (standard RCM, change management, etc.) requires the **ARIS Design Server** license or **ARIS Connect** Server extension pack: **Process Governance**.








### 4.1.11.5 Request feedback on processes

You can request feedback on processes from other users.

#### Prerequisite

- You have at least the **ARIS Connect Viewer** license privilege.
- When using Microsoft® Internet Explorer version 8, the compatibility mode must be disabled.

#### Procedure

1. Open ARIS Connect and log in with your user name and password.
2. Click  **Portal** if it is not activated yet.
3. Click Groups (page 483) in the classic view (page 610) or Processes (page 494) in the default view (page 610).
4. Click  **Navigation** if the navigation bar is not shown.
5. Click the model for which you want feedback.
6. Click  **Comment** if the **Comment** bar is not open yet.
7. Enter your comment in the box provided.
8. Click  **Tag**.
9. Enter the words to be used as keywords (page 715) in the tag input box, e.g., BPM. Alternatively, select an existing tag from the list of tags. It is displayed as soon as you enter a letter that is part of an existing tag. Press the Enter key after each keyword.
10. Click  **Link**.
11. Insert a link to a Web site that contains more detailed information.
12. Click **Add link**. The link is checked and added.
13. Click  **File**. The **Select document** dialog is displayed.
14. Click  **Upload new document** to upload one of your own documents. The dialog opens.
15. Select the file you want to upload and enter the relevant additional information.
16. Click **Upload**.
17. Enable the check box of the document you want to add to your post.
18. Click **OK**.

The comment is displayed below the process and can be commented on by other users.

All users can select the language to be used for the notification in their profile in ARIS Connect.

This workflow is a part of ARIS Connect. It can be customized, if required. For example, you can change e-mail texts, add notifications, make changes to dialogs, etc. The integration of complex workflows (standard RCM, change management, etc.) requires the **ARIS Design Server** license or **ARIS Connect** Server extension pack: **Process Governance**.






### 4.1.11.6 Inform owner of change

You can inform the model owner of model changes you have made in the portal (page 581). The process owner is automatically determined by the attribute **Person responsible**.

#### Prerequisite

- You have the **ARIS Connect Viewer** and **Contribution** license privileges, or the **ARIS Connect Designer** license privilege.
- When using Microsoft® Internet Explorer version 8, the compatibility mode must be disabled.

#### Procedure

1. Open ARIS Connect and log in with your user name and password.
2. Click  **Portal** if it is not activated yet.
3. Click Groups (page 483) in the classic view (page 610) or Processes (page 494) in the default view (page 610).
4. Click  **Navigation** if the navigation bar is not shown.
5. Navigate to the items and change the relevant attributes (page 581). Depending on the attributes, various editing options (page 590) are available.
6. Click  **Inform owner of change**. The **Inform of change** dialog opens.
7. Insert a change description
8. Click **Submit**. The **Information** dialog opens.
9. Enable the **Do not show this message again** check box if you do not want to be informed again by the dialog when executing the mini workflow more than once during the current session.
10. Click **OK**.

The process owner receives an e-mail containing the information you entered. If he submits the human task, you will be informed via e-mail.

This workflow is a part of ARIS Connect. It can be customized, if required. For example, you can change e-mail texts, add notifications, make changes to dialogs, etc. The integration of complex workflows (standard RCM, change management, etc.) requires the **ARIS Design Server** license or **ARIS Connect** Server extension pack: **Process Governance**.

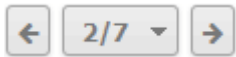
## 4.1.12 Valuable information

This section provides background information to assist you in carrying out the relevant procedures.

### 4.1.12.1 In which order are object occurrences displayed?

You can display where occurrences of an object are used and select the required occurrence using the navigation controls.

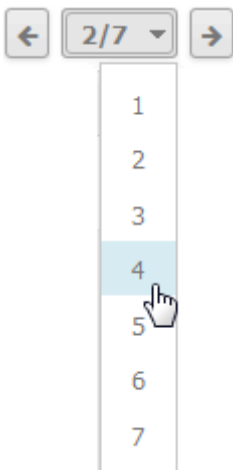
The navigation controls include arrows and a drop-down list:



If you click an arrow, the next occurrence is selected. The order of the occurrences depends on the vertical position of the objects in the model. The occurrence at the top most position is occurrence number 1.

The first number in the drop-down list refers to the occurrence currently selected, the second number represents the total amount of occurrences in a model.

Using the drop-down list, you can directly select a specific object occurrence:



### 4.1.12.2 What is the portal view?

The portal shows specific information for each user. Different views display information in different ways. By default, ARIS comes with two different views. The classic view (page 481) and the default view. These views are defined in configuration sets, that cannot be changed. However, administrators can define multiple modified modification sets based on these templates.

### 4.1.12.3 What is the structure of the classic view?


If the administrator provides at least one database which you have access to, this view shows all content relevant to you in a clear structure.

- Home (page 482)
- Groups (page 483)

Content filters restrict the information in specific areas of the portal to content that is relevant to you. Content filters can be defined in two ways:

- Content filters can be assigned via role. If a role object is assigned (page 554) in models to an existing user group you are member, the relevant filters are added to the **My content** area automatically.
- You can add filters (page 552) and activate them as content filters (page 555) to further restrict this content.

### 4.1.12.4 What is the structure of the default view?

If you click  **Portal**, you can view all information relevant to you.

If the administrator provides at least one database, this view shows all content relevant to you in a clear structure:

- Home (page 482)
- Processes (page 494)
- Organization (page 503)
- IT systems (page 504)

In the default view, only assignments are shown that belong to the current hierarchy, for example, assignments from Value-added chain diagrams (VAC) to object of process models like EPCs, but no assignments to organizational charts.

Content filters restrict the information in specific areas of the portal to content that is relevant to you. Content filters can be defined in two ways:

- Content filters can be assigned via role. If a role object is assigned (page 554) in models to an existing user group you are member, the relevant filters are added to the **My content** area automatically.
- You can add filters (page 552) and activate them as content filters (page 555) to further restrict this content.

### 4.1.12.5 What is the bar panel for?

The bar panel offers you buttons to open or close bars like the **Groups** or **Processes** bars as well as, e. g., the **Reports** and **Comment** bars.



In front of the bar buttons a separator separates buttons that trigger directly functionality such as **Print graphic as PDF**.

Among others the following possibilities are available:






















Using the bar panel buttons **Comment** and **Navigation**, you can show or hide the Collaboration functions **Follow** (page **Error! Bookmark not defined.**) and **Comment** (page **Error! Bookmark not defined.**), as well as the Explorer tree. The buttons of visible bars are indicated in color.

Click **Share model** to share models with other users (page **Error! Bookmark not defined.**). Click **Submit change request** to send change requests to the process manager (page **Error! Bookmark not defined.**).

### 4.1.12.6 Which quick access buttons are available?

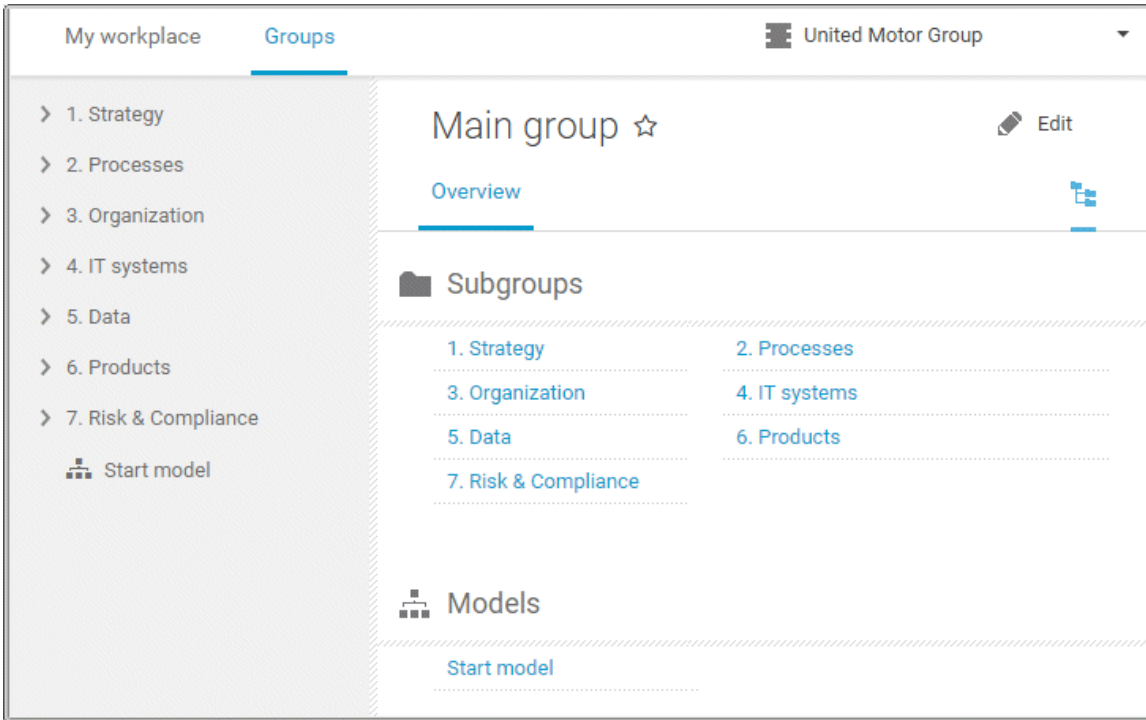
Depending on your license, not all described quick access buttons may be available.

	<b>View models &amp; documents</b>	Opens the Groups (page 483) structure in the <b>Classic</b> (page 610) view or Processes (page 494) structure in the <b>Default</b> (page 610) view, where you can browse the ARIS Connect content of the selected database.
	<b>Tasks</b>	Opens ARIS Process Board, where you can edit tasks that are assigned to you.
	<b>Search</b>	Opens the <b>Search</b> area (page <b>Error! Bookmark not defined.</b> ), where you can find items, objects, documents, groups in Collaboration, etc.
	<b>Create new model</b>	Opens the <b>Create model</b> dialog for you to create a model in one of the databases you have access to.
	<b>Download clients</b>	Opens the <b>Download client</b> page for you to download a java client of the products the administrator made available.
	<b>My feed</b>	Opens the <b>Recent</b> area of the <b>Collaboration</b> (page 702) where you have access to your own feed.

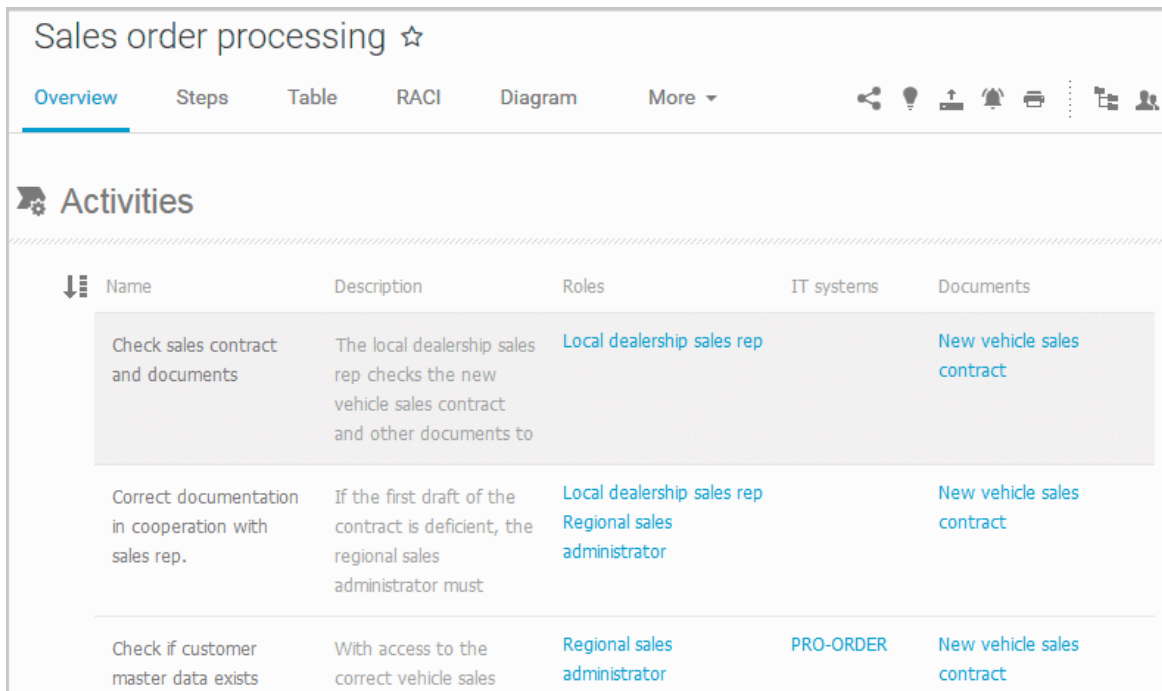
	<b>All company feed</b>	Opens the <b>All company feed area (page 703)</b> of the  <b>Collaboration (page 702)</b> .
	<b>All collaboration groups</b>	Activates the  <b>Find groups</b> area of the  <b>Collaboration (page 702)</b> where you can find new groups (page 703).
	<b>Manage models &amp; objects</b>	Opens the <b>Models &amp; Objects</b> area of the  <b>Repository</b> and enables you to manage models and objects of the databases of the current ARIS server.
	<b>Manage documents</b>	Opens the <b>Documents</b> area of the  <b>Repository</b> and enables you to manage the content of ARIS document storage of the current ARIS server.
	<b>Manage dashboards &amp; data feeds</b>	Opens the <b>Dashboards &amp; Data feeds</b> area of the  <b>Repository</b> where you can manage dashboards and data feeds.
	<b>My profile</b>	Opens your profile page where you can edit your data or add an image.
	<b>Administration</b>	Opens the <b>Configuration</b> area where you can manage the current ARIS Connect system.
	<b>User administration</b>	Opens in ARIS Administration the <b>Users</b> area of the  <b>User Management</b> where you can administrate the users for the current server.
	<b>License administration</b>	Opens in ARIS Administration the  <b>Licenses</b> area where you can administrate the licenses for the current server.
	<b>Process administration</b>	Opens in ARIS Administration the  <b>Process administration</b> area where you can administrate automated processes.
	<b>Collaboration administration</b>	Opens the <b>Check flagged activities</b> page of the <b>Administration</b> area of the  <b>Collaboration (page 702)</b> where you can decide whether content is appropriate or not.

### 4.1.12.7 What is the Overview fact sheet for?

Gives an overview of the item selected, e. g., displays variant relationships of the selected item or the content of a selected group.



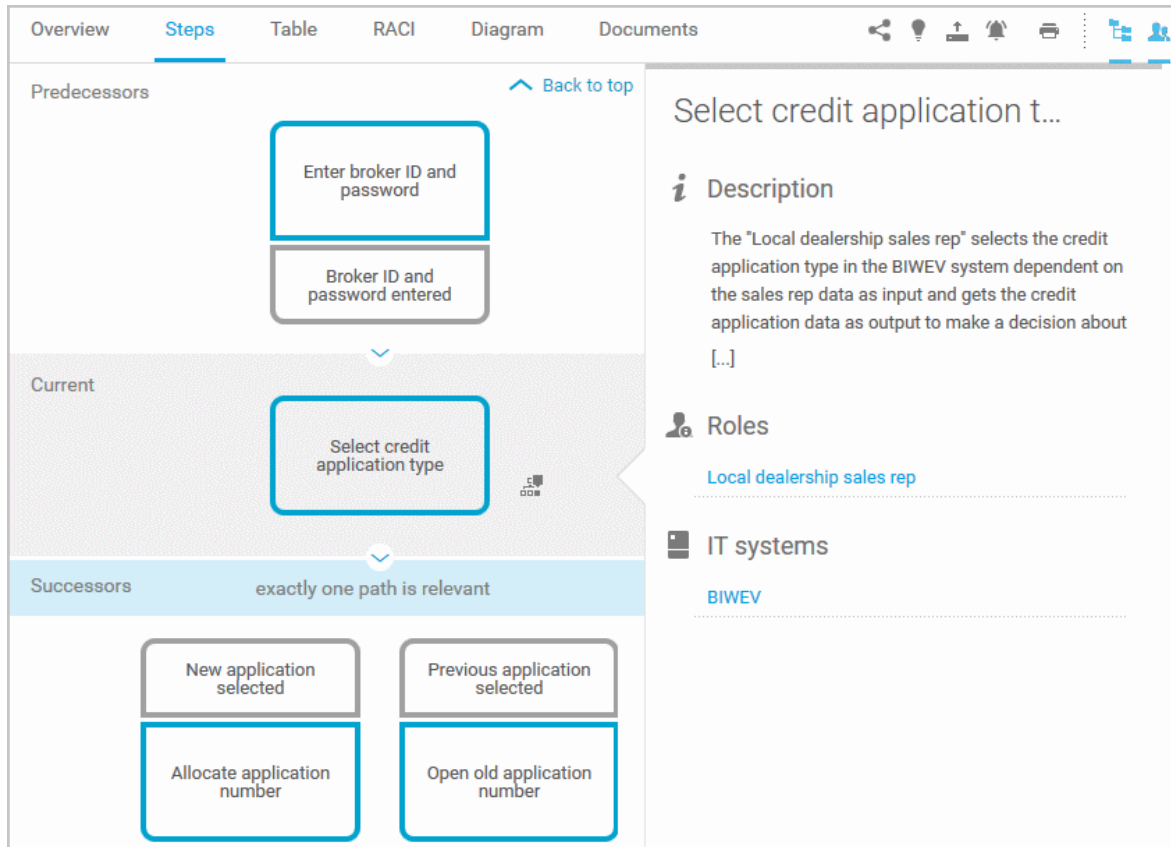
If you have selected a model, additional headings are shown depending on the context.



Content that can be used to navigate to other content is displayed as links.

### 4.1.12.8 What is the Steps fact sheet for?

Transparently displays all steps of a process (EPC) (page **Error! Bookmark not defined.**). Regardless of the process size you can view only the previous, current, and subsequent process steps. For the current step the relevant information is provided in the form of links.



You can easily navigate to the top of the **Steps** fact sheet (page **Error! Bookmark not defined.**) and you can easily navigate between the **Steps** and the **Diagram** fact sheet (page **Error! Bookmark not defined.**).

### 4.1.12.9 What is the Table fact sheet for?








Shows the functions that the process of type **EPC** and **BPMN** contains, as well as the roles assigned to them. In the tables, you can add columns (page **Error! Bookmark not defined.**) and remove added columns (page **Error! Bookmark not defined.**) again.

↓ Functions	Roles
Check sales contract and documents	Local dealership sales rep
Correct documentation in cooperation with sal	Local dealership sales rep Regional sales administrator
Check if customer master data exists	Regional sales administrator
Create customer master data	Regional sales administrator
Enter vehicle data and details	Regional sales administrator
Check if vehicle is in stock	
Allocate vehicle	Regional sales administrator
Create sales order	Regional sales administrator

You can sort the functions (page **Error! Bookmark not defined.**) in different ways by clicking the column title.



You can open a matrix (page **Error! Bookmark not defined.**) based on the **Table** fact sheet to clearly display the interrelations between the individual roles and functions.

<span>Overview</span> <span>Steps</span> <span><b>Table</b></span> <span>RACI</span> <span>More ▾</span>      		
 Functions	Roles	
	Local dealership sales rep	Regional sales administrator
Check sales contract and documents	<input checked="" type="checkbox"/>	
Correct documentation in cooperation with sales rep.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Check if customer master data exists		<input checked="" type="checkbox"/>
Create customer master data		<input checked="" type="checkbox"/>
Enter vehicle data and details		<input checked="" type="checkbox"/>

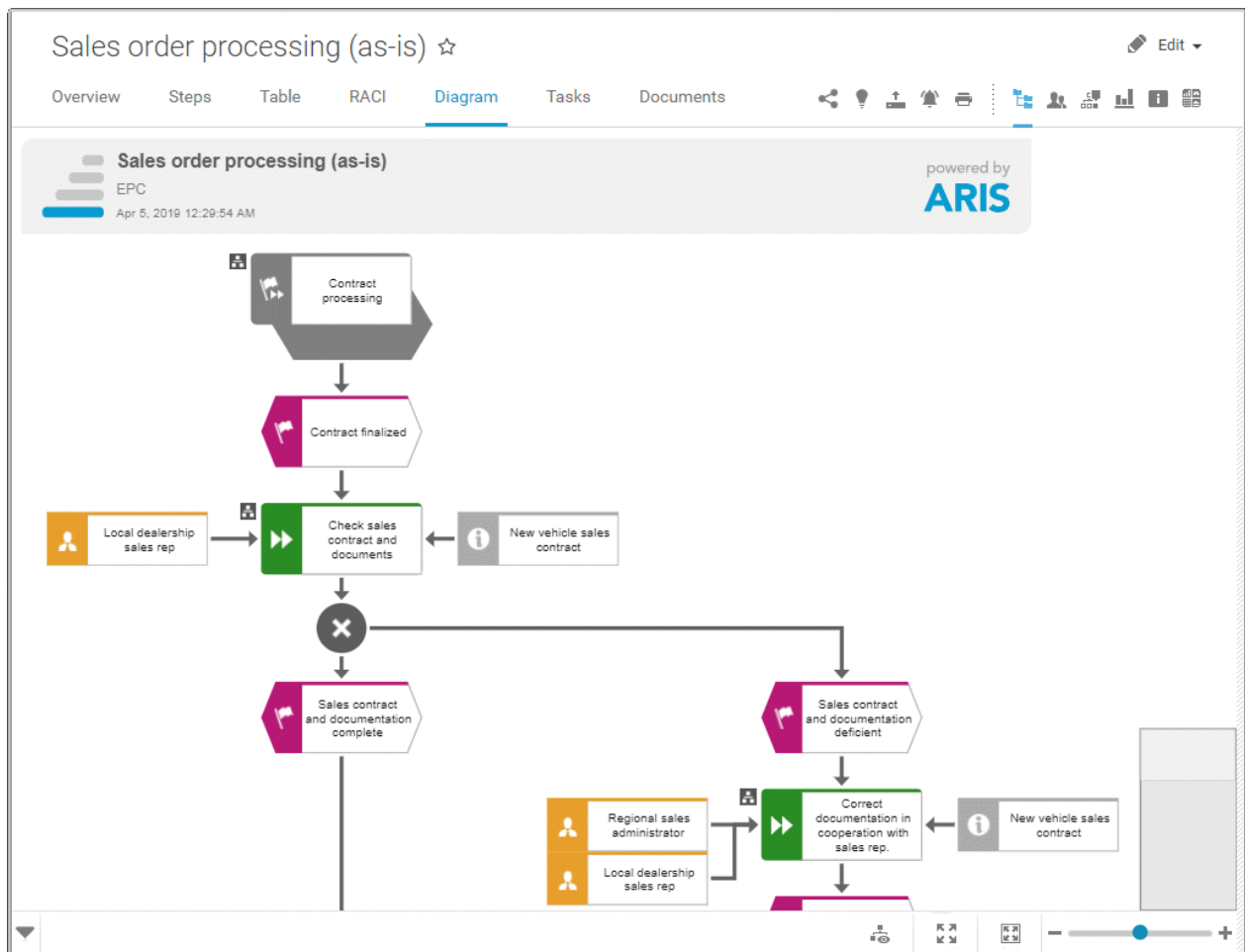
#### 4.1.12.10 What is the RACI fact sheet for?

RACI matrices display the activities processes and the associated organizational responsibilities. RACI matrices are displayed only if RACI information is available for this process (page **Error! Bookmark not defined.**). You can sort the functions (page **Error! Bookmark not defined.**) matrices.

Overview		Steps		Table		RACI		More ▾	
↓ Functions		Local dealership sales rep		Regional sales administrator					
Check sales contract and documents	R	A	R	A	C	I	C	I	
Correct documentation in cooperation with sales rep.	R	A	R	A	C	I	C	I	
Check if customer master data exists	R	A	R	A	C	I	C	I	
Create customer master data	R	A	R	A	C	I	C	I	

### 4.1.12.11 What is the Diagram fact sheet for?

Graphically displays the diagram in Model Viewer. Depending on the diagram type, different functions are available.



You can change the view of the diagram (page **Error! Bookmark not defined.**) (🔍) to show these aspects you want to focus on. Using the functions of the view bar you can change the size of appearance (page **Error! Bookmark not defined.**). Click **i Properties** to view the properties of a model or a model item. (page **Error! Bookmark not defined.**) You can highlight objects in the diagram (page **Error! Bookmark not defined.**) (👤) that meet a defined condition. In addition, you can open assigned models (page **Error! Bookmark not defined.**) (📄).

### 4.1.12.12 Which view options are available?

You can change the view (page **Error! Bookmark not defined.**) of all model types. For every model type at least the layout options **Horizontal**, and **Vertical** are available.

The view options displayed depends on the type of the model. The view options of model type **EPC**, e. g., differs from a model of type **Enterprise BPMN collaboration**.

**Group** and **Layout** options can be combined with the selected view. If a view based on the current option settings cannot be generated, the indication **No diagram available** is shown in the model window.

#### VIEWS

##### Default

Displays the model in general as it is modeled. All model elements, structurally relevant objects (page 871) and satellites (page 871), are shown.

If you have determined **Details**, **Group by**, or **Layout** options the presentation of the model is adjusted accordingly.

##### Lean

Displays only the structurally relevant objects (page 871) of a model. Satellites (page 871) are hidden.

If you have determined **Details**, **Group by**, or **Layout** options the presentation of the model is adjusted accordingly.

##### People view

Besides the structurally relevant objects (page 871), all objects of the following types are displayed.

- Internal person
- External person
- Position
- Role

##### IT systems view

Besides the structurally relevant objects (page 871), all objects of the **Application system type** are displayed.

##### Swim lane view

Displays the model in general completely, but restructured in rows and columns. If row and column labels exist, the rows and columns are labeled.

If you have determined **Details**, **Group by**, or **Layout** options the presentation of the model is adjusted accordingly.

## Details

Opens a list of the following model items. You can show (enable the check box) and hide (disable the check box) the model items to focus on the required ones.

- Roles
- Persons
- Positions
- Information carriers
- IT systems
- Capabilities
- Risks
- KPI instances

## GROUP BY

### Roles

Groups the model elements according to the roles contained in a swimlane model (page 868).

The **Group by** switch is turned on. To turn off the grouping click **Off**.



### Positions

Groups the model elements according to the positions contained in a swimlane model (page 868).

The **Group by** switch is turned on. To turn off the grouping click **Off**.



### IT systems

Groups the model elements according to the IT systems contained in a swimlane model (page 868).

The **Group by** switch is turned on. To turn off the grouping click **Off**.



## LAYOUT

### Horizontal

Arranges the model items from left to right.

The **Layout** switch is turned on. To turn off the selected layout click **Off**.



### Vertical

Arranges the model items top down.

The **Layout** switch is turned on. To turn off the selected layout click **Off**.



### 4.1.12.13 What is the Task fact sheet for?

Shows your tasks created by mini workflows or Process Governance processes. For editing, selected tasks are opened in ARIS Process Board (page 5).

Task	Priority	Status
New document submitted: Assigned Nov 26, 2018		New

### 4.1.12.14 What is the Transactions fact sheet for?

Transactions are displayed if you are using Process-driven Management for SAP and if this function has been configured in the portal.

Transaction code	Name	Supports	Type	
	Create contract	Contract negotiation and completion in ERP Create contract	SAP transaction	
	Periodic billing	Contract negotiation and completion in ERP	SAP transaction	
	Display contract	Contract negotiation and completion in ERP Inform sales office about contract	SAP transaction	
	Change contract	Contract negotiation and completion in ERP	SAP transaction	
	Create quotation	Quotation processing in ERP (to-be)	SAP transaction	
<a href="#">SDQ1</a>	Expired quotations	Quotation processing in ERP (to-be)	SAP transaction	
<a href="#">SDQ2</a>	Expired quotations	Quotation processing in ERP (to-be)	SAP transaction	
<a href="#">SDQ3</a>	Complete quotatio	Quotation processing in ERP (to-be)	SAP transaction	

You can start (page 548) the transaction automatically via the default server in each row displaying a transaction code. Click the arrow head to display all registered SAP Servers. The default server selected is indicated by a check mark.

<input checked="" type="checkbox"/>	16 A08 Solution Manager 7.1
<input type="checkbox"/>	18 S04 Solution Manager 7.0
	SAP URL
	Logon data <a href="#">Reset data</a>

To start the transaction, click an SAP Server or a URL. The Login dialog opens.

The image shows a standard SAP logon dialog box. At the top, it says "SAP logon" in blue. Below that are three input fields: "Client:" with the value "001", "User:" with the value "YARIS123", and "Password:" with six dots. At the bottom, there are two buttons: a blue "Ok" button and a grey "Cancel" button.

Log on to the SAP system in the current language and the transaction starts. The login remains valid until you log out of the portal or enter different login data (page 549). To delete the current SAP logon data, click the ▼ arrow head and then **Reset logon data**. For the next transaction start you need to log on to the SAP system again.

If you click a transaction on the **Transactions** page, such as **SDQ1**, its fact sheet including detailed information is displayed. If documents are available, you will be able to download (page 549) them.

The screenshot shows the SAP Transactions page for transaction code SDQ1 (Expiring Quotations). The page is divided into several sections:

- Transaction code:** SDQ1 (Expiring Quotations)
- Type:** SAP transaction
- Logical component:** ZSAP ECC 50
- Supported processes:**
  - Customer qualification (to-be)
  - Sales process (to-be)
  - Contract negotiation and completion in ERP (to-be)
- Activities:**
  - Quotation processing in ERP (to-be)
- Documents:**
  - Quotation processing in ERP
- Roles:**
  - Head of regional sales
  - Regional sales
- Transaction siblings:**
  - Display quotation
  - Change quotation
  - Create quotation
  - List of incomplete quotations
  - Batch processing of quotations

### 4.1.12.15 What is the Documents fact sheet for?

Lists documents assigned to models or objects, for example, by the **Link 1 - Link 4** attributes. These documents are stored in ARIS document storage.

Overview Steps Table RACI Diagram Tasks Documents				
1-1 of 1				
Name	Owner	Last update	Related to	
Modeling conventions	stem14	2018.11.26, 10:25:38	Sales order processing	

### 4.1.12.16 What is the structure of the My content area?

If the administrator provides at least one database you have access to, the **My content** area is available. It provides a filter definition pane and a result pane. In the definition pane, you can define filters, refresh the filter result, delete filter definitions, turn on and turn off the defined filters. In the result pane, you can focus on specific aspects. Therefore you can, e. g., switch between activities and processes.


The screenshot illustrates the 'My content' area interface, divided into two main panes: the 'Filter definition pane' on the left and the 'Result pane' on the right.

- Filter definition pane:**
  - Add filters:** A section for defining filters, including a search bar (Find filter) and a list of available filters (Hierarchy auditor group UMG, Hierarchy auditor\_2, Hierarchy manager group UMG, Hierarchy manager\_2, Software Architect, Location (2)).
  - Page selection:** A navigation bar showing '1 2 3 4 5 ...'.
  - Selected filters:** A list of filters currently applied, including 'Role' and 'Location'.
  - Filter control:** A button to 'Reset filter and Remove all'.
  - Content filter switch:** A toggle switch currently set to 'On'.
- Result pane:**
  - Show:** A dropdown menu currently set to 'Activities', with a 'Methodical filtering' label pointing to it. Other options include 'Processes', 'Documents', 'Risks', 'Application Systems', and 'Organizational Units'.
  - Content List:** A list of filtered content items, such as 'Accounting-to-reporting monthly', 'Acquire and maintain application software', 'Acquire and maintain technology infrastructure', and 'Acquire and implement', each with a detailed path.

In the **Add filters** section all available filters for the current user are available. The filters assigned to the roles that are modeled for the current user are listed in the **Selected filters** section. You can add individual (page 552) or a number of filters (page 553) to the **Selected filters** section.



If the number of the selected filters is too large to be displayed, the filter category is collapsed and indicated by the number of filters contained. The category can be expanded. If the number of filters takes up more than one page, filters are offered on various pages. In that case behind the category name a page selection is displayed to navigate to the relevant pages.

You can remove selected filters (page 556) and selected filters can be reset (page 556), so that only the filters stay active that are assigned to you by role assignment. The  **Reset filters** button is only displayed if you are logged in as user to whom a content filter is assigned via roles (page 554).

Selected filters can be used as content filter. That means that in the portal only the content is shown that is allowed by the selected filters.

Finally you can remove the selected filters as well as the filters that are assigned to you (page 556) by role assignment.

#### 4.1.12.17 When can UML content be displayed?

You can display UML content in ARIS Connect under the following conditions:

- You use the classic configuration set (page 610).
- The database with UML content you are using has been assigned a filter that allows UML content. This may be the **Entire method** filter or a filter you have defined in which all UML elements are available.
- The database has been published by an administrator. It is therefore available in the portal.
- You have logged in as a user with the **UML Viewer** function privilege.

#### 4.1.12.18 Where is UML content displayed?

UML content is displayed in the same way as other ARIS content. You can use the groups (page 483) to navigate in the database.

As soon as you select UML content to be displayed, specific UML characteristics are taken into account.

- Thus, UML namespace hierarchies are also displayed together with the group path.
- If you select a UML element, you can display its typical UML-specific properties such as stereotypes and tagged values.
- If you select a diagram, you can of course display it graphically.
- The search also finds UML content.

### 4.1.12.19 What is the context for executable processes?

The execution context determines from which items (database, group, model/object type, document), in which applications (e.g., ARIS Connect), and by which users a governance process can be started. The context must be defined in ARIS before generating the executable process. After this, the context can no longer be changed for the generated process version. If no execution context is defined, the governance process can be started for all items (**Without context** option). The defined execution context is displayed in process administration.

### 4.1.12.20 What are content filters?

Content filters restrict the information in specific areas of the portal to content that is relevant to you. This is controlled in user management by administrators.

You can add filters (page 552) and activate them as content filters (page 555) to further restrict this content. Content filters are available only if roles are assigned (page 554) to your user in models and the portal has been configured for the use of role filters.

#### WHAT INFORMATION IS NOT FILTERED BY A CONTENT FILTER?

When you open a diagram, all information is displayed unfiltered. You can also navigate using assignments.

Regardless of content filters, in the views assignments are filtered by hierarchy. In the classic view all assignments are shown, because all assigned models are stored in the group structure. In the default view, only assignments are shown that belong to the current hierarchy, for example, assignments from Value-added chain diagrams (VAC) to object of process models like EPCs, but no assignments to organizational charts.

#### WHAT INFORMATION IS FILTERED BY A CONTENT FILTER?

Filtered according to the selected role:

- All steps of the **Steps** view are displayed if you view processes step by step (page **Error! Bookmark not defined.**), but the detailed information about the satellites is filtered.
- Tables
- Fact sheets
- RACI matrices
- Search
- Navigation

### 4.1.12.21 What is ARIS Viewer Contribution?

If you have both the **ARIS Connect Viewer** and **Contribution** license privilege, you are able to change items and values for the following predefined items in the portal. 'Predefined' means that these items and their values were configured to be editable in the program by default.

This means that not all items of the following model and object types can be changed. Only those can be changed that were designed to be editable by the underlying concept and were set up accordingly by the configuration.

Please note that this is a sample configuration, which means that other items may have been configured to be editable in your installation.

#### MODEL TYPES

- Application system type diagram
- BPMN collaboration diagram (BPMN 2.0)
- BPMN process diagram (BPMN 2.0)
- Business controls diagram
- Enterprise BPMN collaboration diagram
- Enterprise BPMN process diagram
- EPC
- EPC (material flow)
- EPC (column display)
- EPC (table display)
- EPC (horizontal table display)
- EPC (row display)
- Function allocation diagram
- Organizational chart
- Process schedule
- Risk diagram
- KPI allocation diagram

#### OBJECT TYPES

- Application system
- Application system class
- Application system type
- Cluster/Data model
- Entity type
- Event
- Technical term
- Function

- Information carrier
- KPI instance
- Class
- Lane
- List
- Message
- Organizational unit
- Participant
- Person
- Risk
- Risk category
- Role
- Location
- Position
- System organizational unit
- System organizational unit type
- Test definition

## ATTRIBUTES

ARIS Viewer Contribution enables you to edit attributes (page 590) that are based on the following base types:


- Boolean
- Value
- Floating point number domain
- Integer domain
- Floating point number
- Integer
- Date
- One-liner
- Multi-line text
- Link/File

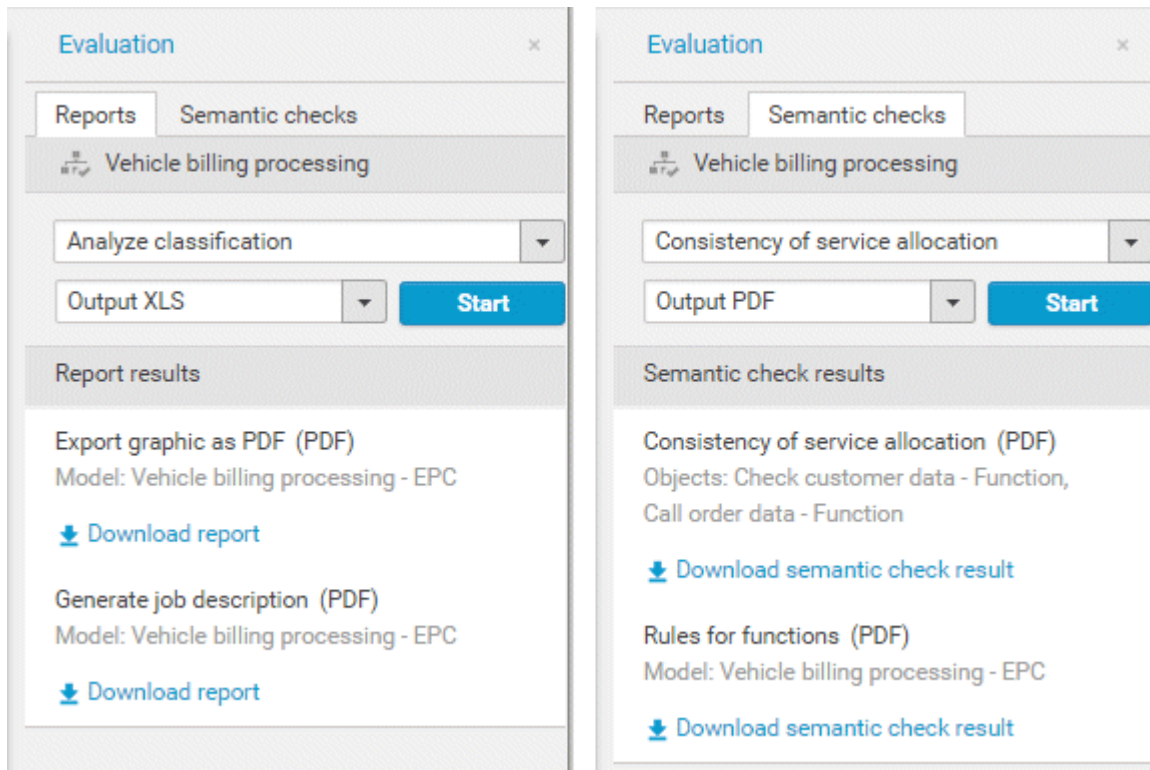
Text formatting is ignored and cannot be assigned. If you are expected to enter numbers, the field is colored red (page 590) if you do not enter a numerical value.

Please note that combined attributes and Binary Large Object (BLOB) attributes are not supported.

## 4.1.12.22 What reports are available?

The Evaluation bar provides various reports. Depending on the model type you have opened or the object type you have selected, the reports offered may vary because only the reports related to the corresponding model or object type are displayed.

Click  **Evaluation** in the bar buttons to show the **Reports** and **Semantic checks** tabs and generate reports (page 797) and semantic checks evaluations. and semantic checks (page 798).



Here is an excerpt from the list of available reports.

### REPORTS AVAILABLE FOR MODELS

**Create process manual (page 629)**

**Export graphic as PDF (page 630)**

**Generate job description (page 630)**

**Output functions across multiple assignment levels (page 632)**

**Output functions with connected objects (page 634)**

**Output model information (page 635)**

**Output model information considering various aspects (page 635)**

**Output object information (page 636)**

**Process manual (example) (page 637)**

**RA(S)CI - Output organizational participations in processes (page 638)**

## REPORTS AVAILABLE FOR OBJECTS

### Analyze classification

### Output object information

### Output occurrences of objects

## 4.1.12.22.1 Create process manual

### USE

This report outputs all data from the selected processes up to the selected assignment level.

### CONTEXT

Models of type:

- BPMN process diagram (BPMN 2.0)
- BPMN process diagram (BPMN 1.x)
- E-Business scenario diagram
- EPC
- EPC (material flow)
- EPC (column display)
- EPC (horizontal table display)
- EPC (table display)
- EPC (row display)
- Industrial process
- Office process
- Process schedule
- UML Activity diagram
- PCD
- PCD (material flow)
- Value-added chain diagram

### OUTPUT FORMAT

- PDF
- DOC
- DOCX
- ODT
- RTF

## 4.1.12.22.2 Export graphic as PDF

### USE

This report exports a model graphic as a PDF file.

### CONTEXT

Models

### OUTPUT FORMAT

PDF

## 4.1.12.22.3 Generate job description

### USE

Generates a job description for each selected organizational element and considers all processes and functions involved.

The following information can be output for each function:

- Organizational elements of the functions
- Data
- IT
- Improvement potential

If you start the report for models, only the modeled items are included. If you start the report for objects, all relevant object definitions are evaluated.

By default, the **carries out** connection is evaluated for the **Executing** relationship. The following connections are included for the **Participating** relationship:

- has consulting role in
- is IT responsible for
- is technically responsible for
- must be informed about
- must be informed on cancelation
- must inform about result of

Script administrators can change the content of the output.

If you output functional weak points, all information is output as for the job description. However, the selected organizational unit is listed along with all organizational units.

## CONTEXT

### MODELS OF TYPE

- EPC
- FAD
- Office process
- VACD

### OBJECTS OF TYPE

- Group
- Organizational unit
- Organizational unit type
- Person
- Role
- Location
- Position
- System organizational unit
- System organizational unit type

### OUTPUT FORMAT

- DOC
- XLS
- PDF
- DOCX
- ODT



## 4.1.12.22.4 Output functions across multiple assignment levels

### USE

Outputs the following information for the selected models:

- Functions across multiple assignment levels
- Functions across multiple assignment levels according to ISO certification

The model attributes, the group, and the model graphic are output for the models, while the standard items are output additionally in the case of an evaluation according to ISO certification.

### THE FOLLOWING INFORMATION IS OUTPUT FOR EACH MODEL EVALUATED

- Chapter number
- Model name
- Model type
- Function to which the model is assigned.
- Name of the group in which the model is saved.
- Specified model attributes
- Functions of the model are described in the order in which they are created within a partial path in the model. For each function, the chapter number and the name of the function are output.
- Model graphic (optional)
- Model type of the assigned models to be evaluated (optional)

Functions that occur in multiple models are only described once. Each subsequent occurrence in the report output contains a reference to this description.

### ASSIGNED MODELS ARE HANDLED AS FOLLOWS

- All functions with assignments are determined.
- If an assigned model is a function allocation diagram, the evaluation is performed in the same way as for associations within the selected model.
- From the set of remaining assignments, select one to be examined in more detail. You can choose your own prioritization, e.g., based on the model type. In turn, all functions are analyzed for the assigned model.

You have the option of restricting the report output by specifying the assignment level to be analyzed in detail. For each assignment outside this range, the report output shows only the model name and type.

### OUTPUT

The output is created as text incorporating tables for the model and object information and is divided into chapters. The **REPORT1** to **REPORT4** styles are used for chapter headings. This enables you to create tables of contents in the output documents.

At the first level, the output is structured based on the models you have selected. The structural level is increased by one if the assigned model is a model with control flow. For all other assigned models, the structural level remains unchanged.

The descriptions of the functions in a model can be sorted numerically, alphabetically, by symbol type, or topologically. If you select numerical sorting, the functions in a model should be numbered. The numbering of a function uses the number specified in the **Type 1** attribute type in the **Function type** attribute type group.

The attributes, relationships, and assigned models for which the types can be determined are evaluated. Like selected models, the assigned models are evaluated up to a configurable structural level.

If you selected the topological sort criterion, the report output may contain additional information depending on the model class of the model in question.

The following table provides an overview of the model classes in question and the resulting special features of the output with topological sorting:

Model class	Special feature
<b>Directed graph with associations</b>	Beginning and end of process, as well as start and end of path.
<b>Hierarchy</b>	Chapter numbers of functions reflect the position of the object in the model hierarchy.
<b>Central object type</b>	If the model described is a function allocation diagram, the structural level in the report output is not increased. The allocations are described at the level of the object to which the model is assigned.
<b>Process selection matrix</b>	The scenarios in a process selection matrix and the processes assigned to them are evaluated in the same way as function trees, with the scenario taking on the function of the root. Main processes are not included.

## CONTEXT

Model

## OUTPUT FORMAT

- PDF
- DOC
- DOCX
- ODT
- RTF
- HTML

## 4.1.12.22.5 Output functions with connected objects

### USE

Outputs the model attributes, the model graphic, and the functions including the objects connected to them for the selected process models.

Optionally, you can select the following connected objects:

- Organizational elements
- Executing organizational elements
- Data elements (input/output data)
- Supporting application systems

You can specify the evaluation direction between the functions and the connected objects. In addition, you can also evaluate assigned function allocation diagrams.

### CONTEXT

Models of type:

- EPC (event-driven process chain)
- EPC (column display)
- EPC (horizontal table display)
- EPC (table display)
- EPC (material flow)
- EPC (row display)
- Industrial process
- Office process
- PCD (process chain diagram)
- PCD (material flow)
- UML Activity diagram
- VACD (value-added chain diagram)

### OUTPUT FORMAT

- RTF
- PDF
- HTML
- TXT
- DOC
- XLS

## 4.1.12.22.6 Output model information

### USE

Outputs information about the selected models, the objects contained in the model, and the relationships of the objects in the model. Apart from name and type, the groups, additional attributes, and model graphic can also be output.

For object relationships, you can also output the name and type of the target object.

### CONTEXT

Models

### OUTPUT FORMAT

- RTF
- PDF
- HTML
- TXT
- DOC
- XLS

## 4.1.12.22.7 Output model information considering various aspects

### USE

Outputs model information including group structure as an Excel table.

A worksheet is created for each aspect. The worksheet lists all models in which the relevant aspect occurs.

The following aspects can be output:

- Data
- IT
- Organizational elements
- Targets/KPIs
- Products/Services
- Risks
- Others

For each aspect, the related functions can be listed, as well. Individual or integrated evaluations can be carried out for function allocation diagrams (FAD). For integrated evaluations, the functions from the FAD are integrated in the model.

**CONTEXT**

Models and groups

**OUTPUT FORMAT**

- XLS
- XLSX

## 4.1.12.22.8 Output object information

**USE**

Outputs the relationships and target objects at definition level for the selected objects. Optionally, you can output the groups and the attributes for both the source and target objects. The output is in table format.

**CONTEXT**

Object

**OUTPUT FORMAT**

- RTF
- PDF
- HTML
- DOC
- XLS
- DOCX
- ODT

## 4.1.12.22.9 Process manual (example)

### USE

This report script is a sample created in ARIS Architect in the design view. It shows how to create report scripts in ARIS Architect without having programming knowledge.

### CONTEXT

Objects

### OUTPUT FORMAT

- PDF
- DOC
- DOCX
- ODT
- RTF

## 4.1.12.22.10 RA(S)CI - Output organizational participations in processes

### USE

This report supplies information on which organizational elements participate in the activities (functions) of a process and in what manner. Organizational responsibilities and participations are output in a matrix.

The report returns plausible results if your processes and the organizational responsibilities for the individual activities conform with the modeling conventions required.

RA(S)CI stands for **R**esponsible, **A**ccountable, (**S**upportive), **C**onsulted, **I**nformed.

By default, this report does not return any **Supportive** information. To output this information, your script administrator must set the **g\_brASCII** variable to **true**.

The matrix shows which organizational unit participates in activities of a process and in what manner:

- **Responsible** indicates who assumes execution responsibility. It shows who is responsible for performing an activity and who actually performs it, but also who assumes the disciplinary responsibility. Execution responsibility must be assigned to at least one role, although others (see **Supportive**) can be delegated to assist in the work required.
- **Accountable** identifies the person ultimately answerable for the correct and thorough completion of a task. Thus, 'Accountable' may be the one in charge of managing the costs, i.e., the one who assumes project budget responsibility. The **decides on** and **accepts** connections are evaluated in order to mark this responsibility.
- **Supportive** relates to the person supporting the person responsible (see 'Responsible') in performing the activity.
- **Consulted** shows who has a consulting role. This organizational unit - typically a group of subject matter experts - is asked for advice prior to a final decision being made or a final action being taken.
- **Informed** specifies who must be informed. It indicates who is kept up to date on the progress or completion of a task.

In the RACI matrix, RACI data is displayed under the following conditions:

- The connections are used in the selected process model.
- The connections are used in a function allocation diagram that is assigned to a function of the selected process model.

The result of the report is an Excel workbook containing several tables. Each process model included creates a table. The first table consists of a full list of the functions and organizational units of the process models included.

