



ARIS AWARE **DASHBOARDS**

VERSION 10.0 - SERVICE RELEASE 11
December 2019

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.

Copyright © 2010 - 2019 Software AG, Darmstadt, Germany and/or Software AG USA Inc., Reston, VA, USA, and/or its subsidiaries and/or its affiliates and/or their licensors.

The name Software AG and all Software AG product names are either trademarks or registered trademarks of Software AG and/or Software AG USA Inc. and/or its subsidiaries and/or its affiliates and/or their licensors. Other company and product names mentioned herein may be trademarks of their respective owners.

Detailed information on trademarks and patents owned by Software AG and/or its subsidiaries is located at <http://softwareag.com/licenses>.

Use of this software is subject to adherence to Software AG's licensing conditions and terms. These terms are part of the product documentation, located at <http://softwareag.com/licenses> and/or in the root installation directory of the licensed product(s).

This software may include portions of third-party products. For third-party copyright notices, license terms, additional rights or restrictions, please refer to "License Texts, Copyright Notices and Disclaimers of Third Party Products". For certain specific third-party license restrictions, please refer to section E of the Legal Notices available under "License Terms and Conditions for Use of Software AG Products / Copyright and Trademark Notices of Software AG Products".

These documents are part of the product documentation, located at <http://softwareag.com/licenses> and/or in the root installation directory of the licensed product(s).

Contents

Contents.....	I
1 Text conventions.....	1
2 ARIS Aware.....	2
3 Make default dashboards available.....	3
3.1 Bulk Import using Command Line Tool.....	5
3.2 Copy documents using WebDAV.....	7
3.3 Import default dashboard content.....	8
3.4 Add an alias URL for dashboards.....	9
3.5 Check default data feeds for issues.....	10
3.6 Publish database as a process portal.....	11
3.7 Specify report parameters in ARIS Architect.....	12
3.8 Keep ARIS Aware dashboards up to date.....	13
3.9 Create user group.....	14
3.10 Using Matomo.....	15
3.10.1 Set up and configure Matomo.....	15
3.10.2 Add runnables.....	16
3.10.3 Make an ARIS remote repository available.....	19
3.10.4 How to specify ARIS Aware Matomo reports.....	20
3.10.5 Report: Matomo - Database-specific portal usage.....	21
3.10.6 Report: Matomo - Global portal usage.....	22
3.11 How to manage dashboards in ARIS Connect.....	23
3.12 What are demo dashboards?.....	23
3.13 Who can use or manage dashboards?.....	24
3.13.1 Specify dashboard privileges in the Repository.....	25
3.13.2 Specify data feed privileges.....	26
4 Legal information.....	27
4.1 Documentation scope.....	27
4.2 Data protection.....	28
4.3 Restrictions.....	28

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 as **<bold text in angle brackets>**.
- Example texts that are too long to fit on a single line, such as a long directory path, are wrapped to the next line by using ↵ 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 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. What users see and what they can do in ARIS Aware depends on their user role (page 24). ARIS Aware is equipped with predefined templates for common scenarios in the context of business process management, including:

- Center of Excellence (CoE)
- Collaboration
- Customer Experience Management (CXM)
- Business Strategy
- Enterprise Architecture Management
- Governance Risk and Compliance Management
- General Data Protection Regulation (GDPR)
- Portal usage
- Process Performance Management
- SAP Solutions data

For some dashboards the **Business Strategy**, the **Enterprise Architecture Management** or the **ARIS for SAP® Solutions** extension packs are required.

For detailed information about the default dashboards, read the ARIS Connect online help (**Use ARIS Connect > Work in the Portal > Show dashboards > Valuable information**).

Demo dashboards are available in the **United Motor Group demo database** if default dashboards were made available. Demo dashboards use static data for demonstration purposes only.

If made available, the default dashboards can also display your own data. Default dashboards can be