Process steps	Function	Financial assistant	Financial clerk	Accountant
Vehicle billing (as-is)	Allow for discounts	R		I
Vehicle billing (as-is)	Call order data	R, A		
Vehicle billing (as-is)	Change customer	R		
Vehicle billing (as-is)	Change order data		R	
Vehicle billing (as-is)	Check customer data	R		
Vehicle billing (as-is)	Check order data	R	R	
Vehicle billing (as-is)	Enter payment type		R	
Vehicle billing (as-is)	Have customer	R		
Vehicle billing (as-is)	Print invoice		R	
Vehicle billing (as-is)	Send invoice		R	I
Vehicle billing (as-is)	Transfer data to		R	

## CONTEXT

- Individual process
- List of processes
- Process hierarchy


## OUTPUT FORMAT

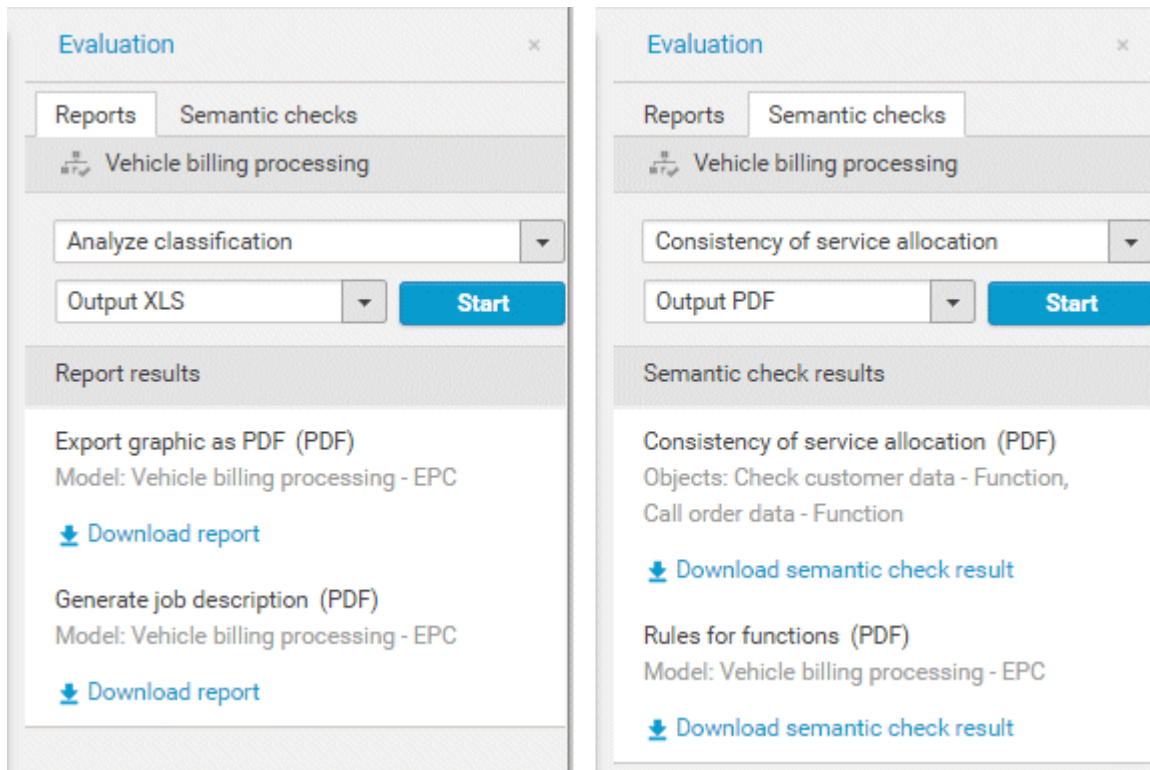
- XLS



### 4.1.12.23 What output formats exist?

You can change the output format on the **Reports** or **Semantic checks** tab of the **Evaluation** bar by clicking the down arrow. The selection of output formats may be restricted based on the report or semantic check. Possible output formats are:

Click  **Evaluation** in the bar buttons to show the **Reports** and **Semantic checks** tabs and generate reports (page 797) and semantic checks evaluations. and semantic checks (page 798).



PDF  
 DOC  
 DOCX  
 ODT  
 RTF  
 HTML  
 TXT  
 XLS  
 XLSX  
 XML

#### **4.1.12.24 What is ARIS Aware (Dashboards)?**

You can use the product ARIS Aware as visualizing component of ARIS Connect. Using ARIS Aware enables you to combine information from many sources and visualize data as KPIs by means of dashboards. ARIS Aware supports users in various departments across the enterprise by providing dashboards for evaluating a wide variety of data. It improves the transparency of the business and enables you to make the best decisions based on reliable data analyses. ARIS Aware is equipped with ready-to-go templates for common scenarios in the context of business process management, including Center of Excellence (CoE) (page 643), Business Usage Monitoring (page 672), Enterprise Architecture Management (page 683), Customer Experience Management (CXM) (page 660), Process Performance Management, and Governance Risk and Compliance Management. These templates can be extended and customized according to the individual requirements of a company.

#### **4.1.12.25 What are the areas relevant to ARIS Aware?**

You can use ARIS Aware to create dashboards and data feeds, store data, read data, configure dashboards, and show dashboards.

In the following, the data collection via reports is described. There are also other ways of collecting data, e. g., via data files that are manually uploaded to ARIS document storage (page 857).

##### **CREATE DASHBOARDS AND DATA FEEDS**

You can create and connect dashboards (page 116) and data feeds (page 117). Dashboards and data feeds are stored on the server you defined.

##### **STORE DATA**

Database information to be compiled for dashboard display is gathered by different reports.

For some reports parameters can be specified. These parameterized reports are to be started frequently using report schedules. This keeps the dashboards up to date. The scheduled reports themselves trigger related reports. Each report collects specific pieces of information. The results are stored in ARIS document storage as XML report output files. These pieces of information are formed into dashboards. That is why dashboards correlate very closely to the set of executed reports.

##### **READ DATA**

Data that is to be displayed in a dashboard is loaded from the ARIS document storage database and combined with ARIS attributes extracted from the XML files that are stored in the ARIS document storage database as well.

## CONFIGURE DASHBOARDS

Dashboards can be configured for different items to be shown in different views in the ARIS Connect portal and in Collaboration.

## SHOW DASHBOARDS

Dashboards can be shown in different views in the portal and collaboration. You can use the supplied database United Motor Group to show various dashboards (page **Error! Bookmark not defined.**).

## 4.1.12.26 What dashboards are available by default?

ARIS Aware offers many demo dashboards by default. The predefined dashboards consist of charts or tables that show the results of various visual analyses of the **United Motor Group** database content.

### 4.1.12.26.1 Dashboards using Center of Excellence (CoE) data

Here you can find information about Center of Excellence dashboards delivered by default. Consequently, the dashboards provide information about leadership and best practice for the focus area business concept via Business Process Modeling.

#### 4.1.12.26.1.1 CoE - Aggregated Maturity - Overview

This dashboard is shown on the **Overview** fact sheet of process models. It shows an aggregated view of all process models based on hierarchy of models in the ARIS Connect configuration. That is, starting with the top-level model, e.g., a value-added chain diagram, and ending with the process model of the lowest level, e.g., an EPC of level 4. The progress of models that are at a lower level of the hierarchy is weighted with(?) 70 % by default.

#### CHARTS

##### **Aggregated processes maintaining progress**

Overview of the percentage of mandatory data (attributes) which has been maintained.

##### **Data source**

ARIS Architect:

Report: CoE - Aggregated maturity level

##### **Report configurable?**

Yes

##### **Data collection**

Context - process model:

Collection of all processes in the hierarchy starting from the top level model, e.g. Value-added chain, down to the last level process model, e.g. Level 4 EPC, and evaluation of all mandatory properties in aggregated way.

##### **Data feed**

CoE - Aggregated maturity level

##### **Calculation**

Aggregated progress of the mandatory attributes calculated for all process models in the hierarchy. The calculation is based on the mandatory attributes to be maintained, e.g., person responsible, validity date etc. Hereby, the progress of the subordinate result (children in the hierarchy) is weighted with 70% by default.

### **Aggregated model count for current process**

Shows how many processes are modeled in the corresponding hierarchy level.

#### **Data source**

ARIS Architect:

Report: CoE - Aggregated maturity level

#### **Report configurable?**

No

#### **Data collection**

Context - process model:

Collection and count of all processes in the hierarchy.

#### **Data feed**

CoE - Number of process models

#### **Calculation**

Aggregated number of processes in the hierarchy level.

### **Process release rate**

Shows the aggregated release progress considering the aggregated value of the property **Model status**.

#### **Data source**

ARIS Architect:

Report: CoE - Aggregated maturity level

#### **Report configurable?**

Yes

#### **Data collection**

Context - process model:

Collection of all processes in the hierarchy and consideration of the aggregated value of the property **Model status**.

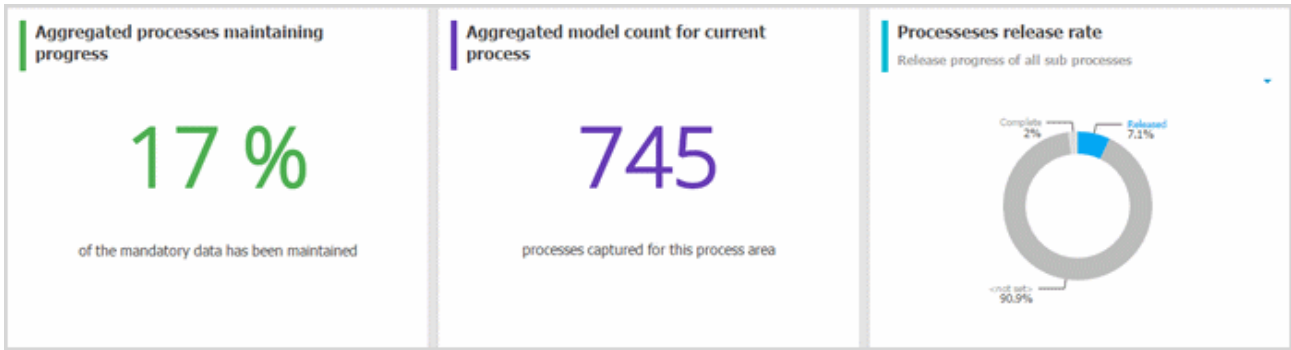
#### **Data feed**

CoE - Model status

#### **Calculation**

Aggregation of the property **Model status** in the hierarchy level.

EXAMPLE



## 4.1.12.26.1.2 CoE - Aggregated Maturity - Diagram

This dashboard is shown on the **Diagram** fact sheet of process models. It shows an aggregated view of all process models based on hierarchy of models in the ARIS Connect configuration. That is, starting with the top-level model, e.g., a value-added chain diagram, and ending with the process model of the lowest level, e.g., an EPC of level 4. The progress of models that are at a lower level of the hierarchy is weighted with(?) 70 % by default.

### CHARTS

#### **Aggregated processes specification progress**

Overview of the percentage of mandatory data (attributes) which has been maintained.

#### **Data source**

ARIS Architect:

Report: CoE - Aggregated maturity level

#### **Report configurable?**

Yes

#### **Data collection**

Context - process model:

Collection of all processes in the hierarchy starting from the top level model, e.g. Value-added chain, down to the last level process model, e.g. Level 4 EPC, and evaluation of all mandatory properties in aggregated way.

#### **Data feed**

CoE - Aggregated maturity level

#### **Calculation**

Aggregated progress of the mandatory attributes calculated for all process models in the hierarchy. The calculation is based on the mandatory attributes to be maintained, e.g., person responsible, validity date etc. Hereby, the progress of the subordinate result (children in the hierarchy) is weighted with 70% by default.

#### **Mandatory properties summary**

Shows all mandatory properties and lists the number of properties not specified for each property.

#### **Data source**

ARIS Architect:

Report: CoE - Aggregated maturity level

#### **Report configurable?**

Yes

#### **Data collection**

Context - process model:

Collection of all mandatory properties in the hierarchy.

**Data feed**

CoE - Mandatory attributes

**Calculation**

Aggregation of the mandatory properties in the hierarchy level.

**Process age distribution**

Shows the aggregated process model age distribution (how long process models have been unchanged) based on the **Last change** property.

**Data source**

ARIS Architect:

Report: CoE - Aggregated maturity level

**Report configurable?**

Yes

**Data collection**

Context - process model

Collection of the **Last change** property for all process models in the hierarchy.

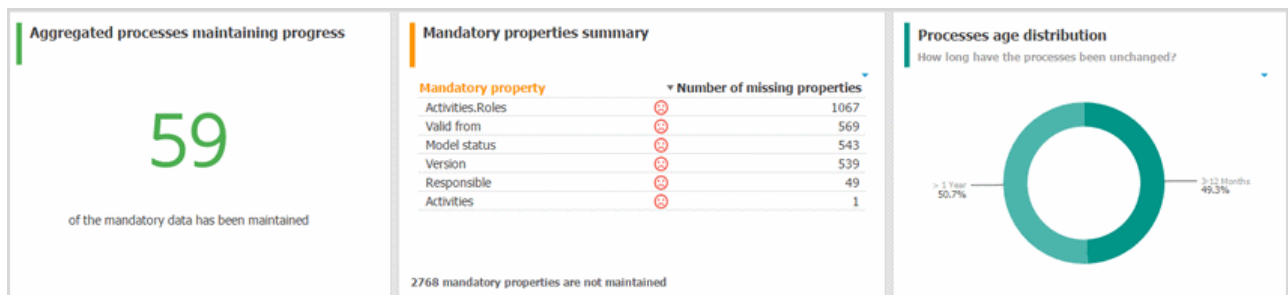
**Data feed**

CoE - Model age

**Calculation**

Aggregation of the **Last change** property in the hierarchy level.

**EXAMPLE**





### 4.1.12.26.1.3 CoE - Local Maturity

This dashboard is shown for selected process models and organizational charts.

#### CHARTS

##### Total change request count

Shows the number of change requests submitted for a specific model via the **Submit Change request for model** mini workflow.

##### Data source

ARIS Architect:

Report: CoE - Governance

##### Report configurable?

Yes

##### Data collection

Context - model:

Collection of the number of all change requests started on the context of this model.

##### Data feed

CoE - Process Instances (Change Request)

##### Calculation

Calculation of the number of change requests where this model was selection context (by default using the using the **Submit Change request for model** mini workflow).

##### Mandatory rules semantic check

Shows the result of the **Mandatory semantic checks** semantic check as a symbol.

##### Data source

ARIS Architect:

Report: CoE - Local and global maturity level

##### Report configurable?

Yes

##### Data collection

Context - model:

Collection of the result of the configured semantic check.

##### Data feed

CoE - Local maturity - Conventions

##### Calculation

Collection of the result of the configured semantic check - by default the **Mandatory semantic check** semantic check with the result **SUCCESSFUL** or **FAILED**.

## Mandatory properties

Identifies the number of mandatory properties specified and compares it with the total number of mandatory properties. The default mandatory attributes include Model status, Person responsible, Version, Validity, and Activities.

### Data source

ARIS Architect:

Report: CoE - Local and global maturity level

### Report configurable?

Yes

### Data collection

Context - model:

Collection of the statuses of the mandatory attributes - whether they are maintained or not.

### Data feed

CoE - Local maturity - Conventions

### Calculation

Collection of the statuses of the mandatory attributes - whether they are maintained or not.

## EXAMPLE



## 4.1.12.26.1.4 CoE - Global Maturity

This dashboard provides different types of information on all process models and organizational charts within a database.

### CHARTS

#### Validity date status

Overview of the validity date of the models in the database. Shows when models will expire based on the entered **Validity** attribute value.

#### Data source

ARIS Architect:

Report: CoE - Local and global maturity level

#### Report configurable?

Yes

#### Data collection

Context - database:

Collection of all models of the database and evaluation and grouping their validity dates into following categories:

- **undefined**: no validity date is maintained
- **next 5 days**: validity date is next week
- **next 14 days**: validity date is within the next two weeks
- **next 30 days**: validity date is within the next 30 days
- **later**
- **expired**: validity date is in the past

#### Data feed

CoE - Validity date

#### Calculation

Collection of all models of the database and evaluation and grouping their validity dates into following categories:

- **undefined**: no validity date is maintained
- **next 5 days**: validity date is next week
- **next 14 days**: validity date is within the next two weeks
- **next 30 days**: validity date is within the next 30 days
- **later**
- **expired**: validity date is in the past

### Validity date overview

Lists the process models and organizational charts in a table and shows the expiration status for each model based on the value of the **Validity** attribute.

#### Data source

ARIS Architect:

Report: CoE - Local and global maturity level

#### Report configurable?

Yes

#### Data collection

Context - database:

Collection of all models of the database and evaluation and grouping their validity dates.

#### Data feed

CoE - Validity date

#### Calculation

Collects the value of the **Validity** attribute for every model in a table.

### Processes with the most shares

Shows the models which have been shared most frequently using the **Share model** mini workflow.

#### Data source

ARIS Architect:

Report: CoE - Governance

#### Report configurable?

Yes

#### Data collection

Context - APG:

Collection of the number of all instances of the **Share model** mini workflow.

#### Data feed

CoE - Process Instances (Share)

#### Calculation

Collection of the number of all instances of the **Share model** mini workflow and display of the seven top models which are the most frequently selected context of the mini workflow.

### Owners with the highest process responsibilities

Shows the seven responsible persons having most process models in their responsibility (maintained as **Person responsible** attribute value for these models).

#### Data source

ARIS Architect:

Report: CoE - Local and global maturity level

#### Report configurable?

Yes

#### Data collection

Context - database:

Collection of all models in the database and evaluation of their process owners.

#### Data feed

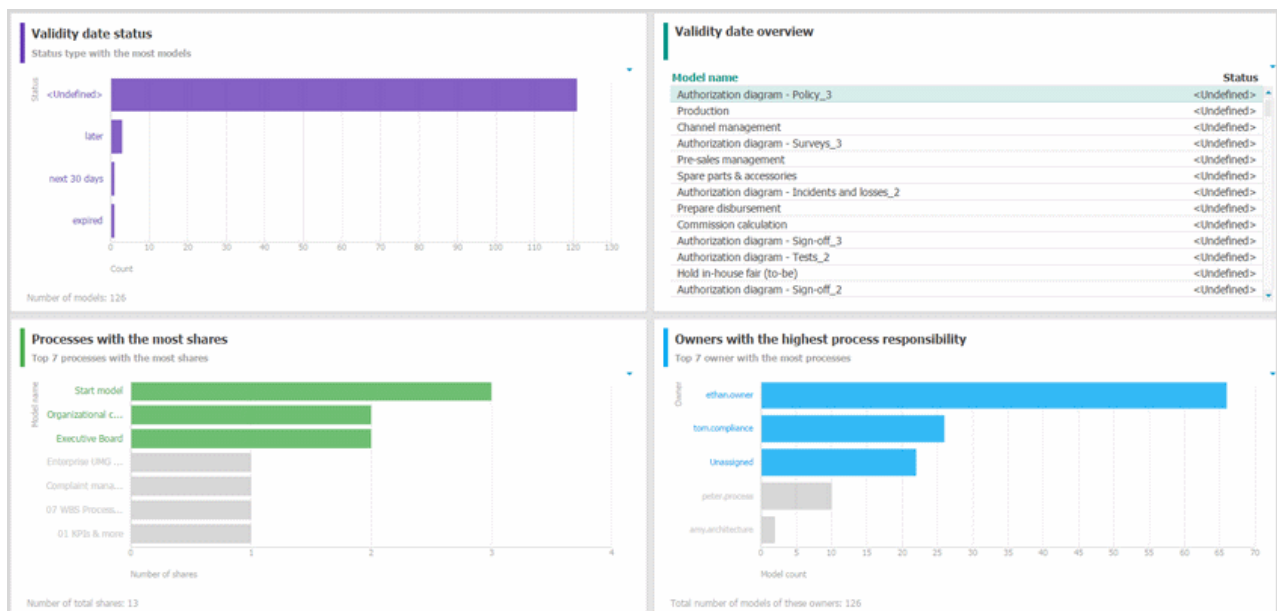
CoE - Process Owners

#### Calculation

Collection of all models in the database and evaluation and count of the most frequent process owners maintained as **Person responsible** attribute value.

By default the top 7 owners with the most models are shown. This can be configured.

### EXAMPLE



## 4.1.12.26.1.5 CoE - Process Change Management

The dashboard shows governance information based on Process Governance.

### CHARTS

#### Processes with pending change requests

Shows the processes with change requests in the **running** and **completed** status. This is based on the **Submit change request** mini workflow.

#### Data source

ARIS Architect:

Report: CoE - Governance

#### Report configurable?

Yes

#### Data collection

Context - APG:

Collection of all process instances of **Submit change request** mini workflow and grouping them into the following categories:

- RUNNING (pending change requests)
- COMPLETED (realized change requests)

#### Data feed

CoE - Process Instances (Change Request)

#### Calculation

Collection of the number of all instances of **Submit change request** mini workflow (by default) and grouping them by status RUNNING or COMPLETED. The ID of the workflow to be considered can be configured.

#### Change requests count

Shows the increase or decrease in the number of change requests within three months based on the submission date of change requests submitted for models via the **Submit change request** mini workflow.

Shows the number of overall change requests in the system based on the **Submit change request** mini workflow for models.

#### Data source

ARIS Architect:

Report: CoE - Governance

#### Report configurable?

Yes

#### Data collection

Context - APG:

Collection of the number of all instances of the **Submit change request** mini workflow for models.

**Data feed**

CoE - Process Instances (Change Request)

**Calculation**

Collection of the number of all instances of the **Submit change request** mini workflow for models (by default). The ID of the workflow to be considered can be configured.

**Process change requests over time**

Shows the top seven models with the highest number of pending change requests.

Timeline of the change requests over time based on the assignment date of the **Submit change request** mini workflow for models.

**Data source**

ARIS Architect:

Report: CoE - Governance

**Report configurable?**

Yes

**Data collection**

Context - APG:

Collection of the assignment date of all instances of the **Submit change request** mini workflow for models.

**Data feed**

CoE - Process Instances (Change Request)

**Calculation**

Collection of the assignment date of all instances of the **Submit change request** mini workflow for models (by default) and count per date. The ID of the workflow to be considered can be configured.

**Processes with pending change requests**

Shows the processes with the most change requests based on the **Submit change request** mini workflow for models by default.

**Data source**

ARIS Architect:

Report: CoE - Governance

**Report configurable?**

Yes

**Data collection**

Context - APG:

Collection of all instances of the **Submit change request** mini workflow for models.

**Data feed**

CoE - Process Instances (Change Request)

**Calculation**

Collection of all instances of the **Submit change request** mini workflow for models (by default) which are in the **RUNNING** status and evaluation of their context (the models on which the change requests have been started). Display of the top 7 of these models.

**Process owners with most change requests**

Shows the top seven process owners with the highest number of assigned change requests that are still pending.

**Data source**

ARIS Architect:

Report: CoE - Governance

**Report configurable?**

Yes

**Data collection**

Context - APG:

Collection of all instances of the **Submit change request** mini workflow for models.

**Data feed**

CoE - Process Instances and Human Tasks (Change Request)

**Calculation**

Collection of all instances of the **Submit change request** mini workflow for models (by default) which are in the **RUNNING** status and evaluation of the number of requests per owner (the responsible person for the model on which the change request has been submitted). Display of the top 7 process owners. The ID of the workflow to be considered can be configured.

**Processes in realization step (request state) and Summary of change requests**

Shows both, the processes in realization step (request state) and summary of change requests. Both charts depend on each other.

**Data source**

ARIS Architect:

Report: CoE - Governance

**Report configurable?**

Yes

**Data collection**

Context - APG:

Collection of all instances of the **Submit change request** mini workflow for models.

**Data feed**

CoE - Process Instances and Human Tasks (Change Request)



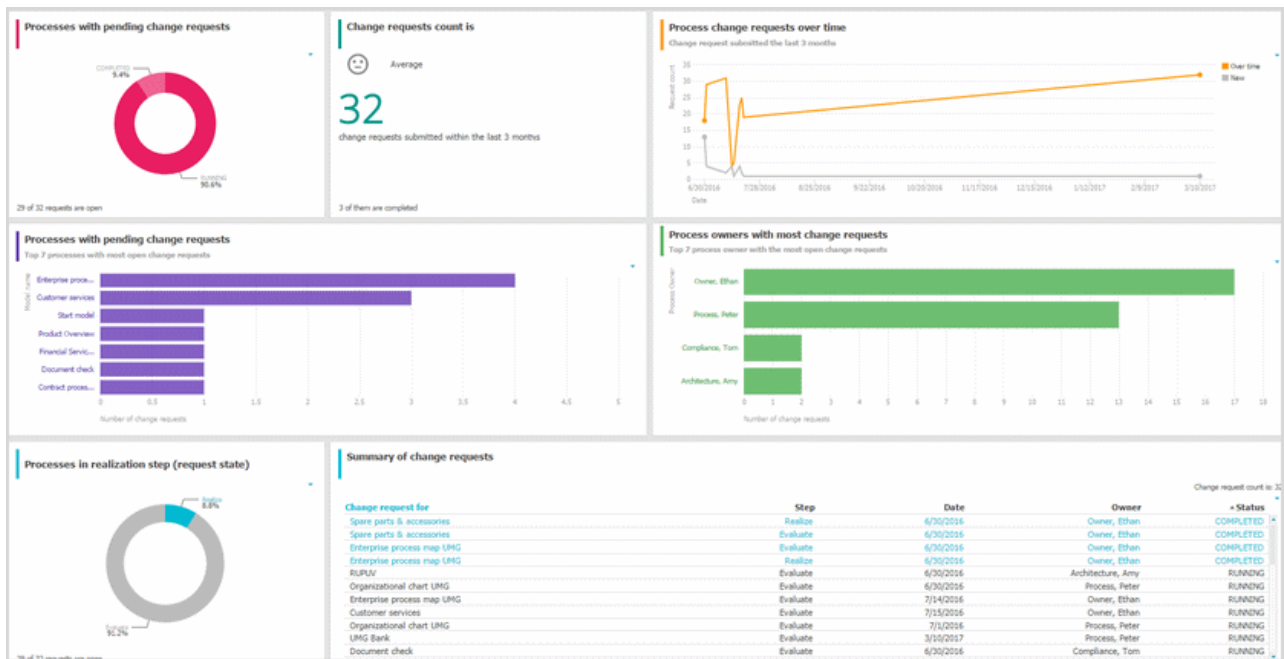
### Calculation

Collection of all instances of the **Submit change request** mini workflow for models (by default) and display of the details:

- The name of the model for which the change request has been submitted.
- The current active step in the mini workflow (evaluation step: change request not yet evaluated or realization step: change request has been evaluated and is now being realized).
- The assignment date of the change request (start date of the process instance).
- The owner of the human task - the person to which this task has been assigned.
- The change request status (RUNNING or COMPLETED).

The ID of the workflow to be considered can be configured.

### EXAMPLE



## 4.1.12.26.1.6 CoE - Human Tasks

This dashboard shows overall governance information about the human tasks submitted via Process Governance

### CHARTS

#### Human task count

Shows the total number of human tasks regardless of the Process Governance process they belong to. It includes, e.g., the human tasks belonging to the **Submit change request** and **Inform owner of change** mini workflow, but also the ones from custom APG workflows.

The **CoE - Human tasks** dashboard can be filtered either based on database and model context, or based on task-related information, such as status and priority.

#### Data source

ARIS Architect:

Report: CoE - Governance

#### Report configurable?

No

#### Data collection

Context - APG:

Collection of the number of all human tasks in APG.

#### Data feed

CoE - Process Instances and Human Tasks

#### Calculation

Collection of the number of all human tasks in APG.

#### Human tasks over time

Shows the timeline of the human tasks based on their creation date.

The **CoE - Human tasks** dashboard can be filtered either based on database and model context, or based on task-related information, such as status and priority.

#### Data source

ARIS Architect:

Report: CoE - Governance

#### Report configurable?

No

#### Data collection

Context - Process Governance:

Collection of the creation date of all human tasks in Process Governance.

#### Data feed

CoE - Process Instances and Human Tasks

## Calculation

Collection of the creation date of all human tasks in Process Governance.

## List of human tasks

Lists all human tasks including specific details such as priority, creation date, status, and participant.

The **CoE - Human tasks** dashboard can be filtered either based on database and model context, or based on task-related information, such as status and priority.

## Data source

ARIS Architect:

Report: CoE - Governance

## Report configurable?

No

## Data collection

Context - APG:

Collection of all human tasks in APG and their details.

## Data feed

CoE - Process Instances and Human Tasks

## Calculation

Collect all human tasks in APG and display of the details:

- **Human task name** (as it appears in Process Board)
- **Human task priority** (HIGH, LOW, NORMAL)
- Creation date of the human task
- Human task status (ACTIVE or COMPLETED)
- Human task participant (the user to whom the human task is assigned)
- Item (the selection context for this human task, e.g., the model for which change request has been submitted or for which the approval has been initiated)
- Description (the human task description as it appears in Process Board)
- Database (in which the workflow has been started to which the human task belongs to)

EXAMPLE

Date

From

To

Task

Task name

Task status

Priority

Context

Item Name

Database

**Human task count is**

Average

34

1 of them have a high priority

5 of them are completed

**Human tasks over time**

**List of human tasks**

Human task	Priority	Created	* Status	Participant	Item	Description	Database
Realize change request for model [Spare parts & accessories] Process int...	NORMAL	2016-06-30	COMPLETED	Owner, Ethan	Spare parts & accessories	please adapt	United Motor Group
Change request for model [Spare parts & accessories] Process interfaces ...	NORMAL	2016-06-30	COMPLETED	Owner, Ethan	Spare parts & accessories	please adapt	United Motor Group
Change request for model [Enterprise process map UMG] Missing unit in ...	NORMAL	2016-06-30	COMPLETED	Owner, Ethan	Enterprise process map UMG	Please adapt to the current state	United Motor Group
Realize change request for model [Enterprise process map UMG] Missing...	NORMAL	2016-06-30	COMPLETED	Owner, Ethan	Enterprise process map UMG	Please adapt to the current state	United Motor Group
Change request for model [Product Overview] Financial Services should b...	NORMAL	2016-06-30	COMPLETED	Owner, Ethan	Product Overview	please change	United Motor Group
Change request for model [RUPUV] Typos in descriptions	NORMAL	2016-06-30	ACTIVE	Architecture, Amy	RUPUV	please correct	United Motor Group
Change request for model [Enterprise process map UMG] Missing attribu...	NORMAL	2016-07-14	ACTIVE	Owner, Ethan	Enterprise process map UMG	have to be maintained	United Motor Group
Change request for model [Customer process] Missing...	NORMAL	2016-07-14	ACTIVE	Owner, Ethan	Customer process	please add	United Motor Group

## 4.1.12.26.2 Dashboards using Customer Experience Management (CXM) data

Available dashboards using content that is retrieved from Customer Experience Management (CXM)-related models.

### 4.1.12.26.2.1 Customer experience

Dashboard providing an overall overview of how customers experience their interaction with the company during a so-called customer journey. This dashboard includes various charts that look at the customer experience from different angles.

#### CHARTS

##### Number of affected internal processes

Number of internal processes that include customer touchpoints of the **Pain point**, **Moment of truth**, or **Best practice** type.

##### Data source

ARIS Architect:

Report: CXM - Analyze customer experience

##### Report configurable?

No

##### Data collection

Context: **Customer journey landscape** model type.

Retrieves customer touchpoint data from all customer journeys contained in customer journey maps that are assigned to a selected model of the Customer journey landscape type. Identifies the customer touchpoints of each customer journey map and:

- checks whether the customer touchpoints have a connection to an internal process.
- counts all customer touchpoints that have a connection to an internal process.
- checks whether the **Pain point** attribute is specified for any of the touchpoints.
- counts the customer touchpoints for which the value of the **Pain point** attribute type is set to **true**.
- checks whether the **Moment of truth** attribute is specified for any of the touchpoints.
- counts the customer touchpoints for which the value of the **Moment of truth** attribute type is set to **true**.
- checks whether the **Best practice** attribute is specified for any of the touchpoints.
- counts the customer touchpoints for which the value of the **Best practice** attribute type is set to **true**.

##### Data feed

CXM - Analyze customer experience

### Calculation

Number of internal processes that include customer touchpoints of the **Pain point**, **Moment of truth**, or **Best practice** type.

### Percentage of critical customer touchpoints

Overview of the percentage of critical customer touchpoints.

### Data source

ARIS Architect:

Report: CXM - Analyze customer experience

### Report configurable?

No

### Data collection

-.-

### Data feed

CXM - Analyze customer experience

### Calculation

Number of customer touchpoints for which the **Moment of truth** attribute type is specified over the aggregated number of customer touchpoints multiplied by 100.

### Overall customer experience

Percent distribution of customer feelings calculated for an entire customer journey landscape.

### Data source

ARIS Architect:

Report: CXM - Analyze customer experience

### Report configurable?

No

### Data collection

Context: **Customer journey landscape** model type.

Data are retrieved from all customer journeys that are related to a selected model of the **Customer journey landscape** type.

All customer touchpoints contained in the customer journey maps assigned to the selected customer journey landscape are retrieved. The following data is counted:

- All customer touchpoints for which the **Customer feeling** attribute is specified as **Positive**.
- All customer touchpoints for which the **Customer feeling** attribute is specified as **Neutral**.
- All customer touchpoints for which the **Customer feeling** attribute is specified as **Negative**.

### Data feed

CXM - Overall customer experience

### Calculation

Aggregated number of values (Positive, Neutral, Negative) retrieved from the **Customer feeling** attribute.

### Customer journeys creating a good customer experience

Top seven customer journeys creating a good customer experience.

### Data source

ARIS Architect:

Report: CXM – Analyze customer journeys

This report answers the following questions:

- Which customer journey is the most critical?
- Which customer lifecycle
- Which stage is the most critical?

The report provides various parameters allowing customizing without changing the report code.

### OUTPUT

Generates the **CXM\_ANALYZE\_CUSTOMER\_JOURNEYS.XML** document stored in ARIS document storage. The **Analyze customer journeys (TOP 7)** document is stored in this subfolder: ARIS document storage/Dashboarding/<database name; default=United Motor Group>/EA.

The report result is used as input for the **CXM - Analyze customer journeys** data feed. This data feed is related to the the **Customer experience** CXM dashboard (page 660).

### CONTEXT

Database

### Report configurable?

No

### Data collection

Context: **Customer journey landscape** model type.

Data are retrieved from all customer journeys that are related to a selected model of the **Customer journey landscape** type.

All customer touchpoint contained in customer journey maps are retrieved, and all customer touchpoints for which the value of the **Customer feeling** attribute type is set to **Positive** are counted.

### Data feed

CXM - Analyze customer journeys

### Calculation

Number of customer touchpoints for which the **Customer feeling** attribute type is set to **Positive** over the number of customer touchpoints per customer journey.

## Customer journeys creating a bad customer experience

Top seven customer journeys creating a bad customer experience.

### Data source

ARIS Architect:

Report: CXM – Analyze customer journeys

This report answers the following questions:

- Which customer journey is the most critical?
- Which customer lifecycle
- Which stage is the most critical?

The report provides various parameters allowing customizing without changing the report code.

### OUTPUT

Generates the **CXM\_ANALYZE\_CUSTOMER\_JOURNEYS.XML** document stored in ARIS document storage. The **Analyze customer journeys (TOP 7)** document is stored in this subfolder: ARIS document storage/Dashboarding/<database name; default=United Motor Group>/EA.

The report result is used as input for the **CXM - Analyze customer journeys** data feed. This data feed is related to the the **Customer experience** CXM dashboard (page 660).

### CONTEXT

Database

### Report configurable?

No

### Data collection

Context: **Customer journey landscape** model type.

Data are retrieved from all customer journeys that are related to a selected model of the **Customer journey landscape** type.

All customer touchpoints contained in customer journey maps are retrieved, and the customer touchpoints for which the value of the **Pain point** attribute type is set to **true** are counted.

### Data feed

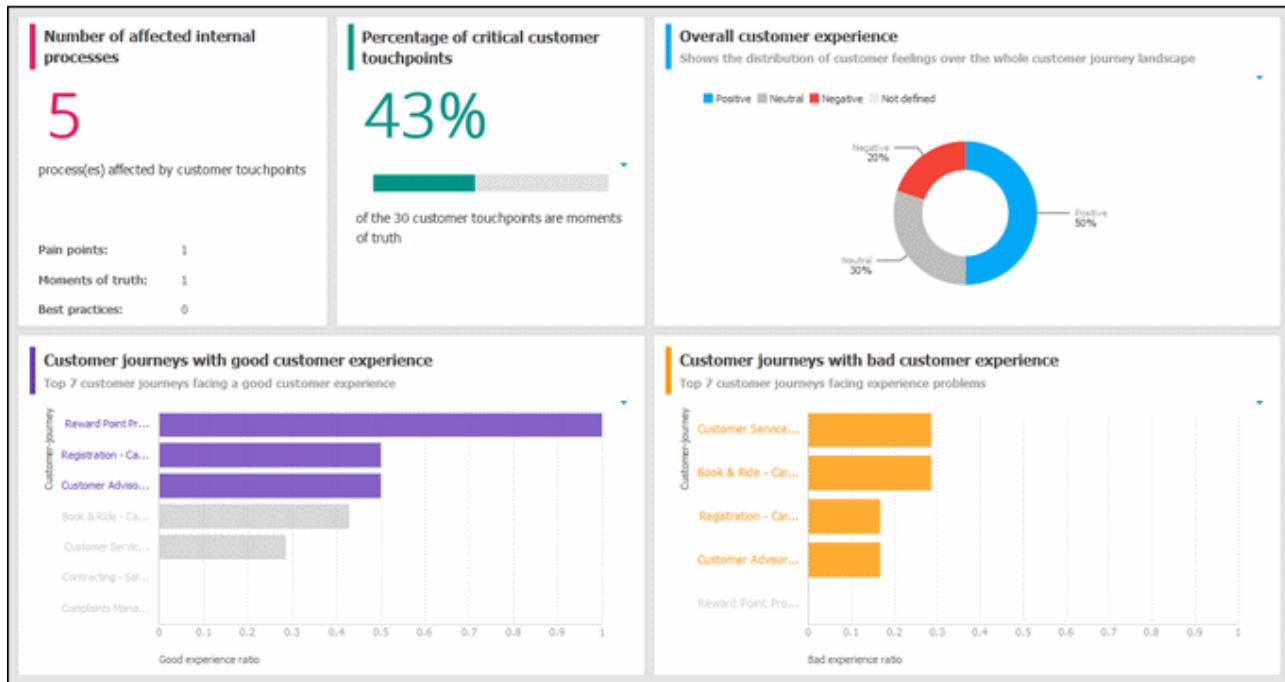
CXM - Analyze customer journeys

### Calculation

Number of customer touchpoints for which the **Pain point** attribute type is specified over the number of customer touchpoints per customer journey.



EXAMPLE



## 4.1.12.26.2 Responsibilities

Customer experience dashboard evaluating business units and channels.

### CHARTS

#### **Business units associated with a good customer experience**

Top seven business units associated with a good customer experience.

#### **Data source**

ARIS Architect:

Report: CXM - Responsibility (Ownership)

#### **Report configurable?**

No

#### **Data collection**

Context: **Customer journey landscape** model type.

Starting from the selected customer journey landscape, all owners specified in the **Ownership** row and their associated customer touchpoints are retrieved from all assigned customer journey maps. Checks whether the **Customer feeling** attribute is specified for any of the customer touchpoints and counts the touchpoints for which the value of the **Customer feeling** attribute type is set to **Positive**.

#### **Data feed**

CXM - Responsible owner

#### **Calculation**

Good experience ratio: Number of customer touchpoints for which the value of the **Customer feeling** attribute type is set to **Positive** divided by the total number of customer touchpoints.

#### **Business units associated with a bad customer experience**

Top seven business units associated with a bad customer experience.

#### **Data source**

ARIS Architect:

Report: CXM - Responsibility (Ownership)

#### **Report configurable?**

No

#### **Data collection**

Context: **Customer journey landscape** model type.

Starting from the selected customer journey landscape, all owners specified in the **Ownership** row and their associated customer touchpoints are retrieved from all assigned customer journey maps. Checks whether the **Pain point** attribute is specified for any of the customer touchpoints and counts the touchpoints for which the value of the **Pain point** attribute type is set to **true**.

#### **Data feed**

CXM - Responsible owner

### Calculation

Number of customer touchpoints for which the value of the **Pain point** attribute type is set to **true** divided by the total number of customer touchpoints (bad experience ratio).

### Channels associated with a good customer experience

Top seven channels associated with a good customer experience.

### Data source

ARIS Architect:

Report: CXM - Responsibility (Channel)

### Report configurable?

No

### Data collection

Context: **Customer journey landscape** model type.

Starting from the selected customer journey landscape, all channels specified in the **Channel** row and their associated customer touchpoints are retrieved for all assigned customer journey maps. Checks whether the **Customer feeling** attribute is specified for any of the customer touchpoints and counts the touchpoints for which the value of the **Customer feeling** attribute type is set to **Positive**.

### Data feed

CXM - Responsible channel

### Calculation

Good experience ratio: Number of customer touchpoints for which the value of the **Customer feeling** attribute type is set to **Positive** divided by the total number of customer touchpoints.

### Channels associated with a bad customer experience

Top seven channels associated with a bad customer experience.

### Data source

ARIS Architect:

Report: CXM - Responsibility (Channel)

### Report configurable?

No

### Data collection

Context: **Customer journey landscape** model type.

Starting from the selected customer journey landscape, all channels specified in the **Channel** row and their associated customer touchpoints are retrieved for all assigned customer journey maps. Checks whether the **Pain point** attribute is specified for any of the customer touchpoints and counts the touchpoints for which the value of the **Pain point** attribute type is set to **true**.

### Data feed

CXM - Responsible channel

## Calculation

Number of customer touchpoints for which the value of the **Pain point** attribute type is set to **true** divided by the total number of customer touchpoints (bad experience ratio).

## EXAMPLE



### 4.1.12.26.2.3 Customer journey map

**Customer journey map** dashboard that evaluates customer touchpoints and retrieves the customer touchpoints with high market potential.

#### CHARTS

##### Number of affected internal processes

Number of internal processes that include customer touchpoints of the **Pain point**, **Moment of truth**, or **Best practice** type.

##### Data source

ARIS Architect:

Report: CXM - Analyze customer experience

##### Report configurable?

No

##### Data collection

Context: **Customer journey landscape** model type.

Retrieves customer touchpoint data from all customer journeys contained in customer journey maps that are assigned to a selected model of the Customer journey landscape type. Identifies the customer touchpoints of each customer journey map and:

- checks whether the customer touchpoints have a connection to an internal process.
- counts all customer touchpoints that have a connection to an internal process.
- checks whether the **Pain point** attribute is specified for any of the touchpoints.
- counts the customer touchpoints for which the value of the **Pain point** attribute type is set to **true**.
- checks whether the **Moment of truth** attribute is specified for any of the touchpoints.
- counts the customer touchpoints for which the value of the **Moment of truth** attribute type is set to **true**.
- checks whether the **Best practice** attribute is specified for any of the touchpoints.
- counts the customer touchpoints for which the value of the **Best practice** attribute type is set to **true**.

##### Data feed

CXM - Analyze customer experience

##### Calculation

Number of internal processes that include customer touchpoints of the **Pain point**, **Moment of truth**, or **Best practice** type.

**Percentage of bad customer feelings**

Overview of the percentage of negative customer touchpoints.

**Data source**

ARIS Architect:

Report: CXM - Analyze customer experience

**Report configurable?**

No

**Data collection**

-.-

**Data feed**

CXM - Analyze customer experience

**Calculation**

Number of pain points divided by the number of customer touchpoints multiplied by 100.

**Percentage of critical customer touchpoints**

Overview of the percentage of critical customer touchpoints.

**Data source**

ARIS Architect:

Report: CXM - Analyze customer experience

**Report configurable?**

No

**Data collection**

-.-

**Data feed**

CXM - Analyze customer experience

**Calculation**

Number of customer touchpoints for which the **Moment of truth** attribute type is specified over the aggregated number of customer touchpoints multiplied by 100.

**Percentage of good customer feelings**

Overview of the percentage of positive customer touchpoints.

**Data source**

ARIS Architect:

Report: CXM - Analyze customer experience

**Report configurable?**

No

**Data collection**

-.-

**Data feed**

CXM - Analyze customer experience

**Calculation**

Number of customer touchpoints with the value **Positive** set for the **Customer feeling** attribute divided by the number of customer touchpoints multiplied by 100.

**Customer touchpoints with high market potential**

Customer touchpoints with high market potential and the corresponding transformation costs retrieved from customer journey maps.

**Data source**

ARIS Architect:

Report: CXM - Analyze customer experience

**Report configurable?**

No

**Data collection**

-.-

**Data feed**

CXM - Analyze customer experience

**Calculation**

Values from the **Market potential** and **Transformation costs** attributes specified for customer touchpoints.

**Importance and feelings of customer touchpoints**

Importance and feelings that customers associate with customer touchpoints.

**Data source**

ARIS Architect:

Report: CXM – Analyze customer journeys

This report answers the following questions:

- Which customer journey is the most critical?
- Which customer lifecycle
- Which stage is the most critical?

The report provides various parameters allowing customizing without changing the report code.

**OUTPUT**

Generates the **CXM\_ANALYZE\_CUSTOMER\_JOURNEYS.XML** document stored in ARIS document storage. The **Analyze customer journeys (TOP 7)** document is stored in this subfolder: ARIS document storage/Dashboarding/<database name; default=United Motor Group>/**EA**.

The report result is used as input for the **CXM - Analyze customer journeys** data feed. This data feed is related to the the **Customer experience** CXM dashboard (page 660).

**CONTEXT**

Database

**Report configurable?**

No

**Data collection**

-.-

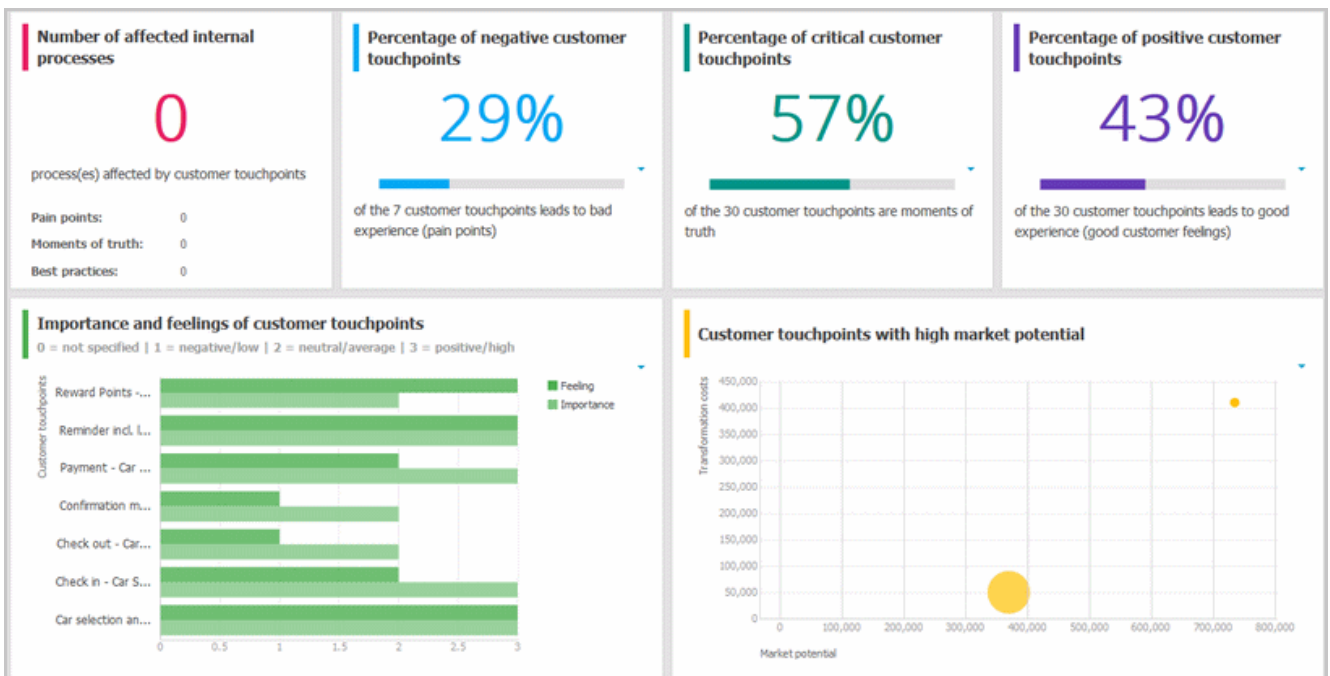
**Data feed**

CXM - Importance vs. feelings

**Calculation**

Values from the **Customer feeling** and **Importance to customer** attributes specified for customer touchpoints.

**EXAMPLE**





### 4.1.12.26.3 Dashboards using content that is retrieved ARIS reports that access Piwik data

Available dashboards using content that is retrieved by ARIS reports that access Piwik data. Piwik is an open-source analytics platform.

#### 4.1.12.26.3.1 Piwik - Publications

Dashboard that includes an overall overview of the ARIS portal usage. It provides charts that consider various aspects for which you can select different evaluation periods, such as last week, last month, and last year.

##### CHARTS

###### Number of visits over time

Shows the number of visits (visits/unique visitors) over the selected time period.

###### Data source

ARIS Architect:

Report: Piwik - Global portal usage running the Piwik **VisitsSummary** report.

This report creates global portal usage statistics. Therefore, it accesses an external Piwik instance that contains a collection of ARIS portal events, retrieves specific **Piwik** reports, and adds ARIS data to them, if required.

The following **Piwik** reports are retrieved:

- **VisitsSummary** report
- **BrowserVersions** report
- **BrowserEngines** report
- **Language** report
- **OsVersions** report

In order to use the Piwik - Global portal usage report and the Piwik - Database-specific portal usage report make sure to have Piwik installed and configured and the report parameters specified accordingly.

The parameters must be specified according to the required Piwik settings. If the settings are specified several output files are generated.

##### OUTPUT

Generates several **XML** documents stored in this subfolder: ARIS document storage/Dashboarding/**Piwik**.

The report result is used as input for the Piwik - Technical KPIs (page 678)dashboard.

##### CONTEXT

Database

Since for ARIS reports a context is mandatory, for this report an ARIS database must be specified as its context. However, the database will not be evaluated by the report and it therefore does not matter which database is selected.

### Data feed

Piwik - Summary of visits over time

### Most viewed item types

Top seven item types most viewed over the selected time period, e.g., processes.

### Data source

ARIS Architect:

Report: Piwik - Database-specific portal usage running the Piwik **CustomDimension** report.

This report creates ARIS database-specific portal usage statistics. Therefore, it accesses an external Piwik instance that contains a collection of ARIS portal events, retrieves specific Piwik reports, and adds ARIS data to them, if required.

The following **Piwik** reports are retrieved:

- **PageTitles** report
- **CustomDimension** report
- **SiteSearchKeywords** report

In order to use the Piwik - Global portal usage report and the Piwik - Database-specific portal usage report make sure to have Piwik installed and configured and the report parameters specified accordingly.

### OUTPUT

Generates several **XML** documents stored in the ARIS document storage/Dashboarding/<database name; default=United Motor Group>/**Piwik** subgroup.

The report result is used as input for the Piwik - Publications (page 672) dashboard.

### CONTEXT

Database

### Data feed

Piwik - Most viewed item types

## Most viewed items

Top seven items most viewed over the selected time period.

### Data source

ARIS Architect:

Report: Piwik - Database-specific portal usage running the Piwik **PageTitles** report.

This report creates ARIS database-specific portal usage statistics. Therefore, it accesses an external Piwik instance that contains a collection of ARIS portal events, retrieves specific Piwik reports, and adds ARIS data to them, if required.

The following **Piwik** reports are retrieved:

- **PageTitles** report
- **CustomDimension** report
- **SiteSearchKeywords** report

In order to use the Piwik - Global portal usage report and the Piwik - Database-specific portal usage report make sure to have Piwik installed and configured and the report parameters specified accordingly.

## OUTPUT

Generates several **XML** documents stored in the ARIS document storage/Dashboarding/<database name; default=United Motor Group>/**Piwik** subgroup.

The report result is used as input for the Piwik - Publications (page 672) dashboard.

## CONTEXT

Database

### Data feed

Piwik - Most viewed items

## Most searched keywords

Top seven of the keywords most searched over the selected time period.

### Data source

ARIS Architect:

Report: Piwik - Database-specific portal usage running the Piwik **SiteSearchKeywords** report.

This report creates ARIS database-specific portal usage statistics. Therefore, it accesses an external Piwik instance that contains a collection of ARIS portal events, retrieves specific Piwik reports, and adds ARIS data to them, if required.

The following **Piwik** reports are retrieved:

- **PageTitles** report
- **CustomDimension** report
- **SiteSearchKeywords** report

In order to use the Piwik - Global portal usage report and the Piwik - Database-specific portal usage report make sure to have Piwik installed and configured and the report parameters specified accordingly.

## OUTPUT

Generates several **XML** documents stored in the ARIS document storage/Dashboarding/<database name; default=United Motor Group>/**Piwik** subgroup. The report result is used as input for the Piwik - Publications (page 672) dashboard.

## CONTEXT

Database

### Data feed

Piwik - Most searched keywords

### Most viewed item types list

Top-fifty list of item types most viewed over the selected time period, e.g., processes.

### Data source

ARIS Architect:

Report: Piwik - Database-specific portal usage running the Piwik **CustomDimension** report.

This report creates ARIS database-specific portal usage statistics. Therefore, it accesses an external Piwik instance that contains a collection of ARIS portal events, retrieves specific Piwik reports, and adds ARIS data to them, if required.

The following **Piwik** reports are retrieved:

- **PageTitles** report
- **CustomDimension** report
- **SiteSearchKeywords** report

In order to use the Piwik - Global portal usage report and the Piwik - Database-specific portal usage report make sure to have Piwik installed and configured and the report parameters specified accordingly.

## OUTPUT

Generates several **XML** documents stored in the ARIS document storage/Dashboarding/<database name; default=United Motor Group>/**Piwik** subgroup. The report result is used as input for the Piwik - Publications (page 672) dashboard.

## CONTEXT

Database

### Data feed

Piwik - Most viewed items types

## Most viewed items list

List of top fifty items most viewed over the selected time period.

### Data source

ARIS Architect:

Report: Piwik - Database-specific portal usage running the Piwik **PageTitles** report.

This report creates ARIS database-specific portal usage statistics. Therefore, it accesses an external Piwik instance that contains a collection of ARIS portal events, retrieves specific Piwik reports, and adds ARIS data to them, if required.

The following **Piwik** reports are retrieved:

- **PageTitles** report
- **CustomDimension** report
- **SiteSearchKeywords** report

In order to use the Piwik - Global portal usage report and the Piwik - Database-specific portal usage report make sure to have Piwik installed and configured and the report parameters specified accordingly.

## OUTPUT

Generates several **XML** documents stored in the ARIS document storage/Dashboarding/<database name; default=United Motor Group>/**Piwik** subgroup.

The report result is used as input for the Piwik - Publications (page 672) dashboard.

## CONTEXT

Database

### Data feed

Piwik - Most viewed items

## Most searched keywords list

Top-fifty list of the keywords most searched over the selected time period.

### Data source

ARIS Architect:

Report: Piwik - Database-specific portal usage running the Piwik **SiteSearchKeywords** report.

This report creates ARIS database-specific portal usage statistics. Therefore, it accesses an external Piwik instance that contains a collection of ARIS portal events, retrieves specific Piwik reports, and adds ARIS data to them, if required.

The following **Piwik** reports are retrieved:

- **PageTitles** report
- **CustomDimension** report
- **SiteSearchKeywords** report

In order to use the Piwik - Global portal usage report and the Piwik - Database-specific portal usage report make sure to have Piwik installed and configured and the report parameters specified accordingly.

**OUTPUT**

Generates several **XML** documents stored in the ARIS document storage/Dashboarding/<database name; default=United Motor Group>/Piwik subgroup. The report result is used as input for the Piwik - Publications (page 672) dashboard.

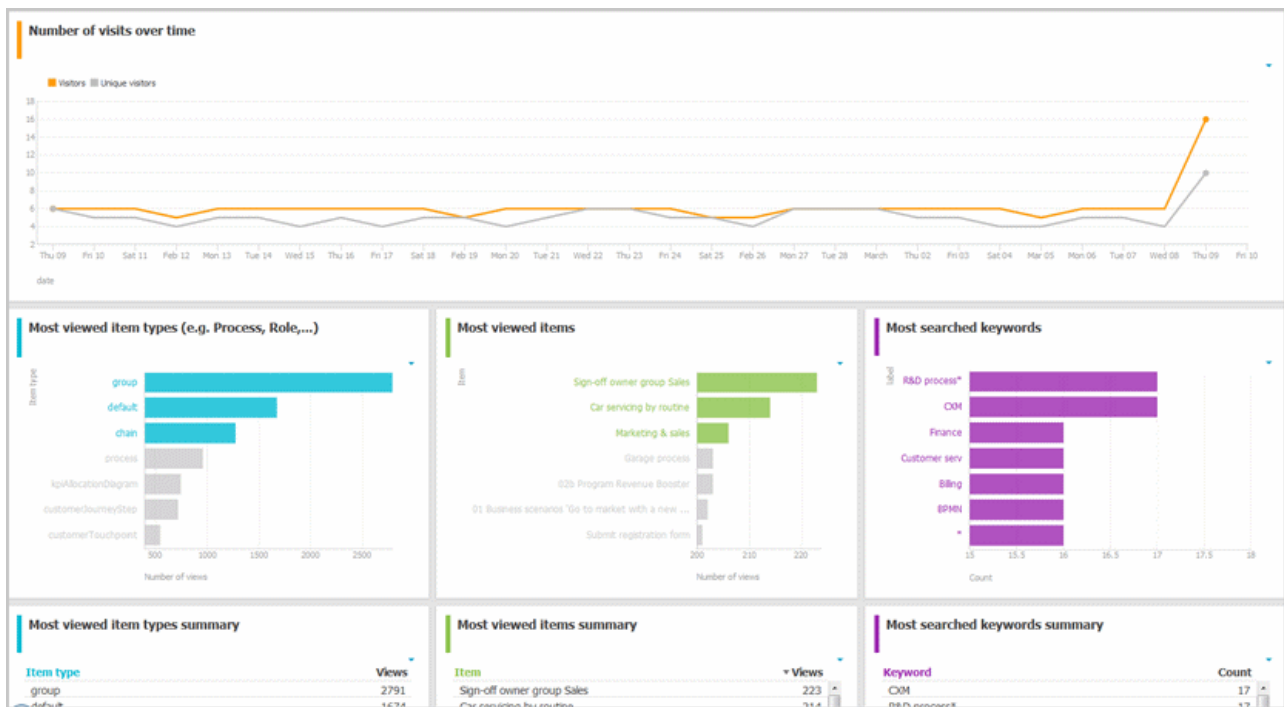
**CONTEXT**

Database

**Data feed**

Piwik - Most searched keywords

**EXAMPLE**



## 4.1.12.26.3.2 Piwik - Technical KPIs

Dashboard that shows technical KPIs regarding the ARIS usage. It provides charts that consider various technical aspects for which you can select different evaluation periods, such as last week, last month, and last year.

### CHARTS

#### Percent distribution of browser engines used

Percent distribution of the browser engines used over the selected time period.

#### Data source

ARIS Architect:

Report: Piwik - Global portal usage running the Piwik **BrowserEngines** report.

This report creates global portal usage statistics. Therefore, it accesses an external Piwik instance that contains a collection of ARIS portal events, retrieves specific **Piwik** reports, and adds ARIS data to them, if required.

The following **Piwik** reports are retrieved:

- **VisitsSummary** report
- **BrowserVersions** report
- **BrowserEngines** report
- **Language** report
- **OsVersions** report

In order to use the Piwik - Global portal usage report and the Piwik - Database-specific portal usage report make sure to have Piwik installed and configured and the report parameters specified accordingly.

The parameters must be specified according to the required Piwik settings. If the settings are specified several output files are generated.

### OUTPUT

Generates several **XML** documents stored in this subfolder: ARIS document storage/Dashboarding/**Piwik**.

The report result is used as input for the Piwik - Technical KPIs (page 678) dashboard.

### CONTEXT

Database

Since for ARIS reports a context is mandatory, for this report an ARIS database must be specified as its context. However, the database will not be evaluated by the report and it therefore does not matter which database is selected.

#### Data feed

Piwik - Browser engines

## Most used operating systems

Operating systems most used over the selected time period.

### Data source

ARIS Architect:

Report: Piwik - Global portal usage running the Piwik **OsVersions** report.

This report creates global portal usage statistics. Therefore, it accesses an external Piwik instance that contains a collection of ARIS portal events, retrieves specific **Piwik** reports, and adds ARIS data to them, if required.

The following **Piwik** reports are retrieved:

- **VisitsSummary** report
- **BrowserVersions** report
- **BrowserEngines** report
- **Language** report
- **OsVersions** report

In order to use the Piwik - Global portal usage report and the Piwik - Database-specific portal usage report make sure to have Piwik installed and configured and the report parameters specified accordingly.

The parameters must be specified according to the required Piwik settings. If the settings are specified several output files are generated.

### OUTPUT

Generates several **XML** documents stored in this subfolder: ARIS document storage/Dashboarding/**Piwik**.

The report result is used as input for the Piwik - Technical KPIs (page 678) dashboard.

### CONTEXT

Database

Since for ARIS reports a context is mandatory, for this report an ARIS database must be specified as its context. However, the database will not be evaluated by the report and it therefore does not matter which database is selected.

### Data feed

Piwik - Operating system version



## Browser version summary

Browser versions most used over the selected time period.

### Data source

ARIS Architect:

Report: Piwik - Global portal usage running the Piwik **BrowserVersions** report.

This report creates global portal usage statistics. Therefore, it accesses an external Piwik instance that contains a collection of ARIS portal events, retrieves specific **Piwik** reports, and adds ARIS data to them, if required.

The following **Piwik** reports are retrieved:

- **VisitsSummary** report
- **BrowserVersions** report
- **BrowserEngines** report
- **Language** report
- **OsVersions** report

In order to use the Piwik - Global portal usage report and the Piwik - Database-specific portal usage report make sure to have Piwik installed and configured and the report parameters specified accordingly.

The parameters must be specified according to the required Piwik settings. If the settings are specified several output files are generated.

### OUTPUT

Generates several **XML** documents stored in this subfolder: ARIS document storage/Dashboarding/**Piwik**.

The report result is used as input for the Piwik - Technical KPIs (page 678) dashboard.

### CONTEXT

Database

Since for ARIS reports a context is mandatory, for this report an ARIS database must be specified as its context. However, the database will not be evaluated by the report and it therefore does not matter which database is selected.

### Data feed

Piwik - Browser version

## Portal language summary

Portal languages most used over the selected time period.

### Data source

ARIS Architect:

Report: Piwik - Global portal usage running the Piwik **Language** report.

This report creates global portal usage statistics. Therefore, it accesses an external Piwik instance that contains a collection of ARIS portal events, retrieves specific **Piwik** reports, and adds ARIS data to them, if required.

The following **Piwik** reports are retrieved:

- **VisitsSummary** report
- **BrowserVersions** report
- **BrowserEngines** report
- **Language** report
- **OsVersions** report

In order to use the Piwik - Global portal usage report and the Piwik - Database-specific portal usage report make sure to have Piwik installed and configured and the report parameters specified accordingly.

The parameters must be specified according to the required Piwik settings. If the settings are specified several output files are generated.

### OUTPUT

Generates several **XML** documents stored in this subfolder: ARIS document storage/Dashboarding/**Piwik**.

The report result is used as input for the Piwik - Technical KPIs (page 678) dashboard.

### CONTEXT

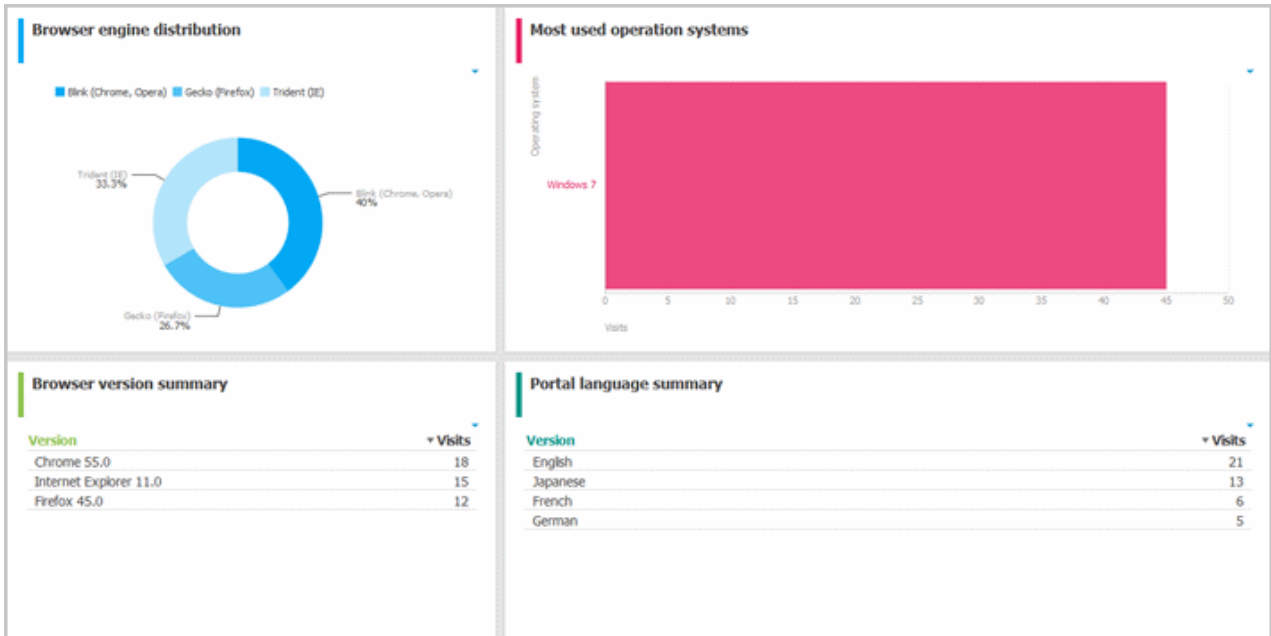
Database

Since for ARIS reports a context is mandatory, for this report an ARIS database must be specified as its context. However, the database will not be evaluated by the report and it therefore does not matter which database is selected.

### Data feed

Piwik - Portal language

EXAMPLE



## 4.1.12.26.4 Dashboards using Enterprise Architecture (EA) data

Available dashboards based on Enterprise Architecture (EA) information.

### 4.1.12.26.4.1 EA dashboard for organizational units

Shows a separate tab for organizational units, i. e. for object of type **Organizational unit** and **Organizational unit type**.

#### CHARTS

##### Systems having expired

Number of systems used by the selected organizational unit which are no longer standard.

##### Data source

ARIS Architect or ARIS Architect and Alfabet:

- Report: EA - Relations between organizational units and systems
- Report: EA/Alfabet - Systems with lifecycle data

##### Report configurable?

No

##### Data feed

- EA - Organizational unit - Systems expired  
Uses the **EA - Organizational unit (Systems with lifecycle data)** data feed as a sub-feed.
- EA - Organizational unit - Systems with lifecycle data

##### Calculation

Checks via the **End** attribute if a system has expired.

- System that supports an organizational unit via function or optionally via position or role or
- System that lies under the responsibility of an organizational role.

##### Systems phasing in

Number of systems used by the selected organizational unit which will become standard within the next twelve months.

##### Data source

ARIS Architect or ARIS Architect and Alfabet:

- Report: EA - Relations between organizational units and systems
- Report: EA/Alfabet - Systems with lifecycle data

##### Report configurable?

No

**Data feed**

- EA - Organizational unit (systems phasing in)  
Uses the **EA - Organizational unit (Systems with lifecycle data)** data feed as a sub-feed.
- EA - Organizational unit - Systems with lifecycle data

**Calculation**

Checks via the **Phase-in phase (start)** attribute if a system is phasing in

- System that supports an organizational unit via function or optionally via position or role or
- System that lies under the responsibility of an organizational role.

**Systems phasing out**

Number of systems used by the selected organizational unit which will be retired within the next twelve months.

**Data source**

ARIS Architect or ARIS Architect and Alfabet:

- Report: EA - Relations between organizational units and systems
- Report: EA/Alfabet - Systems with lifecycle data

**Report configurable?**

No

**Data feed**

- EA - Organizational unit (systems phasing out)  
Uses the **EA - Organizational unit (Systems with lifecycle data)** data feed as a sub-feed.
- EA - Organizational unit - Systems with lifecycle data

**Calculation**

Checks via the **Phase-out phase (start)** attribute if a system is phasing out

- System that supports an organizational unit via function or optionally via position or role or
- System that lies under the responsibility of an organizational role.

**Systems expiring**

Number of systems used by the selected organizational unit which will become non-standard within the next twelve months.

**Data source**

ARIS Architect or ARIS Architect and Alfabet:

- Report: EA - Relations between organizational units and systems
- Report: EA/Alfabet - Systems with lifecycle data

**Report configurable?**

No

**Data feed**

- EA - Organizational unit (standard systems expiring)  
Uses the **EA - Organizational unit (Systems with lifecycle data)** data feed as a sub-feed.
- EA - Organizational unit - Systems with lifecycle data

**Calculation**

Checks via the **Start** attribute if a system is expiring

- System that supports an organizational unit via function or optionally via position or role or
- System that lies under the responsibility of an organizational role.

**Usage of non-standard systems**

Distribution of standard and non-standard systems used by the selected organizational unit.

**Data source**

ARIS Architect or ARIS Architect and Alfabet:

- Report: EA - Relations between organizational units and systems
- Report: EA/Alfabet - Systems with lifecycle data

**Report configurable?**

No

**Data feed**

EA - Organizational unit (standard versus non-standard systems)

Uses the **EA - Organizational unit (Systems with lifecycle data)** data feed as a sub-feed.

**Calculation**

Checks via the **Standardization status** attribute if a system used is non-standard

- System that supports an organizational unit via function or optionally via position or role or
- System that lies under the responsibility of an organizational role.

**Systems compared by cost and criticality**

Portfolio of systems used by the selected organizational unit categorized by cost, criticality, and interface count.

**Data source**

ARIS Architect:

- Report: EA - Relations between organizational units and systems
- Report: EA - Systems with data

This report creates a table listing all IT systems of the database. For each system, various types of information are provided, such as the **Data center costs** and **Criticality** attributes, or the number of interfaces.

The **Enterprise Architecture Management** extension pack is required for ARIS Architect or ARIS Designer.

The report provides various parameters allowing customizing without changing the report code.

## OUTPUT

Generates the **EA\_SYSTEMS\_WITH\_DATA.XML** file. The **Systems with data** document is stored within this subfolder: ARIS document storage/Dashboarding/<database name; default=United Motor Group>/EA.

The report result is used as input for the **EA - Organizational unit - Systems with data** data feed. This data feed is related to the EA dashboard for organizational units (page 683) dashboard.

## CONTEXT

Database

### Report configurable?

Yes

### Data feed

EA - Organizational unit - Systems with data

### Calculation

Compares systems via the **Costs per unit** and **Critically** attributes

- System that supports an organizational unit via function or optionally via position or role or
- System that lies under the responsibility of an organizational role.

### System replacement candidates by capability redundancy

Seven pairs of systems used by the selected organizational unit with the greatest overlap of capabilities.

### Data source

ARIS Architect:

- Report: EA - Relations between organizational units and systems
- Report: EA - Systems redundancies

This report creates a table listing all IT system pairs that have common capabilities. In each pair, **System A** is considered to be the potential replacement for **System B**. For each pair, the capability overlap is shown as a percentage.

The report provides various parameters allowing customizing without changing the report code.

## OUTPUT

Generates the **EA\_SYSTEM\_REDUNDANCIES.XML** file. **The System redundancies in the use of capabilities** document is stored in this subfolder: ARIS document storage/Dashboarding/<database name; default=United Motor Group>/EA.

The report result is used as input for the **EA - System - System redundancies** data feed. This data feed is related, e. g., to the EA dashboard for organizational units (page 683) dashboard.

## CONTEXT

Database

### **Report configurable?**

Yes

### **Data feed**

EA - System - System redundancies

### **Calculation**

Compares systems regarding their common capabilities

- System that supports an organizational unit via function or optionally via position or role or
- System that lies under the responsibility of an organizational role.

System A is considered as potential replacement of system B.

### **Operating and capital expenses for systems over time**

Operating and capital expenses for the systems used by the selected organizational unit over time.

### **Data source**

ARIS Architect:

Report: EA/Alfabet - CAPEX/OPEX for organizational units

### **Report configurable?**

Yes

### **Data feed**

EA - OrgUnit - CAPEX/OPEX

### **Calculation**

Lists the capital expenses (CAPEX) and operational expenses (OPEX) over time for all organizational units of the database that also exist in a connected Alfabet system.



EXAMPLE



## 4.1.12.26.4.2 EA dashboard for IT systems

Shows a separate tab for IT systems, i. e. for object of type **Application system type**.

### CHARTS

#### **Organizational units with most system supports**

Based on process support maps, seven organizational units with most processes actively supported by the selected system.

#### **Data source**

ARIS Architect:

Report: EA - System support

#### **Report configurable?**

No

#### **Data feed**

EA - System - Supported organizational units

#### **Calculation**

Lists all supported objects of **Application system type** object type. These objects are identified via the Process support unit, the Organizational unit, and Function objects connected to the IT system.

#### **Support distribution by organizational units**

Based on process support maps, all organizational units supported by the selected system and their distribution.

#### **Data source**

ARIS Architect:

Report: EA - System support

#### **Report configurable?**

No

#### **Data feed**

EA - System - Supported organizational units

#### **Calculation**

Shows the distribution of supported objects of **Application system type** object type. These objects are identified via the Process support unit, the Organizational unit, and Function objects connected to the IT system.

### **Processes with most system supports**

Seven processes with most functions actively supported by the selected system - not based on process support maps.

#### **Data source**

ARIS Architect:

Report: EA - System support for VACDs

#### **Report configurable?**

No

#### **Data feed**

EA - System Supported processes

#### **Calculation**

Counts and ranks the systems supported per processes.

Traversing the hierarchy of value-added chain diagrams (VACDs), searches for all functions supporting IT systems. Functions support IT systems if they are connected via the connection type **supports** in event-driven process chains (EPCs) that are assigned to VACDs.

### **Support distribution by processes**

All processes supported by the selected system and their distribution - not based on process support maps.

#### **Data source**

ARIS Architect:

Report: EA - System support for VACDs

#### **Report configurable?**

No

#### **Data feed**

EA - System Supported processes

#### **Calculation**

Lists the systems supported per processes together with the percentage distribution, based on the rank.

Traversing the hierarchy of value-added chain diagrams (VACDs), searches for all functions supporting IT systems. Functions support IT systems if they are connected via the connection type **supports** in event-driven process chains (EPCs) that are assigned to VACDs.

### **System replacement candidates by capability overlap**

Seven replacement possibilities involving the selected system as source or target with the most capability overlap.

#### **Data source**

ARIS Architect:

Report: EA - System redundancies

#### **Report configurable?**

No

#### **Data feed**

EA - System - System redundancies

#### **Calculation**

Compares systems regarding their common capabilities.

### **Operating costs by cost type**

Operating costs for the selected IT system by different cost types over time.

#### **Data source**

ARIS Architect:

Report: EA/Alfabet - System costs

#### **Report configurable?**

No

#### **Data feed**

EA - System (costs over time)

#### **Calculation**

Lists all IT systems of the database that also exist in Alfabet. Per system and year all cost values for the various cost types specified are listed.

EXAMPLE



### 4.1.12.26.4.3 EA dashboard for objectives

Shown as side bar for the **Diagram** fact sheet of the model types **Strategy diagram** and **Objective diagram**.

#### CHARTS

##### Objectives

Shows all objectives in the model and their goal accomplishments over all KPIs.

##### Data source

ARIS Architect:

- Report: EA - Models and objectives
- Report: EA - Objectives with data

##### Report configurable?

No

##### Data feed

EA - Goal accomplishment (objectives)

##### Calculation

Lists all **Strategy diagram** and **Objective diagram** model types and the objectives contained with their goal accomplishments.

##### KPIs of the objective

Shows the KPIs of the objective selected in the diagram and their respective values.

##### Data source

ARIS Architect:

- Report: EA - Objectives and KPIs
- Report: EA - KPIs with data

##### Report configurable?

No

##### Data feed

EA - Goal accomplishment (KPIs per objective)

##### Calculation

Lists all all objectives and their KPIs whose accomplishments are calculated according to the Balanced Scorecard methodology.

**EXAMPLE**

### Objectives

Goal accomplishment over all KPIs

Objective	GA
Achieve annualized sales of 3...	<input type="radio"/>
Acquisition of profitable niche...	<input type="radio"/>
Align 100% delivery processe...	<input type="radio"/>
Be the future no. 1 premium ...	<input type="radio"/>
Design game changing 21st c...	<input type="radio"/>
Improve operating margin to ...	<input type="radio"/>
Increase efficiency of logistics...	<input type="radio"/>
Increase high-profit products	<input type="radio"/>

### KPIs of the objective

Goal accomplishment for each KPI

KPI	GA
Cycle time improvement rate	<input checked="" type="radio"/>
Overall process error ratio	<input checked="" type="radio"/>
Overall process effectiveness (OPE)	<input checked="" type="radio"/>
Process automation rate (all busin...	<input checked="" type="radio"/>

## 4.1.12.26.5 Dashboards using Process Performance Manager data

Available dashboards based on Process Performance Manager data.

### 4.1.12.26.5.1 Process and Finance KPIs dashboard

Shows an overall overview on a sample assembly process (manufacturing).

#### CHARTS

##### **Finished process instances**

Number of process instances measured by ARIS Process Performance Manager.

##### **Data source**

Process Performance Manager favorite persisted for the use case demo.

##### **Data feed**

PPM instances per day (persisted)

##### **Calculation**

Sums up the recorded process instances over the entire period.

##### **Process instances with production faults**

Shows the percentage of process instances, where the quality checks (mentioned in the process) failed.

##### **Data source**

Process Performance Manager favorite persisted for the use case demo.

##### **Data feed**

PPM instances (persisted)

##### **Calculation**

Calculates the percentage of process instances, where the quality checks (mentioned in the process) failed.

##### **Number of produced tractors over time**

Shows the number of finished process instances over time (on an hourly scale).

##### **Data source**

Process Performance Manager favorite persisted for the use case demo.

##### **Data feed**

PPM instances per hour (persisted)

##### **Calculation**

Number of finished process instances over time (on an hourly scale).



**Sold tractors**

Shows the overall number of sold tractors without production faults.

**Data source**

Process Performance Manager favorite persisted for the use case demo.

**Data feed**

PPM instances (persisted)

**Calculation**

Sums up the overall number of sold tractors without production faults.

**Material cost per tractor variant**

Shows the average material cost per tractor variant.

**Data source**

Process Performance Manager favorite persisted for the use case demo.

**Data feed**

PPM - Cost per tractor variant (persisted)

**Calculation**

Average sum of the values of all cost attributes in all trace entries of all process instances per variant.

**Average material costs**

Shows the overall average material costs.

**Data source**

Process Performance Manager favorite persisted for the use case demo.

**Data collection**

In the side-by-side view: Reacts on the function selection and shows the average cost of the assembled part.

**Data feed**

PPM - Function details (persisted)

**Calculation**

Average sum of the values of all cost attributes in all trace entries of all process instances.

**Revenue**

Shows the overall revenue over all sold tractors.

**Data source**

Process Performance Manager favorite persisted for the use case demo.

**Data feed**

PPM instances (persisted)

**Calculation**

Number of sold tractors multiplied by the price per tractor.

**Average process throughput time (minutes)**

In the side-by-side view: Delivers the average process throughput time over all recorded process instances as well as min./max. values and the planned value.

**Data source**

Process Performance Manager favorite persisted for the use case demo. Alternatively, regarding planned value, you can use the report **Export to table** report or an individual ARIS query.

**Data collection**

The KPI reacts on the function selection. If nothing is selected, it presents the average throughput time over all instances. If a function is selected, it presented the average throughput time over all instances, that include the function.

Min./Max. values always consider all recorded instances. The planned value is entered in the underlying data feed (this is the case in the example) or is requested from the ARIS repository via report or query.

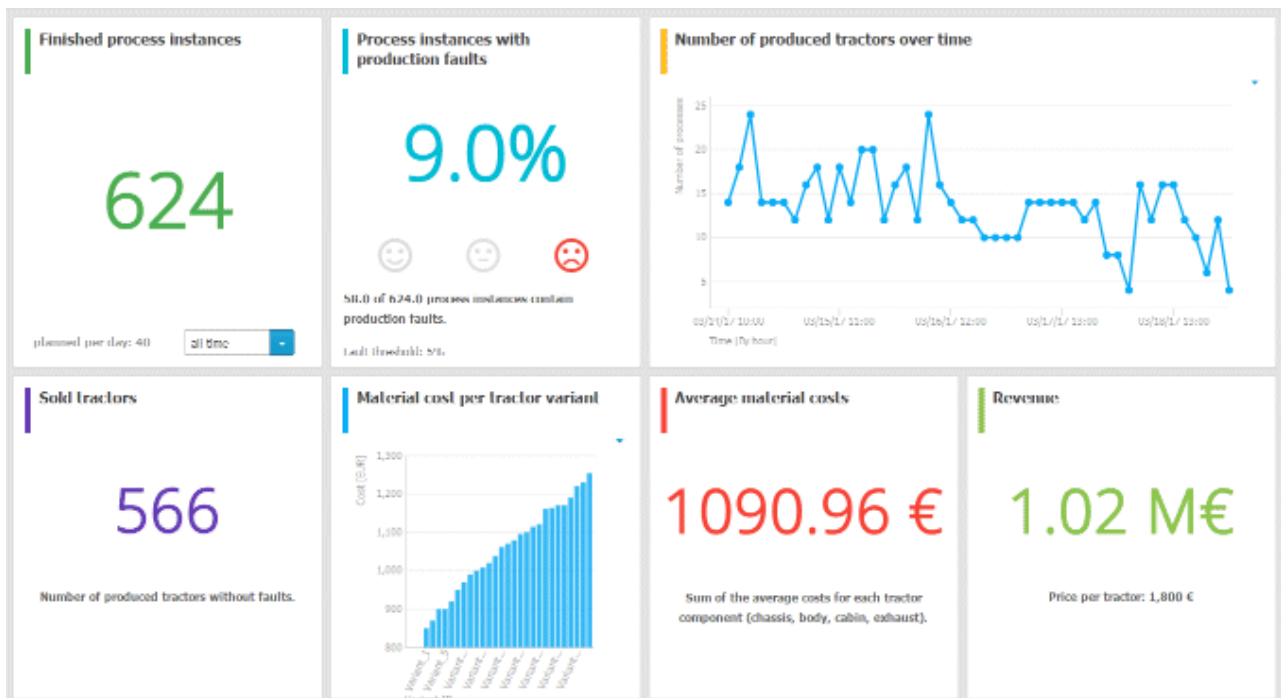
**Data feed**

PPM instances (persisted)

**Calculation**

Average sum of the values of all cost attributes in all trace entries of all process instances.

**EXAMPLE**



## 4.1.12.26.5.2 Process Variant Comparison dashboard

Shows modeled process variants side-by-side.

### CHARTS

#### Process variant with shortest cycle time (minutes)

Shows the function flow describing the process variant with the shortest process cycle time of all recorded instances.

#### Data source

PPM instances (persisted)

#### Data feed

PPM - Workflow with shortest cycle time (persisted)

#### Process variant with longest cycle time (minutes)

Shows the function flow describing the process variant with the longest process cycle time of all recorded instances.

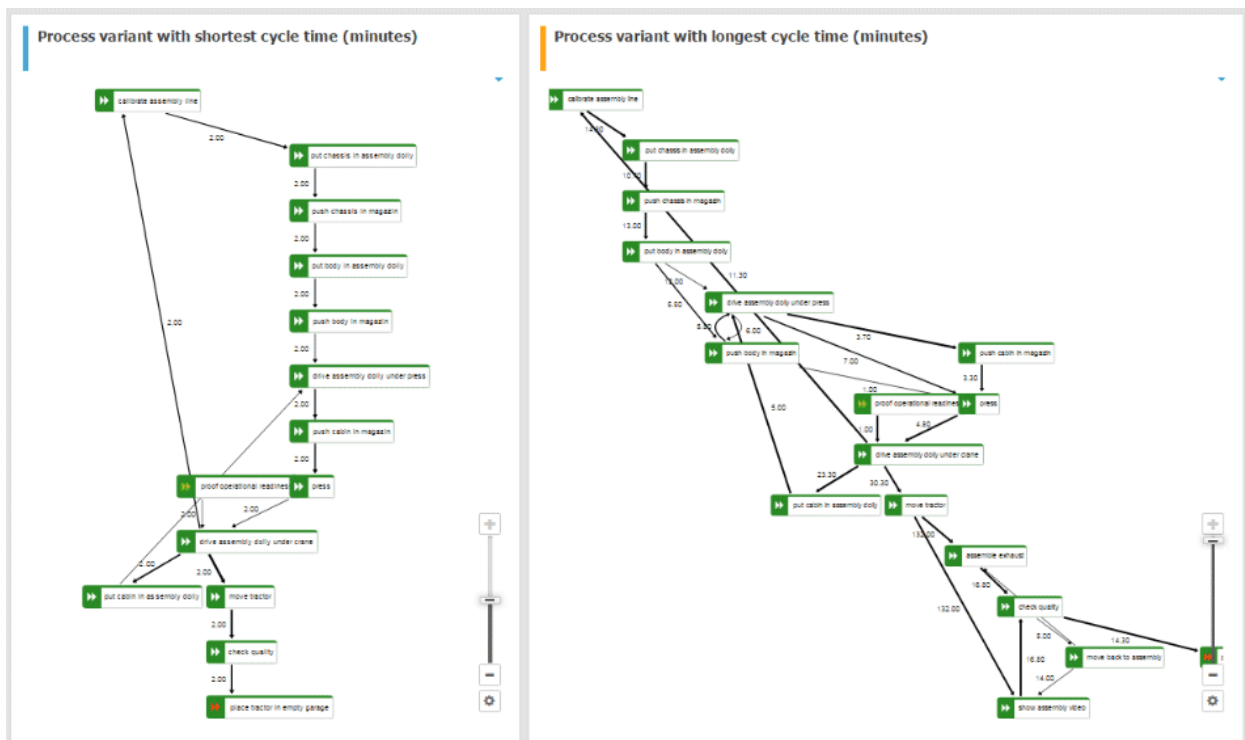
#### Data source

PPM instances (persisted)


#### Data feed


PPM - Workflow with shortest cycle time (persisted)

### EXAMPLE



## 4.2 Use the Catalog

The  **Catalog** shows descriptions of business processes, roles, documents, and IT systems in tables. Depending on the selected context, you can list persons responsible, departments, business processes, and occurrences in business processes.

Business processes				Roles	Documents	Systems
▲ Name	 ▼	Description	▼	Responsible	▼	
Acquire and implement		Acquire and implement consists of: <ul style="list-style-type: none"> <li>▶ Identify automated solutions</li> <li>▶ Acquire and maintain application software</li> <li>▶ Acquire and maintain technology infrastructure</li> </ul>		ethan.owner		
Apply for financing		This model describes how to process an application for financing		ethan.owner		
Billing		Billing consists of: <ul style="list-style-type: none"> <li>▶ Vehicle billing</li> <li>▶ Accounts receivable management</li> <li>▶ Pay cash</li> </ul>		ethan.owner		
Billing (to-be)		Billing (to-be) consists of: <ul style="list-style-type: none"> <li>▶ Vehicle billing (to-be)</li> <li>▶ Account receivable management</li> <li>▶ Pay cash</li> </ul>		ethan.owner		

1 2 3 4 5 6 7 8 9 10

Click an entry to navigate. The corresponding fact sheet opens.



## 4.2.1 Choose items starting with the same letter


You can reduce the number of items shown in the catalog table.

### Prerequisite

Catalog letters can be displayed for the chosen language. If you, e. g., select Japanese it is not possible to display the large amount of letters available.

### Procedure

1. Click  **Catalog**.
2. Click  **Catalog letters** in the **Name** cell of the table header. The **Catalog letters** bar opens.



▲ Name  ▼	Description
All A B C D <b>E</b> F G H I J K L M N	
E2E sales auto-generated tests	
E2E sales tests	
Execute billings	This process describes how to execute billings




3. Click the relevant letter.  
Only items starting with the letter chosen are shown.

## 4.2.2 Filter catalog items based on name, description, and responsibility

You can reduce the number of items shown in the catalog table.

### Procedure

1. Click  **Catalog**.
2. Click  **Filter** in the table header. The text boxes to filter the list are opened.

▲ Name  ▼	Description  ▼	Responsible  ▼
<input type="text" value="Car"/>	<input type="text"/>	<input type="text"/>

3. Enter the relevant terms in one or more fields.

All items are listed whose attribute content contains a word beginning with the term entered. You can narrow down the search by entering terms in more than one text box.


### 4.2.3 Remove catalog filter

You can easily remove the catalog filter.

#### Prerequisite

You have filtered the catalog content (page 700).

#### Procedure


Click  **Filter** in the table header. The text boxes to filter the list are closed and all glossary items are shown.

You have removed the catalog filter.

### 4.2.4 Choose a catalog page

If not all catalog entries fit on one page, you can switch to the page that contains the relevant catalog entry.

#### Procedure

1. Click  **Catalog**.
2. Click the relevant page number at the bottom of the page.

Car loan application	This process describes the functions necessary to create a car loan application. There are different organizational units involved, such as "Local dealership sales rep", "Credit check employee" and "Credit processing employee". The process is supported by three business services for automatic execution.	ethan.owner
<a href="#">1</a> <a href="#">2</a> <a href="#">3</a> <a href="#">4</a> <a href="#">5</a> <a href="#">6</a> >		

All items of the selected page are listed.

## 4.3 Collaborate with users

Collaboration is the platform for cooperation across teams. With Collaboration, information can be exchanged faster, knowledge can be shared, and cooperation across borders is improved.

### 4.3.1 Getting started

These five steps are an optimal start to Collaboration.

#### Procedure

1. Create (page 702) a user profile.
2. Search (page 703) for groups and people who provide interesting content.
3. Create filters and check (page 708) for new information.
4. Comment on (page 706), share, flag posts, etc.
5. Invite (page 712) others to Collaboration.

You started using Collaboration to exchange information, share knowledge, etc.


### 4.3.2 Open Collaboration

Open Collaboration to exchange information, share knowledge, etc.

#### Prerequisites

- Collaboration is activated in ARIS Administration configuration.
- You have at least the **ARIS Connect Viewer** license privilege.
- You have the required access privilege (page 280) in ARIS Architect.

#### Procedure

1. Open ARIS Connect and log in with your user name and password.
2. Click  **Collaboration**.



Collaboration opens.

### 4.3.3 Create or edit a user profile

Specify your user profile to provide other users with information about your areas of activity and your interests.

#### Procedure

3. Click your user name on the left, then click **Edit profile** on the right. Your profile page for Collaboration is displayed.
4. Upload a picture in JPG, PNG, or GIF format, with the specified maximum size.  
If your user profile in ARIS Administration already includes a picture, it is also displayed in Collaboration. If a different picture is uploaded in ARIS Connect or in Collaboration, it is automatically transferred to the other application.
5. Click **Edit** to specify the trimming and size of the picture for Collaboration.



6. Select the preferred picture trimming by dragging the picture with the mouse.
7. Enlarge () or reduce () the picture.
8. Click **OK**.
9. Enter the title of your position in the company.
10. Describe your activities.
11. Specify keywords that will enable colleagues looking for particular information or expertise to find you. Use a comma as the separator.
12. Enter your telephone number.
13. Specify whether colleagues should be able to post information (**Allow others to post to my feed**) and submit comments (**Allow others to comment on activities in my feed**) in your feeds. To do this, enable the check box for the relevant option.
14. Click **OK**.


Your profile is changed. The information is now available to other users.

### 4.3.4 Find users and groups and follow their feeds

Look for colleagues or groups to find interesting contacts and information.

#### Procedure


1. Enter the name of the user or group in the global **Find** box at the top right (). The search results are displayed during input.
2. Continue entering characters until the relevant user or group is displayed.
3. Click the name you are looking for. The profile of the user or the group is displayed with all posts.
4. For users and public groups, click **Follow**. For private groups, click **Send request**. (Private groups are identified as follows: )

When you follow users, you have access to the posts that they publish in their feeds. In private groups, a coordinator must confirm your request before you are allowed access to this group's posts, comments, etc. In public groups you have immediate access to the group. The feeds you follow are displayed under  **My feed** and the groups you follow under **Groups**. To stop following a user or group, click **Unfollow** in the user or group profile. Users who are following your feeds are displayed under **Followers** in your profile. Users and groups you are following are displayed under **Following** in your profile.

If **follow users/groups/models automatically** is enabled in the configuration, you automatically become a follower of users, groups, or models, by posting or commenting on their feeds. To stop following this content, click **Unfollow**.



**Tip**

- To find groups, you can also use the group search function (**Groups >  Find groups > All groups**).
- Alternatively, you can find out which groups and feeds another user follows from the user's profile (**Global Search > User XY > Following**).
- You can also use the global search to search for keywords, in order to find interesting feeds, users, and groups.






### 4.3.5 Follow and comment on content in the portal as a user


Follow interesting content in the portal to be informed about updates, etc., in Collaboration.

**Prerequisite**

You have the required access privilege (page 280) in ARIS Architect.

**Procedure**

1. Open the process you want to follow.
2. Click  **Comment** in the bar panel if the bar is not activated yet.
3. Click **Follow**.
4. To comment, write or copy your text into the input box. Up to 2000 characters are available.
5. Click  **Tag**.
6. Enter the words to be used as keywords (page 715) in the tag input box, e.g., BPM. Alternatively, select an existing tag from the list of tags. It is displayed as soon as you enter a letter that is part of an existing tag. Press the Enter key after each keyword.
7. Click  **Link**.
8. Insert a link to a Web site that contains more detailed information.
9. Click **Add link**. The link is checked and added.
10. Click  **File**. The **Select document** dialog is displayed.
11. Click  **Upload new document** to upload one of your own documents. The dialog opens.
12. Select the file you want to upload and enter the relevant additional information.
13. Click **Upload**.
14. Enable the check box of the document you want to add to your post.
15. Click **OK**.
16. Click **Post**.

Your comment is posted, and the processes you follow are displayed under  **My portal feeds** in Collaboration. To stop following content, click **Unfollow** in the row of the relevant content.

If **follow users/groups/models automatically** is enabled in the configuration, you automatically become a follower of users, groups, or models, by posting or commenting on their feeds. To stop following this content, click **Unfollow**.







## 4.3.6 Publish posts

Post information that could be of interest to your colleagues, or start a discussion on a particular topic.

### Prerequisite

You have the required access privilege (page 280) in ARIS Architect.

### Procedure

1. Click  **My feed**, the profile of the relevant user, the relevant group, or  **All company feed**, depending on whether the information is to be displayed only to those users who follow your feeds, only to the members of a certain group, or to all users. If you post information to All company feed, it is possible that your information will not be seen by the relevant users, as some users do not use **All company feed** due to the large number of posts and the associated complexity.
2. Enter or copy your text into the input field. Up to 2000 characters are available.
3. To create a link to another user in the text, enter an '@' at the relevant point in the text, immediately followed by the name of the user. The search results are displayed during input.
4. Continue entering characters until the relevant user or group is displayed.
5. Click the name you are looking for.
6. Click  **Tag**.
7. Enter the words to be used as keywords (page 715) in the tag input box, e.g., BPM. Alternatively, select an existing tag from the list of tags. It is displayed as soon as you enter a letter that is part of an existing tag. Press the Enter key after each keyword.
8. Click  **Link**.
9. Insert a link to a Web site that contains more detailed information.
10. Click **Add link**. The link is checked and added.
11. Click  **File**. The **Select document** dialog is displayed.
12. Click  **Upload new document** to upload one of your own documents. The dialog opens.
13. Select the file you want to upload and enter the relevant additional information.
14. Click **Upload**.
15. Enable the check box of the document you want to add to your post.
16. Click **OK**.
17. Select the target group (page 714) by entering the first letters of the relevant group, then select one of the options displayed. By default, a new post is public.
18. Click **Post**.

Your post is published. If you published something in your feed, the text is also displayed in the company feeds. If you posted something to another user's feed, this post is also displayed in the company feed and if you are following the other user's feed, this post is displayed in your feed as well. If you published a post in a private group you are a member of, the post is shown only to group members.

If **follow users/groups/models automatically** is enabled in the configuration, you automatically become a follower of users, groups, or models, by posting or commenting on their feeds. To stop following this content, click **Unfollow**.

To remove the post from your feeds, click **Delete**. Administrators can delete posts made by all users.










### 4.3.7 Comment on, share, flag posts, etc.

Depending on whether a post is your own or from another user, you can perform different actions.

#### Prerequisites

- The Like button, commenting on and sharing content, creating bookmarks, and flagging posts are activated in ARIS Administration configuration.
- You have the required access privilege (page 280) in ARIS Architect.

#### Procedure

1. Open the page containing the relevant post.
2. Click  **Like** to show other users what interests you. The user who wrote the post receives a notification, if they have the relevant notification setting. The post is also flagged accordingly and added to your filter. To cancel your Like, click  **Unlike**.
3. Click  **Comment** to enter a comment or further information for a post. You can also add a link to a Web site.
4. Click  **Share** to comment on a post by another user and publish it in your own feed. To remove the post from your feeds, click **Delete**. Administrators can delete posts made by all users.
5. Click  **More > Bookmark** to add a post to your filters, so that you can easily find it again (**Filters >  My bookmarks**).
6. Click  **Edit** or  **More > Edit** to change or correct a post or comment you already published. Editing is possible as long as no other user has liked or commented on your post or comment yet.
7. Click  **More > Flag** if you want the Collaboration administrator to review a post you think is inappropriate.

Depending on the selected action, the affected users receive a message by e-mail.

### 4.3.8 Add documents to posts

You can use documents from ARIS document storage in your posts. Use documents that have already been uploaded to ARIS document storage or upload new documents yourself.

#### Prerequisite

Using documents from ARIS document storage is activated in the ARIS Administration configuration.

#### Procedure

1. Add your post (page 705) or comment to the relevant feed (🗨️ **My feed**, 🗨️ **All company feed**, or your group feeds).
2. Click 📎 **File**. The **Select document** dialog is displayed.
3. Click 📄 **Upload new document** to upload one of your own documents. The dialog opens.
4. Select the file you want to upload and enter the relevant additional information.
5. Click **Upload**.
6. Enable the check box of the document you want to add to your post.

You have added a document to your post.

### 4.3.9 View notifications and specify settings

Read your internal notifications and specify the situations in which you want to receive a notification about activities in Collaboration as well as the notification frequency.

#### Procedure

1. Click 1 **View notifications**. Your notifications are displayed. Various filters provide you with a better overview, e.g., **All**, **Unread**, **Read**.
2. Click **Change your notification settings**. Your notification settings are displayed.
3. Specify the situations in which you want to be informed about activities by other users, groups, or portal feeds. In each case, decide whether you want to receive the notification as an internal notification in Collaboration (**In-app**), or as an **E-mail**.
4. Specify the notification frequency, e. g., **Daily digest**. If you do not want to receive e-mail notifications, select **Never** for the relevant situation.
5. Click **OK**.

Your settings are saved. From now on, you will be notified according to your specifications. The time for daily digest e-mail and the day for weekly digest e-mail are defined by the Collaboration administrator.


### 4.3.10 Define filters

Define custom filters to find interesting posts quickly and easily using keywords or to gain a better overview.

#### Prerequisite

Creating filters is activated in ARIS Administration configuration.

#### Procedure

1. Click  **Create filter**. The form for creating a filter opens.
2. Select the relevant filter criteria, e.g., whether you want all feeds or only feeds you follow to be included in the filter.
3. Enter a name for the filter.
4. Specify the keywords that can be used to find relevant posts. Use a space to separate the keywords.
5. Click **OK**.

The filter is saved and is displayed under **Filters**. Click the filter name to display the posts that contain the specified keywords.

To change a saved filter, click **Filter XY** >  **Edit filter**. To delete filters that you no longer require, click  **Delete filter**.




### 4.3.11 Use tags

Use tags to categorize posts using keywords. This enables other users to find posts on interesting topics more easily.

#### Prerequisite

Creating tags and filtering using tags are activated in the ARIS Administration configuration.

#### Procedure

1. Add your post (page 705) to the relevant feed ( **My feed**,  **All company feed**, or a group feed).
2. Click  **Tag**.
3. Enter the words to be used as keywords (page 715) in the tag input box, e.g., BPM. Alternatively, select an existing tag from the list of tags. It is displayed as soon as you enter a letter that is part of an existing tag. Press the Enter key after each keyword.
4. Click **Post**.

Your post is published. The keywords entered as tags are shown below the post. You can add or delete tags at any time.

### 4.3.12 Filter feeds by means of tags

Use tags (page 715) to filter feeds using keywords.

#### Prerequisite

- Creating tags and filtering using tags are activated in the ARIS Administration configuration.
- There are tags for the feed.

#### Procedure

5. Open the relevant feed overview (👤 **My feed**, 👤 **All company feed**). The tags are displayed above the feeds.
6. Click the tags for which you want to see posts. You can combine multiple tags. Activated tags are indicated in color.

You are shown the posts containing the tags selected.

To cancel the filter, click the selected keywords again.

### 4.3.13 Use hashtags

Use hashtags (page 715) to categorize posts using keywords or topics. This enables other users to find posts on interesting topics more easily.

#### Procedure

1. Add your post (page 705) or comment to the relevant feed (👤 **My feed**, 👤 **All company feed**, or your group feeds).
2. Enter the word to be used as a keyword, preceded by a # symbol, e.g., #BPM, or enter a sentence. Alternatively, select an existing hashtag from the list.
3. Publish (page 705) the post.

Your post is published and the keyword entered as a hashtag is highlighted in color as a link. Tags are automatically created for hashtags so that they can be used to filter feeds.

If a user clicks the hashtag, all post and comments subsequently entered are displayed on a separate page. A hashtag can be saved as a filter (page 708). You can then use the same hashtag in the filter definition, e.g., #BPM.

### 4.3.14 Find help

In addition to this online help, there are various ways you can find support in Collaboration.

#### Procedure

Publish a post containing your question and use the hashtag (page 715) **#Help**.

This keyword enables other users to find and reply to your question. Alternatively, contact your system administrator.

## 4.3.15 Work with groups

### 4.3.15.1 Create a group

Create your own group if you cannot find any interesting groups or you need a group for your team. Groups enable users to collaborate in a team and to participate in a special interest group or a particular topic.

#### Prerequisite

Creating groups is activated in ARIS Administration configuration.

#### Procedure

1. Click **+ Create group**.
2. Enter the name of the group and the short name.
3. Describe the group's interests, so that your group can be found by other users. The best way to do this is to use keywords.
4. If necessary, specify an additional coordinator who will manage the group profile and privileges (**+ Add coordinator**).
5. Enable the relevant privacy option (**Public/Private**). After saving the group, you can not change this option.
6. For private groups, you can follow portal feeds (page 712).
7. Click **OK**. The group is displayed in your groups list.
8. To remove the group from your groups list, click **★ Unpin** next to the group's name. This is useful to provide a better overview if you are following a lot of groups.

The group is created. Depending on your decision, the group is displayed or not under **Groups**. Using tags, other users can find the group and follow its posts. In private groups, only members are able to read the posts. The group's name and description will, however, be visible in search results for non-members, as well.

### 4.3.15.2 Edit or delete a group

Change the details of a group, if the information is outdated. Delete an unused group, for example, to provide a better overview.

#### Prerequisite

You are the coordinator of the group.

#### Procedure

1. Under **Groups**, click the group that is to be edited.  
If the group is not displayed in your groups list, because it is unpinned (page 711), click **Find groups** and then the relevant group.  
The **Edit group** form is displayed.
2. Change the relevant information, such as name, description, keywords, etc.
3. If necessary, specify an additional coordinator who will manage the group profile and privileges (**+ Add coordinator**).
4. For private groups, you can follow portal feeds (page 712).
5. Click **OK**.

Your changes are saved.

### 4.3.15.3 Unpin and pin your groups

Decide if groups you are following should be displayed or not in your groups list. This is useful to provide a better overview if you are following a lot of groups.

#### Procedure

1. To remove a group from your list, move the mouse pointer over the group name you want to unpin from the list.
2. Click **✖ Unpin**. The group is removed from the list.
3. To display a group in your groups list, click **Find groups** and then the relevant group. The **group** is displayed.
4. Click **★ Pin** next to the group's name. The group is displayed in your groups list.

Depending on your decision, the group is displayed or not under **Groups**.





### 4.3.15.4 Invite other users to join a group

Invite other users to become a member in a specific group.

#### Procedure

1. Activate the group you want to issue an invitation for.
2. In the **Add colleagues** box, enter the name of the person you want to invite.
3. Click **Add**.

The user receives a notification that they have been invited to join a private group. This user can then request membership of the group ( **Find groups > Send request**). If the group coordinator approves (page 713) the request, the user can read the posts, comments, etc., by this group, and can himself post content in the group.

Group coordinators can add more users to a group directly (**Add colleagues**). That user immediately becomes a member of the group and receives the posts, comments, etc., by the group ( **My feed**).

### 4.3.15.5 Follow portal contents as a group

Follow interesting content for private groups in ARIS Connect to be informed about updates, etc., in Collaboration. This enables a private group, e.g., a project team, to jointly discuss and edit relevant processes.

#### Prerequisites

- The group is a private group.
- You are the coordinator of the group.
- The item from ARIS Connect must be followed as a portal feed in Collaboration.
- You have the required access privilege (page 280) in ARIS Architect.

#### Procedure

1. Under **Groups**, click the group that is to follow portal feeds.  
If the group is not displayed in your groups list, because it is unpinned (page 711), click **Find groups** and then the relevant group.
2. Click **Edit group**.
3. Click **Follow portal feeds**. The **Find portal feed** dialog opens.
4. Enter a search term for finding the portal feed. Please ensure that the spelling is correct.
5. Click **Find** or press the Enter key.
6. Click the required portal feed in the search result.
7. Click **OK** in both the dialog and the group.

Using the **Following** button, the group can view the portal feed. Comments, etc., are shown directly in the group. To unsubscribe a group from a portal feed, the group coordinator removes

the portal feed from the list of feeds followed by the group (**Group XY > Edit group > Followed portal feeds > Delete**).

Users of the group are notified when the portal feed has changed or comments have been added to it.

### 4.3.16 Edit requests to join private groups as a coordinator

Edit requests for group memberships.

#### Prerequisite

The group is a private group you are the coordinator of.

#### Procedure

1. Open the group.
2. Click **Requests**. The user requests are displayed.
3. For each request, click **Approve** or **Deny**.

If the user was accepted as a group member, the user will be notified accordingly and displayed in the list of followers. If the user was denied membership the user and all other group coordinators receive a corresponding notification.

### 4.3.17 Grant/revoke group users coordinator privileges

Grant additional group members coordinator privileges or revoke them from them.

#### Procedure

1. Open the private group.
2. Click **Followers**. The members of this group are displayed.
3. In the row for the group member you want to grant/revoke coordinator privileges to/from, click **Grant** or **Revoke**. The button always shows the command that can be executed next, i.e., **Revoke** if the user has administrator privileges, and vice versa.

The user is granted coordinator privileges (page 716) or they are withdrawn. The user receives a notification. If a user is granted coordinator privileges all other coordinators of the group receive a notification, as well.

A coordinator can cancel group membership only if another coordinator withdraws the coordinator privileges from the user first.

#### Tip




The **Remove** button removes the user from the group. The **Revoke** button revokes the user's coordinator privileges.

## 4.3.18 Valuable information

This section provides background information to assist you in carrying out the relevant procedures.






### 4.3.18.1 What is a feed?

Feeds contain the posts (page 705) in Collaboration, which for example, can be commented (page 706) on. The posts are categorized as follows:


-  **My feed**  
Shows the posts and comments by the users from Collaboration whose feeds you follow.
-  **All company feed**  
Shows all posts and comments by users and public groups from Collaboration.
-  **My portal feeds**  
Displays a linked list of the portal feeds you follow. Portal feeds are only available if Collaboration is used within ARIS Connect.

### 4.3.18.2 Which target groups can be assigned to posts?

The following target groups can be selected for posts (page 705):

-  **Private**  
Only the creator can see this group. You can use it to keep your own notes.
-  **Public**  
All users can see this group.
-  **Public Collaboration group**  
Only members of the selected public group(s) can see this group. Multiple selection is possible.
-  **Private Collaboration group**  
Only members of the selected public group(s) can see this group. Multiple selection is possible, but you can assign only groups you are a member of.
-  **ARIS user group (ARIS Administration)**  
Only members of the selected ARIS user group(s) can see this group. Multiple selection is possible, but you can assign only groups you are a member of.


By default, a new post is public. Any combination of ARIS user groups, public Collaboration groups, and private Collaboration groups is possible. It is not possible to assign users.

In a post, you can move the mouse pointer over the group symbol () to view the names of assigned groups.



The Collaboration administrator can view all posts, even the private ones.

### 4.3.18.3 What does following posts mean?

When you follow users, you have access to the posts that they publish in their feeds. In private groups, a coordinator must confirm your request before you are allowed access to this group's posts, comments, etc. In public groups you have immediate access to the group.

The feeds you follow are displayed under  **My feed** and the groups you follow under **Groups**. To stop following a user or group, click **Unfollow** in the user or group profile. Users who are following your feeds are displayed under **Followers** in your profile. Users and groups you are following are displayed under **Following** in your profile.

### 4.3.18.4 What does Like mean?

By clicking on  **Like** under a post, you are telling other people that you are giving this post a positive rating, but without leaving a comment. Just like a comment, this is shown along with your user name below the post. To cancel your Like, click  **Unlike**.

### 4.3.18.5 What is a timestamp?

A timestamp (page 706) indicates when a post was last updated in Collaboration. Example: Last update was 2 hours ago. Timestamp = **2 h**.

### 4.3.18.6 What is a tag?

Tags are used to categorize posts using keywords, making them easier to find (page 709). The keywords entered as tags are shown below the post. Tags are automatically created for hashtags so that they can be used to filter feeds.

### 4.3.18.7 What is a hashtag?

Hashtags are used to categorize posts and comments using keywords or topics, making them easier to find. The keyword entered as a hashtag is displayed as a link, highlighted in color. If a user clicks the hashtag, all post and comments subsequently entered are displayed on a separate page. A hashtag can be saved as a filter (page 708). You can then use the same hashtag in the filter definition, e.g., #BPM.

A hashtag consists of the **#** character followed by a keyword or phrase. There is no space after the **#** and the phrase does not contain any punctuation marks.

#### Examples

#BPM

#Optimize your processes using social collaboration

### 4.3.18.8 What does flagging a post mean?

You can send (page 706) posts you deem inappropriate to the Collaboration administrator for review. The administrator decides whether the post will be deleted or not.

### 4.3.18.9 Which group types exist?

Groups can be created (page 710) for teams, departments, interest groups, topics, projects, etc. There are public and private groups. Public groups are open to all users. For private groups, a coordinator decides who is to be granted access (page 713) to the group.

### 4.3.18.10 Which access privileges of ARIS Architect are relevant to Collaboration?

For some interactions in Collaboration, users need special access privileges, for example, to post on portal feeds. These access privileges are assigned in ARIS Architect. You can synchronize the privileges in Collaboration manually, after you edited them in ARIS Architect. The following database access rights are relevant to Collaboration:

- **No access (----)**  
No portal content is displayed.
- **Read (r---)**  
Portal content is displayed. Users can read posts added to models, and they can like, share, bookmark, tag, and flag them. However, they cannot comment on models.
- **Read + Comment (rc--), Read + Write (rw--)** (and all other types of rw access)  
Portal content is displayed. Users can use all functions of Collaboration.

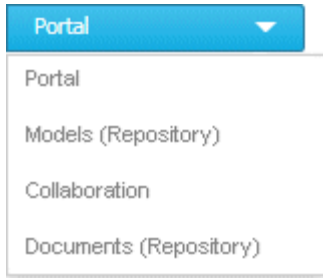
For detailed information about access rights, refer to the help in ARIS Architect (ARIS Configuration and Administration).

## 4.4 Search content

Searching in ARIS Connect enables you to conveniently find items such as models, objects, documents, groups in Collaboration, etc., throughout the system.

You can use the quick search (page **Error! Bookmark not defined.**) on the start page to access items directly. Or you can use the Search area (page **Error! Bookmark not defined.**) to define the search context beforehand and filter the search results.

The area to be searched and the search results depend on your license. If you use an **ARIS Connect Designer** license, you can access the following search context:



If you use an **ARIS Connect Viewer** license, the **Models** search context is not available. Models found can be opened for editing, but users with an **ARIS Connect Viewer** license have read-only access to models.

### 4.4.1 Open Search area directly

You can open the Search area directly.

#### Procedure

##### Open Search area

1. If necessary, select the database (page **Error! Bookmark not defined.**) your search is to be based on.
2. Click  **Search**.

##### Open Search area using the menu

3. If necessary, select the database (page **Error! Bookmark not defined.**) your search is to be based on.
4. Top right, click your user name. The menu opens.
5. Click **Search**.

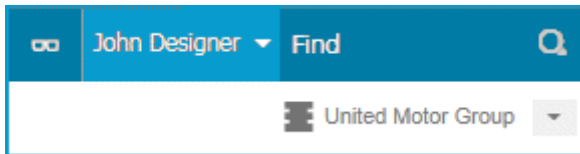
The Search area opens and you can browse ARIS Connect for the relevant terms.

## 4.4.2 Open Search area with term to be searched for

You can open the Search area using the term you want to find.

### Procedure

1. If necessary, select the database (page **Error! Bookmark not defined.**) your search is to be based on.
2. Click in the **Find** box.



3. Enter the term you want to find. The search list is shown.
4. Click **Show all** at the end of the list.

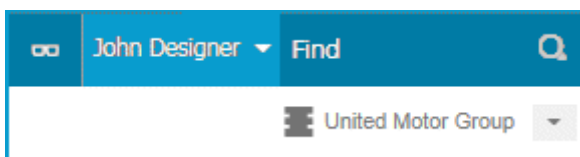
The Search area opens with the results for the term you entered.

## 4.4.3 Start quick search

You can begin the search for items directly on the start page of ARIS Connect.

### Procedure

1. If necessary, select the database (page **Error! Bookmark not defined.**) your search is to be based on.
2. Click in the **Find** box.




3. Enter the relevant term.  
A list with the first results (page **Error! Bookmark not defined.**) will be shown as you enter the term. As you complete the term, the list will be updated.
4. In the list, click the entry to which you want to navigate.

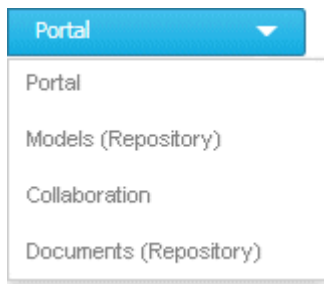
The item opens. For example, if you click the name of an object, it is displayed in the portal. If you click a comment, it is output in Collaboration. If you click the name of a model, the model opens in Model Editor.

## 4.4.4 Find using the Search area

You can use the Search area to find items. The Search area offers a wide range of filter options.

### Procedure

1. If necessary, select the database (page **Error! Bookmark not defined.**) your search is to be based on.
2. Click  **Search**.
3. Enter the term you want to find. The items found will be presented in a list.
4. Click the down arrow that follows the term you entered and select the search context, e.g., **Portal** or **Documents**.



The search results are updated according to the search context. If filters are available for the selected context, they are listed in the **Filters** area.

5. In the **Filters** area, click the relevant filters and adjust the filter properties as necessary (page **Error! Bookmark not defined.**).

The result of the search will be updated to reflect the search context and filter criteria you specified.

## 4.4.5 Jump to an item found

You can use jump to items that are listed in the **Search** area.

### Procedure

1. Perform a search (page **Error! Bookmark not defined.**) and filter the search result (page **Error! Bookmark not defined.**) if necessary.
2. Click the name of the relevant item, e. g. the name of a model. If you performed the search in the Model context (page **Error! Bookmark not defined.**), the model is opened on a new tab for editing (page 741). If you performed the search in the Portal context (page **Error! Bookmark not defined.**), the fact sheets of the model is opened.
3. When you reopen the Search area, the search result is still available and you can jump to another item.

You navigated from the search result to a found item.

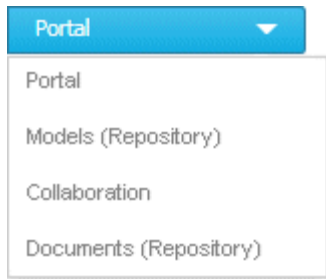


## 4.4.6 Use search context and filters

You can restrict the result in the Search area (page **Error! Bookmark not defined.**) to the items you want to find by using the search context and filters.

### Procedure

1. In the Search area, click the down arrow that follows the term you entered, and select, e.g., **Portal**, **Models (Repository)**, **Collaboration**, or **Documents (Repository)**.

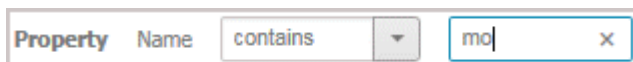


The search result will be restricted to the range you selected. If the search result can be filtered, filter criteria will be listed in the **Filters** area.

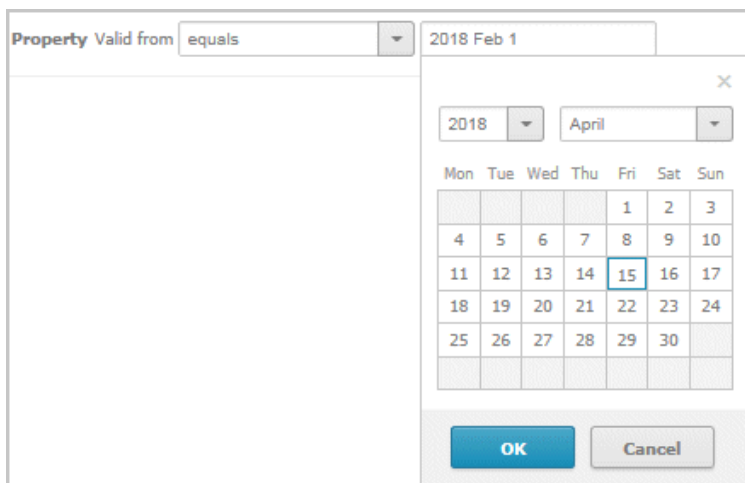
2. Click one or more filter criteria. The selected filter criteria will be listed and the search result updated. If you have selected a filter criterion that you can define more precisely, another area with subordinate filter criteria will be added to the **Filters** area.
3. Click additional criteria. The selected criteria will be displayed in the Search area and restrict the search result.
  - a. Selected filter criteria are listed:



- b. You can enter properties as the search criterion for certain filter criteria, e.g., the file name:



You will be offered different input options depending on the property type. A calendar opens so you can select a date:



4. If necessary, specify the property of the search criterion.
5. To clear a selected filter criterion, click **×** **Clear**. The filter criterion will be cleared and the search result updated.
6. To see more search criteria, click **Show more** in the **Filters** area. The list will be extended.
7. To clear all filter criteria for an area, click **Clear subordinate filters**.
8. To clear all filters and base your search on other search criteria, click **Clear all filters** in the **Filters** area. All previously selected search criteria will be cleared.

The list of results will be updated according to the search context and the selected criteria.

#### 4.4.7 Save search settings as a favorite

In the Search area (page **Error! Bookmark not defined.**), you can save your search settings. Thus, you can search the content based on specific settings at any time.

##### Procedure

1. Select the filter criteria (page **Error! Bookmark not defined.**) to define your search.
2. Click **☆ Save search query as favorites**. The dialog opens.
3. Enter a name.
4. Click **OK**.

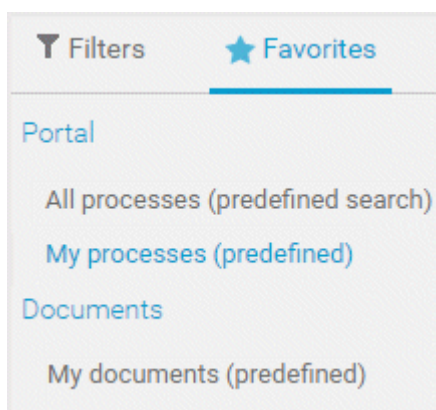
The search settings are saved in the **Favorites** area. You can filter the content based on these settings (Seite 578) at any time from various devices.

#### 4.4.8 Use a favorite in the Search area

In the Search area (page **Error! Bookmark not defined.**), you can open a favorite setting to filter the content based on predefined filter criteria.

##### Procedure

1. Click **Favorites** in the **Filters** bar.



- Click the favorite setting you want to use as the filter.

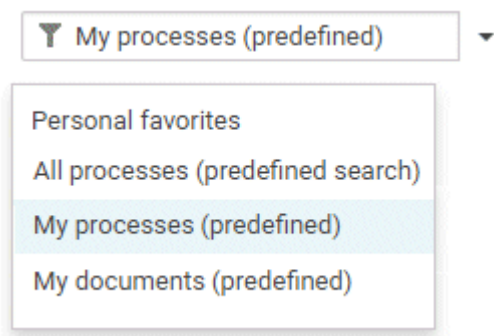
The filter criteria of the selected favorite setting are immediately applied and the list of filter results is updated.

#### 4.4.9 Use a favorite in the Favorites area

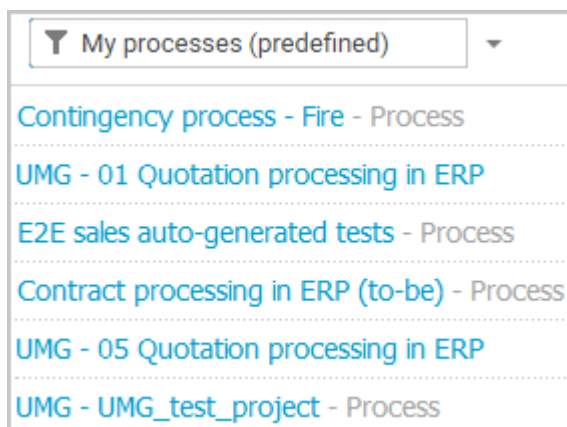
In the Favorites area (page 580), you can open a favorite setting to filter the content based on predefined filter criteria.

##### Procedure

- In the Portal, click **My Favorites**.
- Click the ▼ **down arrow** of the **Filter selection** field.



- Click the context caption to select the relevant filter settings, e. g., **My processes (predefined)**. The content of the selected database is filtered.



If the filter result does not fit on one page, page numbers are displayed behind the **Filter selection** field.

- Click the page numbers to display the content of the corresponding pages.
- Click the name of the item. The item opens.

You have filtered database content based on your filter setting and opened one of your favorites using the **Favorites** tab.

## 4.4.10 Clear filters

You can clear filter criteria in more than one way.

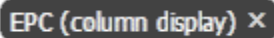
### Procedure

#### Clear a selected filter criterion

You can clear a single filter criterion.

### Procedure

To the left of the result list, click a selected filter criterion again or click **×** **Clear** for a filter criterion.

A dark grey button with white text that reads "EPC (column display) ×". The button has rounded corners and a subtle shadow.

The filter criterion is cleared and the list of filter results updated.

#### Clear criteria from the main filter area

You can clear all filter criteria from the main filter area. The main filter area is the upper part of the filter bar located to the left of the list of results.

### Procedure

Click **Show all** in the **Filter** bar.

All filter criteria are cleared and the list of filter results is updated.

#### Clear filter criteria from the subordinate filter area

You can clear the filter criteria from the subordinate filter area. If you have selected the **Models** context for filtering, the subordinate filter criteria for models are located in the **Filter** access bar below the main filter area.

### Procedure

Click **Clear subordinate filters** in the **Filter** bar.

The filter criteria of the subordinate filter area are removed and the list of filter results is updated.

#### Clear all filter criteria

You can clear all filter criteria.

### Procedure

Click **×** **Clear all filters** at the top right.

All filter criteria are cleared and the list of filter results is updated.

You have cleared filter criteria.

### 4.4.11 Open search result on separate tab

You can open the items found on a separate tab. In this way, the search result remains available, and you can process the items found one after the other.

#### Procedure

1. Search for an item using the Search area (page **Error! Bookmark not defined.**).
2. Hold down the **Ctrl** key, and click the name of the relevant item.

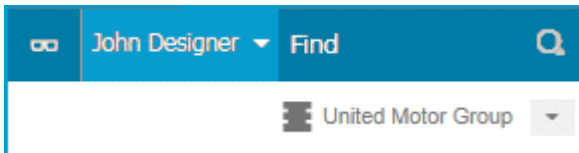
The item will open on a separate tab.

## 4.4.12 Valuable information

This section provides background information to assist you in carrying out the relevant procedures.

### 4.4.12.1 How is the quick search structured?

Quick search consists of a single input box:



A search list is compiled and displayed as soon as you have entered a search term. The first matches are output by category:

John Designer mod	
Portal	Apply for financing Process Receipt of goods (with risks and contr... Process Receipt of goods Process Start model Default Hardware platform for firewall Default
Models (Repository)	Start model Structuring model Demo_bow_tie_model Bow tie diagram Demo_bow_tie_model_3 Bow tie diagram Demo_bow_tie_model_2 Bow tie diagram Hardware platform for firewall IT architecture matrix
UML	No results found
Collaboration	No results found
Documents (Repository)	AGE_UC_Configure_tool.doc ARIS Document Storage_SharePoint.p... ARIS Server Installation and Administr...
80 matches in this category <a href="#">Show all</a>	

The total number of matches is output at the end of the search list.

To access all matches, click **Show all**. The Search area opens (page **Error! Bookmark not defined.**).

## 4.4.12.2 How is the Search area structured?

The Search area (page **Error! Bookmark not defined.**) includes a list of all matches.

To the right of the search term you entered, you can select the search context, e.g., **Portal** or **Documents**.

To the left of the list, the filter criteria are offered under **Filters**. If you click the filter criteria, they are listed above the matches and restrict the list of results. Clicking a selected filter criterion again or clicking **×** **Remove** will clear the criterion. For certain filter criteria, such as the file name, you can enter properties as the search criterion, e.g., a term that should be present in the name.

You can clear filter criterions (Seite **Error! Bookmark not defined.**) in several ways. You can save filters settings (page 578) and access saved filter settings (Seite 578) via the Favorites access bar.

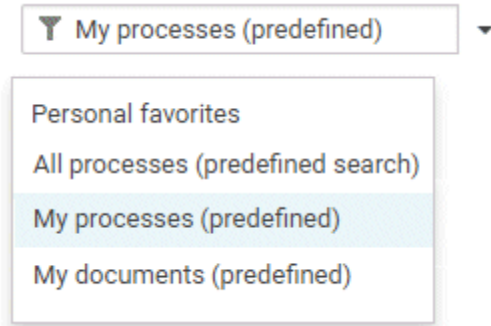
If there are too many matches to display all at once, page numbers appear at the end of the list of results. If you click one of these numbers, the matches on that page will be output.

The screenshot shows the ARIS Connect search interface. At the top, there is a search bar with the text 'model' and a dropdown menu set to 'Portal'. To the right of the search bar are icons for favorites, a star, and a user profile. Below the search bar, there is a 'Filters' section with a 'Process' filter selected. The search results are displayed in a list format, showing two items:

Property	Name	Contains	Rec
	Receipt of goods - Process		
	Path: /Main group/2. Processes/2.1 Process architecture/2.1.1 Core processes/2.1.1.5 Procurement/Vehicle management/Receipt of goods/Receipt of goods		
	Description: This model is used to simulate the process of receipts of goods without risks and controls		
	Last change: Sat Apr 01 14:46:06 CEST 2017		
	Model status: Released		
	Receipt of goods (with risks and controls) - Process		
	Path: /Main group/2. Processes/2.1 Process architecture/2.1.1 Core processes/2.1.1.5 Procurement/Vehicle management/Receipt of goods/Extended model with risks and controls/Receipt of goods (with risks and controls)		
	Description: This model is used to simulate the process of receipts of goods with risks and controls		
	Last change: Sat Apr 01 14:46:06 CEST 2017		

### 4.4.12.3 How is the Favorites area structured?

The **Filter** area reflects the saved search context. The search contexts are structured by captions, e.g., **Portal** or **Documents**. The saved favorites are grouped under the captions. Thus, you are able to immediately recognize the search contexts of the favorites.



### 4.4.12.4 How can search results be influenced?

If you use quick search (page **Error! Bookmark not defined.**) or the Search area (page **Error! Bookmark not defined.**) to find items, the list of results will be influenced by the selected database (page **Error! Bookmark not defined.**) and the license you are using.

For example, if you are using an **ARIS Connect Viewer** license, the **Models** area, from which you can open models for editing in the Model Editor, will not be displayed. This area is displayed to users with the **ARIS Connect Designer** license. These users are allowed to open models for editing.



## 4.5 Use the repository

The repository contains, e.g., databases and documents of the selected server. In the database, you can navigate to a database group and edit its content, e.g., rename models and objects.

### 4.5.1 Create and edit models

The Model Editor allows you to edit existing and new models (page 728) in ARIS Connect. Using the **ARIS Connect Designer** license privilege you can create new models (page 729) directly in the portal, as well as edit (page 741) or create models (page 729) in the repository.

You can access the entire modeling functionality of Model Editor via buttons and bars (page 809) that you can use to efficiently edit your models.

If you have created or opened a model, you can set up the perspective (page 732) and adjust it to your own needs. Modeling (page 741) your organization, processes, data, etc., is just as simple as extended model editing (page 774). In addition to the graphic information, you can add further information to your models using attributes (page 751) that can be placed in the model as a symbol (page 789) or a text (page 785), if necessary.

Of course, you can also add comments to models (page 794) and discuss models with other users.

To use Model Editor, you need to have the **ARIS Connect Designer** license.

#### 4.5.1.1 Create/Import a model

You can use Model Editor to create new models and to import models from ARIS Express (<http://www.ariscommunity.com/aris-express>).

### 4.5.1.1.1 Create new models



You can create new models in order to for example, model procedures as a control flow or model the data generation and usage.

#### Prerequisite



You have the **ARIS Connect Designer** license privilege.

#### Procedure

##### In the portal


1. Open ARIS Connect and log in with your user name and password.
2. Click  **Portal** if it is not activated yet.
3. Click  **Create new model** on the **Quick start (page 611)** area. The dialog opens.
4. Enter a name for the new model in the **Model name** box.
5. Click the **Model type** box and enter part of the model type name. All model types (page 814) are displayed whose names contain the term you entered.
6. Select the required model type. The **Target** area displays the database and group names. This is where the new model will be stored.
7. Click **Change** if you want to store the model in a different database and/or group. The **Select target group** dialog opens.
8. Select the required database in the **Database** box.
9. Select the required group.
10. Click **OK**. The **Select target group** dialog closes.
11. Check your input.
12. Click **OK**. The **Create model** dialog closes.

##### In the repository



13. Click  **Repository**.
14. Select the database group in which you want to create a new model. When you select the group, its content is displayed.
15. In the upper right, click  **Create model**. The dialog opens.
16. In the **Model name** box specify the name that the new model is to be created with in the selected group.
17. Click the **Model type** box and enter part of the model type name. All model types (page 814) are displayed whose names contain the term you entered.
18. Select the required model type.
19. Click **OK**.

The new model is created and opened in a new tab. You can set up Model Editor (page 732) and model the model.

### 4.5.1.1.2 Create a new model using an assignment

You can assign models to objects. The assignment enables you to describe objects in independent models in more detail, for example. Assigned models are displayed by way of an  assignment icon at the object and can be opened by double-clicking the assignment icon.

#### Procedure



1. In the open model, click the object to which you want to assign a new model.
2. Activate the Start (page 819) tab bar.
3. Click  **Assignment** >  **Create assignment**. The dialog opens.
4. Select the required model type. The model types that are allowed for the selected object by the method and by the method filter in use are available for selection.
5. Enter the relevant model name. The name of the selected object is suggested as a model name.
6. Click **OK**.

The new model is assigned to the selected object and opens on a separate tab. You can model the required content.

### 4.5.1.1.3 Create group

You can create a new group in which you can store models and objects.

#### Procedure

1. Click  **Repository**.
2. Select the database group in which you want to create a new group. When you select the group, its content is displayed.
3. In the upper right, click  **Create group**. The dialog opens.
4. Enter the required name in the **Name** box.
5. Click **OK**.

The new group is created as a subgroup of the selected one and you can store models and objects in it.



#### 4.5.1.1.4 Import ARIS Express model

You can import a model from ARIS Express and use it in ARIS Connect. ARIS Express saves models in files of the **ARIS Document Format** format (adf).

##### Prerequisite

- The model is of a model type allowed by ARIS Connect and by the method filter you are using.
- You have a **Designer** (page 9) license.

##### Procedure

1. Click  **Repository**.
2. Select the database group into which you want to import the ARIS Express model. When you select the group its content is displayed and a down arrow ▼ is shown next to the name.
3. Click the ▼ down arrow and select  **Import ARIS Express model**. The dialog opens.
4. Click **Select file** and use the **File Upload** dialog to navigate to the group in which the model is stored in **ADF** format.
5. Select the relevant ADF file and click **Open**.
  - a. The selected model is imported if an ARIS Express filter or an ARIS Express template is available.
  - b. If no ARIS Express filter or ARIS Express template is available, you are asked whether you still want to import the model. If you do import the model, it will not look the same as in ARIS Express. Click **OK**.
6. Then import the ARIS Express filter and/or the ARIS Express template if you want the imported model to appear exactly as it does in ARIS Express.

The imported model is stored in the selected group and you can open it for editing.



#### 4.5.1.1.5 Import BPMN file

You can import (page 830) data from a BPMN file and use the BPMN diagram that was generated by the import in ARIS Connect.

##### Prerequisites

- The method filter you are using allows BPMN diagrams.
- You have a **Designer** (page 9) license.

##### Procedure

1. Click  **Repository**.
2. Select the database group into which you want to import the BPMN diagram. When you select the group its content is displayed and a ▼ **down arrow** is shown next to the name.
3. Click the ▼ **down arrow** and select  **Import BPMN diagram**. The dialog opens.
4. Click **Select file** and navigate to the relevant BPMN file.
5. Select the BPMN file and click **Open**.

The BPMN diagram is stored in the selected group, and you can open it for editing on a tab.

## 4.5.1.2 Customize Model Editor

If you create a new model in ARIS Connect or open an existing model for editing, the model is displayed on a separate tab and the Model Editor is activated. You can set up the Model Editor user interface according to your requirements. In addition, you can apply templates to specify the appearance of model items. The Model Editor provides you with the functionality to

- edit models.
- create new models.
- assign models.
- generate reports.
- comment on models and model items.

### 4.5.1.2.1 Show and hide bars

Using the bar buttons you can show or hide bars as required.

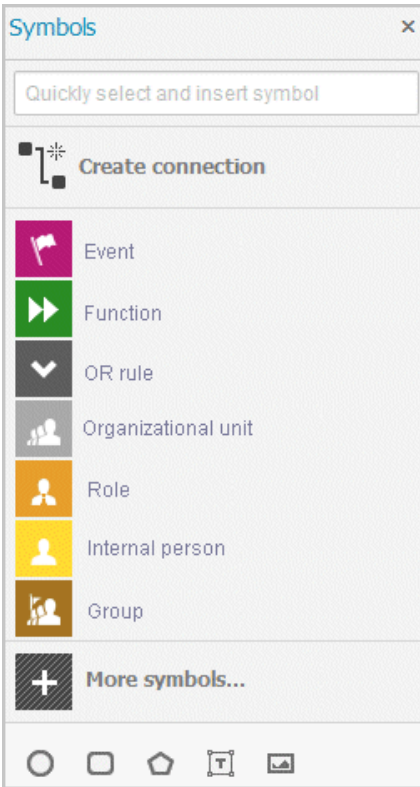
Using the bar buttons you can show or hide the Search and the Comment, Properties, Reports, and Symbols bars. You can also hide or show the header, depending on whether you need more space for the model window or want to be able to see the information provided in the header.

The header outputs the name and type of the opened model. It also displays the current language.

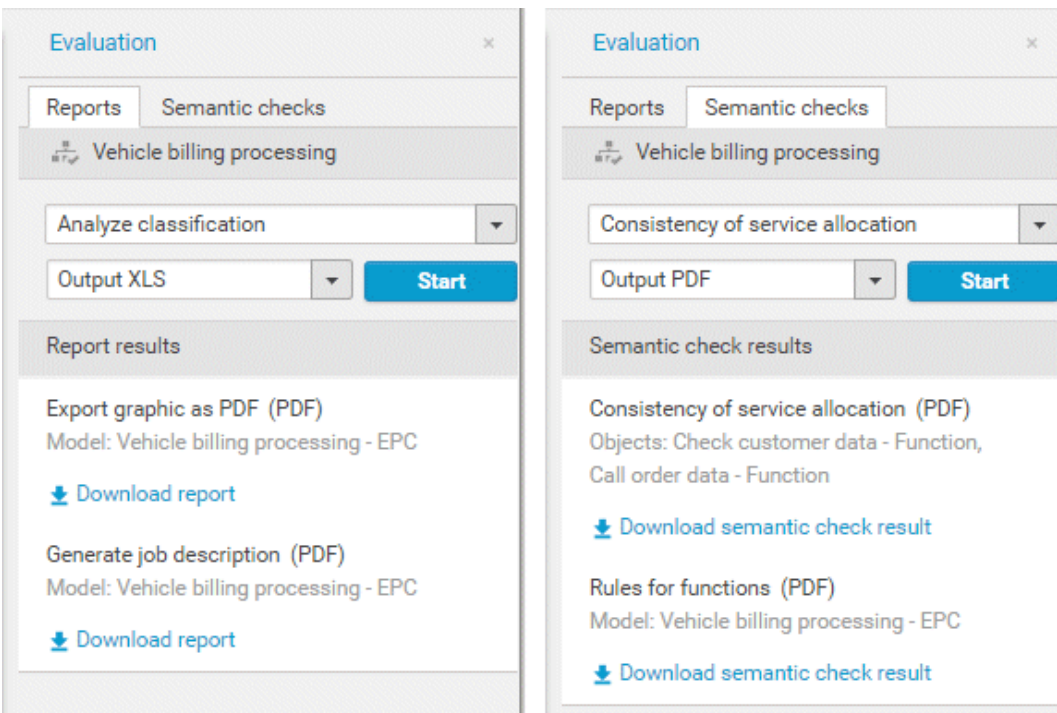
If you change the language (page 742), the text attributes are output in the selected language as long as the text attributes are specified in the target language. If this is not the case, the text attributes are displayed in the alternative language and identified by the language code added to the alternative language.

Logistics - Value-Added Chain Diagram (US ▾)

The **Symbols** bar provides object symbols (page 743), graphic objects (page 748), and text (page 753) for insertion into the model window. It also allows you to filter the available object symbols by entering names and create connections between (page 752) objects.



Click **Evaluation** in the bar buttons to show the **Reports** and **Semantic checks** tabs and generate reports (page 797) and semantic checks evaluations. and semantic checks (page 798).






Click **i Properties** in the bar buttons to show the Properties bar where you can edit attributes (page 751), or view occurrences (page 756) and relationships of objects (page 757), for example.

Attributes	
Name	Value
Name	Procedure
Time of generation	2019 Apr 11 13:44:26
Creator	system
Minimum processing time	2 hours
Last change	2019 May 15 14:59:22
Type	EPC
Last user	system
More attributes...	


Click **Comment** in the bar buttons to show the **Comment** bar that you can use to enter notes, improvement proposals, questions, etc., pertaining to the model (page 794).

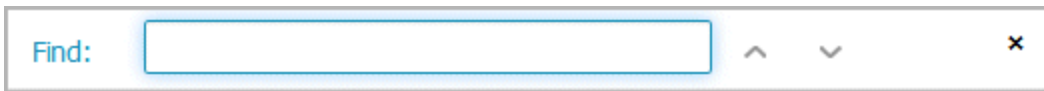
Comment

Follow

Comment

Click  **Find** in the bar buttons to show the Find bar that you can use to have objects selected in the model (page 774).



#### 4.5.1.2.2 Show/Hide header



You can hide or show the header. This means you either have more space for modeling, or are able to view the information displayed in the header.

The header outputs the name and type of the opened model. It also displays the current language.

If you change the language (page 742), the text attributes are output in the selected language as long as the text attributes are specified in the target language. If this is not the case, the text attributes are displayed in the alternative language and identified by the language code added to the alternative language.



#### Procedure

1. Click  **Show/Hide header**. The header is hidden so that more space is available for modeling.
2. Click  **Show/Hide header**. The header is shown and the header information is available to you.

You have adapted the display area according to your requirements.






### 4.5.1.2.3 Customize Symbols bar

You can change the content of the **Symbols** bar so that you are offered only the symbols you need for modeling.





#### Procedure

##### Remove individual symbols from the Symbols bar

1. Open the **Symbols** bar if it is not already open by clicking  **Symbols**.
2. Move the mouse pointer over the symbol you want to remove. Behind the symbol the icon  **Remove** is displayed.
3. Click  **Remove**.






The symbol is removed from the **Symbols** bar.

##### Add a specific symbol

1. Open the **Symbols** bar if it is not already open by clicking  **Symbols**.
2. In the **Symbols** bar, click  **Add/Remove symbols**. The dialog opens. Objects displayed in the **Symbols** bar are followed by a  check mark.
3. Click the **Enter symbol name** box and enter the name of the required symbol partly or entirely. All object symbols are displayed whose names contain the term you entered.
4. Click the symbol not yet displayed in the **Symbols** bar that you want to include. A  check mark is added to the symbol.
5. Click **Close**.





The selected symbol is added to the **Symbols** bar.

##### Overall setup of the Symbols bar

1. Open the **Symbols** bar if it is not already open by clicking  **Symbols**.
2. In the **Symbols** bar, click  **Add/Remove symbols**. The dialog opens. Objects displayed in the **Symbols** bar are followed by a  check mark.
3. Click the symbols that are displayed in the **Symbols** bar, but that you no longer want to display. Their  check marks are removed.
4. Click the symbols not yet displayed in the **Symbols** bar that you want to include. A  check mark is added to these symbols.
5. Click **Close**.

The **Symbols** bar now provides you with the object symbols required for modeling your model. If you placed an object symbol using the **Symbols** bar, you can then use the mini toolbar (page 824) to create further objects.

## Restore defaults

1. Open the **Symbols** bar if it is not already open by clicking  **Symbols**.
2. In the **Symbols** bar, click  **Add/Remove symbols**. The dialog opens. Objects displayed in the **Symbols** bar are followed by a  check mark.
3. Click **Restore defaults**. A  check mark is added to the object symbols that the system provides in the **Symbols** bar by default.
4. Click **Close**.



All symbols that are part of the system default are visible in the **Symbols** bar.

The **Symbols** bar provides the object symbols that you want to use.

### 4.5.1.2.4 Customize Attributes tab

You can show additional attributes or specify whether and when attributes are to be shown.

#### Procedure


1. Click  **Properties**. The Properties bar opens.
2. Click the **Attributes** tab if it is not activated yet.
3. Click **Edit language** if you want to show (page 800) an additional language column for language-specific attributes. You can select an additional database language and view and edit it next to the language currently used.
4. Click **Add** on the **Attributes** tab. The **Select attribute** dialog opens.
5. Enter a search term for the attribute you want to display. A list of all attributes whose names contain the term you entered is displayed.
6. Click the relevant attribute.
7. Click **OK**. The selected attribute is added to the **Attributes** tab.
8. Click  **More** next to the attribute whose visibility you want to specify.
9. Click **Hide always** if you want to hide the attribute from the **Attributes** tab even if a value has been specified. For the attribute to be displayed at a later time you need to select it explicitly by clicking **Add**.
10. Click **Hide, if not specified** if you want the attribute to be displayed in the **Attributes** tab only if a value has been specified.
11. Click **Place attribute** and the relevant position in the model window if you want the attribute value to be displayed in the model.
12. Click **Delete attribute**, if you want to delete the attribute value. You cannot change or delete attribute values of attributes that the system defines. These are placed in gray cells, for example, **Last change**.

The attributes will be displayed in line with your settings.

### 4.5.1.2.5 Show and hide mini toolbar

You can show and hide the mini toolbar for an object.

#### Procedure




1. Select an object in the model. The mini toolbar (page 824) is shown as transparent. When you move the mouse pointer over the mini toolbar it becomes opaque. Now you can configure the mini toolbar (page 738), or click the  **Connection** symbol or object symbols.
2. If you want the mini toolbar to be hidden only temporarily while the mouse pointer is not over the object, move the mouse pointer away from the object until the mini toolbar is hidden. As soon as you move the mouse pointer back towards the object, the mini toolbar is shown again.
3. If you do not want the mini toolbar to be shown for a selected object anymore, move the mouse pointer several centimeters away from this object. The mini toolbar is hidden and is then no longer shown when you position the mouse pointer over the object.  
It will be visible for the object again only if you cancel the selection and select the object again.

Depending on your action, the mini toolbar is either shown or hidden for an object.

### 4.5.1.2.6 Configure mini toolbar

You can define which object symbols the mini toolbar (page 824) should offer for the relevant object type. You are offered only the object symbols for which the creation of a connection to the selected object type is allowed by the method.

#### Procedure


1. Select the object symbol whose object type you want to configure the mini toolbar for. The mini toolbar is shown.
2. Move the mouse pointer to the mini toolbar and click  **Add/Remove symbols**. The dialog opens.
3. Click the symbols that are displayed in the mini toolbar, but that you no longer want to display. Their  check marks are removed.
4. Click the symbols that are not displayed in the mini toolbar, but that you do want to include. A  check mark is added to these symbols.
5. Click **Close**.

Now, when you open the mini toolbar (page 738) the selected object symbols are available.

### 4.5.1.2.7 Change grid width

You can show a grid in the model window (page 809). Model items are aligned to the grid and inserted or moved according to the grid width. In the grid, you can specify how far apart the grid points will be.

#### Procedure

1. Activate the Model (page 820) tab bar.
2. Click  **Grid > Change grid width**. The dialog is displayed.
3. Enter the required grid width or click the up or down arrow to change the grid width.
4. Click **OK**.

The grid is displayed with the new grid width, and model items are aligned and moved within this grid.

### 4.5.1.2.8 Show formatting toolbar

The formatting toolbar is enabled for selected texts, for example, for the text of placed attributes (page 752). The formatting bar is not available for attributes that the system changes, for example, for the attribute **Creator**.

#### Procedure


1. Select the placed attribute in the model window.
2. Click the attribute again.

The text of the attribute is selected for you to overwrite it, and the formatting toolbar is shown. If you deselect the placed attribute, the formatting toolbar is hidden.

### 4.5.1.2.9 Assign model template

You can assign a template (page 869) to a model and thus, change its appearance as well as its attribute placements in the model window (page 809) at once automatically.

#### Procedure


1. Activate the Model (page 820) tab bar.
2. Click  **Template**. The list of available templates is shown.
3. Click the required template.

The content of the model window is adjusted immediately in line with the model template settings.

### 4.5.1.2.10 Reset model template

You can reset the appearance of a model that was assigned templates (page 869) to the ARIS default appearance. Color and size changes and attribute placements assigned by templates are removed.

#### Procedure

1. Activate the Model (page 820) tab bar.
2. Click  **Template**. The list of available templates is shown.
3. Click **Reset**.

The content of the model window (page 809) is adjusted immediately.

### 4.5.1.3 Model

Model Editor assists you in editing models, e.g., by providing a grid (page 743), a mini toolbar (page 750), graphic objects (page 748), or in-place formatting options (page 752).

#### 4.5.1.3.1 Open model for editing

You can open models in different ways.

##### Prerequisite

You have a **Designer** (page 9) license.

##### Procedure

##### Using the search


1. If you are authorized to use multiple databases, activate the database containing the contents you want to access. You can select the relevant database in the portal at the top right below the search.
2. At the top right, click the **Find** box and enter a term that is included in the model name. All models and objects containing this term are listed immediately.
3. In the **Models and objects** category, click the name of the model you want to open.

##### From groups


1. Activate the **Groups** area in the portal.
2. If you are authorized to use multiple databases, activate the database containing the contents you want to access. You can select the relevant database in the portal at the top right below the search. The groups of the selected database are displayed.
3. Select the group containing the required model. The contents of the selected group are listed.
4. Click the name of the relevant model.
5. Click **Diagram** if this display is not enabled yet. The model is displayed.
6. Click **Edit**.

##### From the 'Recent changes' tab

1. In the portal, activate the **Recent changes** tab of the overview. All models are listed that have recently been changed or created.
2. If you are authorized to use multiple databases, activate the database containing the contents you want to access. You can select the relevant database in the portal at the top right below the search. The display of the **Recent changes** tab is adjusted.
3. Click the name of the model you want to open. The **Groups** area opens and the model is activated.

4. Click **Diagram** if this display is not enabled yet. The model is displayed.
5. Click  **Edit**.

### From the repository

1. Activate the  **Repository**.
2. In the database, select the group containing the relevant model. The content of the selected group is listed.
3. Click the name of the model you want to open.

The model opens in a separate tab.

## 4.5.1.3.2 Change database language of a model

You can select a database language other than the one currently in use for a model. This enables you to specify all language-dependent attributes for the model in a language of your choice.

If you change the language (page 742), the text attributes are output in the selected language as long as the text attributes are specified in the target language. If this is not the case, the text attributes are displayed in the alternative language and identified by the language code added to the alternative language.

### Prerequisite

The header is shown (page 735).

### Procedure

1. In the header, click the language code next to the model name. A list of available languages is displayed.

The header outputs the name and type of the opened model. It also displays the current language.

If you change the language (page 742), the text attributes are output in the selected language as long as the text attributes are specified in the target language. If this is not the case, the text attributes are displayed in the alternative language and identified by the language code added to the alternative language.



Logistics - Value-Added Chain Diagram (US ▾)



2. Click the language you want to use for entering the language-dependent contents.

The model window and the bars will directly display the language-dependent contents in the selected language, e.g. on the **Attributes** tab of the **Properties** bar. You can change language-dependent contents specified in this language or enter new contents.

### 4.5.1.3.3 Show and hide grid

If a grid is hidden, you can show it in the model window (page 809). When you place or move model items, they are inserted or moved according to the grid width (page 739). This facilitates the orderly placement of model items.

#### Procedure

1. Activate the Model (page 820) tab bar.
2. Click  **Grid** >  **Toggle grid**.


A dot grid is displayed in the model window. Model items are placed and moved according to the grid width.

To hide the grid, click  **Grid** >  **Toggle grid** again. The dot grid is hidden and model items are placed or moved pixel by pixel.

### 4.5.1.3.4 Set grid width

You can set the grid width. Based on the grid width, model elements are inserted or moved in the model window (page 809).

#### Procedure

1. Activate the Model (page 820) tab bar.
2. Click  **Grid** > **Change grid width**. The dialog opens.
3. Enter the required grid width in the spin box or click the up or down arrow to increase or reduce the grid width.
4. Click **OK**.

Grid settings have been changed.


### 4.5.1.3.5 Place object symbols

You can place object symbols in the model window (page 809) in different ways.

#### Procedure

##### Using the Symbols bar

#### Procedure


1. Open the **Symbols** bar if it is not already open by clicking  **Symbols**.
2. Click the object symbol you want to place in the model window.
3. Click the position in the model window where you want to insert the object symbol. The name of the object symbol is selected for overwriting by default.
4. If necessary, overwrite the previous name with the name of your choice and press Enter.

The object symbol has been inserted in the model window.



## Using the selection box in the Symbols bar

### Procedure

1. Open the **Symbols** bar if it is not already open by clicking  **Symbols**.
  2. In the **Quickly select and insert symbol** box enter a few characters of the object symbol name. All object symbols whose names contain these characters are listed, regardless of whether they are hidden or shown in the **Symbols** bar. The list is continuously updated while you are entering your input.
  3. In the list, click the object symbol you want to place.
  4. Click the position in the model window where you want to insert the object symbol. The name of the object symbol is selected for overwriting by default.
  5. If necessary, overwrite the previous name with the name of your choice and press Enter.
- The object symbol has been inserted in the model window.

## Using the mini toolbar

### Prerequisite

An object symbol has already been placed in the model window.

### Procedure

1. Click the placed object symbol. The mini toolbar (page 824) is shown.
  2. In the mini toolbar, click the symbol you want to place in the model window. A frame is displayed for the new object.
  3. Click the position in the model window where you want to insert the object symbol. The name of the object symbol is selected for overwriting by default.
  4. If necessary, overwrite the previous name with the name of your choice and press Enter.
- The object symbol is placed in the model window and linked to the previously selected object symbol using a connection.



## As an occurrence copy

Create a new occurrence for an existing object. This enables you, e. g., to insert the same organizational unit at all positions in a process where it actually participates in the process.

### Prerequisite

An object symbol has already been placed in the model window.

### Procedure

1. Click the placed object symbol and then  **Copy**.
  2. Click  **Paste**. Alternatively, press **Ctrl + V**. A preview frame is displayed for the new item.
  3. Click the position in the model window where you want to insert the object symbol.
- The object symbol is placed in the model window. It represents the object whose object symbol you copied as an occurrence copy. This means, for example, that the name of both object

symbols is changed, i.e., the name of the copied object symbol and the name of the object symbol copy, if you change it for ONE of the two.



### **As a definition copy**

Use an existing object as the basis for a new object. Thus, you only need to change the attributes by which the new object differs from the source object.

#### **Prerequisite**

An object symbol has already been placed in the model window.

#### **Procedure**

1. Click the placed object symbol and then  **Copy**.
2. Click **▼ down arrow > Definition copy** next to  **Paste**. Alternatively, press **Ctrl + Shift + V**. A preview frame is displayed for the new item.
3. Click the position in the model window where you want to insert the object symbol.

The object symbol is placed in the model window. As a definition copy it represents a new object using the attributes of the object whose object symbol you have copied. The new object is autonomous even though it has the same attributes as the source object. This means, e.g., that the name of the copied object does not change if you change the name of the source object.

You have placed object symbols in the model window.

## **4.5.1.3.6 Place occurrence copy**

You can place occurrence copies in the model window (page 809) in different ways.

#### **Procedure**

##### **By placing an object symbol**


#### **Procedure**


1. Click the relevant object symbol in the toolbar or the mini toolbar.
2. In the model window, click the position where you want to place the object symbol.
3. Enter at least two letters. A list of existing objects is displayed that have the same type as the placed object and whose names begin with the letters entered.
4. Click the name of the object you want to create as an occurrence copy. The name is entered in the object.

The occurrence copy is placed in the model window.

##### **By copying and pasting**

#### **Procedure**

1. In the model window, click the object of which you want to create an occurrence copy.
2. Click  **Copy** in the toolbar.

3. Click  **Paste** in the toolbar. A frame for the occurrence copy is displayed in the model window.
4. Drag the frame to the required position and press the mouse button.

You have placed the occurrence copy.



### 4.5.1.3.7 Paste copied object as an occurrence copy

You can paste a copied object into a model as an occurrence copy. Thus, a new occurrence is created, i.e., a new graphical representation of the object. This means, for example, that changing the name of this occurrence will change the name in all occurrences of the copied object.

#### Prerequisite

The object is allowed to exist in the target model according to the method.

#### Procedure

1. Select the relevant object.
2. Click  **Copy**. Now you can insert the copy into the current or another model.
3. Click  **Paste > Occurrence copy**. Alternatively, press **Ctrl + V**. A preview frame is displayed for the new item.
4. Click the position in the model window where you want to insert the object symbol.

Copying and pasting the occurrence of an object is now complete.

Occurrence copies enables you to quickly reuse the same object at different positions in the same model, or to reuse it in various other models.



### 4.5.1.3.8 Paste copied object as a definition copy

You can paste a copied object into a model as a definition copy. Thus, a new object is created whose attributes are identical with those of the copied object. Changing the attributes of the pasted object will not affect the copied object.

#### Prerequisite

The object is allowed to exist in the target model according to the method.

#### Procedure

1. Select the relevant object.
2. Click  **Copy**. Now you can insert the copy into the current or another model.
3. Click  **Paste > Definition copy**. A preview frame is displayed for the new item.
4. Click the position in the model window where you want to insert the object symbol.

Copying an object and pasting it as a definition copy is now complete.

Using definition copies reduces the effort of creating multiple objects that differ only in a few attributes.


### 4.5.1.3.9 Change object symbol

You can change the symbol for selected objects if various symbols are available for them.

#### Prerequisite

The method filter in use includes different symbols of the objects you selected.

#### Procedure


1. Click an object, or hold the **Ctrl** key pressed to select multiple objects of the same type.
2. Activate the Start (page 819) tab bar.
3. Click  **Change symbol**. The list of object symbols available for the selected object(s) is shown.
4. Click the symbol you want to use from now on for the selected object/s in this model.  
The symbol for the selected object is or the symbols of the selected objects are changed.

### 4.5.1.3.10 Determine the appearance of connections

You can determine the color, the line style and weight, the bridge height, and rounding intensity of connections.

#### Procedure

Determine the connection color



1. Select the connections you want to adjust.
2. Activate the Start (page 819) tab bar.
3. Click  **Line color**. The color palette opens.
4. Click the color you want to apply.

The connection color is adjusted.

#### Tip


Using the color palette, you can define an own color or reset the color to the default color.

Determine the line style and weight

5. Select the connections you want to adjust.
6. Activate the Start (page 819) tab bar.
7. Click  **Line style and weight**.
8. Click **Dotted**, **Dashed**, or **Solid**. The connection style is adjusted.
9. Click  **Line style and weight** again.
10. Click the weight in points you want to display the connections. The connection weight is adjusted.

The line style of the connections is adjusted.

### 4.5.1.3.11 Determine the bridge height and rounding intensity

1. Open the model you want to adjust.
2. Activate the Model (page 820) tab bar.
3. Click . **Connection properties**. The **Edit connections** dialog opens.
4. Click the **Bridge height** field and specify the height of the bridge. The higher the value, the higher the bridge. A preview of the specified bridge height is displayed.
5. Click the **Rounding intensity** field and specify the degree of edge rounding for connections with directional changes. The higher the value, the stronger the rounding. A preview of the specified edge rounding is displayed.
6. Click **OK**.

The bridge height and rounding intensity of the current model's connections are adjusted.



You have adjusted the connections.

### 4.5.1.3.12 Place graphic objects

You can place graphic objects in the model window (page 809) in order to, for example, structure model content.



#### Procedure

##### Place circle

1. Open the **Symbols** bar if it is not already open by clicking  **Symbols**.
2. Click the graphic object  **Circle/Ellipse**.
3. Click the position in the model window where you want to insert the graphic object.



The circle is inserted in the model window. Now you can color the line (page 783) and inside (page 781), and, for example, place the graphic object behind a model area (page 791) to highlight this area.

##### Place square

4. Open the **Symbols** bar if it is not already open by clicking  **Symbols**.
5. Click the graphic object  **Square**.
6. Click the position in the model window where you want to insert the graphic object.

The square is inserted in the model window. Now you can color the line (page 783) and inside (page 781), and, for example, place the graphic object behind a model area (page 791) to highlight this area.



##### Place rectangle

1. Open the **Symbols** bar if it is not already open by clicking  **Symbols**.
2. Click the graphic object  **Square**.

1. Click the position in the model window where you would like to place the graphic symbol, and hold down the mouse button.
2. Drag the mouse pointer in the desired direction so that the placed item receives the required form of a rectangle.
3. Release the mouse button.



The rectangle is inserted in the model window. Now you can color the line (page 783) and inside (page 781), and, for example, place the graphic object behind a model area (page 791) to highlight this area.

### Place ellipse

1. Open the **Symbols** bar if it is not already open by clicking  **Symbols**.
2. Click the graphic object  **Circle/Ellipse**.
3. Click the position in the model window where you would like to place the graphic symbol, and hold down the mouse button.
4. Drag the mouse pointer in the desired direction so that the placed item receives the required form of an ellipse.
5. Release the mouse button.



The ellipse is inserted in the model window. Now you can color the line (page 783) and inside (page 781), and, for example, place the graphic object behind a model area (page 791) to highlight this area.

### Place polygon

1. Open the **Symbols** bar if it is not already open by clicking  **Symbols**.
2. Click the graphic object  **Polygon/Line**.
3. In the model window, click the position where you want the polygon to begin.
4. Click the positions where the lines of the polygon are to change direction.
5. Double-click the position where you would like the polygon to end.

The polygon is inserted in the model window. Now you can color the line (page 783) and inside (page 781), and, for example, place the graphic object behind a model area (page 791) to highlight this area.

### Place line




1. Open the **Symbols** bar if it is not already open by clicking  **Symbols**.
2. Click the graphic object  **Polygon/Line**.
3. In the model window, click the position where you want the line to begin.
4. Double-click the position where you would like the line to end.

The line is inserted in the model window. Now you can color the line (page 783).

### Specify size when placing objects

You can directly resize circles/ellipses and squares when placing them.

#### Procedure

1. Open the **Symbols** bar if it is not already open by clicking  **Symbols**.
2. Click the graphic object  **Circle/Ellipse** or  **Square**.
3. In the model window, click the position where you would like the graphic object to begin, and hold down the mouse button.
4. Drag the mouse pointer in the required direction until the graphic object has taken the shape that you want to place.
5. Release the mouse button.



The graphic object is placed with the required size.

You have placed graphic objects.

### 4.5.1.3.13 Paste copied graphic objects

You can paste copied graphic objects, such as circles or squares, regardless of whether you have copied them from the same or another model.

#### Procedure

1. Select the required graphic objects.
2. Click  **Copy**.
3. Open the target model, if required.
4. Click  **Paste**. Preview frames are displayed for the items you are pasting.
5. Click the position in the model window where you want to insert the graphic objects.

Copying and pasting graphic objects is now complete.

### 4.5.1.3.14 Modeling using the mini toolbar

You can model very effectively using the mini toolbar (page 824). By configuring (page 738) it you are quickly offered the object symbols (page 738) required for your model.

#### Procedure

1. Click a placed object symbol (page 743). The mini toolbar is shown.
2. In the mini toolbar, click the object symbol you want to place. A frame is displayed for the new object.
3. In the model window, click the position where you want to place the object symbol. The object symbol is placed together with a connection to the source object and the name field for overwriting.
4. Enter the relevant name.
5. Press **Enter**.

The new object symbol is placed and the connection to the source object is created automatically.



### 4.5.1.3.15 Add attributes in the Attributes tab

You can edit model attributes and the attributes of objects or connections.

#### Prerequisite

The attribute you selected can be edited. You cannot change or delete attribute values of attributes that the system defines. These are placed in gray cells, for example, **Last change**.

#### Procedure

1. Click  **Properties**. The Properties bar opens.
2. Click the **Attributes** tab if it is not activated yet.
3. If you want to edit model attributes, ensure that no model item is selected.  
If you want to edit object or connection attributes, select the corresponding object or connection.
4. Click  **Add** in the **Attributes** tab. The **Select attribute** dialog opens.
5. In case, you only want to see attributes with assigned value, activate the **Show specified attributes only** check box.
6. Click the **Attribute** field and select the attribute you want to show.
7. Click **OK**.

The attribute is displayed in the **Attributes** tab.


### 4.5.1.3.16 Edit attributes

You can edit model attributes and the attributes of objects or connections.

#### Prerequisite

The attribute you selected can be edited. You cannot change or delete attribute values of attributes that the system defines. These are placed in gray cells, for example, **Last change**.

#### Procedure

1. Click  **Properties**. The Properties bar opens.
2. Click the **Attributes** tab if it is not activated yet.
3. If you want to edit model attributes, ensure that no model item is selected.  
If you want to edit object or connection attributes, select the corresponding object or connection.
4. Display the relevant attribute (page 751) if it is not listed.
5. Click the cell that comes after the name of the attribute. A dialog is displayed. If you can enter any text for an attribute, a dialog including the formatting toolbar is displayed. If required, you can enlarge (page 802) this dialog.



6. Make your changes. Different input options are available depending on the type of attribute. While you can enter text for text attributes such as names, you can, for example, select a number and a unit for times.
7. Click **OK**.

You have changed the attribute value.


### 4.5.1.3.17 Directly format placed attributes

You can format model, object, and connection attributes when editing in the model window.

#### Prerequisite

The attribute you selected can be edited. You cannot change or delete attribute values of attributes that the system defines. These are placed in gray cells, for example, **Last change**.

#### Procedure

1. Double-click the placed attribute of a model, object, or connection so that the text is selected. The formatting toolbar is shown.
2. In the formatting toolbar, click the button for the formatting you want to assign to the selected attribute, e.g.,  **Increase indent**. The formatting information is directly applied to the selected attribute.
3. Click an empty area in the model window. The attribute selection is undone.

You have formatted the placed attribute.

### 4.5.1.3.18 Create connections

You can link objects using connections in different ways in the model window (page 809).

#### Procedure

##### When placing objects using the mini toolbar

#### Prerequisite


An object symbol has already been placed in the model window.

#### Procedure

1. Click the placed object symbol. The mini toolbar (page 824) is shown.
2. In the mini toolbar, click the symbol you want to place in the model window. A frame is displayed for the new object.
3. Click the position in the model window where you want to insert the object symbol. The name of the object symbol is selected for overwriting by default.
4. If necessary, overwrite the previous name with the name of your choice and press Enter.


The object symbol is placed in the model window and linked to the previously selected object symbol using a connection.

### Subsequently using the Symbols bar

1. In the **Symbols** bar click  **Create connection**.
2. Click the object in the model window you want to connect with another object.
3. Click a target object that can be connected to the source object. If the method does not allow objects to be connected to one another, a prohibitory sign is displayed on the target object; the connection cannot be attached to this object.

Both objects are linked by a connection.

### Subsequently using the mini toolbar

1. Click the object in the model window you want to connect with another object. The mini toolbar is shown.
2. In the mini toolbar, click  **Create connection**.
3. Click a target object that can be connected to the source object. If the method does not allow objects to be connected to one another, a prohibitory sign is displayed on the target object; the connection cannot be attached to this object.



Both objects are linked by a connection.

You have linked objects in the model window.

## 4.5.1.3.19 Place text

You can place text in the model window (page 809) irrespective of other model items. This way you can add additional information to your model.

### Procedure





1. Open the **Symbols** bar if it is not already open by clicking  **Symbols**.
2. Click  **Text**.
3. Click the position in the model window where you want to place the text. A text box is inserted.
4. Enter your text in the text box and press the **Ctrl + Enter** keys for line breaks.
5. Press Enter.

The text is inserted into the model window. You can format (page 752) the text in just the same way as placed text attributes.

### 4.5.1.3.20 Adjust size of appearance

You can change the size that models and model items are displayed in.

#### Procedure




1. Click  **Fit to window** in the Display bar.  
If you have not selected a model item, the entire model content is placed in the visible area.  
If you have selected one or more model items, their size of appearance is adjusted so that the selected model items are optimally placed in the visible area.
2. In the Display bar, click  **Original size**. The model content is output in the size 100 %.
3. In the Display bar, click  **Zoom in**. The model content is enlarged by 10 %.
4. In the Display bar, click  **Zoom out**. The model content is reduced in size by 10 %.

You have resized the model according to your requirements.

### 4.5.1.3.21 Select connected object

You can select the object that is linked to the selected object by a connection.

#### Procedure


1. Click  **Properties**. The Properties bar opens.
2. Select the occurrence of the relevant object in the model window.
3. Click the **Relationships** tab if it is not activated yet. The relationships of the selected object are listed.
4. Next to the name of the occurrence of a relationship  (connection), click  **More > Go to object**.

The connected object is selected in the model window.

### 4.5.1.3.22 Display and select connection

You can view and select the connection between a source and target object.

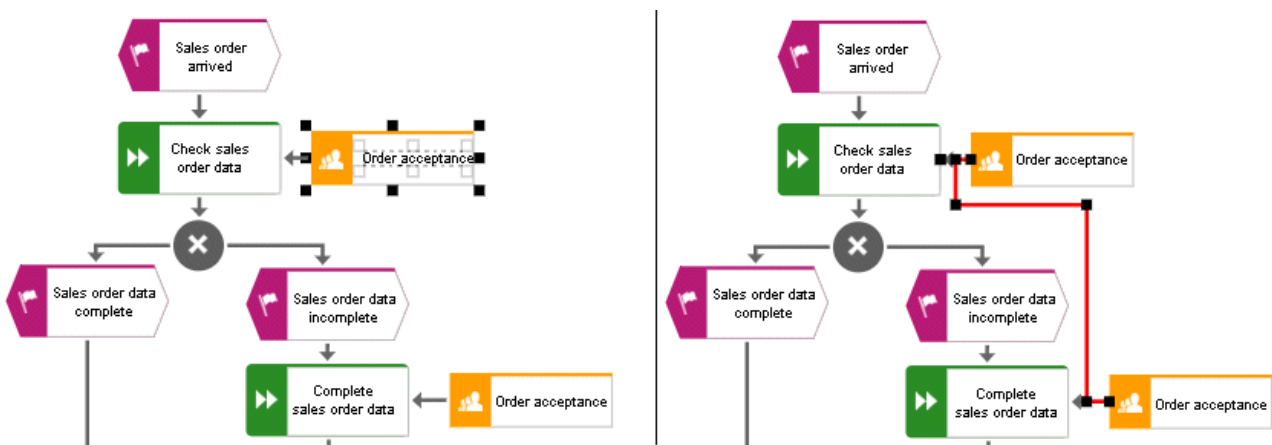
#### Procedure

1. Click **i Properties**. The Properties bar opens.
2. Select the occurrence of the relevant object in the model window.
3. Click the **Relationships** tab if it is not activated yet. The relationships of the selected object are listed.
4. Next to the name of the occurrence of a relationship  (connection), click **More >** **Display connection**.

The connection between source and target object is selected. If multiple occurrences of a source object are used in a model, any connections that do not yet exist between the occurrences and the target object are created and selected.

#### Example





The following graphic shows two occurrences of the **Order acceptance** object. If you select one of the two occurrences and enable the **Display connection** function for the **carries out** connection linking the selected occurrence to the **Check sales order data** object, a **carries out** connection is also created to the target object from the other object occurrence that had a connection only to the **Complete sales order data** object before.



### 4.5.1.3.23 Delete connection

You can delete connections that do not have any occurrences in models for specific objects.

#### Procedure





1. Click  **Properties**. The Properties bar opens.
2. Select the occurrence of the relevant object in the model window.
3. Click the **Relationships** tab if it is not activated yet. The relationships of the selected object are listed.
4. Next to the name of a relationship that has no occurrences in a model  (connection), click  **More** >  **Delete**.

If the connection no longer has any occurrences in any model, it is deleted. If it still has an occurrence in a model, a message is displayed and the connection is not deleted.

### 4.5.1.3.24 Display occurrences in an open model

You can display the usage of the selected object and connection occurrences in the open model.

#### Procedure

1. Click  **Properties**. The Properties bar opens.
2. Select the relevant occurrence in the model window.
3. Click the **Occurrences** tab if it is not activated yet. The usage of the selected occurrence is displayed in the areas **In this model** and **In other models**.
4. Navigate to the individual occurrences in the model, if multiple occurrences exist. To do this, use the navigation buttons in the **In this model** area.
  - c. From top to bottom or left to right: Click the  right arrow.
  - d. From bottom to top or right to left: Click the  left arrow.
  - e. Select occurrence directly: Click  direct selection and then the number of the relevant occurrence.

The occurrence selected is highlighted. If it is placed outside the visible area, the model display is moved automatically so that the selected occurrence is placed in the visible area.

### 4.5.1.3.25 Display occurrences in other models

You can display the usage of the selected object and connection occurrences in other models than the open model.

#### Procedure

1. Click **i Properties**. The Properties bar opens.
2. Select the relevant occurrence in the model window.
3. Click the **Occurrences** tab if it is not activated yet. The usage of the selected occurrence is displayed in the areas **In this model** and **In other models**.
4. In the **In other models** area, click the name of the model in which the occurrence is to be selected.

The selected model opens in a new tab and the occurrence is highlighted. If multiple occurrences of the object exist in this model, the top one is highlighted.

### 4.5.1.3.26 Display relationships of selected objects

You can display the relationships of selected objects (page 824).

#### Procedure

1. Click **i Properties**. The Properties bar opens.
2. Select the occurrence of the relevant object in the model window.
3. Click the **Relationships** tab if it is not activated yet.


The relationships of the selected object are listed. If a relationship has an occurrence as a connection, you can select the object (page 754) that is linked to the selected object by the connection. You can also delete connections that do not have any occurrences in models.


### 4.5.1.3.27 Delete model items

You can delete model items from the model window (page 809).

#### Procedure


##### Using the tab bar

1. Select the model items you want to delete.
2. Click  **Delete** in the tab bar.

The selected elements are deleted without prompting. As long as you have not saved the model you can undo the deletion by clicking  **Undo**.

##### Using the Delete key

3. Select the model items you want to delete.
4. Press the **Del** key.


The selected elements are deleted without prompting. As long as you have not saved the model you can undo the deletion by clicking  **Undo**.

You have deleted model items from the model window.

### 4.5.1.3.28 Save model

Save your model.

#### Procedure

1. Make the required changes.
2. Click  **Save** in the tab bar.

Your changes are saved. You or others can access this model status at a later time.

### 4.5.1.3.29 Model table-based

Table-based modeling enables rapid and comfortable modeling of EPCs and BPMN diagrams (page 767). The modeling table is shown by default.

Objects are modeled in a table and simultaneously placed in the model displayed above. Layout takes place automatically. Table-based modeling provides a quick and easy way to model processes and process frameworks at an early stage, for example, in meetings during the project planning phase.


Moreover, additional information (page 762) can be added for models and objects.

It can also be used to navigate in the model. If an object is selected in the table, it is selected in the model and the selected object is moved into the visible area. If an object is selected in the model, it is also selected in the table and the row is displayed in the visible area.

#### 4.5.1.3.29.1 Hide/Show modeling table

You can hide or show the modeling table.

##### Procedure

1. Open (page 741) a model to edit or create (page 729) a new model.
2. Click  **Modeling table**.



If the modeling table is shown, it will be hidden. If it is hidden, it will be shown.

When a model is opened for the first time, the modeling table is shown. The setting made will be applied.

#### 4.5.1.3.29.2 Switch full-screen mode on/off

You can hide or show the model above the table. By default, it is shown.

##### Procedure

1. Open (page 741) a model to edit or create (page 729) a new model.
2. Click  **Collapse/Expand table**. The model is hidden.
3. Click  **Collapse/Expand table**. The model is shown.


You have hidden or shown the model.



### 4.5.1.3.29.3 Show/Hide BPMN container

For BPMN diagrams, you can specify whether or not the **Belongs to container** column is displayed. This column exists only in BPMN diagrams and is displayed by default.

#### Procedure


1. Open (page 741) a BPMN diagram.
2. Click  **Add or remove columns**.
3. Enable the **Show BPMN container column** check box to show the **Belongs to container** column. Disable the check box to hide the **Belongs to container** column.

You have specified whether or not the **Belongs to container** column is to be displayed.

### 4.5.1.3.29.4 Create object

You can add objects to a model. In the modeling table, a new object is always inserted below the selected object. You can use the table (page 761) to insert lanes into the model.

#### Procedure

1. Open (page 741) a model.
2. Start typing the name of the object to be created.
3. Press **Ins**. Alternatively, click  **Add new object**.
4. Select a symbol from the list and enter a name.
5. Press **Enter**.

The first object you add to a BPMN diagram is automatically placed within a pool.


Click **Undo** or press **CTRL + Z** if you do not want the object to be added to a pool. The object is then placed directly in the diagram.

The object is inserted and the model items are rearranged in the model. The color of the object type is displayed before of the name.

### 4.5.1.3.29.5 Create object with special object symbol

You can use an object symbol that is not directly displayed. The example description is based on the **Function (target)** object symbol, which you can add to an EPC. It must be included in the filter you are using.

#### Procedure

1. Open (page 741) a model.
2. Start typing the name of the object to be created. Alternatively, click  **Add new object**.
3. Enter the term **target**, which is part of the name for the relevant object symbol. All object symbols and existing objects whose name contains the term are displayed.
4. Click **Function (target)** in the **Symbols** area. The symbol is inserted and the name is selected for overwriting.
5. Enter a name.

6. Press **Enter**.

You have created a new object using the **Function (target)** object symbol. The color of the object type is displayed before of the name.

### 4.5.1.3.29.6 Use existing object

You can reuse existing objects in the model.

#### Procedure

1. Open (page 741) a model.
2. Start typing the name of the object to be created. Alternatively, click **+ Add new object**.
3. Enter a term that appears in the name of the existing object you want to insert. All objects whose name contains the term are displayed.
4. Select the required object in the **Existing objects** area.
5. Press **Enter**.

The selected object is reused. The color of the object type is displayed before of the name.

### 4.5.1.3.29.7 Rename structurally relevant object

In the modeling table, you can edit structurally relevant objects that have already been modeled.

#### Procedure

1. Open (page 741) a model.
2. Select the object you want to edit.
3. Press **F2**. Alternatively, click **Edit table cell**.
4. Rename the object.
5. Press **Enter**.

You have renamed an object.

### 4.5.1.3.29.8 Edit the Description/Definition column

You can specify descriptions and definitions for objects.

#### Procedure

1. Open (page 741) a model.
2. If the **Description/Definition** column is not shown, add (page 764) it.
3. Select the **Description/Definition** column for the relevant object and press **F2**.  
Alternatively, double-click the **Description/Definition** column, or click the **Description/Definition** column and select **Edit table cell**. The **Edit Description/Definition** dialog opens.
4. Enter the description or definition. The text can be formatted.
5. Click **OK**.

The new or changed description is saved.

### 4.5.1.3.29.9 Create split paths

You can use operators such as **AND**, **XOR**, or **OR** to model split paths in a model.

You can also add split paths without using any operators, if this is permitted by the method, e.g., in BPMN diagrams.

#### Procedure

1. Open (page 741) a model.
2. Select the object row below which the operator is to be modeled.
3. Press **Ins**. Alternatively, click **+ Add new object**.
4. Select an operator.  
By default, the list displays an **OR** operator for EPCs and a **gateway** for BPMN diagrams. If you want to use a different operator, enter part of the operator name. Corresponding operators are displayed. Select the relevant operator.
5. Press **Ins**. Alternatively, click **+ Add new object**. Select the first object that will follow the operator and enter a name.
6. Press **Enter**. The object is placed below the operator in EPCs, and beside the operator in BPMN diagrams.
7. Select an operator.
8. Press **Ctrl + Shift + Ins**. Alternatively, click **↵ Add new object as a split path**. Select another object and enter a name. The object is placed next to the operator.
9. Press **Enter**.
10. Model (page 760) additional objects for the relevant split path.

You have modeled a split path.

The objects in a split path are outlined in the table by a thicker grid line.

### 4.5.1.3.29.10 Remove object from model

You can remove an object from the model. It is retained in the database and you can reuse it.

#### Procedure

1. Open (page 741) a model.
2. In the table, click the object you want to remove.
3. Press the **Del** key.

The object is removed from the model without prompting for confirmation.

Connections from and to the deleted object are also deleted. The preceding object is linked to the following object using a connection.

### 4.5.1.3.29.11 Model satellites

A satellite is an object that can be inserted in a model or diagram but is not a structurally relevant object (page 871) in the model or diagram.

For example, an object of the **Organizational unit** type is a satellite in an event-driven process chain (EPC). In a model of the **Organizational chart** type, on the other hand, an object of the **Organizational unit** type is a structurally relevant object.

Model new satellites

#### Procedure

1. Open (page 741) a model.
2. Double-click the cell for the satellite you want to model for an object, e.g., an **Organizational unit** object.
3. Select an object symbol.
4. Enter the name and press the **Enter** key.
5. Enter more names if you want to create additional satellites of the same type. If you want to create additional satellites of a different type in the same column, first select the object type.
6. Exit the cell (page 767) when you have created the required satellites.

You have modeled one or more satellites.

Model existing satellites

#### Procedure

7. Open (page 741) a model.
8. Double-click the cell for the satellite you want to model for an object, e.g., an **Organizational unit** object.
9. Enter a term that appears in the name of the existing object you want to insert. All objects whose name contains the term are displayed.
10. Select the required object in the **Existing objects** area.
11. Exit the cell (page 767) when you have created the required satellites.

You have modeled one or more existing satellites.


**Tip**

You can also open the dialog for the relevant column by pressing **F2**. Select an object type and press the **Enter** key. You can enter a name. Press an arrow key to exit the cell.

### 4.5.1.3.29.12 Add object column

You can add columns for satellite objects to the modeling table and also show these objects in the model area. Columns are always inserted to the right of the column that is selected. If no column is selected, the new column is inserted to the right of the **Name** column.

**Procedure**



1. Open (page 741) a model.
2. Click  **Add or remove columns**.
3. Click **Add object column**. A dialog opens.
4. Select an object and a connection from the list and click **OK**.

You have added an object.

### 4.5.1.3.29.13 Add attribute column

You can add an attribute column to specify model item attributes that are not initially displayed. Columns are always inserted to the right of the column that is selected. If no column is selected, the new column is inserted to the right of the **Name** column.

**Procedure**

1. Open (page 741) a model.
2. In the table, click the object for which you want to specify attributes.
3. Click  **Add or remove columns**.
4. Click  **Add attribute column**. The **Add attribute** dialog opens.
5. Select an attribute.
6. Click **OK**.

The attribute column is added to the right of the selected column and you can enter an attribute value.

### 4.5.1.3.29.14 Edit attribute

You can specify attributes in the modeling table. Attributes specified by the system cannot be edited, e.g., Creation date. System attribute columns have a gray background.

#### Procedure





1. Open (page 741) a model.
2. Select the cell for the relevant attribute.
3. Press **F2**.
4. Edit (page 771) the attribute value.
5. Exit the cell (page 767) once you have finished editing the attribute value.

You have edited an attribute.

### 4.5.1.3.29.15 Arrange columns

You can re-arrange columns as required by removing and recreating them. This example shows how to move the default **creates output to Information carrier** column next to the default **Name** column.

#### Procedure

1. Open (page 741) a model.
2. Click  **Add or remove columns**.
3. Click the  **Remove symbol** for the **creates output to Information carrier** column.
4. Click the name of an object in the **Name** column.
5. Click  **Add or remove columns**.
6. Click  **Add object column**. The **Add new object column** dialog opens.
7. Select an object and a connection. In this case, select the **Information carrier** object and the **creates output to** connection. This will create the **creates output to Information carrier** column header.
8. Click **OK**.



The **creates output to Information carrier** column is placed next to the **Name** column.

All columns can be re-arranged as described.

### 4.5.1.3.29.16 Remove column

You can remove columns for attributes or objects from the modeling table.

#### Procedure

1. Open (page 741) a model.
2. Click  **Add or remove columns**.
3. Click the  **Remove** symbol in front of the name of an attribute or object column.

The attribute or object column is removed from the modeling table without prompting for confirmation, while the attribute value or the object is retained.

If required, you can add both the attribute value and the object to the modeling table.

### 4.5.1.3.29.17 Valuable information

This section provides background information to assist you in carrying out the relevant procedures.

#### 4.5.1.3.29.17.1 What models can be edited using a table?

The following model types and the model types derived can be edited using a table:

- EPC
- BPMN collaboration diagram (BPMN 2.0)
- Enterprise BPMN collaboration diagram
- BPMN process diagram (BPMN 2.0)
- Enterprise BPMN process diagram

If you open a model of this type, you can  show and hide the modeling table (page 759).

#### 4.5.1.3.29.17.2 How to control the table using the keyboard

You can control the modeling table using the keyboard:

How to model an EPC using the keyboard (video 4 min. 23 sec.)

How to model a BPMN diagram using the keyboard (video 2 min. 31 sec.)

Key/Keyboard shortcut	Context	Action
Arrow keys	Table selected	Move to next column/row in direction of arrow.
Ctrl + End	Table selected	Activates the last cell in the modeling table.
Ctrl + Home	Table selected	Activates the first cell in the modeling table.
Ctrl + Shift + Ins	Operator selected	Create split paths.
Del	Object name selected	Delete object.
End	Table selected	Activates the last column in the current row.
Enter	<b>Name</b> column activated	To next row/End editing.
F2	▪ <b>Name</b> cell selected	▪ Activates the name editing mode.
	▪ <b>Description/Definition</b> cell selected	▪ Opens the <b>Description/Definition</b> dialog. The description/definition can be edited.
	▪ <b>Object</b> cell selected	▪ Opens the object symbols list if symbols can be inserted.



Key/Keyboard shortcut	Context	Action
	▪ <b>Attribute</b> cell selected	▪ Opens the <b>Edit attribute</b> dialog for you to insert the attribute value.
Home	Table selected	Activates the first column in the current row.
Ins	Table selected	Adds an object row.
PageDown	Table selected	Scrolls one page down.
PageUp	Table selected	Scrolls one page up.
Shift + F2	<b>BPMN container</b> cell	Enables renaming of the container.
Tab	Table cell selected	Activates the cell to the right of the cell currently selected.
Shift + Tab	Table cell selected	Activates the cell to the left of the cell currently selected.

### 4.5.1.3.29.17.3 What do different colors mean in table-based modeling?

The colors help you to distinguish between the object types. They correspond to the object colors.

A flashing cursor in an empty row indicates that entries can be made.

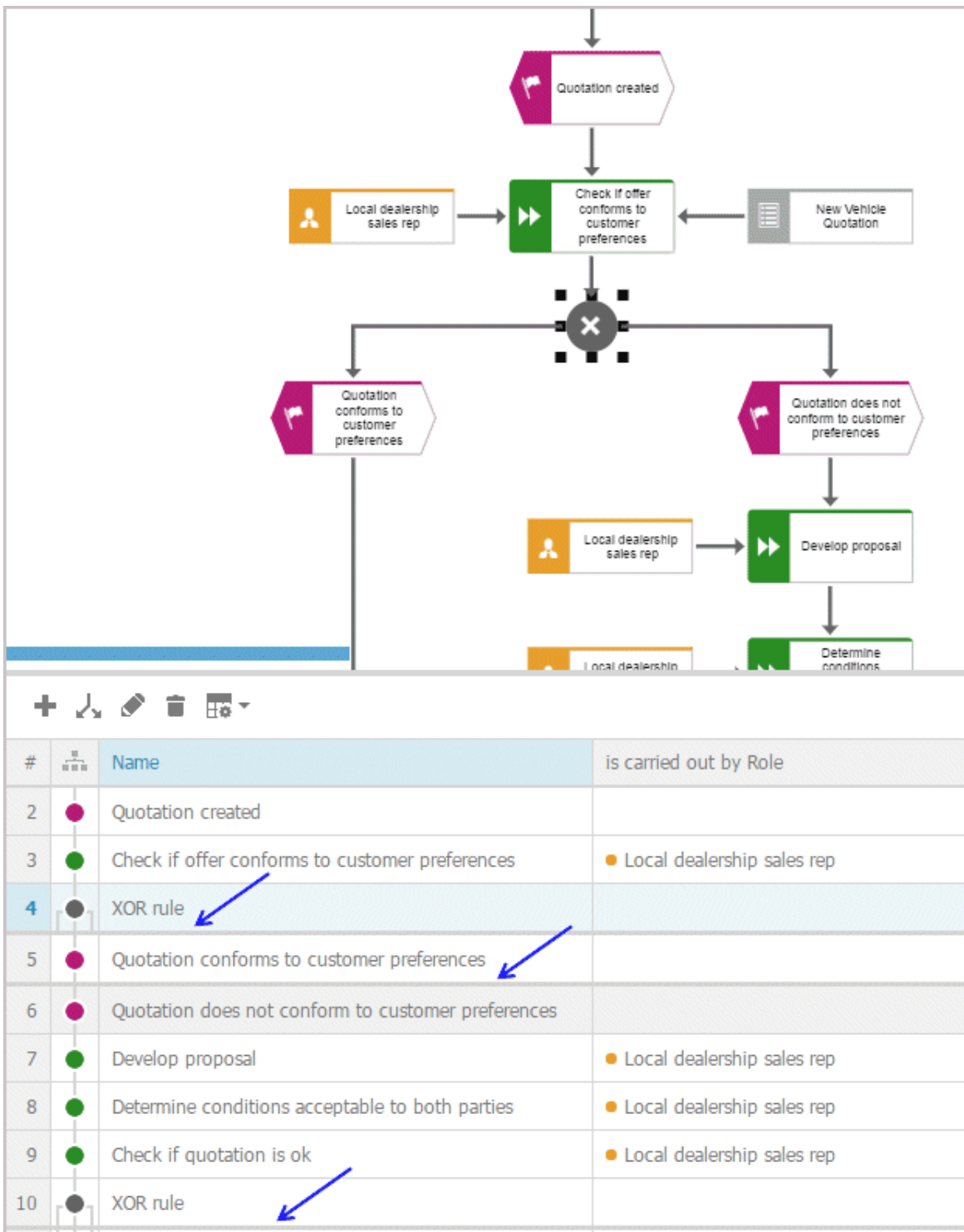
A gray background indicates that no entries can be specified.

Examples

- A table for a model of the **EPC** type contains, e.g., green highlighting for functions because functions are displayed in green in the model. In a table for a BPMN diagram, a task appears in blue, as in the diagram.



- Split paths are outlined by a thicker line.



- In BPMN models, lanes are outlined by a thicker line.

### 4.5.1.3.29.17.4 What default columns are available?

There are columns that are displayed by default when the modeling table is opened for the first time. However, you can hide all of them except for the numbering, color, and name column. Your setting is saved, which means that when you create or open a model, the table is displayed with the columns you specify.

#### IN AN EPC

- **Numbering**  
Shows the line number.
- **Color column**  
Displays the color of the object symbol.
- **Name**  
The object name is entered here.
- **Description/Definition**  
A description or definition of the object is entered here.
- **is carried out by Role**  
The performing role or job description for the object is entered here. If the role or job description are not suitable for this object, a message is displayed.
- **is support by Application system type**  
An application system type is inserted here. If such an object is not permitted for an object, e.g., for an event, a message is displayed.
- **receives input from Information carrier**  
An information carrier is inserted here. If such an object is not permitted for an object, e.g., for an event, a message is displayed.
- **creates output to Information carrier**  
An information carrier is inserted here. If such an object is not permitted for an object, e.g., for an event, a message is displayed.

#### IN A BPMN DIAGRAM

- **Numbering**  
Shows the line number.
- **Color column**  
Displays the color of the object symbol.
- **Name**  
The object name is entered here.

- **Description/Definition**

A description or definition of the object is entered here.

- **Belongs to container**

Shows the pool or lane to which an object belongs. This column cannot be edited.

### 4.5.1.3.29.17.5 What are the special features of BPMN diagrams?

For BPMN diagrams, you can specify whether or not the **Belongs to container** column is displayed. This column exists only in BPMN diagrams and is displayed by default. Lanes are automatically enlarged in table-based modeling if a new object does not fit completely into the lane.

### 4.5.1.3.29.17.6 What attribute values and processing types are there?

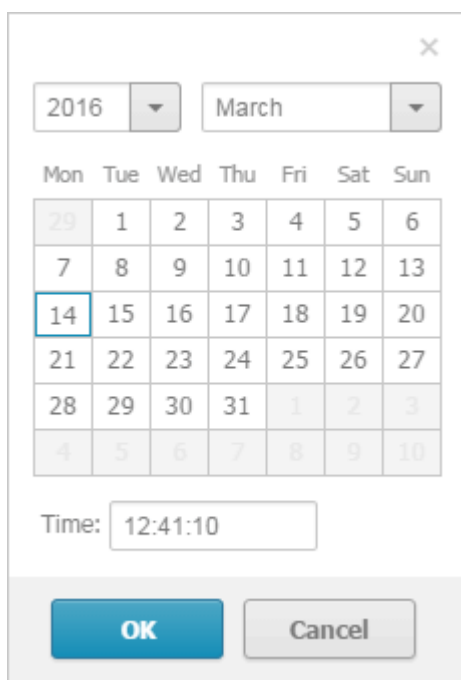
You can specify attributes in the modeling table. Attributes specified by the system cannot be edited, e.g., Creation date. System attribute columns have a gray background.

The processing of an attribute value may change depending on the attribute type. For example, if you want to process an attribute of the **Time date** type, you can do this using the calendar displayed.

The following attribute types are available:

#### **Date attributes**

The calendar is displayed when you click in the cell containing the attribute value. For an attribute of the **Time date** type, you can select a time in addition to the date.



The screenshot shows a date and time selection dialog box. At the top, there are two dropdown menus for the year (2016) and the month (March). Below these is a calendar grid with days of the week (Mon to Sun) and dates. The date 14 is highlighted with a blue border. Below the calendar is a text input field labeled "Time:" containing the value "12:41:10". At the bottom of the dialog are two buttons: "OK" and "Cancel".

## Boolean

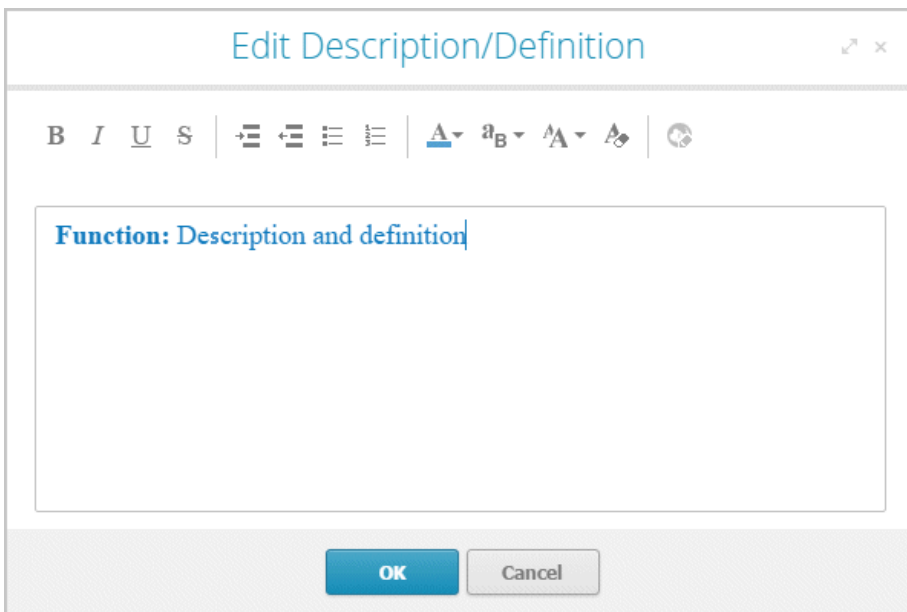
You can change the attribute value by enabling (true: ) or disabling (false: ) the check box. The check box for an attribute value that is not specified is shaded in color ().

## Text attributes

You can change the attribute value directly in the cell.

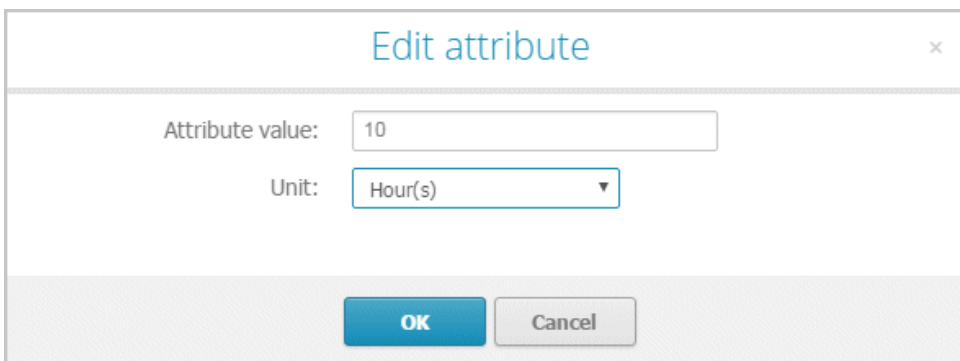
## Formatable text attributes

A dialog opens. You can edit the text and formatting.



## Attribute values with unit

A dialog opens. When saving the attribute value for numerical attributes, a check is made as to whether the value entered is a number. If not, you are notified.

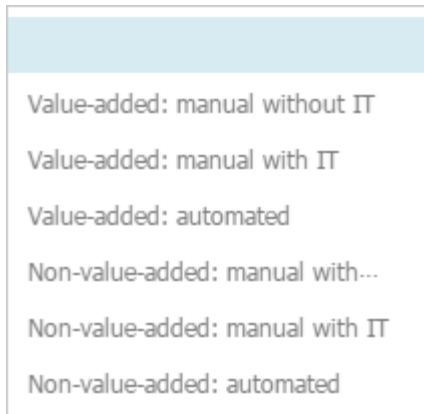


**Numerical attributes**

You can change the attribute value directly in the cell. When saving the attribute value, a check is made as to whether the value entered is a number. If not, you are notified.

**List attributes**

You can select from a list of attribute values specified by the method by clicking the relevant value.








## 4.5.1.4 Extended editing

Besides the basic editing options, Model Editor provides you with additional functionality, such as copying formatting (page 781), creating groupings (page 791), applying various colors (page 782), inserting user-defined descriptions (page 779), or automatic resizing of objects (page 792).

### 4.5.1.4.1 Find objects in an open model

You can have objects selected in the model window. If the object is not located in the visible area of the model window the visible area is moved and the object is displayed as selected in the visible area.

#### Procedure


1. Click the  **Find** bar button. The Find bar opens.
2. Enter a part of the name or the entire name for the object to be found.
3. Click either  **Search down** or  **Search up**, depending on the direction in which you want to search for objects. The next object whose name contains the term entered is selected. If it is located outside of the visible area it is placed in the visible area.
4. Click  **Search down** or  **Search up** again. The next object with the term in its name is selected.

Each time you click the up and down buttons the next occurrence is selected. If a corresponding object cannot be found in the one direction the first occurrence is selected again.

### 4.5.1.4.2 Show where object occurrences are used

You can display where occurrences of an object are used and select the required occurrence using the navigation controls.

#### Procedure

1. Select an object in the model.
2. Click  **Properties**. The Properties bar opens.
3. Click the **Occurrences** tab. The occurrences of the selected object are listed. If more than one occurrence exists in the current model, the number of the selected occurrence and the total number of occurrences are displayed next to the object name.
4. Click the left or right arrow to navigate to the next occurrence in the model. The next occurrence is selected and its number updated.
5. To directly select an occurrence, expand the drop-down list and click the occurrence number.
6. To open a model that contains an occurrence of the selected object, click the name of the model in the **In other models** area. The model opens and the first occurrence of the object is selected. If there is no **Diagram** fact sheet for the occurrence, the first fact sheet tab is shown, e.g., **Overview**

In the **In other models** area, all models are displayed to which you have at least read access. You switched between the occurrences of an object using the navigation controls.

### 4.5.1.4.3 Place an object in an object

You can place an object in another object. The object then overlaps the object in which it is placed and has an implicit connection to this object. Implicit connections are connections that are not being displayed while an object is placed in another object.

#### Procedure

1. Click the object you want to place in another object, and hold down the mouse button.
2. Drag the object on top of the other object, position it inside the other object's borders, and release the mouse button. If multiple connections are available between the two objects, the connection selection is displayed. A right arrow is added to the outgoing connections of the embedded object, while a left arrow is added to the incoming connections.
3. Click the connection you want to draw between these two objects. The connection created is an implicit connection, which means that it is not displayed while the object is embedded in the other object.

The object is now placed in the other object. Due to the existing implicit connection, the embedded object is also selected or moved when the object in which it was placed is selected or moved.

#### Tip

You can place multiple objects of one type in an object at once.

### 4.5.1.4.4 Place an object on an object

You can place an object on another object. The object then overlaps the object on which it is placed, but has no implicit connection to this object. Implicit connections are connections that are not being displayed while an object is placed in another object.

#### Procedure

1. Click the object you want to place on another object, and hold down the mouse button.
2. Drag the object on top of the other object, position it inside the other object's borders, and release the mouse button. The connection selection is displayed.
3. Click **× No connection**. Thus, no connection is created between the two objects.

The object is now placed on the other object. Due to the lack of an implicit connection, the embedded object is neither selected nor moved when the object on which it was placed is selected or moved.






### 4.5.1.4.5 Upload documents

You can upload documents to ARIS document storage and assign them to models and objects (page 777) in order to supplement these with detailed descriptions and graphics, for example.

#### Prerequisite

The filter in use allows the **ARIS document storage Link** attribute.

#### Procedure

1. Open (page 741) the relevant model.
2. Click  **Properties**. The Properties bar opens.
3. Click the **Attributes** tab if it is not activated yet.
4. Show the **ARIS document storage Link** attribute.
5. In the editing cell of the **ARIS document storage Link** attribute, click  **Edit**. The **Select document** dialog opens.
6. Select **ARIS document storage** if it is not yet selected.
7. Select the folder in which you want to save the document.
8. Click  **Upload new document**. The dialog opens.
9. Click **Browse**. The dialog opens.
10. Navigate to the relevant document, select it, and click **Open**.
11. The dialog closes and you may enter the document's title, a description, as well as tags (keywords) enabling the document to be identified in ARIS document storage.
12. Click **Upload**.

Once the upload of the document is complete, you can assign it to models and objects (page 777).



### 4.5.1.4.6 Assign documents

You can supplement individual models and objects with, for example, detailed information and graphics by assigning documents available in ARIS document storage to them.



#### Prerequisite

The filter in use allows the **ARIS document storage Link** attribute.

#### Procedure

1. Open (page 741) the relevant model.
2. Select the object to which you want to assign a document, or ensure that no object is selected if you want to assign the document to the model.
3. Click  **Properties**. The Properties bar opens.
4. Click the **Attributes** tab if it is not activated yet.
5. Show (page 737) the **ARIS document storage Link** attribute.
6. In the editing cell of the **ARIS document storage Link** attribute, click  **Edit**. The **Select document** dialog opens.
7. Select ARIS document storage if it is not yet selected.
8. Select the folder containing the relevant document.
9. Enable the option button of the document you want to assign.
10. Click **OK**.

The document is assigned to the item.

On the **Documents** tab, a document with the **ARIS document storage Link** attribute is marked with  for objects and  for models. If a document title was specified, it is shown, otherwise the complete link to the document in ARIS document storage. You can place the attribute (page 785). To ensure that the name you specify is placed in the model instead of the link, you can show the **ARIS document storage Title** attribute from the **Attributes** tab (**Properties** bar). If you specify a name for the attribute, this name is displayed in the model instead of the contents of the placed **ARIS document storage Link** attribute.

### 4.5.1.4.7 Open assigned document

You can easily open an assigned document.

#### Procedure

##### Placed attribute

You have placed the **ARIS document storage Link** attribute in the model.

#### Procedure

Double-click the placed attribute.

##### From the Attributes bar

1. Activate (page 737) the **Attributes** bar.
2. Show the **ARIS document storage Link** attribute.
3. Click the entry in the editing cell.

You can either open or save the assigned document.



### 4.5.1.4.8 Link documents

You can link documents available in ARIS document storage directly with individual models and objects and thus supplement them with detailed descriptions and graphics, for example.

#### Procedure

1. Open (page 741) the relevant model.
2. Select the object for which you want to create a link to a document, or ensure that no object is selected if you want to link the document with the model.
3. Click **Properties**.
4. Activate the **Documents** bar.
5. Click **Add**.
6. In ARIS document storage, click the folder containing the relevant document.
7. Enable the check box for the required document, and click **OK**.

The document is linked with the item.

On the **Documents** tab, a mark is shown:  for objects and  for models. If a document title was specified, it is shown, otherwise the complete link in ARIS document storage.

### 4.5.1.4.9 Open linked document


You can easily open an assigned document.

#### Procedure

8. Activate (page 737) the **Documents** bar.
9. Click a document.

You can either open or save the linked document.

### 4.5.1.4.10 Use the Documentation attribute

You can describe database and model items (models, objects, groups, etc.) using formatted documents or other files and save these documents in the **Documentation** attribute. If you are using the Microsoft® Word file formats **DOC** and **DOCX**, a preview is available and the  **Edit** button is available. You can also create the documents directly from the **Documentation** attribute.


#### Procedure


##### Insert an external description

#### Prerequisite


You are using Microsoft® Word.

#### Procedure

1. Start ARIS Connect and open Model Editor.
2. Select the item to which you want to assign the description and which does not yet have an external description.
3. Activate the **Attributes** tab of the **Properties** bar and show the **Documentation** attribute (page 737).
4. Click  **Edit** in the attribute row. Microsoft® Word opens with a blank document.
5. Enter your description and click Save.

The description is assigned to the item. When you click  **Edit** again, the document opens and you can edit it.

##### Import external description

1. Create an external description and save it, for example, in Microsoft Word.
2. Start ARIS Connect and open Model Editor.
3. Select the item you want to assign the description to.
4. Activate the **Attributes** tab of the **Properties** bar and show the **Documentation** attribute (page 737).
5. Click  **Import** in the attribute row. The **Select document** dialog opens.

6. Click **Select file** and select the newly created external description in the dialog.
7. Click **Open**.

The document is inserted in the **Documentation** attribute.



### Edit an external description

If you are using the Microsoft® Word file formats **DOC** and **DOCX**, a preview is available and the  **Edit** button is available.

#### Warning


Due to technical restrictions external descriptions cannot be locked if they are open in the editor. Therefore, it is possible that a user deletes an external description in ARIS Connect while it is being edited by another user in the text editor. In this case, all changes of the description are deleted without the editing user being notified.

#### Procedure

1. If the attribute is not displayed: Activate the **Attributes** tab of the **Properties** bar and show the **Documentation** attribute (page 737).
2. Click  **Edit** in the attribute row. The word processor is launched and the document opens.
3. Edit and save the document.
4. Close Microsoft® Word and activate ARIS Connect.
5. If necessary, click  **Update**.

The document is added to the **Documentation** attribute and a preview is displayed.


### Display external descriptions read-only

1. Select the item the description of which you want to display.
2. Activate the **Attributes** tab of the **Properties** bar and show the **Documentation** attribute (page 737).
3. Click  **Display**. Depending on your browser, you may be asked whether you want to save or open the file.
4. Select **Open**. The corresponding program launches and the file opens in read-only mode.

You can now find out about the content of the document.

If you decide to save the document, you must save it with a name that differs from its previous name. Thus, a copy is created. It is, however, not inserted into the **Documentation** attribute.

### Refresh the preview of the external description

1. Select the item the description of which you want to display.
2. Activate the **Attributes** tab of the **Properties** bar and show the **Documentation** attribute (page 737).
3. Click  **Refresh**.


The display of the **Documentation** attribute is updated so that the changes you have made will be displayed.

You have described a database or model item with a formatted document.

#### 4.5.1.4.11 Format painter

You can copy the formats of a selected item to another item or to several other items. This way, you can transfer the format of one object to all other objects and need not to transfer it to each object individually.

##### Procedure


1. Select the model item whose format you want to copy.
2. Activate the Start (page 819) tab bar.
3. Click  **Format painter**.
4. If you want to copy the format to one item: click the relevant item.  
If you want to copy the format to more than one item: use the mouse to draw a border around the relevant items. You can also press the **Ctrl** key and click the required items one after the other.

The format of the selected items is adjusted accordingly.

#### 4.5.1.4.12 Color model items

You can assign a different color to object symbols and graphic objects.

##### Procedure


1. Select the model items you want to color.
2. Activate the Start (page 819) tab bar.
3. Click  **Fill color**. The color palette opens.
4. Click the color you want to color the selected model item with. The selected model items are colored with the selected color. The color palette closes.

You have colored the selected model items.

#### 4.5.1.4.13 Color model items with a user-defined color

You can assign your own color to object symbols and graphic objects.

##### Procedure

1. Select the model items you want to color.
2. Activate the Start (page 819) tab bar.
3. Click  **Fill color**. The color palette opens.
4. Click **Choose your own color**. The **Define color** dialog opens.
5. Select your own color in one of the ways described below. Your changes will be displayed in the preview window on the right:


- f. Click the color bar and move the line to the relevant color range to select the basic color. Then click on the relevant position in the color box to select the brightness of the basic color.
  - g. Enter the respective share of each color from 0 to 255 in the **Red, Green** and **Blue** boxes. 0 means that the corresponding color is absent. If you enter **0** in all three boxes you have selected the color **black**.
  - h. Enter a hexadecimal color definition in the **Color code: #** box. The hexadecimal system uses the letters A to F in addition to the numerals of the decimal system, which means that it is based on the base 16. If you enter FFFF00, this sets the color to **Yellow**.
6. Click **OK**.

You have colored the selected model items with a self-defined color.

#### 4.5.1.4.14 Color model items with a gradient

You can color object symbols and graphic objects with a gradient.

##### Procedure


1. Select the model items you want to color.
2. Activate the Start (page 819) tab bar.
3. Click  **Fill color**. The color palette opens.
4. Click **Choose your own color**. The **Define color** dialog opens.
5. Enable the **Gradient** check box. Two color boxes and a list box for the direction of the gradient are displayed.
6. Click the first color box and select the start color (page 781) for the gradient.
7. Click the second color box and select the second color (page 781) for the gradient.
8. Click the list box and select the direction of the gradient.
9. Click **OK**.

You have colored the selected model items with a gradient.

#### 4.5.1.4.15 Display model items without color

You can display object symbols and graphic objects without a color fill.

##### Procedure



1. Select the model items you want to display without color.
2. Activate the Start (page 819) tab bar.
3. Click  **Fill color**. The color palette opens.
4. Click  **No fill color**.

The selected model items are displayed without color.

#### 4.5.1.4.16 Reset object symbol color

You can reset the color of an object symbol back to the default color if you have changed the color.

##### Procedure


1. Select the object symbol you colored.
2. Activate the Start (page 819) tab bar.
3. Click  **Fill color**. The color palette opens.
4. Click  **Reset**.

You have reset the color of the selected object symbols to their original color.

#### 4.5.1.4.17 Color borders and lines

You can assign a different color to the borders of object symbols and graphic objects, as well as connections.

##### Procedure



1. Select the model items whose borders you want to color.
2. Activate the Start (page 819) tab bar.
3. Click  **Line color**. The color palette opens.
4. Click the color you want to color the borders and lines of the selected model items with.

You have colored the borders and lines of the selected model items.

#### 4.5.1.4.18 Reset border and line color

You can reset the colors of the borders and lines of model items if you changed their color.

##### Procedure

1. Select the model items whose borders or lines you colored.
2. Activate the Start (page 819) tab bar.
3. Click  **Line color**. The color palette opens.
4. Click  **Reset**.


You have reset the colors of the borders and lines of selected model items.



#### 4.5.1.4.19 Change line style

You can assign a different style to the borders of object symbols, graphic objects, and connections.

##### Procedure


1. Select the model items whose border and line style you want to change.
2. Activate the Start (page 819) tab bar.
3. Click  **Line style and weight**. The style selection opens.
4. Click **Dotted**, **Dashed**, or **Solid**, depending on which style you want to assign to the selected elements.

The style of the borders and lines of the selected model items is adjusted accordingly.

#### 4.5.1.4.20 Change line weight

You can change the weight of the borders of object symbols, graphic objects, and connections.

##### Procedure


1. Select the model items whose line weight for borders and lines you want to change.
2. Activate the Start (page 819) tab bar.
3. Click  **Line style and weight**. The weight selection opens.
4. Click **0 point**, **2 point**, **4 point**, or **8 point**, depending on which weight you want to assign to the borders and lines of the selected model items.

The weight of the borders and lines of the selected model items is adjusted accordingly.

#### 4.5.1.4.21 Change item appearance

You can change the appearance of model items in the model window.

##### Procedure

1. Select the model items whose appearance you want to define.
2. Activate the Start (page 819) tab bar.
3. Click  **Appearance**. The appearance selection opens.
4. Click **Shaded** if the selected items are to have a shadow. The check box is enabled. Connections cannot have a shadow.
5. Click **3-D effect** if the selected items are to be displayed in 3-D style. The check box is enabled. Connections cannot be displayed in a 3-D style.
6. Click **Active** if the selected items are to be displayed as inactive. The check box is disabled. Objects are displayed without color and with a gray border, connections are displayed in gray. Graphic objects cannot be displayed as inactive.




You have defined the appearance of model items. To change a setting again, click the relevant option again.

## 4.5.1.4.22 Place attributes at fixed positions

You can place any attribute of objects and connections, not just the name, visibly in the model window. For quick placement several fixed positions in and around the object are offered.



### Procedure

#### Place new attributes at fixed positions

1. Select the object you want to place a new attribute for.
2. Activate the Start (page 819) tab bar.
3. Click  **Attribute placement**.
4. Click **Create attribute placement**. The **Select attribute** dialog opens.
5. Enable the **Show specified attributes only** checkbox. Then only the attributes with a value are made available for selection.
6. Enter the first letters of the required attribute name. All attributes are displayed whose names contain the term you entered.
7. Click the name of the attribute you want to place.
8. Click **OK**. The dialog closes and a frame for the attribute is displayed in the model window.
9. Click anywhere in the model window.
10. Click the newly placed attribute so that the handles are colored.
11. Click  **Attribute placement**.
12. Click the position of the object where the attribute is to be placed, e.g.,  **Top right**.

The attribute is placed in the selected position at the object. You can specify that the attribute name is to be displayed for the placed attribute. You can also specify for certain attributes that they are to be displayed as a symbol.

#### Place freely placed attributes at fixed positions

1. Select the freely placed attributes you want to place at a fixed position. Their handles will be colored.
2. Activate the Start (page 819) tab bar.
3. Click  **Attribute placement**.
4. Click the position of the object where the attribute is to be placed, e.g.,  **Top right**.

The attributes are placed at the objects at the position selected. You can specify that the attribute name is to be displayed for placed attributes. You can also specify for certain attributes that they are to be displayed as a symbol.

You have placed attributes at fixed positions.


### 4.5.1.4.23 Place attributes at any position

You can place any attribute of objects and connections, not just the name, visibly in the model window. These cannot only be placed at fixed positions (page 785), but also freely.

#### Procedure

##### Place new attribute freely

Select the object you want to place a new attribute for.

1. Activate the Start (page 819) tab bar.
2. Click  **Attribute placement**.
3. Click **Create attribute placement**. The **Select attribute** dialog opens.
4. Enable the **Show specified attributes only** checkbox. Then only the attributes with a value are made available for selection.
5. Enter the first letters of the attribute name. All attributes are displayed whose names contain the term you entered.
6. Click the name of the attribute you want to place.
7. Click **OK**. The dialog closes and a frame for the attribute is displayed in the model window.
8. In the model window, click the position where you want to place the attribute.

The attribute is placed in the selected position in the model window.

##### Reposition a placed attribute

1. Click the placed attribute you want to reposition. The handles will be colored.
2. Hold down the mouse button.
3. Drag the attribute to the position in the model window where you want to place it and release the mouse button.




The attribute is placed in the selected position in the model window.

You have placed attributes at any positions.

#### 4.5.1.4.24 Place attributes from Attributes tab

Use the **Attributes** tab to quickly place an attribute.

##### Procedure


1. Select the object you want to place a new attribute for.
2. Click  **Properties**. The Properties bar opens.
3. Click the **Attributes** tab if it is not activated yet.
4. Behind the attribute you want to place, click  **More**.
5. Click  **Place attribute**.
6. Move the mouse pointer to the model window. A frame is displayed.
7. Drag the frame in the model window to the position where you want to place the attribute.
8. Click the relevant position.

The attribute is placed.

#### 4.5.1.4.25 Display names of placed attributes

You can specify that the attribute name of placed attributes is to be displayed in the model window.

##### Procedure

1. Select the placed attribute whose attribute name you want to display in the model window.
2. Activate the Start (page 819) tab bar.
3. Click  **Attribute placement**.
4. Enable the **With name** check box.

The attribute value is placed in front of the attribute name.

#### 4.5.1.4.26 Select placed attributes

You can select placed attributes in order to place them at another position or to remove the placement (page 789).

##### Procedure

1. Click a placed attribute in the model window. The attribute is marked by a colored handle.
2. Press the **Ctrl** key, and click additional placed attributes you want to reposition or remove.

You can now delete or reposition (page 785) the selected attributes.

### 4.5.1.4.27 Edit placed attributes

You can edit placed text attributes of models, objects, and connections in the model window. You cannot change or delete attribute values of attributes that the system defines. These are placed in gray cells, for example, **Last change**.

#### Procedure

1. Click the placed attribute. It now has handles.
2. Click on the text attribute again. The attribute is selected for editing.
3. Change the text attribute as necessary.
4. Press the Enter key or click in the model background.

The text attribute is changed.


### 4.5.1.4.28 Directly format placed attributes

You can format model, object, and connection attributes when editing in the model window.

#### Prerequisite

The attribute you selected can be edited. You cannot change or delete attribute values of attributes that the system defines. These are placed in gray cells, for example, **Last change**.

#### Procedure

1. Double-click the placed attribute of a model, object, or connection so that the text is selected. The formatting toolbar is shown.
2. In the formatting toolbar, click the button for the formatting you want to assign to the selected attribute, e.g.,  **Increase indent**. The formatting information is directly applied to the selected attribute.
3. Click an empty area in the model window. The attribute selection is undone.

You have formatted the placed attribute.

### 4.5.1.4.29 Move placed attribute

You can move placed attributes of objects and connections.

#### Procedure

1. Click the placed attribute and hold down the mouse button. The attribute now has handles.
2. Drag the attribute to the required position and release the mouse button.

The attribute is placed at the new position.


### 4.5.1.4.30 Display placed attributes as a symbol

You can display certain attributes as a symbol (page 825) if they are placed.

#### Prerequisite


The attribute can be represented by a symbol. This is the case if you select the attribute and the **As a symbol** check box becomes available.

#### Procedure

1. Select the placed attribute you want to represent with a symbol.
2. Activate the Start (page 819) tab bar.
3. Click  **Attribute placement**.
4. Enable the **As a symbol** check box.

The placed attribute is represented as a symbol.

### 4.5.1.4.31 Remove placed attribute

You can remove placed attributes from the model window. Of course, only the attribute placement is deleted and not the value that was placed. To change the attribute value, edit the attribute (page 751) on the **Attributes** tab of the  Properties bar.

#### Procedure

1. Select the placed attribute (page 787) whose placement you want to remove.
2. Press the **Del** key.

The placement of the selected attribute is removed without prompting for confirmation.

### 4.5.1.4.32 Remove multiple placed attributes

You can remove multiple placed model, object, or connection attributes from the model window in only one step. Of course, only the attribute placement is deleted and not the value that was placed.


#### Procedure

##### Remove directly

1. Use the Ctrl key to select the placed attributes you want to delete in the model window directly.
2. Press the **Del** key.

The placements of the selected attributes are removed without prompting for confirmation.


### Use a dialog

1. Select the object or connection whose attribute placements you want to remove.
2. Activate the Start (page 819) tab bar.
3. Click  **Attribute placement > Delete attribute placement**. The dialog is displayed.
4. Enable the check boxes for the placed attributes whose attribute placement you want to delete. You can enable all check boxes at once by enabling the superior check box **Attribute name**.
5. Click **OK**.



The placements of the selected attributes are removed without prompting for confirmation.

You have removed multiple placed attributes.

### 4.5.1.4.33 Assign a model to an object

You can assign models to objects. The assignment enables you to describe objects in independent models in more detail, for example. Assigned models are displayed by way of an  assignment icon at the object and can be opened by double-clicking the assignment icon.

#### Procedure


1. In the open model, click the object to which you want to assign a new model.
2. Activate the Start (page 819) tab bar.
3. Click  **Assignment >  Create assignment**. The dialog opens.
4. Select the required model type. The model types that are allowed for the selected object by the method and by the method filter in use are available for selection.
5. Enter the relevant model name. The name of the selected object is suggested as a model name.
6. Click **OK**.

The new model is assigned to the selected object and opens on a separate tab. You can model the required content.

### 4.5.1.4.34 Open assigned model

You can open models that you assigned to objects.

#### Procedure



1. Navigate to the object for which you want to open an assigned model.
2. Double-click the  assignment icon.  
If multiple models are assigned to the object, the **Select model** dialog is shown, where you can select the model you want to open.  
If only one model is assigned to the object, it will open without prompting.

The assigned model opens and you can use it.

### 4.5.1.4.35 Delete model assignments

You can delete the relationship between objects and assigned models.

#### Procedure

1. Click the object with the assignment that you want to delete.
2. Activate the Start (page 819) tab bar.
3. Click  **Assignment** >  **Delete assignment**. The **Delete model assignment** dialog opens.
4. Enable the check box(es) of the model(s) for which you want to delete the assignment relationships.
5. Click **OK**.





The selected assignment relationships are deleted without prompting for confirmation.

### 4.5.1.4.36 Place model items one behind the other

You can specify in which order overlapping model items are placed one behind the other in the model window.

In the example below, it is assumed that you have created the three objects **1**, **2**, and **3** in sequence. As the most recently placed objects are created at the highest level, object **3** is at the highest level and object **1** is at the lowest level. You want to reverse this sequence.

#### Procedure

1. Activate the Start (page 819) tab bar.
2. Select the object **3** and click  **Arrange** >  **Send backward**.
3. Select the object **1** and click  **Arrange** >  **Bring forward**.


Now, when you place the objects one behind the other they are placed in the order 1, 2, and 3.

In the same manner, you can place graphic objects such as squares or circles behind parts of objects to highlight these areas separately.

### 4.5.1.4.37 Group model items

You can group model items and then handle them as if they were a single object.

#### Procedure

1. Select the model items you want to group.
2. Activate the Start (page 819) tab bar.
3. Click  **Group/Ungroup** > **Group**. The selected model items are combined in a group (page 867). The handles are placed around the grouping.


To select all items in a group, click one of the previously independent items. You can now move them all together, for example.



### 4.5.1.4.38 Ungroup

You can undo the grouping of model items and move and edit the items of the group separately once again.

#### Procedure


1. Select the grouping you want to undo.
2. Activate the Start (page 819) tab bar.
3. Click  **Group/Ungroup > Ungroup**. The grouping is ungrouped. Each item has its own handles.

When you click one of the previously grouped items, it is now selected separately once again and can be moved separately.

### 4.5.1.4.39 Align model items

You can quickly align selected model items relative to each other.

#### Procedure



1. Select the model items you want to align.
2. Activate the Start (page 819) tab bar.
3. Click  **Align** and then the relevant alignment, for example **Align left** or **Distribute vertically**.

The selected model items are aligned accordingly.

### 4.5.1.4.40 Match size of items

You can resize selected items so that they match.

#### Procedure

1. Select the different-sized model items you want to match.
2. Activate the Start (page 819) tab bar.
3. Click  **Match size of items** and then the relevant size change, for example,  **Same height (maximum)**.

The height of the selected model items is matched to that of the tallest item.

#### 4.5.1.4.41 Add a column/row to lane models

You can add new columns/rows to lane models (page 868). In the example, a row is added. The procedure for columns is the same.

##### Procedure

1. Click the relevant row header. The **+** **Add column/row** button is displayed.
2. Click **+** **Add column/row**. The **Insert lane** dialog opens.
3. Select the lane type you want to add.
4. Click **OK**.

The selected row is inserted under the marked row.

#### 4.5.1.4.42 Delete a column/row from lane models

You can delete columns/rows from lane models (page 868). In the example, a row is deleted. The procedure for columns is the same.

##### Procedure

1. Click the relevant row header. The **-** **Delete column/row** button is displayed.
2. Click **-** **Delete column/row**.  
If the row is not mandatory and contains no objects, it is deleted without prompting.  
If the row is mandatory and must always exist in the model, you are informed of this and the row is not deleted.  
If the row contains objects, you will be asked whether you want to delete the objects because the row can only be deleted after doing this.
3. Click **OK** if you are sure that the objects can be deleted together with the row.

The objects and the selected rows are deleted.

#### 4.5.1.4.43 Refresh model appearance

You can refresh the model appearance in order to display current content from the database. This is useful if several people work with the model items. For example, names of objects that have an occurrence in the model you have opened may have been changed.

##### Procedure


1. Make the relevant changes in your model.
2. Click **C Refresh** if you want to compare the most current state of your model with the changes from other users.


The current data is read from the database and the appearance of your model is refreshed. If for example, the names of the objects used in the model were changed the new names are displayed.

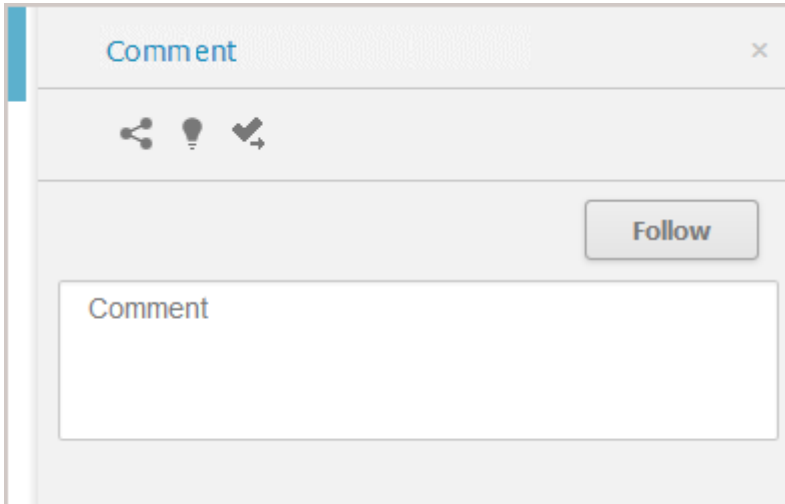
#### 4.5.1.4.44 Enter comments

You can write comments about models, which can be read and answered by other users. This way you can participate in improving your own models and those of others.

##### Procedure

1. Click  **Comment**. The Comment bar opens.

Click  **Collaboration** to show the **Collaboration** bar that you can use to enter notes, improvement proposals, questions, etc., pertaining to the model (page 794).



2. Enter a comment or answer an existing comment.
3. Enter an http link to a Web site that provides additional information, e. g., **http://www.ariscommunity.com**. The entry must start with **http://**.
4. Click **Post**.

Your comment or reply is added and can be read by the other users. Accordingly, users can react to your input and you can improve the model together with them as required.


#### 4.5.1.4.45 Select object or model in Explorer

You can navigate from a model to the occurrence of a selected object or of the model in Explorer.

##### Prerequisite

Selected objects are saved.

##### Procedure



1. Select the object to whose occurrence you want to navigate to in Explorer. If you want to navigate to the occurrence of the model, make sure that no object is selected.
2. Activate the Start (page 819) tab bar.
3. Click  **Go to occurrence in Explorer**.

A new tab showing the repository opens. The group structure of the database expands and the check box in front of the selected object or model is enabled in the detail view.

#### 4.5.1.4.46 Insert graphic

You can place images and graphics in the model window (page 809) in order to add further information to the model or to optimize the design. For example, you can optimize a model for representation purposes.

##### Procedure


1. Open the relevant model.
2. Open the **Symbols** bar if it is not already open by clicking  **Symbols**.
3. Click  **Graphic**. The **Select graphic** dialog opens.
4. Click **Select file** and use the **Open** dialog to navigate to the directory in which the required graphic or image is stored.
5. Select the graphic or image and click **Open**.

The image or graphic is placed in the model window. You can change its size, drag it to another position, and place it behind model items (page 791), for example.

#### 4.5.1.4.47 Export model as a graphic

You can export the model as a graphic and use it in other programs.

##### Procedure


1. Open (page 741) the relevant model.
2. Ensure that no model item is selected.
3. Activate the Model (page 820) tab bar.
4. Click  **Export as a graphic** in the tab bar. The model graphic is created.
5. Decide whether to open or save the graphic. To save the graphic, confirm the Save options in the dialog.

The model graphic either opens in your graphics program or is available as a PNG file in your download area.

#### 4.5.1.4.48 Export model items as a graphic

You can export parts of models as a graphic and use the graphic in other programs.

##### Procedure

1. Open (page 741) the relevant model.
2. Select the model item you want to export as a graphic.
3. Activate the Model (page 820) tab bar.
4. Click  **Export as a graphic** in the tab bar. The model item graphic is created.




5. Decide whether to open or save the graphic. To save the graphic, confirm the Save options in the dialog.

The model graphic either opens in your graphics program or is available as a PNG file in your download area.

#### 4.5.1.4.49 Export BPMN diagram

You can export (page 830) a BPMN diagram (page 802).

##### Procedure


1. In the  repository, select the group of the database containing the BPMN diagram. The group content is displayed.
2. In the row of the relevant BPMN diagram, click  **More**.
3. Click  **BPMN export**. The BPMN 2.0 diagram is validated. If modeling errors occur, these are highlighted in the diagram and must be corrected. A tip for solving an error is displayed when you move the mouse pointer over the highlighting. You can open or save the BPMN file.
4. Save the file at the required location.

You can use the exported BPMN diagram in other applications.

#### 4.5.1.4.50 Optimize layout

You can generate the layout of a model automatically.

##### Procedure



1. Open the model whose layout you want to generate automatically.
2. Activate the Model (page 820) tab bar.
3. Click  **Layout**. The layout options are provided.
4. Specify your settings and click **OK**.

The objects of the model are realigned.

#### 4.5.1.4.51 Insert space

You can insert space between model items, either from top to bottom or from left to right. You can then insert additional model items between the items you moved.

##### Procedure

1. Activate the Model (page 820) tab bar.
2. Click  **Horizontal space** to insert space from left to right.  
Click  **Vertical space** to insert space from top to bottom.  
A horizontal or vertical line is shown in the model window.
3. Click the position from where you want to insert space.



4. Move the mouse pointer to the right to insert horizontal space, or down to insert vertical space. The covered modeling area is highlighted in green and a plus sign is added. This allows you to immediately identify which area is being freed up for new model items.
5. Click the position up to where you want to insert space. Objects, graphic objects, and free-form text are moved from the highlighted area.

You have added space between existing model items, which you can use to place other model items.

#### 4.5.1.4.52 Remove space

You can remove space between model items, either from right to left or from bottom to top.

##### Procedure

1. Activate the Model (page 820) tab bar.
2. Click  **Horizontal space** to remove space from right to left.  
Click  **Vertical space** to remove space from bottom to top.  
A horizontal or vertical line is shown in the model window.
3. Click the position from where you want to remove space.
4. Move the mouse pointer to the left to remove horizontal space, or to the top to remove vertical space. The modeling area you select is highlighted in red and a minus sign is added. This enables you to immediately identify how much space will be reduced between the model items.  
Once you can no longer delete any space between model items, the area covered is no longer increased when moving the mouse pointer.
5. Click the position up to where you want to remove space. The model items are moved accordingly.

You have successfully removed space between model items.



#### 4.5.1.4.53 Generate report

You can generate and download a report for the open model or selected objects.

##### Procedure

Click  **Evaluation**. The **Evaluation** bar opens.




1. Click the **Reports** tab.
2. Select one or more objects or deselect all model elements to perform the action on the model.
3. Click the drop-down list box to display the list of available reports.
4. Leave the mouse pointer on the name of a report if you want to display its description.
5. Click the name of the relevant report.
6. Click the **Start** button if you want to output the report in the displayed format (page 640).  
To select a different output format, click the **Output format** field and select the format you want to use, e. g. **Output PDF**.

7. Click the **Start** button. The report is created.
  8. If additional settings are required, dialogs are opened. Specify the settings.
  9. When the report is created the result is listed in the **Reports** tab and a dialog to download the result opens.
  10. Click  **Download result**. Depending on your browser settings, you can specify the download folder or the result is downloaded in the default download folder.
  11. To download the result later, click  **Download report** in the **Reports** tab.
- You generated the report for the open model or for the selected objects.

#### 4.5.1.4.54 Run semantic check

You can run semantic checks for the open model or selected objects.

##### Procedure

1. Click  **Evaluation**. The **Evaluation** bar opens.
2. Click the **Semantic checks** tab.
3. Select one or more objects or deselect all model elements to perform the action on the model.
4. Click the drop-down list box to display the list of available semantic checks.
5. Leave the mouse pointer on the name of a semantic check if you want to display its description.
6. Click the name of the relevant semantic check.
7. Click the **Start** button if you want to output the semantic check in the displayed format (page 640).  
To select a different output format, click the **Output format** field and select the format you want to use, e. g. **Output XLS**.
8. Click the **Start** button. The semantic check is performed.
9. If additional settings are required, dialogs are opened. Specify the settings. When the semantic check is created the result is listed in the **Semantic checks** tab and a dialog to download the result opens.
10. Click  **Download result**. Depending on your browser settings, you can specify the download folder or the result is downloaded in the default download folder.
11. To download the result later, click  **Download semantic check result** in the **Semantic checks** tab.

You performed the semantic check for the open model or for the selected objects.

## 4.5.1.4.55 Use attributes

You can use attributes to describe and distinguish between models, objects and connections. You can place attributes directly in the model window (page 786), and specify for specific attributes that they are to be displayed as a symbol (page 789).

### 4.5.1.4.55.1 Customize Attributes tab

You can show additional attributes or specify whether and when attributes are to be shown.

#### Procedure

1. Click **i Properties**. The Properties bar opens.
2. Click the **Attributes** tab if it is not activated yet.
3. Click **Edit language** if you want to show (page 800) an additional language column for language-specific attributes. You can select an additional database language and view and edit it next to the language currently used.
4. Click **Add** on the **Attributes** tab. The **Select attribute** dialog opens.
5. Enter a search term for the attribute you want to display. A list of all attributes whose names contain the term you entered is displayed.
6. Click the relevant attribute.
7. Click **OK**. The selected attribute is added to the **Attributes** tab.
8. Click **⋮ More** next to the attribute whose visibility you want to specify.
9. Click **Hide always** if you want to hide the attribute from the **Attributes** tab even if a value has been specified. For the attribute to be displayed at a later time you need to select it explicitly by clicking **Add**.
10. Click **Hide, if not specified** if you want the attribute to be displayed in the **Attributes** tab only if a value has been specified.
11. Click **Place attribute** and the relevant position in the model window if you want the attribute value to be displayed in the model.
12. Click **Delete attribute**, if you want to delete the attribute value. You cannot change or delete attribute values of attributes that the system defines. These are placed in gray cells, for example, **Last change**.

The attributes will be displayed in line with your settings.




## 4.5.1.4.55.2 Edit attributes

You can edit model attributes and the attributes of objects or connections.

### Prerequisite

The attribute you selected can be edited. You cannot change or delete attribute values of attributes that the system defines. These are placed in gray cells, for example, **Last change**.

### Procedure




1. Click  **Properties**. The Properties bar opens.
2. Click the **Attributes** tab if it is not activated yet.
3. If you want to edit model attributes, ensure that no model item is selected.  
If you want to edit object or connection attributes, select the corresponding object or connection.
4. Display the relevant attribute (page 751) if it is not listed.
5. Click the cell that comes after the name of the attribute. A dialog is displayed. If you can enter any text for an attribute, a dialog including the formatting toolbar is displayed. If required, you can enlarge (page 802) this dialog.
6. Make your changes. Different input options are available depending on the type of attribute. While you can enter text for text attributes such as names, you can, for example, select a number and a unit for times.
7. Click **OK**.

You have changed the attribute value.

## 4.5.1.4.55.3 Show language column

You can show a column for another language next to the original column. This enables you to compare and edit (page 801) the contents of language-dependent items in different languages. For example, you can use this option to translate language-dependent contents from one language into another.

### Procedure



1. Click  **Properties**. The Properties bar opens.
2. Click the **Attributes** tab if it is not activated yet.
3. Click  **Edit language**. A second column is shown for language-dependent attributes.
4. Click the  **down arrow** in the header cell and select the required language.

The contents of the language column is displayed in the language you have selected. If you change or enter attribute values, this is done in the selected language.

### 4.5.1.4.55.4 Hide language column

You can hide the shown language column (page 800) when you no longer need it.

#### Procedure


1. Click  **Properties**. The Properties bar opens.
2. Click the **Attributes** tab if it is not activated yet.
3. Click  **Hide language**.

The additional column for language-dependent attributes is removed, and only the column of the original language remains visible.

### 4.5.1.4.55.5 Edit attributes of various languages

You can edit model, object, and connection attributes in various languages as long as they are not system attributes.

#### Procedure



1. Click  **Properties**. The Properties bar opens.
2. Click the **Attributes** tab if it is not activated yet.
3. Show the relevant attribute if it is not listed.
4. Show the required language column (page 800).
5. Click in the cell behind the attribute name. The **Edit** dialog and the selected language column are shown. If required, you can enlarge (page 802) the dialog.
6. Make your changes. Different input options are available depending on the type of attribute. While you can enter text for text attributes such as names, you can, for example, select a number and a unit for times. You cannot change or delete attribute values of attributes that the system defines. These are placed in gray cells, for example, **Last change**.
7. If you have specified your input for the language displayed and want to specify input for other languages, click the name of the selected language in the dialog. The list of available languages opens.
8. Select another language and make your entries.
9. Click **OK**.

Your changes are saved in the various languages.

### 4.5.1.4.55.6 Increase size of attribute editing dialog

You can increase the size of the attribute editing dialog so that you can conveniently edit comprehensive content.

#### Procedure




1. Open the dialog (page 751) for the attribute you want to edit.
2. Click  **Zoom in**. The size of the dialog increases and offers more space for editing the attribute.
3. Click  **Zoom out** to display the dialog in the original size again.

You have resized the attribute editing dialog according to your requirements.

### 4.5.1.4.55.7 Delete attributes

Use the Attributes bar to delete attributes.

#### Procedure

1. Select the object or connection whose attribute you want to delete. If you want to delete model attributes, you must ensure that no object or connection is selected so that the model attributes will be displayed on the **Attributes** tab of the **Properties** bar.
2. Click  **Properties**. The Properties bar opens.
3. Click the **Attributes** tab if it is not activated yet.
4. Behind the attribute you want to delete, click  **More**.
5. Click  **Delete attribute**.

The value of the attribute will be deleted. You cannot change or delete attribute values of attributes that the system defines. These are placed in gray cells, for example, **Last change**.

### 4.5.1.4.56 Use BPMN modeling support

Model Editor can assist you in modeling BPMN (page 864) diagrams. When placing objects, you automatically receive alternative object symbols for placement. Furthermore, when you work with BPMN diagrams, a specific tab bar is shown enabling you to quickly access BPMN functionality you frequently require.

#### 4.5.1.4.56.1 Change BPMN object symbol


You can change the symbol for selected objects if various symbols are available for them.

#### Prerequisite

The method filter in use includes different symbols of the objects you selected.

#### Procedure







1. Click an object, or hold the **Ctrl** key pressed to select multiple objects of the same type.
2. Activate the BPMN (page 823) tab bar.

3. Click  **Change symbol**. The list of object symbols available for the selected object(s) is shown.
4. Click the symbol you want to use from now on for the selected object/s in this model. The symbol for the selected object is or the symbols of the selected objects are changed.

### 4.5.1.4.56.2 Change loop type

You can use the **Loop type** attribute to specify the loop behavior for objects of the **Task** type.

#### Procedure


1. Select the task whose behavior you want to change.
2. Activate the BPMN (page 823) tab bar.
3. Click  **Change symbol**.
4. Click  **Marker**.
5. Click one of the loop behaviors  **None**,  **Standard**,  **Multi-instance parallel** or  **Multi-instance sequential**.

The loop behavior of the **Task** object has been changed.

### 4.5.1.4.56.3 Add lane

You add additional lanes to placed pools and lanes.

#### Procedure

1. Select the lane for which you want to add an additional lane.
2. Activate the BPMN (page 823) tab bar.
3. Click  **Add lane**. The options for adding lanes are displayed.
4. Click the corresponding option.

A lane is added to the selected lane according to your selection.

### 4.5.1.4.56.4 Insert lane into a pool or lane


You can easily insert a lane that is placed directly in the model into a pool or lane.

#### Prerequisites

The lane or pool into which a lane is to be inserted contains no flow objects.

#### Procedure

1. Activate the BPMN (page 823) tab bar.
2. Select the lane you want to insert.
3. Press the **Ctrl** key and select the pool or lane into which you want to insert the lane.






4. Click  **Insert lane**. If you have selected a pool into which to insert the lane, the lane is inserted immediately. If you have selected a lane into which to insert the lane, the **Specify which lane to insert** dialog opens.
5. Enable the options button of the lane you want to insert.
6. Click **OK**. The lane for which you have activated the options button is inserted into the other lane.

You have inserted a lane into a pool or lane.

#### 4.5.1.4.56.5 Move lane

You can subsequently reposition lanes that you have placed within pools or lanes.

##### Procedure

1. Click the lane you want to place at another position. The lane and all embedded objects are highlighted. Depending on where the lane is located with regard to the other lanes the corresponding options for moving are provided.
2. Activate the BPMN (page 823) tab bar.
3. Click  **Move lane** and select the required direction, such as  **Lane up**,  **Lane down**,  **Lane to the left**, or  **Lane to the right**.

The lane you selected is placed at the new position.


#### 4.5.1.4.56.6 Delete pool or lane

You can easily delete a lane or pool.

##### Prerequisites

Due to the deletion of a lane, flow objects and lanes must not be located side by side in the same pool. If so, the lane cannot be deleted.

##### Procedure


1. Activate the BPMN (page 823) tab bar.
2. Select the pool or lane you want to delete.
3. Click  **Delete pool or lane**.

The pool or lane is deleted.

#### 4.5.1.4.56.7 Transform communication into call conversation

You can easily transform a communication into a call conversation.

##### Procedure





1. Open or create a BPMN conversation diagram containing a communication object.
2. Activate the BPMN (page 823) tab bar.
3. Select the communication symbol of the communication object you want to transform.
4. Click  **Transform into call conversation**.

The communication object is transformed into a call conversation and the conversation symbol is marked in bold.

#### 4.5.1.4.56.8 Change type of sequence flow

You can change the sequence flow type in models of the **BPMN process diagram (BPMN 2.0)**, **BPMN collaboration diagram (BPMN 2.0)**, **Enterprise BPMN collaboration diagram**, and **Enterprise BPMN process diagram** type.

##### Procedure



1. Click the flow connection you want to change.
2. Activate the BPMN (page 823) tab bar.
3. Click  **Change type of sequence flow**.
4. Click one of the available types:  **Regular sequence flow**,  **Default sequence flow** or  **Conditional sequence flow**.

You changed the sequence flow type.

#### 4.5.1.4.56.9 Collapse subprocess

You can collapse a symbol for the **Subprocess** type. This way the process modeled in the subprocess is assigned to the subprocess and the subprocess is collapsed.

##### Procedure


1. Select the subprocess you want to collapse.
2. Activate the BPMN (page 823) tab bar.
3. Click  **Collapse subprocess**. The process contained in the subprocess is assigned to the object and, at the same time, is displayed as embedded in the object, which is indicated by a  **plus sign**. If a process is not yet assigned to the subprocess, the **Create assignment** dialog opens in which you can assign a new BPMN process.
4. Click the subprocess again.

The process contained is assigned to the subprocess (page 790) and can be opened by double-clicking the assignment icon.

#### 4.5.1.4.56.10 Expand subprocess

You can expand a collapsed symbol of the **Subprocess** type. This way the process modeled and assigned in this subprocess is displayed as embedded in the subprocess.

##### Procedure


1. Select the subprocess you want to expand.
2. Activate the BPMN (page 823) tab bar.
3. Click  **Expand subprocess**.

The process contained is displayed as embedded in the subprocess. (page 790) The process remains assigned to the subprocess (page 790).

#### 4.5.1.4.56.11 Edit subprocess

You can edit a subprocess.

##### Procedure


4. Activate the BPMN (page 823) tab bar.
5. Select the relevant subprocess symbol with an assigned model.
6. Click  **Edit subprocess**.

The assigned model is opened for editing.

#### 4.5.1.4.56.12 Assign global reference to call activity

You can assign a global process or a task to an object of the **Call activity** type. If you place a call activity, the **Select global process or task** dialog opens and you can assign the relevant global process or task. You can change the assignment later.

##### Procedure

1. Select the relevant call activity.
2. Activate the BPMN (page 823) tab bar.
3. Click  **Select global reference**. The **Select global process or task** dialog opens.
4. Navigate to the database group in which the relevant global process or task is stored.
5. Select the global process or task.
6. Click **OK**.

The selected global process or task is assigned to the call activity.



### 4.5.1.4.57 Map Alfabet objects to ARIS objects

You can map an Alfabet object to an ARIS object. Multiple mapping is not possible. By default, objects of the **Application system type** type can be mapped. In the description, this object type is used as an example.

#### Prerequisite

The database is connected with Alfabet.

#### Procedure

1. Open a model that contains objects of the **Application system type** type.
2. Select the relevant application system type.
3. In the Start (page 819) tab bar, click  **Alfabet** >  **Map Alfabet object**. The **Select Alfabet object** dialog opens.
4. Select the Alfabet table, e.g., **Application**. You will see only those Alfabet objects you have the privileges to use. If you start typing the object name into the **Filter** field, the number of entries will decrease.
5. Click the Alfabet object you want to map to the ARIS object. The option button is activated.
6. Click **OK**.

The mapping between the Alfabet object and the ARIS object has been created. The name of the Alfabet object is now used for the ARIS object. Additional attributes have been entered for this object in the **Alfabet** attribute type group in ARIS.




### 4.5.1.4.58 Create Alfabet object

You can create a missing Alfabet object to be mapped to an ARIS object.

#### Prerequisite

The database is connected with Alfabet.

#### Procedure

1. Open a model that contains objects of the **Application system type** type.
2. Select the relevant application system type.
3. In the Start (page 819) tab bar, click  **Alfabet** >  **Map Alfabet object**. The **Select Alfabet object** dialog opens.
4. Select the Alfabet table, e.g., **Application**.
5. Click **Create Alfabet object** button. The Alfabet login dialog opens.
6. Create the object in Alfabet.
7. In the **Select Alfabet object** dialog of the Model Editor, click  **Refresh**.

The new object is listed in the table.





### 4.5.1.4.59 Unmap Alfabet object

You can delete the mapping between an ARIS object and an Alfabet object. By default, objects of the **Application system type** type can be mapped. In the description, this object type is used as an example.

#### Prerequisite

**The database is connected with Alfabet.**

#### Procedure

1. Open a model that contains objects that are mapped to Alfabet objects (page 807).
2. Select the relevant **Application system type** object.
3. In the Start (page 819) tab bar, click  **Alfabet** >  **Unmap Alfabet object**.

The mapping between the selected ARIS object and the Alfabet object is removed without prompting. All attributes in the **Alfabet** attribute type group are deleted. The name of the Alfabet object continues to be used for the ARIS object.

## 4.5.1.5 Valuable information

This section provides background information to assist you in carrying out the relevant procedures.

### 4.5.1.5.1 How is the Model Editor structured?

The Model Editor from ARIS Connect has the following areas.

#### Header

The header outputs the name and type of the opened model. It also displays the current language.

If you change the language (page 742), the text attributes are output in the selected language as long as the text attributes are specified in the target language. If this is not the case, the text attributes are displayed in the alternative language and identified by the language code added to the alternative language.



Logistics - Value-Added Chain Diagram (US ▾)

#### Bar buttons

Using the bar buttons you can show or hide the **Search** and the **Comment, Properties, Reports**, and **Symbols** bars. You can also hide or show the header, depending on whether you need more space for the model window or want to be able to see the information provided in the header.



#### Tab bars

Tab bars enable you to access the relevant buttons within a specific context.

All tab bars contain frequently used buttons (page 818). This means that you do not need to switch between tab bars to access these buttons.

#### START TAB BAR

The **Start** tab bar groups the functions related to the representation and placement of model items (page 819).

#### MODEL TAB BAR

The **Model** tab bar groups the functions related to the layout and the graphic of models (page 820).

## FORMAT TAB BAR

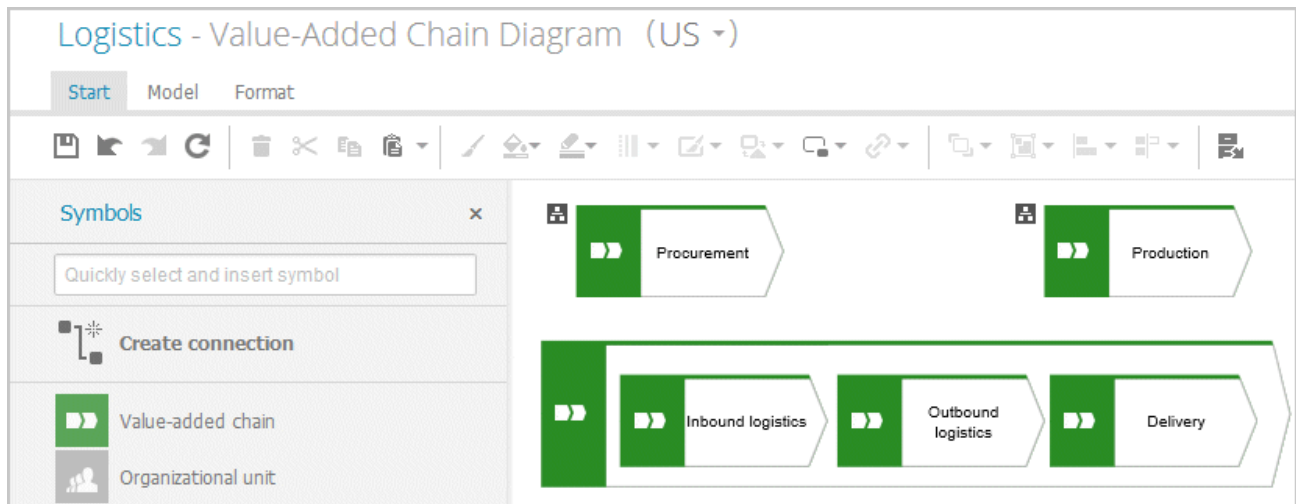
The **Format** tab bar groups the functions related to the presentation of written data in models (page 821).

## BPMN TAB BAR


The BPMN tab bar is displayed if you have opened a BPMN diagram. It groups the functions that are used for the convenient editing of BPMN diagrams (page 823).

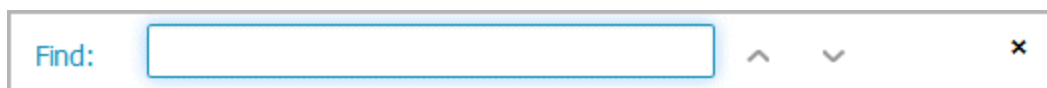
## Model window

The model items are arranged in the model window. You can see the changes made with the different bars immediately. Thus, color changes made to objects or changes in the size of appearance are displayed at once. In addition, you can quickly bring relevant objects into the visible model area, even in large models, using the **Find** button in the bar buttons.



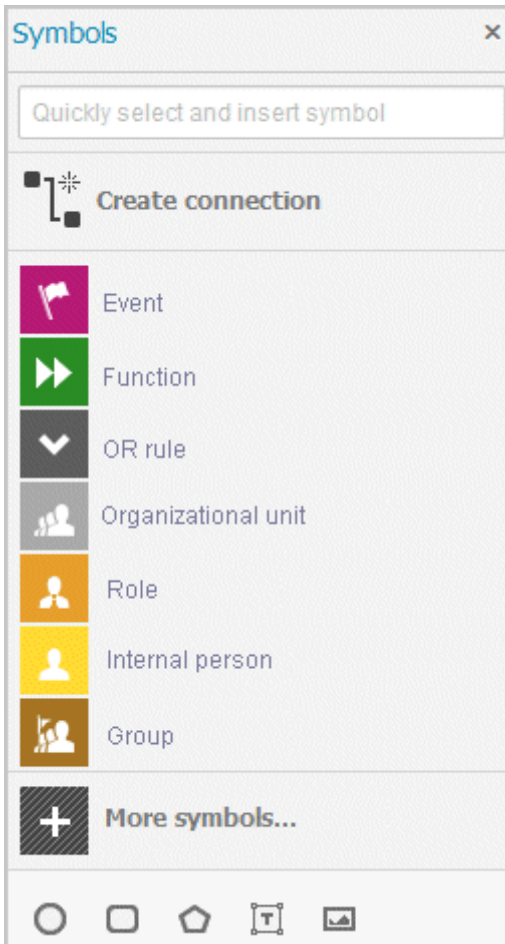
## Find bar

Click  **Find** in the bar buttons to show the Find bar that you can use to have objects selected in the model (page 774).




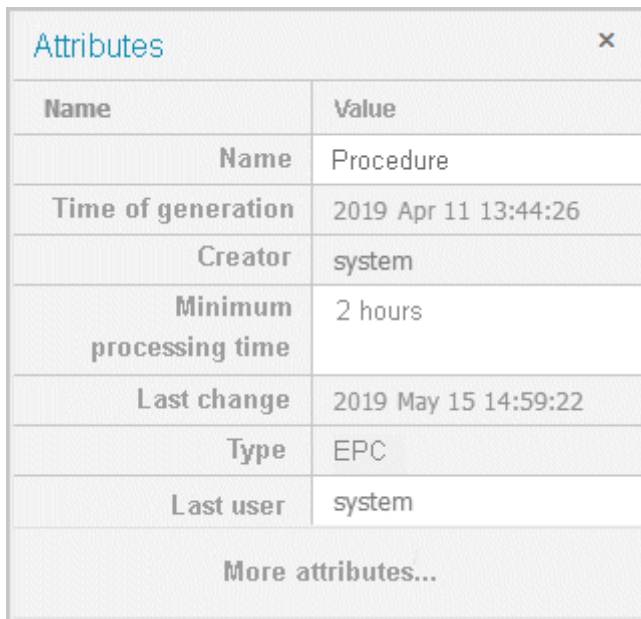
## Symbols bar

The **Symbols** bar provides object symbols (page 743), graphic objects (page 748), and text (page 753) for insertion into the model window. It also allows you to filter the available object symbols by entering names and create connections between (page 752) objects.




## Properties bar

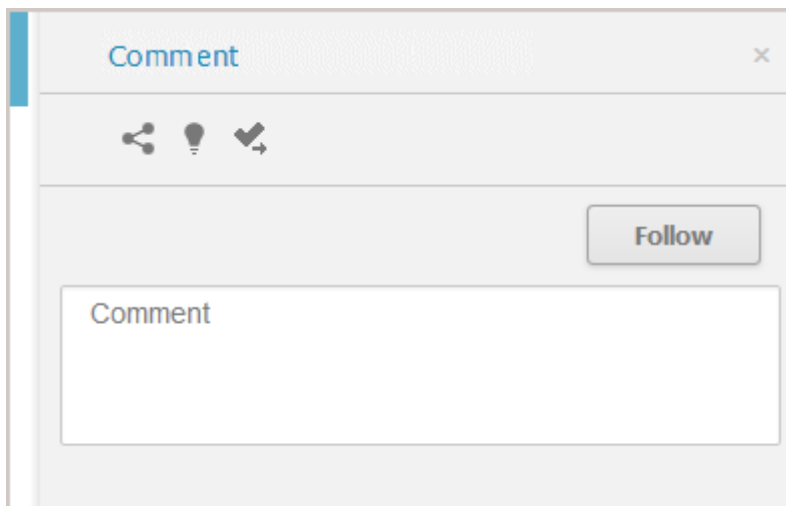
Click  **Properties** in the bar buttons to show the Properties bar where you can edit attributes (page 751), or view occurrences (page 756) and relationships of objects (page 757), for example.



Name	Value
Name	Procedure
Time of generation	2019 Apr 11 13:44:26
Creator	system
Minimum processing time	2 hours
Last change	2019 May 15 14:59:22
Type	EPC
Last user	system
More attributes...	

## Comment bar


Click  **Comment** in the bar buttons to show the **Comment** bar that you can use to enter notes, improvement proposals, questions, etc., pertaining to the model (page 794).

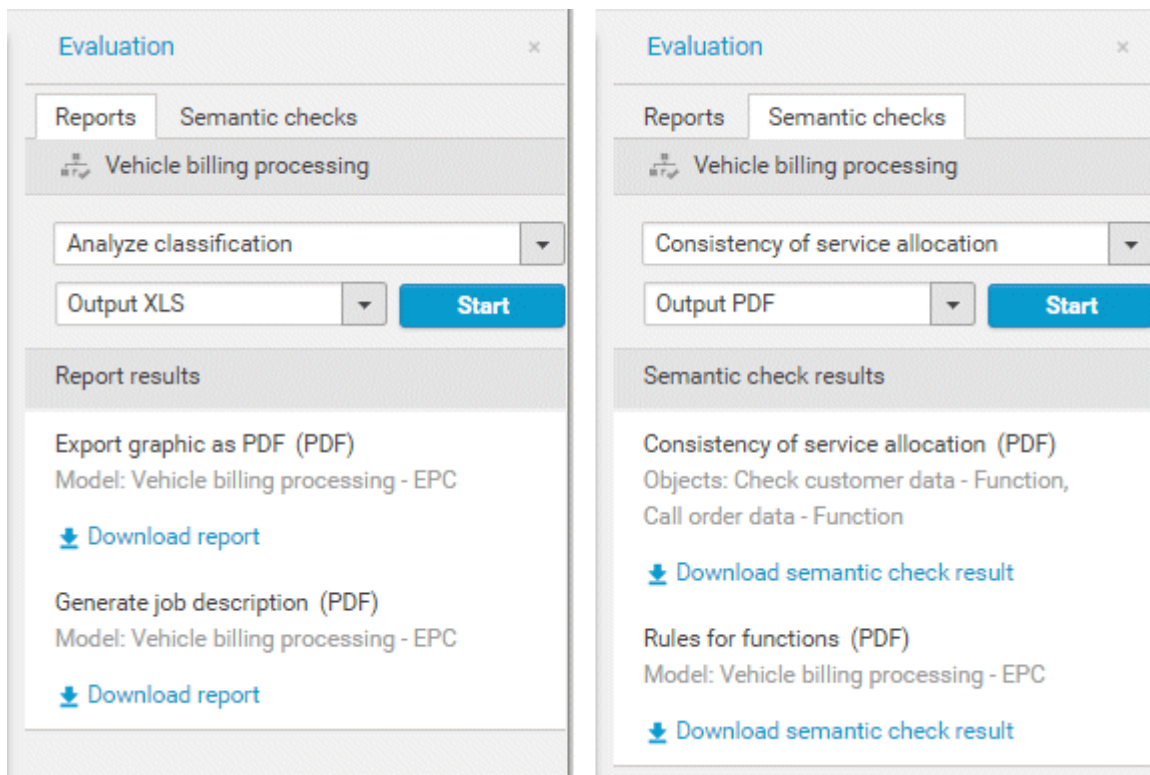


Comment

Follow


## Evaluation bar

Click  **Evaluation** in the bar buttons to show the **Reports** and **Semantic checks** tabs and generate reports (page 797) and semantic checks evaluations. and semantic checks (page 798).



## Display bar

The Display bar is located at the bottom of the model window. You can use this bar to quickly define which model areas are to be displayed in the visible window pane (page 754).

If for example, you want to display the entire model in the visible window pane, click  **Fit to window** (without any model item being selected).



## 4.5.1.5.2 What model types are available in ARIS Connect?

The following model types are available. Depending on the filter you are using not all model types are available.

Access diagram
Access diagram (physical)
Application collaboration diagram
Application collaboration diagram (physical)
Application system diagram
Application system type diagram
ArchiMate model (2.1)
ArchiMate model (3.0)
Attribute allocation diagram (Solution Design)
BPMN allocation diagram (BPMN 2.0)
BPMN collaboration diagram (BPMN 2.0)
BPMN conversation diagram (BPMN 2.0)
BPMN process diagram (BPMN 2.0)
BSC Cause-and-effect diagram
Bow tie diagram
Business controls diagram
Business footprint diagram
Business rule allocation diagram
Business rule architecture diagram
Business segment matrix
Class diagram
CtX-tree
Data type diagram (Solution Design)
Data Warehouse model
Document structure (Solution Design)
DW structure
eERM
eERM attribute allocation diagram

Enterprise BPMN collaboration diagram
Enterprise BPMN process diagram
EPC
EPC (column display)
EPC (horizontal table display)
EPC (material flow)
EPC (row display)
EPC (table display)
Fishbone diagram
Function allocation diagram
Function mapping
Functions mapping (SAP Solution Manager)
Function tree
IE Data model
Information carrier diagram
IT architecture mapping
IT architecture matrix
Knowledge map
Knowledge structure diagram
KPI allocation diagram
KPI tree
Network diagram
Network topology
Objective diagram
Organizational chart
Process selection diagram
Process selection matrix
Product allocation diagram
Product selection matrix
Product/Service exchange diagram
Product/Service tree



Product tree
Program flow chart
Questionnaire template allocations
Quick model
RAD
Requirement allocation diagram
Requirements tree
Risk diagram
Role diagram
SAP functions mapping (SAP Solution Manager)
SAP NetWeaver Business Warehouse data flow model
SAP NetWeaver Business Warehouse data flow model
SAP NetWeaver Business Warehouse mapping multi provider
SAP NetWeaver Business Warehouse structure
SAP NetWeaver Business Warehouse transformation
SAP Solutions allocation diagram
SAP Solutions organizational elements mapping
Screen design
Screen design (Solution Design)
Screen diagram
Screen navigation
Service allocation diagram
Service architecture diagram
Service collaboration diagram
SIPOC
Strategy allocation diagram
Strategy diagram
Structuring model
Survey management
SWOT diagram
System environment

Table diagram
Task allocation diagram
Technical resources
Technical terms model
TOGAF diagram
Value-added chain diagram
Value stream map
Work breakdown structure
XML model

#### 4.5.1.5.3 Which method filter is used?

When you open and edit models, your work is based on method filters (page 868).

The method filter applied depends on the method filter(s) assigned to you.

- If you were assigned only one filter, that filter is applied.
- If you were assigned multiple filters:
  - The method filter assigned to the database is used (default filter of the database).
  - If the default filter of the database does not exist, the filter **Entire method** is used.
  - If the **Entire method** filter also does not exist, the first method filter of the alphabetically sorted list is used.

Database administrators specify which method filter a user may use in ARIS Cloud. To do this, a database administrator assigns the relevant method filter to the database and user in ARIS Cloud Administration.

#### 4.5.1.5.4 What are tab bars for?

Tab bars enable you to access the relevant buttons within a specific context.

All tab bars contain frequently used buttons (page 818). This means that you do not need to switch between tab bars to access these buttons.

##### START TAB BAR

The **Start** tab bar groups the functions related to the representation and placement of model items (page 819).

##### MODEL TAB BAR

The **Model** tab bar groups the functions related to the layout and the graphic of models (page 820).

##### FORMAT TAB BAR

The **Format** tab bar groups the functions related to the presentation of written data in models (page 821).

##### BPMN TAB BAR

The BPMN tab bar is displayed if you have opened a BPMN diagram. It groups the functions that are used for the convenient editing of BPMN diagrams (page 823).

#### 4.5.1.5.5 What general buttons are available?

The following general buttons are available for each tab bar.



**Save:** Saves your changes in the database.



**Undo:** Undoes editing steps.



**Redo:** Redoes editing steps that were undone.



**Refresh:** Refreshes the display. Reloads the data from the database and thereby also shows any changes made by a different editor in the meantime.



**Delete:** Deletes selected model items.



**Cut:** Cuts selected items and saves them to the clipboard.



**Copy.** Copies selected items to the clipboard.



**Paste:** Pastes the content of the clipboard into the model. If an object is on the clipboard, an occurrence copy (page 827) is inserted. Click the arrow next to the **Paste** icon if you want to paste a definition copy.

### 4.5.1.5.6 What buttons does the Start tab bar have?

Beside the general buttons (page 818), the **Start** tab bar provides the following buttons.



**Format painter:** Transfers the format (page 781) from one item to another.



**Fill color:** Colors the item in the selected color (page 781).



**Line color:** Colors the line of the item in the selected color (page 783).



Equation 1: Edit

**Line style and weight:** Assigns selected items a different style (page 784) (**Dotted**, **Dashed**, or **Solid**) and defines the weight (page 784).



**Appearance:** Assigns other properties to or removes properties from selected items (page 784), such as **Shaded**, **3-D effect**, and in addition, **Active** for objects.



**Change symbol:** Changes the symbol (page 747) of a selected object or the symbols of all selected objects of a type.



**Attribute placement:** Places attributes at the preset positions.



**Assignments:** Assigns a new model to the selected object (page 790). The type and name of the new model can be selected.



**Arrange:** Positions selected items (page 791) behind or in front of other items.



**Group/Ungroup:** Groups selected items (page 791), so that they can be treated like a single item or ungroups them (page 792).



**Align:** Aligns selected items on the modeling area with regard to each other (page 792).



**Match size of items:** Matches the size of selected model items with each other (page 792).



**Go to occurrence in Explorer:** Opens a new tab showing the repository for the selected object or model and enables the relevant check box.



**Alfabet:** Provides functionality for establishing connections (page 807) with Alfabet.

### 4.5.1.5.7 What buttons does the Model tab bar have?

Beside the general buttons (page 818), the **Model** tab bar provides the following buttons.



**Optimize layout:** Automatically creates a new layout for the model (page 796).



**Horizontal space:** Inserts space in your model (page 796) from left to right.



**Vertical space:** Inserts space in your model (page 796) from top to bottom.



**Export graphic:** Exports the graphic of the model (page 795) to your download area.



**Connection properties:** Determines the bridge height and rounding intensity of connections (page 747).



**Grid:** Shows and hides (page 743) the grid in the model windows and sets the grid width (page 743).



**Template:** Provides the available model templates for selection (page 739).

### 4.5.1.5.8 What buttons does the Format tab bar have?

Beside the general buttons (page 818), the **Format** tab bar provides the following buttons.



**Format painter:** Transfers the format (page 781) from one item to another.



**Font format:** Provides the available font formats for selection.



**Bold:** Applies bold formatting to a text.



**Italic:** Applies italic formatting to a text.



**Underline:** Applies underline formatting to a text.



**Strikethrough:** Applies strikethrough formatting to a text.



**Font color:** Opens the color palette for you to change the color of the selected text.



**Font:** Provides all fonts available for the selected text.



**Font size:** Enables you to change the font size for the selected text.



**Reset character formatting:** Undoes all formatting changes.



**Increase indent:** Increases the text indent from the left margin.



**Decrease indent:** Decreases the text indent from the left margin.



**Bullets:** Applies a bullet to each paragraph of the selected text.



**Numbering:** Turns the paragraphs of the selected text into a numbered list, starting at 1.



**Align left:** Aligns selected text to the left.



**Centered:** Aligns selected text to the center.



**Align right:** Aligns selected text to the right.

### 4.5.1.5.9 What buttons does the BPMN tab bar have?

Beside the general buttons (page 818), the **BPMN** tab bar provides the following buttons.



**Change symbol:** Changes the symbol (page 747) of a selected object or the symbols of all selected objects of a type.



**Add lane:** Adds a new lane (page 803) to a pool or lane.



**Insert lane:** Inserts a selected lane in the selected pool or lane (page 803).



**Delete pool or lane:** Deletes the selected pool or lane (page 804).



**Move lane:** Moves the selected lane (page 804) in the required direction.



**Transform into call conversation:** Transforms communication elements into call conversations (page 805).



**Change type of sequence flow:** Specifies the type of a sequence flow (page 805).



**Collapse subprocess:** Collapses a subprocess object (page 805).



**Expand subprocess:** Expands a subprocess object (page 806).



Figure 1: Edit

**Edit:** Opens the assigned model contained in the subprocess (page 806) on a separate tab for editing.



**Select global reference:** Opens the dialog **Select global process or task** to assign it to a Call activity (page 806).



#### 4.5.1.5.10 What is the mini toolbar for?

The mini toolbar provides you with exactly the object symbols that can be linked to the selected object using a connection.



When you place an object symbol from the mini toolbar in the model window a connection between the selected object and the new object symbol is created at the same time. In addition, you can use the mini toolbar to create connections to existing objects.

The mini toolbar is configured for each object type. When you click an object, the mini toolbar provides the object symbols you selected for the underlying object type.

#### 4.5.1.5.11 How are object relationships displayed by symbols?

The relationships are identified by the following symbols:



Symbol for relationships for which an occurrence or an implicit connection exists in the current model.



Symbol for assignment relationships (implicit relationships).



Symbol for relationships for which no occurrences exist in the current model and that are not implicit either.

For example, if a connection was created between objects **A** and **B** and object **B** has been deleted, the relationship is displayed when object **A** is selected.

#### 4.5.1.5.12 What placed attribute does an object have?

If you place an object in the model window, the name of the object is output as an attribute. The name attribute is usually placed within the object. You can place additional attributes of objects in the model window in order to have the relevant information available directly in the model window.

If you want to place more attributes, it is useful to place them near the object to which they belong. It can however occur that in the layout objects are positioned very close to one another making it difficult to say which object a placed attribute belongs to. In addition, it is also possible to place attributes freely. If an attribute was placed farther away from its object it may be difficult to assign the placed attribute after the layout is changed.

By clicking on an object it is given colored handles as a marker and its attributes are given handles that are not colored. This enables you to identify which placed attributes an object has. This also applies to placed attributes that do not have an attribute value. They are invisible in the

model window until you assign a value to them. If the associated object is selected the "invisible" placed attribute also receives attribute handles.

#### 4.5.1.5.13 What to consider when placing objects in/on objects

You can place objects on other objects (page 775) or in other objects (page 775). The difference between these two procedures is as follows: When placing an object **on** another object you specify that no implicit connection will be created between the objects. In contrast, when placing an object **in** another object you specify that an implicit connection is to be created between the objects.

You can place multiple objects of one type in an object at once. If you want to embed two objects at once and object 1 already has a connection to the enclosing object while object 2 has none, proceed as follows when creating connections:

- Select the connection that exists between object 1 and the enclosing object: This connection now links both objects to the enclosing object.
- Select a connection other than the one that exists between object 1 and the enclosing object: Object 1 is now linked to the enclosing object via two connections - the existing connection and the one you have selected. Object 2 uses the new connection.

Objects that were placed in other objects are also moved when the enclosing object is moved. If an enclosing object is selected, the embedded object is selected as well. This indicates clearly that an object is embedded in another object. In contrast, a non-embedded object is neither selected nor moved when the object on which it was placed is selected or moved.

You can drag an embedded object from an enclosing object to the modeling area. The connections linking the objects are then displayed.

#### 4.5.1.5.14 What does place attribute as a symbol mean?

Attributes of objects can be placed in the model window which allows them to emphasize additional, important aspects in the model.

A symbol can be placed instead of a value for some attributes, which allows the attribute value to be identified immediately.

If such an attribute was specified and placed, e. g., the **Existence** attribute, the **As a symbol** check box becomes available. If you enable the check box, a plus sign is placed in the modeling area instead of **Yes** for the **Existence** attribute, and a minus sign instead of **No**.

### 4.5.1.5.15 What does place attribute as a symbol mean?

There are attributes for which a default symbol is defined.

If such an attribute was specified and placed, e. g., the **Existence** attribute, the **As a symbol** check box becomes available. If you enable the check box, a plus sign is placed in the modeling area instead of **Yes** for the **Existence** attribute, and a minus sign instead of **No**.

Other attributes can be assigned attribute symbols for placement by a user with the **Configuration administrator** function privilege. This is done on the **Administration** tab in ARIS Cloud Administration.

### 4.5.1.5.16 What happens to placed attributes that have no attribute value?

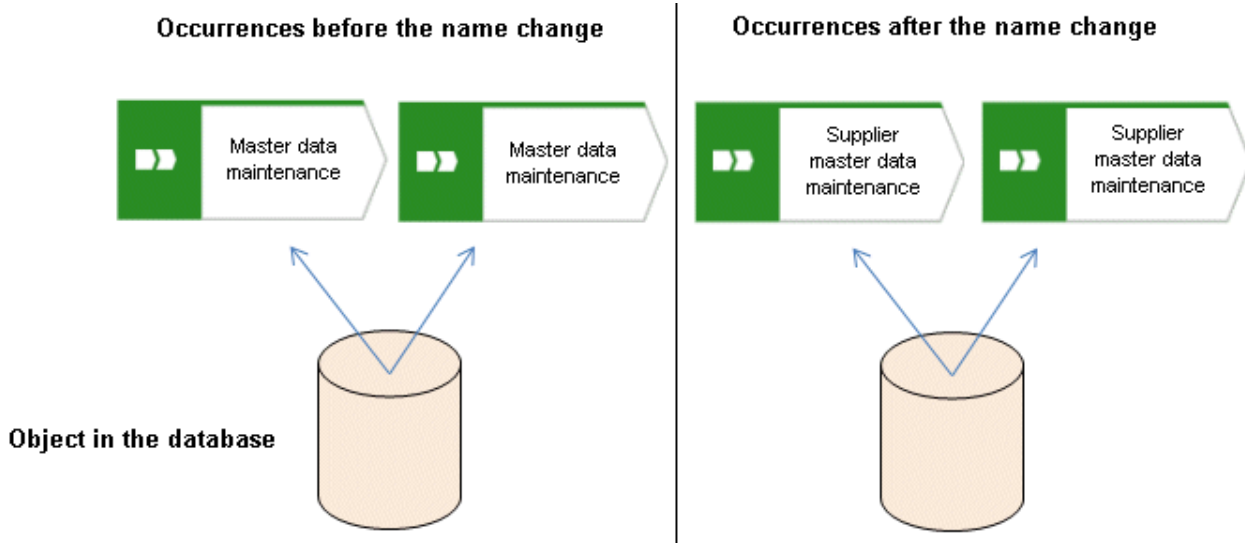
If you place an object in the model window, the name of the object is output as an attribute. The name attribute is usually placed within the object. You can place additional attributes of objects in the model window in order to have the relevant information available directly in the model window. The usual procedure is to place attributes with an attribute value that can be seen directly in the model.

However, it may be useful to place attributes that are assigned a value at a later point in time. If, for example, it was defined that, as a rule, the maximum processing time is to be placed to the upper left of the **Function** object type this may happen even if the attribute value of this attribute has not been entered for all functions. If the value is entered later it is automatically displayed in the model window.

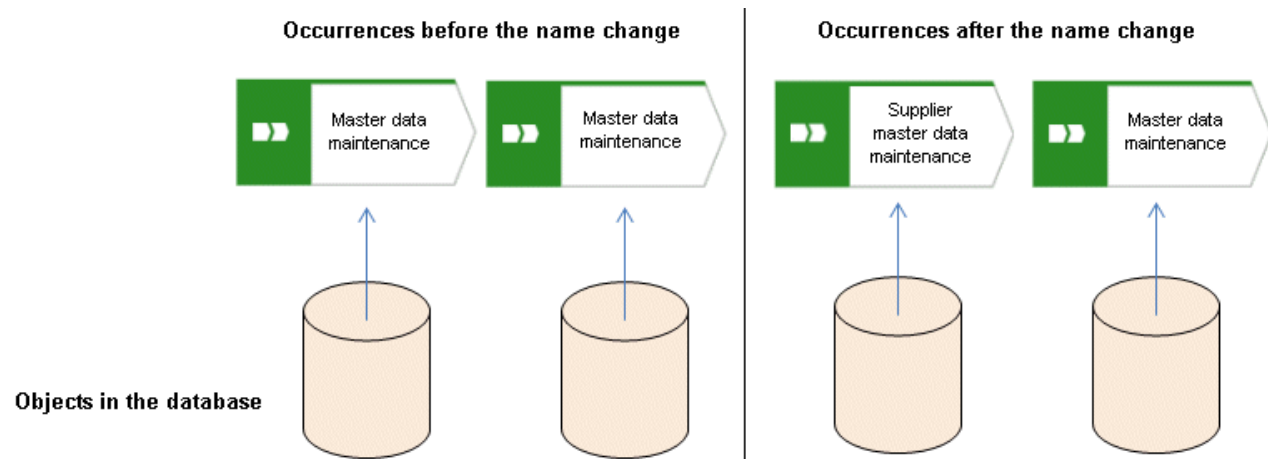
If a placeholder is to be used to make the placement of attributes without a value visible in the model window, you can define that they are to be placed with an attribute name. In our example, **Max. processing time:** would then be output for the relevant functions, and a value entered would appear behind the colon.

### 4.5.1.5.17 What is the difference between occurrence copy and definition copy?

An occurrence copy is only the copy of a graphical representation of an object. Thus, when you create an occurrence copy, a graphic is created that references the copied object:



When you create a definition copy, an entirely new object is created whose attributes are identical with those of the copied object:



If attributes of an object are changed, this change also applies to the corresponding attributes in all occurrences of the object. This becomes clear when changing the **Name** attribute:

	Source object	Occurrence copy	Definition copy
Before the name change			
After the name change			

### 4.5.1.5.18 Which items can be copied from one model to another?

You can copy graphic objects, such as circles, free-form texts, graphics, and objects, from one model to another.

However, for an object to be pasted in the target model it has to be allowed there by the method. For example, if you copy functions and organizational units in the source model, only the organizational units will be pasted into a model of the **Organizational chart** type because functions are not allowed in this model type. The corresponding information is provided by the preview frames of the copied functions, showing as crossed out with an X when they are pasted into the organizational chart.

### 4.5.1.5.19 Which formats are copied to which items?

You can copy the formats of a selected item to another item or to several other items. This depends on whether the format has been copied to one or more items and also the items between which the format is copied.

#### THE FOLLOWING FORMATS ARE COPIED:

- Fill color, including transparency and gradient
- Line style, weight, and color
- Shadow
- Active information of objects and connections
- Connection direction arrow (if the source and target connections are of the same connection type)

#### THE FORMAT CAN BE COPIED BETWEEN THE FOLLOWING ITEMS:

- Object occurrences
- Connection occurrences
- Attribute occurrences
- Graphic objects, e.g., circle, square, etc.
- Free-form texts and placed model attributes
- Groupings (as the target, with the formats being copied to all items in the grouping as if the items were selected individually)

#### FORMAT COPYING AFFECTS THE FOLLOWING ATTRIBUTE PLACEMENT CHARACTERISTICS:

- Placement and sorting
- Font formats and individual characters as well as paragraph formatting for attribute definitions if the formatting includes the entire text.
- Alignment
- **With attribute name** and **As a symbol** settings

### WHEN A FORMAT IS COPIED, IT AFFECTS THE FOLLOWING CHARACTERISTICS OF FREE-FORM TEXTS/PLACED MODEL ATTRIBUTES/ATTRIBUTE OCCURRENCES:

- Font formats
- Alignment
- **As a comment** setting
- **Character formatting** setting
- General character formatting.

#### 4.5.1.5.20 Which formats are not copied?

You can copy the formats of a selected item to another item or to several other items. This depends on whether the format has been copied to one or more items and also the items between which the format is copied.

However, some formats are not copied:

- Model properties, e.g., background color, grid, and print settings, and the **New connections only right-angled** setting are not copied for models.
- In terms of attribute placements, the text area size is not copied.
- The size is not copied for objects, free-form text/placed model attributes/attribute occurrences in order not to destroy the layout of models.

#### 4.5.1.5.21 How are formats copied to identical and different items?

You can copy the formats of a selected item to another item or to several other items. This depends on whether the format has been copied to one or more items and also the items between which the format is copied.

It is possible to copy formats from one item to another identical item, but also from one item to a different item, e.g., from an object occurrence to a connection occurrence. The items can be placed in different models.

Of course, the formats copied between different items are based on the formats that are available to all these items. Below, we will use the example of object occurrences to explain how formats are copied.

The object symbol size is not copied in order not to destroy the layout of models.

#### SOURCE AND TARGET OCCURRENCES ARE IDENTICAL

Object occurrences are identical if they are based on the same object type and have the same object symbol. All formats are copied.

#### PLACED SOURCE AND TARGET ATTRIBUTES ARE IDENTICAL

The copy format function causes the attribute placements of the source object occurrence to be transferred to the target object occurrence. This means that the target object occurrence receives the attribute placements of the source object occurrence.

### SOURCE AND TARGET OBJECT OCCURRENCES DIFFER

- The source object occurrence is based on another object type than are the target object occurrences/All target object occurrences are identical: All formatting except for the fill color is copied.  
For example, the formatting of an activity can be copied to a group of organizational units or graphic objects.
- The source object occurrence is based on another object type than are the target object occurrences/Target object occurrences differ: The formats are copied only to object occurrences that are identical to the source object occurrence. None of the other objects change at all.  
This enables you to use the mouse to select modeling areas and copy the format without having to consider whether object occurrences will be changed unintentionally.

### PLACED SOURCE AND TARGET ATTRIBUTES DIFFER

The copy format function copies the formats only from placed attributes that exist in both the source and target object occurrences. The position is not copied. If the source and target attributes have different placements, the attribute placements are not deleted or created.

#### 4.5.1.5.22 How is the format copied to placed attributes?

You can copy the formats of a selected item to another item or to several other items.

The following applies to placed attributes and free-form texts:

- If object or connection occurrences are the target, all of the placed attributes of the target are modified. The position is not changed.
- If placed attributes or free-form texts are the target, the target text is modified. The position is not changed.

#### 4.5.1.5.23 How to import a BPMN file

The following applies when importing (page 731) a BPMN 2.0 diagram:

- You can import BPMN diagrams of the **BPMN collaboration diagram (BPMN 2.0)** and **BPMN process diagram (BPMN 2.0)** type.
- **<bpmn:import>** elements are not supported (see chapter 15.3.1 **Document Structure** of the BPMN specification (<http://www.bpmn.org/>)).
- Existing ARIS objects are not reused. Importing the same file multiple times results in new models and definition copies. Occurrence copies of objects are not generated.
- XSD ID references are supported. QNames that can contain namespaces are not supported (see chapter 15.3.2 **References within the BPMN XSD** of the BPMN specification (<http://www.bpmn.org/>)).
- There are character limits for attributes in ARIS. For example, the Name (AT\_NAME) attribute can have a maximum of 250 characters. If the BPMN import exceeds this number of characters, the first 250 characters are used and the remaining characters are cut off.

#### 4.5.1.5.24 What is Alfabet?

Alfabet is an IT planning and portfolio management system. Based on answering the questions, when, where, how and why to make changes in the IT portfolio, it is used to increase IT investment returns and reduce transformation risks.

#### 4.5.1.5.25 How do ARIS and Alfabet interact?

You can use the **ARIS - Alfabet Interoperability Interface** to reuse objects from ARIS and Alfabet databases in the respective other system. This is done interactively and for one object at a time or as a batch job and for multiple objects at once. By default, data from applications can be transferred from Alfabet to the ARIS database, while processes and functions can be transferred from ARIS to the Alfabet database.

It is easy to navigate between the systems. For example, from a business process in Alfabet, you can jump to the corresponding function or to a model in ARIS Connect that contains the function.


#### 4.5.1.5.26 When is the Alfabet button shown?

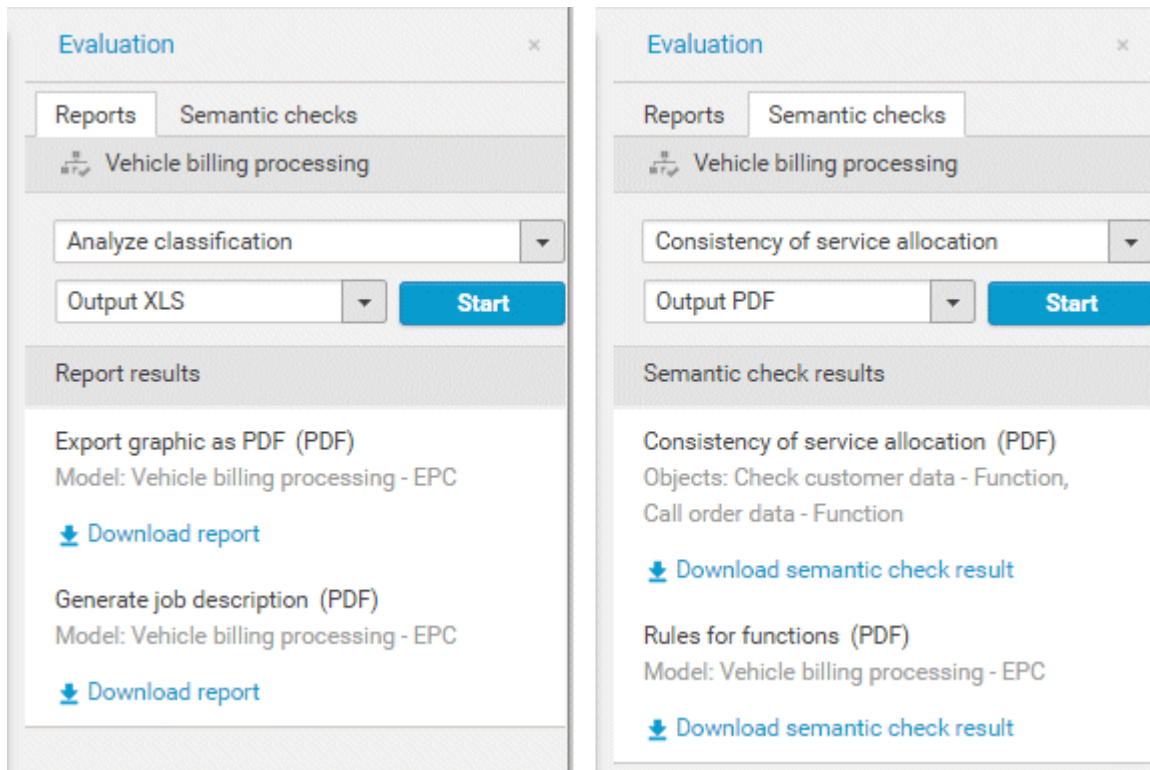
When Alfabet is configured with ARIS Architect, the Alfabet button is available in the Start (page 819) tab bar. You can find the complete configuration description in the ARIS Architect online help.



### 4.5.1.5.27 What reports are available?

The Evaluation bar provides various reports. Depending on the model type you have opened or the object type you have selected, the reports offered may vary because only the reports related to the corresponding model or object type are displayed.

Click  **Evaluation** in the bar buttons to show the **Reports** and **Semantic checks** tabs and generate reports (page 797) and semantic checks evaluations. and semantic checks (page 798).



Here is an excerpt from the list of available reports.

#### REPORTS AVAILABLE FOR MODELS

**Create process manual (page 629)**

**Export graphic as PDF (page 630)**

**Generate job description (page 630)**

**Output functions across multiple assignment levels (page 632)**

**Output functions with connected objects (page 634)**

**Output model information (page 635)**

**Output model information considering various aspects (page 635)**

**Output object information (page 636)**

**Process manual (example) (page 637)**

**RA(S)CI - Output organizational participations in processes (page 638)**

## REPORTS AVAILABLE FOR OBJECTS

### Analyze classification

### Output object information

### Output occurrences of objects

## 4.5.1.5.27.1 Create process manual

### USE

This report outputs all data from the selected processes up to the selected assignment level.

### CONTEXT

Models of type:

- BPMN process diagram (BPMN 2.0)
- BPMN process diagram (BPMN 1.x)
- E-Business scenario diagram
- EPC
- EPC (material flow)
- EPC (column display)
- EPC (horizontal table display)
- EPC (table display)
- EPC (row display)
- Industrial process
- Office process
- Process schedule
- UML Activity diagram
- PCD
- PCD (material flow)
- Value-added chain diagram

### OUTPUT FORMAT

- PDF
- DOC
- DOCX
- ODT
- RTF

## 4.5.1.5.27.2 Export graphic as PDF

### USE

This report exports a model graphic as a PDF file.

### CONTEXT

Models

### OUTPUT FORMAT

PDF

## 4.5.1.5.27.3 Generate job description

### USE

Generates a job description for each selected organizational element and considers all processes and functions involved.

The following information can be output for each function:

- Organizational elements of the functions
- Data
- IT
- Improvement potential

If you start the report for models, only the modeled items are included. If you start the report for objects, all relevant object definitions are evaluated.

By default, the **carries out** connection is evaluated for the **Executing** relationship. The following connections are included for the **Participating** relationship:

- has consulting role in
- is IT responsible for
- is technically responsible for
- must be informed about
- must be informed on cancelation
- must inform about result of

Script administrators can change the content of the output.

If you output functional weak points, all information is output as for the job description. However, the selected organizational unit is listed along with all organizational units.

## CONTEXT

### MODELS OF TYPE

- EPC
- FAD
- Office process
- VACD

### OBJECTS OF TYPE

- Group
- Organizational unit
- Organizational unit type
- Person
- Role
- Location
- Position
- System organizational unit
- System organizational unit type

### OUTPUT FORMAT

- DOC
- XLS
- PDF
- DOCX
- ODT

## 4.5.1.5.27.4 Output functions across multiple assignment levels

### USE

Outputs the following information for the selected models:

- Functions across multiple assignment levels
- Functions across multiple assignment levels according to ISO certification

The model attributes, the group, and the model graphic are output for the models, while the standard items are output additionally in the case of an evaluation according to ISO certification.

### THE FOLLOWING INFORMATION IS OUTPUT FOR EACH MODEL EVALUATED

- Chapter number
- Model name
- Model type
- Function to which the model is assigned.
- Name of the group in which the model is saved.
- Specified model attributes
- Functions of the model are described in the order in which they are created within a partial path in the model. For each function, the chapter number and the name of the function are output.
- Model graphic (optional)
- Model type of the assigned models to be evaluated (optional)

Functions that occur in multiple models are only described once. Each subsequent occurrence in the report output contains a reference to this description.

### ASSIGNED MODELS ARE HANDLED AS FOLLOWS

- All functions with assignments are determined.
- If an assigned model is a function allocation diagram, the evaluation is performed in the same way as for associations within the selected model.
- From the set of remaining assignments, select one to be examined in more detail. You can choose your own prioritization, e.g., based on the model type. In turn, all functions are analyzed for the assigned model.

You have the option of restricting the report output by specifying the assignment level to be analyzed in detail. For each assignment outside this range, the report output shows only the model name and type.

### OUTPUT

The output is created as text incorporating tables for the model and object information and is divided into chapters. The **REPORT1** to **REPORT4** styles are used for chapter headings. This enables you to create tables of contents in the output documents.

At the first level, the output is structured based on the models you have selected. The structural level is increased by one if the assigned model is a model with control flow. For all other assigned models, the structural level remains unchanged.

The descriptions of the functions in a model can be sorted numerically, alphabetically, by symbol type, or topologically. If you select numerical sorting, the functions in a model should be numbered. The numbering of a function uses the number specified in the **Type 1** attribute type in the **Function type** attribute type group.

The attributes, relationships, and assigned models for which the types can be determined are evaluated. Like selected models, the assigned models are evaluated up to a configurable structural level.

If you selected the topological sort criterion, the report output may contain additional information depending on the model class of the model in question.

The following table provides an overview of the model classes in question and the resulting special features of the output with topological sorting:

Model class	Special feature
<b>Directed graph with associations</b>	Beginning and end of process, as well as start and end of path.
<b>Hierarchy</b>	Chapter numbers of functions reflect the position of the object in the model hierarchy.
<b>Central object type</b>	If the model described is a function allocation diagram, the structural level in the report output is not increased. The allocations are described at the level of the object to which the model is assigned.
<b>Process selection matrix</b>	The scenarios in a process selection matrix and the processes assigned to them are evaluated in the same way as function trees, with the scenario taking on the function of the root. Main processes are not included.

## CONTEXT

Model

## OUTPUT FORMAT

- PDF
- DOC
- DOCX
- ODT
- RTF
- HTML

### 4.5.1.5.27.5 Output model information

#### USE

Outputs information about the selected models, the objects contained in the model, and the relationships of the objects in the model. Apart from name and type, the groups, additional attributes, and model graphic can also be output.

For object relationships, you can also output the name and type of the target object.

#### CONTEXT

Models

#### OUTPUT FORMAT

- RTF
- PDF
- HTML
- TXT
- DOC
- XLS

### 4.5.1.5.27.6 Output model information considering various aspects

#### USE

Outputs model information including group structure as an Excel table.

A worksheet is created for each aspect. The worksheet lists all models in which the relevant aspect occurs.

The following aspects can be output:

- Data
- IT
- Organizational elements
- Targets/KPIs
- Products/Services
- Risks
- Others

For each aspect, the related functions can be listed, as well. Individual or integrated evaluations can be carried out for function allocation diagrams (FAD). For integrated evaluations, the functions from the FAD are integrated in the model.

**CONTEXT**

Models and groups

**OUTPUT FORMAT**

- XLS
- XLSX

### **4.5.1.5.27.7      Output object information**

**USE**

Outputs the relationships and target objects at definition level for the selected objects. Optionally, you can output the groups and the attributes for both the source and target objects. The output is in table format.

**CONTEXT**

Object

**OUTPUT FORMAT**

- RTF
- PDF
- HTML
- DOC
- XLS
- DOCX
- ODT



## 4.5.1.5.27.8 Process manual (example)

### USE

This report script is a sample created in ARIS Architect in the design view. It shows how to create report scripts in ARIS Architect without having programming knowledge.

### CONTEXT

Objects

### OUTPUT FORMAT

- PDF
- DOC
- DOCX
- ODT
- RTF

## 4.5.1.5.27.9 RA(S)CI - Output organizational participations in processes

### USE

This report supplies information on which organizational elements participate in the activities (functions) of a process and in what manner. Organizational responsibilities and participations are output in a matrix.

The report returns plausible results if your processes and the organizational responsibilities for the individual activities conform with the modeling conventions required.

RA(S)CI stands for **R**esponsible, **A**ccountable, (**S**upportive), **C**onsulted, **I**nformed.

By default, this report does not return any **Supportive** information. To output this information, your script administrator must set the **g\_brASCI** variable to **true**.

The matrix shows which organizational unit participates in activities of a process and in what manner:

- **Responsible** indicates who assumes execution responsibility. It shows who is responsible for performing an activity and who actually performs it, but also who assumes the disciplinary responsibility. Execution responsibility must be assigned to at least one role, although others (see **Supportive**) can be delegated to assist in the work required.
- **Accountable** identifies the person ultimately answerable for the correct and thorough completion of a task. Thus, 'Accountable' may be the one in charge of managing the costs, i.e., the one who assumes project budget responsibility. The **decides on** and **accepts** connections are evaluated in order to mark this responsibility.
- **Supportive** relates to the person supporting the person responsible (see 'Responsible') in performing the activity.

- **Consulted** shows who has a consulting role. This organizational unit - typically a group of subject matter experts - is asked for advice prior to a final decision being made or a final action being taken.
- **Informed** specifies who must be informed. It indicates who is kept up to date on the progress or completion of a task.

In the RACI matrix, RACI data is displayed under the following conditions:

- The connections are used in the selected process model.
- The connections are used in a function allocation diagram that is assigned to a function of the selected process model.

The result of the report is an Excel workbook containing several tables. Each process model included creates a table. The first table consists of a full list of the functions and organizational units of the process models included.

Process steps	Function	Financial assistant	Financial clerk	Accountant
Vehicle billing (as-is)	Allow for discounts	R		I
Vehicle billing (as-is)	Call order data	R, A		
Vehicle billing (as-is)	Change customer	R		
Vehicle billing (as-is)	Change order data		R	
Vehicle billing (as-is)	Check customer data	R		
Vehicle billing (as-is)	Check order data	R	R	
Vehicle billing (as-is)	Enter payment type		R	
Vehicle billing (as-is)	Have customer	R		
Vehicle billing (as-is)	Print invoice		R	
Vehicle billing (as-is)	Send invoice		R	I
Vehicle billing (as-is)	Transfer data to		R	

## CONTEXT


- Individual process
- List of processes
- Process hierarchy

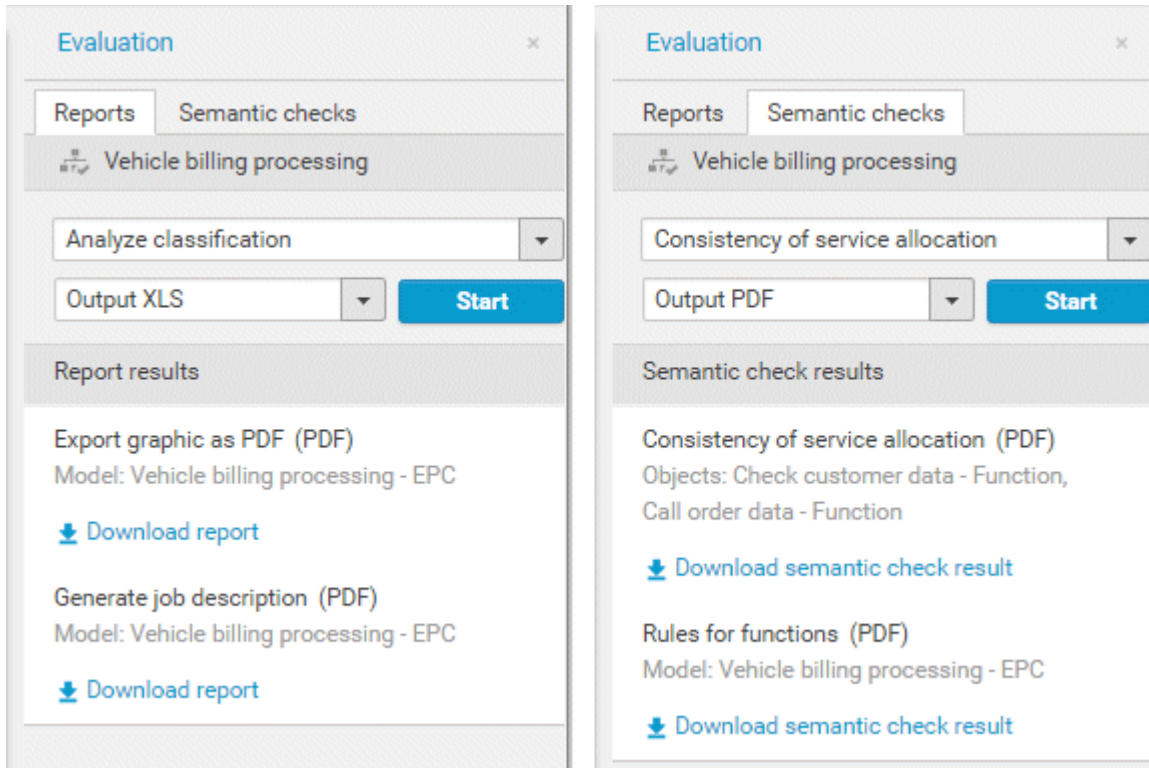
## OUTPUT FORMAT

- XLS

### 4.5.1.5.28 What output formats exist?

You can change the output format on the **Reports** or **Semantic checks** tab of the **Evaluation** bar by clicking the down arrow. The selection of output formats may be restricted based on the report or semantic check. Possible output formats are:

Click  **Evaluation** in the bar buttons to show the **Reports** and **Semantic checks** tabs and generate reports (page 797) and semantic checks evaluations. and semantic checks (page 798).



PDF  
 DOC  
 DOCX  
 ODT  
 RTF  
 HTML  
 TXT  
 XLS  
 XLSX  
 XML

## 4.5.2 Lock models and objects

You can permanently lock models and objects to prevent editing by other users, and unlock locked items again.

Locking models and objects is useful during Release Cycle Management (RCM), for example, to perform an assessment of the required items.

The versioning and permanent locking functions support key aspects of Release Cycle Management.

You can lock:

- objects
- models
- content of groups





### 4.5.2.1 Lock models

You can lock models so that they cannot be edited, for example, to perform a review. As long as the lock is enabled, only the user who applied it can edit the locked items.

#### Prerequisite

- The models must not be opened by any user, not even by yourself.
- You have the **Lock permanently** function privilege or are a system user.

#### Procedure

1. In the  repository, navigate to the database group containing the content you want to lock. When you select the group, its content is displayed.
2. If you want to lock a model, move the mouse pointer to the row with the model and click  **More**.  
If you want to lock multiple models, enable the check boxes for the relevant models and click  **More** above the item list. The menu is displayed.
3. Click  **Lock**. The lock is applied and you will be informed of the result. If it was impossible to lock one or multiple objects of a model, you will be informed of the items that were locked and those that could not be locked.

Locked models and objects can only be edited by you. The locked items remain locked until you or a system user unlock them again.





### 4.5.2.2 Lock objects

You can lock objects so that they cannot be edited, for example, to perform a review. As long as the lock is enabled, only the user who applied it can edit the locked items.

#### Prerequisite

You have the **Lock permanently** function privilege or are a system user.

#### Procedure

1. In the  repository, navigate to the database group containing the content you want to lock. When you select the group, its content is displayed.
2. If you want to lock an object, move the mouse pointer to the row with the object and click  **More**.  
If you want to lock multiple objects, enable the check boxes for the relevant objects and click  **More** above the item list. The menu is displayed.
3. Click  **Lock**. The lock is applied and you will be informed of the result. If it was impossible to lock one or multiple objects, you will be informed of the objects that were locked and those that could not be locked.

Locked objects can only be edited by you. The locked objects remain locked until you or a system user unlock them again.





### 4.5.2.3 Unlock models

You can unlock locked models in order to release them for editing for all users with the corresponding privilege.

#### Prerequisite

- The models must not be opened by any user, not even by yourself.
- You have the **Lock permanently** function privilege or are a system user.

#### Procedure

1. In the  repository, navigate to the database group containing the content you want to unlock. When you select the group, its content is displayed.
2. If you want to unlock a model, move the mouse pointer to the row with the model and click  **More**.  
If you want to unlock multiple models, enable the check boxes of the relevant models and click  **More** above the item list. The menu is displayed.
3. Click  **Unlock**. The lock is removed and you will be informed of the result. If it was impossible to unlock one or multiple objects of a model, you will be informed of the items that were unlocked and those that could not be unlocked.

The dialog closes and the models (and objects, if applicable) are unlocked.





## 4.5.2.4 Unlock objects

You can unlock locked objects in order to release them for editing for all users with the corresponding privilege.

### Prerequisite

- The models must not be opened by any user, not even by yourself.
- You have the **Lock permanently** function privilege or are a system user.

### Procedure

4. In the  repository, navigate to the database group containing the content you want to unlock. When you select the group, its content is displayed.
5. If you want to unlock an object, move the mouse pointer to the row with the object and click  **More**.  
If you want to unlock multiple objects, enable the check boxes of the relevant objects and click  **More** above the item list. The menu is displayed.
6. Click  **Unlock**. The lock is removed and you will be informed of the result. If it was impossible to unlock one or multiple objects of a model, you will be informed of the objects that were unlocked and those that could not be unlocked.

The dialog closes and the objects are unlocked.

## 4.5.3 Version models

In ARIS Connect you can version models and thus store different model states.

The different model versions can be opened for information, while the workspace model is the only one available for editing.

Within the scope of Release Cycle Management (RCM) you can identify and explain specific model versions. The change lists are used to continuously document the changes to models, which means that the documentation can be used both internally and externally.

The permanent locking and versioning functions support key aspects of Release Cycle Management.

Versioning is not performed automatically when saving; it is performed when the content is suitable for versioning. "Suitable for versioning" means that a model has reached a state that is to be archived.





### 4.5.3.1 Version models

You can version models, for example, to use them in Release Cycle Management (RCM).

#### Prerequisite

- You have opened a versionable database.
- You have the **Version** access privilege.

#### Procedure




1. In the  repository, navigate to the database group containing the models you want to version. When you select the group, its content is displayed.
2. If you want to version a model, move the mouse pointer to the row with the model and click  **More**.  
If you want to version multiple models, enable the check boxes for the relevant models and click  **More** above the item list. The menu is displayed.
3. Click  **Versioning**. The **Enter description** dialog opens.
4. Enter a change description. This description informs users of the changes made since the last version and why they were made.
5. Click **OK**.

The model/s is/are saved as a version and a change list including the description is created.

### 4.5.3.2 Show versions

You can display a list of versions of a model.

#### Procedure




1. In the  **Repository**, navigate to the database group containing the model whose versions you want to view. When you select the group, its content is displayed.
2. Move the mouse pointer to the row with the relevant model and click  **More**. The menu is displayed.
3. Click  **Show versions**. The **Version overview** dialog opens.

All versions of the model are displayed. The date it was saved, its change list numbers, and the version descriptions are shown.

### 4.5.3.3 Open version

You can open a version of a model for information purposes.

#### Procedure

1. In the  repository, navigate to the database group containing the model whose version you want to open. When you select the group, its content is displayed.
2. Move the mouse pointer to the row with the relevant model and click  **More**. The menu is displayed.
3. Click  **Show versions**. The **Version overview** dialog opens.
4. Click the name of the version you want to open.


The write-protected version of the model opens in Model Editor and you can obtain information on the model's contents. Furthermore, you can view reports on the model or selected objects (page 797).



## 4.5.4 Use dashboards

If you have an ARIS Aware (page 641) license, you can use predefined dashboards that are supplied with the software, or create your own dashboards.



### 4.5.4.1 Open a dashboard in the Repository

You can open a dashboard available in the ARIS Connect Repository () . The dashboard is displayed in view mode of the dashboard editor.

#### Prerequisite

- You have the **View** permission for the dashboard. See Manage dashboard permissions for details.
- You have the **View** permission for the assigned data feeds. See Manage data feed permissions for detail.

#### Procedure


1. Start ARIS Connect.
2. Activate the  **Repository**.
3. Activate the **Dashboards & Data feeds** tab.
4. Click  **Dashboards**.
5. To open a dashboard click the relevant dashboard name.

The dashboard selected is opened in view mode of the dashboard editor.

In edit mode you can edit the dashboard currently opened, provided you have the **Dashboard administrator** function privilege. Click the  **Edit dashboard** icon in the main menu.

### 4.5.4.2 Create a dashboard in the Repository




ARIS Connect enables you to create your own dashboards.

By default, dashboards and the relevant data feeds are provided in the ARIS Connect Repository () .

#### Prerequisite

You have the **Dashboard administrator** function privilege.

#### Procedure

1. Start ARIS Connect.
2. Activate the  **Repository**.
3. Activate the **Dashboards & Data feeds** tab.
4. Click  **Dashboards**.
5. Click  **New**.  
The dashboard editor is opened in edit mode.
6. Configure and save your dashboard by using the dashboard editor.

7. Click  **Refresh**.

Your dashboard is created and available in the **Dashboards** list in the ARIS Connect Repository (.



### 4.5.4.3 Open a data feed in the Repository

You can open a data feed available in the ARIS Connect Repository (). The data feed is opened in the data feed editor.

#### Prerequisite

You have the **Dashboard administrator** function privilege.

#### Procedure


1. Start ARIS Connect.
2. Activate the  **Repository**.
3. Activate the **Dashboards & Data feeds** tab.
4. Click  **Data feeds**.
5. To open a data feed click the relevant data feed name.

The data feed selected is opened in the data feed editor.

By using the data feed editor you can edit the data feed currently opened, provided you have the **Dashboard administrator** function privilege.

### 4.5.4.4 Create a data feed in the Repository





ARIS Connect enables you to create your own data feeds.


By default, dashboards available and the relevant data feeds are provided in the ARIS Connect Repository (.

#### Prerequisite

You have the **Dashboard administrator** function privilege.

#### Procedure

1. Start ARIS Connect.
2. Activate the  **Repository**.
3. Activate the **Dashboards & Data feeds** tab.
4. Click  **Data feeds**.
5. Click  **New**.  
The data feed editor is opened.
6. Configure and save your data feeds by using the data feed editor.
7. Click  **Refresh**.

Your data feed is created and available in the **Data feeds** list in the ARIS Connect Repository (.

## 4.5.5 Handle documents

ARIS document storage enables you to manage and temporarily or permanently save documents. Access restriction on folder level is possible in ARIS document storage.



### 4.5.5.1 Have document approved

Ask the person in charge to approve the documents you changed so that the changed document can be made available to all users.

#### Prerequisite

- You have at least the **ARIS Connect Viewer** license.
- The **Person responsible** document attribute must be specified for the relevant document with a user name that exists in user management.
- The person responsible must have the **ARIS Connect Viewer** or **ARIS Connect Designer** license.

#### Procedure

1. Click  **Repository**.
2. Click **Documents**.
3. Click the document you want to have approved.
4. Click  **Request approval**. The dialog opens.
5. Enter a comment describing what you changed.
6. Click **Send**.

The person responsible receives an e-mail with the relevant information and a link to the associated task in ARIS Process Board. If the person responsible approves the changes, the current version of the document is made available in ARIS Connect (status APPROVED). The document is visible in the portal on the **Documents** tab. If rejected, the document receives the status REJECTED.

This workflow is a part of ARIS Connect. It can be customized, if required. For example, you can change e-mail texts, add notifications, make changes to dialogs, etc. The integration of complex workflows (standard RCM, change management, etc.) requires the **ARIS Design Server** license or **ARIS Connect** Server extension pack: **Process Governance**.


## 4.5.5.2 Submit a change request for a document

You can send change requests for documents to the document manager for documents in ARIS Connect.

### Prerequisite

- You have at least the **ARIS Connect Viewer** license.
- The **Person responsible** document attribute must be specified for the relevant document with a user name that exists in user management.
- The person responsible must have the **ARIS Connect Viewer** or **ARIS Connect Designer** license.

### Procedure

1. Click a model or object.
2. Activate the **Documents** tab.
3. Select the document for which you want to submit a change request.
4. Click  **Submit change request**. The dialog opens.
5. Enter a title and a description for your request.
6. Select the priority with which the request is to be handled.

The document manager receives the change request by e-mail with a link to the relevant document and a link to edit the associated task in ARIS Process Board.

Once the document manager has processed the request, the applicant receives a message by e-mail.

If the change request is accepted, the person who is to implement the changes receives an e-mail including a link to the associated task in ARIS Process Board and the information added. After processing and approval - or rejection -, the applicant receives an e-mail including the information that the change requests have been implemented - or rejected.

This workflow is a part of ARIS Connect. It can be customized, if required. For example, you can change e-mail texts, add notifications, make changes to dialogs, etc. The integration of complex workflows (standard RCM, change management, etc.) requires the **ARIS Design Server** license or **ARIS Connect** Server extension pack: **Process Governance**.



### 4.5.5.3 Share document

You can share documents with other users.

#### Prerequisite

- You have at least the **ARIS Connect Viewer** license.
- The **Person responsible** document attribute must be specified for the relevant document with a user name that exists in user management.
- The person responsible must have the **ARIS Connect Viewer** or **ARIS Connect Designer** license.

#### Procedure

1. Click  **Repository**.
2. Click **Documents**.
3. Click the document you want to share.
4. Click  **Share document**. The dialog opens.
5. Select the user you want to share the document with.
6. Enable **Send copy to me** to receive a copy of the message, if required.
7. You can also enter a subject and a comment.
8. Click **Send**.

The selected user receives an e-mail containing the information you entered and a link to the corresponding document.

This workflow is a part of ARIS Connect. It can be customized, if required. For example, you can change e-mail texts, add notifications, make changes to dialogs, etc. The integration of complex workflows (standard RCM, change management, etc.) requires the **ARIS Design Server** license or **ARIS Connect** Server extension pack: **Process Governance**.



### 4.5.5.4 Rename document

You can rename a document.

#### Prerequisite

You have the **Document management** function privilege.

#### Procedure

1. Click  **Repository**.
2. Click **Documents**.
3. Click a folder in the navigation.
4. Click the relevant document. The **Document details** page opens.
5. Click  **Edit**.



6. Enter the new name in the **File name** box.
7. Click **Save**.

The name has been changed.

#### 4.5.5.5 Show links of a document

You can display the links of a document, for example, the ARIS models in which the document is used.

##### Procedure


1. Click  **Repository**.
2. Click **Documents**.
3. Click a folder in the navigation.
4. Click the relevant document. The **Document details** page opens.
5. Click  **Open properties**.
6. Click **Relations**.

The relations of the document are displayed.

#### 4.5.5.6 Show history of a document

You can show the version history of a document. If a document is changed and uploaded again, a version history is created automatically.

##### Procedure

1. Click  **Repository**.
2. Click **Documents**.
3. Click the relevant document. The **Document details** page opens.
4. Click **History**.

The history of the document is displayed. All changes to the document such as changes to metadata, locking, unlocking, and the uploading of a new version are displayed.

## 4.5.5.7 Handle document versions

### 4.5.5.7.1 Upload version of a document

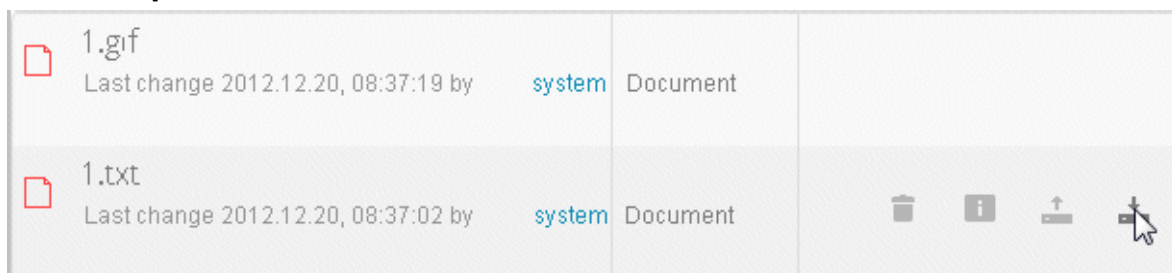
If you have edited a document after downloading it and want to update this version in ARIS document storage, you can upload the new version in your ARIS document storage.

#### Prerequisite

- You have the **Document management** function privilege.
- The document has the same name and document type as the first uploaded version of this document.

#### Procedure

1. Click **Repository**.
2. Click **Documents**.
3. Click a folder in the navigation.
4. Click **Upload new version of this document** in the document row.



The dialog for uploading a document opens.

5. Enter the relevant optional additional information, and click **OK**.

You have updated an existing document in ARIS document storage. This works for Microsoft® SharePoint 2013 as well.


## 4.5.5.7.2 Sort versions of a document

You can sort versions of a document.

### Prerequisite

You have the **Document management** function privilege.

### Procedure

1. Click  **Repository**.
2. Click **Documents**.
3. Click a folder in the navigation.
4. Click a document.
5. Click **Versions**.
6. Click a column title.


The document versions are sorted.

You can reverse the sort order by clicking the column title again.

## 4.5.5.7.3 Show version history

You can show the version history of a document. If a document is changed and uploaded again, a version history is created automatically.

### Procedure

1. Click  **Repository**.
2. Click **Documents**.
3. Click a folder in the navigation.
4. Click the relevant document. The **Document details** page opens.
5. Click **Versions**.



The different versions of the document are displayed. The change description is in the **Comment** column.



#### 4.5.5.7.4 Show version of a document

You can show the version history of a document. If a document is changed and uploaded again, a version history is created automatically.

##### Procedure



1. Click  **Repository**.
2. Click **Documents**.
3. Click the relevant document. The **Document details** page opens.
4. Click **Versions**.
5. In the row of the relevant version, click  **Open version**.
6. Select **Open with** in your browser.

The document opens if the software required for opening the document is available on your local system.

#### 4.5.5.7.5 Delete version of a document

If a document is changed and uploaded again, a version history is created automatically. You can delete all versions of a document except for the last.

##### Procedure

1. Click  **Repository**.
2. Click **Documents**.
3. Click a folder in the navigation.
4. Click the relevant document. The **Document details** page opens.
5. Click **Versions**.
6. In the row of the relevant version, click  **Delete**.
7. Click **Delete version**.
8. A confirmation prompt is displayed. Click **OK**.

You have deleted this version of the document from ARIS document storage.

## 4.5.5.8 Handle document with Document administrator privilege



### 4.5.5.8.1 Add document to ARIS document storage

You can manage documents in your ARIS document storage. You can add documents to your ARIS document storage.

#### Prerequisite

You have the **Document management** function privilege.

#### Procedure

1. Click  **Repository**.
2. Click **Documents**.
3. Click a folder in the navigation.
4. Click  **Upload**. The **Upload document** dialog opens.
5. Enter the relevant optional additional information, and click **OK**.

You have added a document to ARIS document storage.

Administrators can import all documents in a directory to ARIS document storage.


### 4.5.5.8.2 Open/Download document

You can download and open documents from ARIS document storage. If a document is highlighted as locked, only the person who locked the document can open it and upload a new version.







#### Prerequisite

You have the **Document management** function privilege.

#### Procedure

1. Click  **Repository**.
2. Click **Documents**.
3. Click a folder in the navigation.

Click  **Download** in the document row.

	1.gif Last change 2012.12.20, 08:37:19 by <span style="color: blue;">system</span> Document		
	1.txt Last change 2012.12.20, 08:37:02 by <span style="color: blue;">system</span> Document		   

4. Select **Open with** in your browser.

The document opens if the software required for opening the document is available on your local system.



### 4.5.5.8.3 Download multiple documents

You can download multiple documents.

#### Prerequisite

You have the **Document management** function privilege.

#### Procedure

1. Click  **Repository**.
2. Click **Documents**.
3. Click a folder in the navigation.
4. Enable the check boxes in front of the relevant documents.
5. Click  **Download selected documents**.

The selected documents are packed in a ZIP archive and then downloaded.

#### Tip

Enable the check box in front of the **Name** column to select all documents in a directory at once.





### 4.5.5.8.4 Select document manager

You can edit the properties of a document.

#### Prerequisite

You have the **Document management** function privilege.

#### Procedure

1. Click  **Repository**.
2. Click **Documents**.
3. Click a folder in the navigation.
4. Click the relevant document. The **Document details** page opens.
5. Click  **Open properties**.
6. Click  **Edit**.
7. Next to the **Owner** box, click  **Edit**.

The **Select owner** dialog opens. Start typing a user name. User names which contain the string you type are displayed. Select a user and click **OK**.

You can select the person responsible for the document.



### 4.5.5.8.5 Move document

You can move a document to another folder.

#### Prerequisite

You have the **Document management** function privilege.

#### Procedure

1. Click  **Repository**.
2. Click **Documents**.
3. Click a folder in the navigation.
4. Click  **Move to another folder** in the **Actions** bar of the relevant document. The **Move document** dialog opens.
5. Select the relevant folder, and click **OK**.

You have moved the document to another folder.

### 4.5.5.8.6 Move multiple documents



You can move documents to another folder.

#### Prerequisite

You have the **Document management** function privilege.

You have access to ARIS document storage and/or the relevant third-party document management system.

#### Procedure

1. Click  **Repository**.
2. Click **Documents**.
3. Click a folder in the navigation.
4. Enable the check boxes in front of the relevant documents.
5. Click  **Move to another folder**. The **Move document** dialog opens.
6. Select the relevant folder, and click **OK**.

You have moved the documents to another folder.

#### Tip

Enable the check box in front of the **Name** column to select all documents in a directory at once.



### 4.5.5.8.7 Browse ARIS document storage

You can search for a document.

#### Prerequisite

You have the **Document management** function privilege.

#### Procedure



1. Click  **Repository**.
2. Click **Documents**.
3. Depending on your installation, you can also click  **Attributes** to refine your search so that you restrict the search to metadata, to contents, or to metadata and contents. You can also specify that the term is to be searched only in the current version.
4. Enter the search term.

Possible hits are displayed as soon as you enter the first few letters.

### 4.5.5.8.8 Lock document

You can lock documents that are in your ARIS document storage to prevent them from being edited by other users.

#### Procedure

1. Click  **Repository**.
2. Click **Documents**.
3. Click a folder in the navigation.
4. Click the relevant document. The **Document details** page opens.
5. Click  **Lock document**.

The document is locked to prevent it from being edited by other users. Only you or administrators can unlock the document.


### 4.5.5.8.9 Unlock document

You can unlock documents that are locked and thus make them available to other users for editing.

#### Prerequisite

You have the **Document management** function privilege.

#### Procedure

1. Click  **Repository**.
2. Click **Documents**.
3. Click a folder in the navigation.
4. Click the relevant document. The **Document details** page opens.

5. Click  **Unlock document**.

The document can be edited by other users.



### 4.5.5.8.10 Delete document from ARIS document storage

You can remove documents from ARIS document storage.

#### Prerequisite

You have the **Document management** function privilege.

#### Procedure

1. Click  **Repository**.
2. Click **Documents**.
3. Click a folder in the navigation.
4. Click the arrow to navigate in the structure, and select the folder containing the relevant document.
5. Click  **Delete** in the **Actions** bar of the relevant document. A confirmation prompt is displayed.
6. Click **OK**.

The document is no longer displayed within ARIS document storage.

#### Tip

Enable the check box in front of the **Name** column to select all documents in a directory at once.



### 4.5.5.8.11 Delete multiple documents from ARIS document storage

You can remove multiple documents from ARIS document storage in one operation.

#### Prerequisite

You have the **Document management** function privilege.

#### Procedure

1. Click  **Repository**.
2. Click **Documents**.
3. Click a folder in the navigation.
4. Select the check boxes of the documents you want to delete.
5. In the top right screen, click  **Delete selected documents**. A confirmation prompt is displayed.
6. Click **OK**.

The selected documents are no longer displayed within ARIS document storage.

#### Tip

Enable the check box in front of the **Name** column to select all documents in a directory at once.

## 5 Glossary

### A

#### **Access privilege**

With the access privileges you can control which content is accessible to specific users or user groups. Depending on their privilege, users can see, create/edit, delete or version models and objects. You assign access privileges to users, user groups, or database groups on the properties pages. Administrators manage users, user groups, cross-database and cross-product privileges and licenses for all ARIS products in ARIS Administration.

#### **No access (----)**

Users see the group structure of the database. Group contents are not displayed.

#### **Read (r---)**

The group content is displayed. Users can open models but neither change models and objects, nor add or delete new items.

#### **Read + Write (rw--)**

The group content is displayed. Users can change models and objects, add new items, delete object occurrences from models, but not object definitions.

#### **Read + Write + Delete (rwd-)**

The group content is displayed. Users can modify models and objects and add and delete items.

#### **Read + Version (r--v)**

The group content is displayed. Users can open and version models but neither change models and objects, nor add or delete new items.

#### **Read + Write + Version (rw-v)**

The group content is displayed. Users can change models and objects, add new items, delete object occurrences from models, and version models. Object definitions cannot be deleted.

#### **Read + Write + Delete + Version (rwdv)**

The group content is displayed. Users can modify models and objects, add and delete items, and version models.

#### **Alternative language**

Database language in which database content is displayed if attribute values are not specified in the database language used. When you create a database, **English (United States)** is selected automatically. On the **Administration** tab, you can change the alternative language.

#### **ARIS Administration**

Manages users, user groups, privileges, licenses, documents, configurations, and processes for a tenant (page 874).

#### **ARIS Connect Governance Inbox**

As soon as the first change request is made, the **ARIS Connect Governance Inbox** database is automatically created in ARIS. It contains a Requirements inbox for each person responsible with

a model of the **Requirements tree** type. An object of the **Requirement** type is created for each change request. As the process continues, the realization status of the object is automatically changed depending on which status the person responsible has selected (**Approve, Reject**). This enables all change requests to be monitored in the **ARIS Connect Governance Inbox** database.

## Assignment

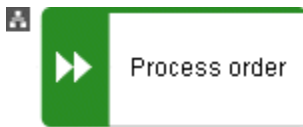
A model assigned to an object by an assignment relationship.

If a model is assigned to an object, this can be indicated by an assignment icon. An assignment enables you, e.g., to use a model to describe objects in detail and thus get from a rough plan to a detailed plan.

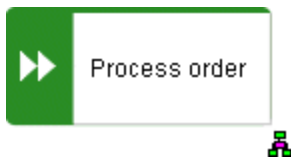
## Assignment icon

Icon that shows that one or more models are assigned to an object by an assignment relationship. You can open assigned models by double-clicking the assignment icon. The assignment icon is displayed if you have disabled the **Hide assignment icons** option.

The assignment icon may look different and may be placed at different points in the object depending on the model template you are using.



You can also assign an assignment icon of your own to a database. It is displayed to the right of the icons.



## Assignment relationship

Relationship of an object to a model assigned to it.

You can create an assignment relationship using drag and drop or using the object properties dialog. The assignment relationship is displayed at the object by an assignment icon.



## B

### BPMN

**B**usiness **P**rocess **M**odel and **N**otation (**BPMN**) is a graphical notation used to describe business processes.

## C

### Change list (versioning)

Includes selected content of a database. This may comprise individual models, multiple models without interdependencies, related models, group content, or the entire database contents. They will be versioned together and saved under one change list number. Change lists are sorted in ascending order.

A description of the change list characterizes the versioned contents. The change list description records who versioned which database content, when, and why. Opening a change list displays the database content you selected for versioning. This can be a model, or the entire database content.

### Change list number (versioning)

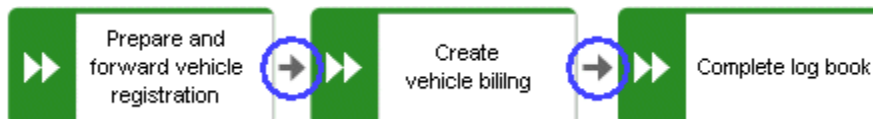
Number and description of a version of the database content. Change list numbers can be used to select particular versions for viewing. You have only read access for the content.

Change lists are sorted in ascending order. (Versioning state)

### Connection

Visible relationship between objects, which is created during modeling. It is thus a graphical representation of a relationship.

A connection is usually represented by lines in the model window. If a direction is relevant, the line is added an arrow. One example is the connection of the **is predecessor of** type between functions in models of the **EPC** (event-driven process chain) type.



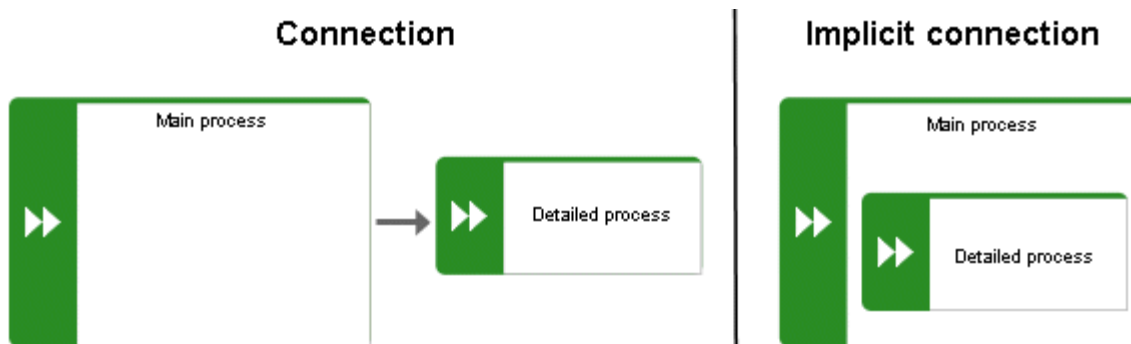
### Connection, implicit

Invisible connection.

Implicit connections are created if the **Create implicit connections for overlapping objects** option is enabled and objects are placed within objects. In the displayed dialog, you can decide whether to hide any connections and, if so, which connections to hide for these objects. The difference between implicit connections and implicit relationships is that an implicit connection can be represented by a line in the model window. This line is displayed again, for example, if you drag an object from another object down into the free area of the model window.

Example of implicit connections:

Place a function on another function in a model of the **EPC** type.



In a model of the **PCD** type, place a function in the **Function** column and an organizational unit in the **Organizational unit** column. An implicit connection of the 'carries out' type is automatically created from the organizational unit to the function.

Function	Organizational unit

This needs to be differentiated from implicit relationships (page 870).

### CRON expression

String consisting of six to seven fields that is separated by a space and represents a time.

Normally, a CRON expression is used to define routine jobs that are executed automatically at certain times by the system.

#### Fields

- Seconds, mandatory field, valid value: **0-59**, valid characters: **\*, /, , -**.
- Minutes, mandatory field, valid value: **0-59**, valid characters: **\*, /, , -**.
- Hours, mandatory field, valid value: **0-59**, valid characters: **\*, /, , -**.
- Day in month, mandatory field, valid value: **0-59**, valid characters: **\*, /, , -**.
- Month, mandatory field, valid value: **0-12** or **JAN-DEC**, valid characters: **\*, /, , -**.
- Day of the week, mandatory field, valid value: **0-7** or **SUN-SAT**, valid characters: **\*, /, , -, ?, L, C, #**.
- Year, not a mandatory field, valid value: **1970-2010**, valid characters: **\*, /, , -**.

## Current version (versioning)

Corresponds to the last versioned database content. This version includes the entire versioned content of a database. You have only read access for the content.

In principle, this is the last change list created for a database (versioning state).

## D

### Definition copy

Copy of the object definition, i.e. of the entire object, rather than just the occurrence as is the case with the occurrence copy.

The definition copy creates a new object. The occurrence, which is created when creating the definition copy, refers to the new object.

You can create copies of objects. When copying an object, you can decide whether you wish to create a new object (a definition copy) or a new object symbol for an existing object (an occurrence copy).

It makes sense to create a definition copy for an existing object if a new object is to have properties similar to those of the source object.

For example, you have modeled the object **Plant 1** and specified its properties. You now wish to create the object **Plant 2**, which has properties similar to Plant 1. In this case, it is advisable to create a definition copy of Plant 1. Object **Plant 2** is thus given all the properties of object Plant 1, but exists independently of it. You now simply need to change the properties that differ from those of object Plant 1, for example, by changing the name to **Plant 2**.

This involves significantly less work for you than creating the object from scratch and having to enter all the properties again.

Some attributes are not copied when the definition copy is created. For example, it does not make sense to copy the identifier of an object because the identifier represents a unique ID of an object.

## E

### Escalation manager

The escalation manager is the user who is notified when a human task is not completed by any executor by the due date.

## F

### Fully-qualified host name (FQHN)

The fully-qualified host name (FQHN) is the host name that is specified as the IP address of a computer or as a fully-qualified domain name (FQDN) in the following form:

**my.department.example.com.**

## Function privilege

Controls tasks that users can perform.

You can use function privileges to provide users with specific functionality and thus control their authorizations across a database in ARIS Architect. Function privileges are assigned on the properties pages of users or user groups. In ARIS Administration, administrators manage users, user groups, cross-database and cross-product privileges and licenses for all ARIS products.

## G

### Graphic objects

Graphic elements without implicit semantic meaning. They can be used, for example, to indicate model areas, to specially highlight objects that are thematically linked, or to prepare models so that they are suitable for presentation.

Graphic elements include circles, squares, and polygons.

### Grid

Placement markings in the model window in the form of dots that you can show for modeling support (page 743).

These mark the minimum spacing between one model item and another. If you move an item, it is moved by increments of one gridline accordingly.

### Grouping

Grouped model items (page 791).

They can be moved, enlarged or reduced, and deleted as if they were one item.

### GUID

**G**lobally **U**nique **I**dentifier (GUID).

The GUID is a string that renders items unique anywhere in the world.

## I

### Impersonation

Impersonation enables a user to perform actions on behalf of a different user account, e.g., backup and restore tenants. This requires the creation of a user in the user management for the infrastructure tenant, e.g., **master**. This user must be assigned all licenses and privileges that are needed for the action.

## Infrastructure tenant

Specifies the tenant with special privileges for managing other tenants, components, and the configuration in ARIS Administration.

By default, the **master** tenant is the infrastructure tenant. The system users **system** and **superuser** have administrative privileges, i.e., they can access ARIS Administration and Tenant Management.

Users with the relevant privileges can specify other infrastructure tenants in ARIS Administration.

## J

### JAAS

Java **A**uthentication and **A**uthorization **S**ervice (**JAAS**).

A Java interface that enables you to provide services for authentication and access privileges in Java programs. JAAS supports user-based authentication.

## L

### Lane model

Synonym for **Swimlane model**.

Model represented using columns/rows or a table.

Lanes are columns and/or rows. They include only specific object types and they structure the modeled information. An implicit relationship is often created between objects in a row.

A model of the **EPC (table display)** type is a lane model.

## M

### Method filter

Filter restricting the total number of ARIS Method items and thus offering only those items for modeling that are actually required.

By applying a specific method filter, only the model types included in this method filter will be offered for selection when creating new models. When modeling, all object, connection, and attribute types are available for the model type that are contained in the method filter. Thus, the content offered is exactly the content you need for performing your tasks. Method filters are an effective means of supporting uniform modeling and make it possible to provide users with only the information and methods relevant to them.

## Mini toolbar

Toolbar of objects (page 750) that are used for placing and drawing connections.

It is shown if you select an object in the model.

## Model template

Basic settings that change the appearance and attribute placements of models all at once when being assigned. This enables you to apply settings defined once to all relevant models. Templates can be assigned additively. This means that all changes from templates assigned one after the other are valid. If, for example, you assign a template that removes the fill color of objects, and then assign a template that places the name attribute above the objects, both changes take effect.

## O

## Occurrence

Graphical representation of objects, connections, and free-form texts.

It is used to represent items in a model.

With an occurrence copy several occurrences of an object can be created. These can differ within a model and/or in different models, i.e., object symbol, size, color, and attribute placements can be set individually and thus be different.

If the placed text attributes of an occurrence are changed, the changes are applied to all occurrences at which the text attribute has also been placed. For example, if the name of an object is changed, the change is displayed for all occurrences.

## Occurrence copy

Copy of the occurrence, i.e., only the graphical representation of an object, rather than the entire object as with the definition copy.

All of the occurrence copies of an object represent the underlying object definition.

You can create copies of objects. When copying an object, you can decide whether you wish to create a new object (a definition copy) or a new object symbol for an existing object (an occurrence copy).

It is helpful to create a copy of the object symbol for an existing object - i.e., only a copy of the occurrence of an object - if exactly the same object is used at various positions in the model or in different models.

For example, if, in the model you are creating, Plant 1 supplies goods at various points of the model, it is advisable to use occurrence copies at these points. These refer to the same object, and any changes to this object apply to all occurrence copies.

If you want to rename Plant 1 to **Plant A**, for example, you only need to do this for ONE of the occurrences: All other occurrences are changed to **Plant A** at the same time.

## OLE object

OLE objects are objects from various external applications, which can be used in ARIS. When you start the objects from within ARIS, they are opened in the external application.

For them to open, specific requirements must be met. For example, the security policy of the Web browser must allow opening, and saved objects must be stored in a local drive.

## OTP

**One-Time Pad (OTP).**

This one-time pad is a symmetric encryption method for transferring secret messages. This encryption method is characterized by the fact that it uses a key of the same length as the message itself.

The OTP is information-theoretically secure and has proven to be impossible to crack – provided that it is used properly.

## P

### ARIS Process Board

ARIS Process Board is used for editing tasks that are provided by Process Governance during process execution. In addition, ARIS Process Board provides an overview of a user's active tasks.

## R

### Relationship

Connection that can exist between model elements and among models.

Relationships include connections, implicit connections, implicit relationships, assignment, and variant relationships. Therefore, the term **relationship** is a superordinate term for all links that can exist between objects and models.

### Relationship, implicit

Assignment relationship, i.e., a relationship between objects for which no visible connection is drawn.

You create this relationship by assigning a model to an object.

This needs to be differentiated from implicit connections.

### Root element

Model or object that is used as the top element in a hierarchy in the portal. This element is displayed when you open the hierarchy in the portal.

## S

### SAML

**Security Assertion Markup Language (SAML).**

XML framework for exchanging authentication and authorization information. SAML provides functions to describe and transfer security-related information.

### Satellite

A satellite is an object that can be inserted in a model or diagram but is not a structurally relevant object (page 871) in the model or diagram.

For example, an object of the **Organizational unit** type is a satellite in an event-driven process chain (EPC). In a model of the **Organizational chart** type, on the other hand, an object of the **Organizational unit** type is a structurally relevant object.

### Single log-out (SLO)

The advantage of using SLO is that users need log out only once from the network.

### Single sign-on (SSO)

The advantage of using SSO is that users need to remember only one password when logging in to the network. After entering the password at their workspace, they have access to all computers, services and programs for which they have the required privileges, without having to enter the password again.

### SSL

**Secure Socket Layer (SSL).**

Security software for encrypting data that is exchanged between programs.

### Structurally relevant objects

Basic model objects.

These are objects that indicate the distinctive feature of a model. For a model of the **Organizational chart** type, the objects **Organizational unit**, **Role**, and **Person** are structurally relevant objects, for example. Using these items, you can build the typical hierarchy of an organizational chart.

The **Event** and **Function** objects are typical for the **EPC** model type and are thus structurally relevant to a business process. You can use these to establish the typical control flow. The **Organizational unit**, **Role**, and **Person** objects can also be inserted into an **EPC**. However, these objects do not constitute the distinctive feature of a business process. As structurally irrelevant objects, they act as satellites, and add more detailed information to the process model. For example, you can insert **organizational units** and link them to functions to illustrate who carries out those functions.

An object that can be inserted in a model or diagram but is not a structurally relevant object is known as a satellite (page 871).



## superuser

The user **superuser** is created automatically. By default, this user is assigned the **User management**, **License management**, and **Configuration administrator** function privileges. This user can also activate this function privilege for other users. Users of the **superuser** type do not use up a license. They manage the system administration, but cannot use ARIS products due to license restrictions. The default password is **superuser**. You should change the default password to prevent unauthorized access. The password of the superuser is very important, as it is the only user who cannot be deleted. You can change all user data except for the user name.

## User 'system'

The system user **system** assumes the administrator role of the system administrator and has all function and access privileges in all databases of a tenant. Authorized persons can use this emergency user to log in to any database, even if you are using an external system, such as LDAP, for authentication.

The name **system** cannot be changed. The **System user** check box for this user (**Function privileges** properties page in ARIS Architect) cannot be disabled either. You should immediately change the password **manager** to prevent unauthorized access.

To avoid problems, you should create additional system users. Having more than one system user can avoid problems, if, e. g., one system user has forgotten his password. If you forgot the passwords of all your system users, the full range of functions is no longer available and full data access is no longer possible.

## System users

System users are users who have all function and access privileges in a database and who have the required privileges in ARIS Administration. System users can be created by the system administrator (user **system**) or by another system user.

The system user **system** is created automatically. This user has full access to all databases of a tenant. The name **system** cannot be changed. A system user should immediately change the password **manager** in ARIS Administration to prevent unauthorized access. The function and access privileges of system users cannot be changed at database level. To withdraw privileges from a system user, another system user must disable the **System user** check box on the user's **Function privileges** properties page in ARIS Architect. As a result, the user's privileges can be changed. After this, the user has no access privileges.

The system user **system** assumes the administrator role of the system administrator and has all function and access privileges in all databases of a tenant. Authorized persons can use this emergency user to log in to any database, even if you are using an external system, such as LDAP, for authentication.

The name **system** cannot be changed. The **System user** check box for this user (**Function privileges** properties page in ARIS Architect) cannot be disabled either. You should immediately change the password **manager** to prevent unauthorized access.

To avoid problems, you should create additional system users. Having more than one system user can avoid problems, if, e. g., one system user has forgotten his password. If you forgot the

passwords of all your system users, the full range of functions is no longer available and full data access is no longer possible.

What is the user 'arisservice'?

## System database

This database manages the content of the **Configuration** and **Evaluations** folders, which is displayed on the **Administration** tab. This includes filters, templates, and font formats, but also ARIS Method and all common files, report scripts, scheduled reports, semantic checks and macros.

The system database is created automatically while the first user is logging in to ARIS. The content is available to all databases of this tenant. The ARIS Service Administrator commands **backupsystemdb**, **restoresystemdb**, and **updatesystemdb** can be used to save and restore this data centrally.

After performing an update setup, update the system configuration of the tenant (filters, templates, and scripts) based on the supplied system database (ARIS\_DVD/Content/SystemDB/\*.adb). Any content you have created is retained.

### Syntax

```
updatesystemdb <archive>
```

Restores the central system database that contains data such as filters, model templates, and scripts from a system database backup file (ADB) <archive>. You can also update the system database using the **updatesystemdb** command

After performing an update setup, update the system configuration of the tenant (filters, templates, and scripts) based on the supplied system database (ARIS\_DVD/Content/SystemDB/\*.adb). Any content you have created is retained.

### Syntax

```
updatesystemdb <archive>
```

### Syntax

```
restoresystemdb <archive>
```

Saves the central system database that contains data such as filters, model templates, and scripts in an ADB file in a directory **<archivedir>**.

### Syntax

```
backupsystemdb <archivedir> [<alternatename>]
```

## T

### Tenant

Provides a user with a particular functionality and specific data depending on their license. One ARIS Administration exists for each tenant. All ARIS clients use tenants to access database servers and thus work with a common data basis. For each tenant, there is a configuration on the **Administration** tab that defines ARIS Method and the modeling conventions. These are used by all databases on that tenant.

All tenants are managed using the Infrastructure tenant.

## TLS

Transport **L**ayer **S**ecurity (**TLS**).

TLS is known under the name of its predecessor **Secure Sockets Layer (SSL)** and is an encryption protocol for the secure transfer of data on the Internet.

## U

### UML (Unified Modeling Language)

UML is a graphical modeling language for specifying, constructing, and documenting software, parts of software, and other systems. This "unified" modeling language specifies the notations of the modeling terms and their relationships. It also defines the graphical notation, the static structures, and the dynamic processes.

## URI

String that is used to uniquely identify an abstract or physical resource.

URIs are used to describe resources (such as Web sites, other files, calls for Web services) on the Internet.

URIs can be incorporated as a string (encoded with a character set) into digital documents, particularly those in HTML format, or written by hand. A link from one Web site to another is called a hyperlink.

## URL

**U**niform **R**esource **L**ocator, a particular type of URI (**U**niform **R**esource **I**dentifier).

URLs identify a resource via the network protocol used (e.g., http or ftp) and the **location** of the resource (e.g., of a service) in a network.

The term URL is often used synonymously with URI because URLs were the first and are still the most frequently used type of URI.

## User name

Name of a user (e.g., **system**) for access to a database. The user name does not necessarily have to correspond to a person's real name.

Access to a database is possible if a user logs in to it with the combination of user name and password that has previously been stored for the database. This is the case when the system administrator or a user with the **User management** function privilege creates the new user.

## V

### Variant relationship

Reference in a variant to the GUID of its master.

When you create variants of objects or models, they receive a reference to the GUID of their master. The model or object created as a variant can be changed as required, irrespective of the master item. However, the master model/object and the model/object variant "know" each other. With variant relationships, scripts can be used, e. g. to evaluate differences between items.

### Version

A model that remains fixed and can no longer be changed in a change list.

The versioning state of the last version created is the current version.

### Version number

Number assigned to a model during versioning.

The number relates to the model whose versions are numbered in ascending order.

### Versioning state

Image of database content recorded at a certain point in time.

A versioning state can include models of different versions with different or identical version numbers that represent a specific state. While Workspace represents a state that is editable but has not yet been versioned, the versions are included in the Current version state and in the revisions associated with the Change list numbers.

## W

### Workspace (versioning)

Indicates the database content that has not yet been versioned. It can be edited. (Versioning state)

## 6 Support information

### 6.1 Support

#### ONLINE

A valid support contract allows you to access the solution database.

Click <https://empower.softwareag.com/> (<https://empower.softwareag.com/>).

If you have any questions on specific installations that you cannot perform yourself, please contact your local Software AG sales organization.

#### BY TELEPHONE

If you have a valid support contract, you can contact Global Support ARIS at:

**+800 ARISHELP**

The plus sign stands for the prefix required in a given country to dial an international connection.

Example for dialing within Germany with a direct extension line: 00 800 2747 4357

### 6.2 Disclaimer

ARIS products are intended and developed for use by persons. Automated processes, such as the generation of content and the import of objects/artifacts via interfaces, can lead to an outsized amount of data, and their execution may exceed processing capacities and physical limits. For example, processing capacities are exceeded if models and diagrams transcend the size of the modeling area or an extremely high number of processing operations is started simultaneously. Physical limits may be exceeded if the memory available is not sufficient for the execution of operations or the storage of data.

Proper operation of ARIS products requires the availability of a reliable and fast network connection. Networks with insufficient response time will reduce system performance and may cause timeouts.

If ARIS products are used in a virtual environment, sufficient resources must be available there in order to avoid the risk of overbooking.

The system was tested using scenarios that included 100,000 groups (folders), 100,000 users, and 1,000,000 modeling artifacts. It supports a modeling area of 25 square meters.

If projects or repositories are larger than the maximum size allowed, a powerful functionality is available to break them down into smaller, more manageable parts.

Some restrictions may apply when working with process administration, ARIS Administration, ARIS document storage, and ARIS Process Board, and when generating executable processes. Process Governance has been tested and approved for 1000 parallel process instances. However, the number may vary depending on process complexity, e.g., if custom reports are integrated.

ARIS document storage was tested with 40.000 documents. We recommend monitoring the number and overall size of stored documents and if needed some documents should be archived.

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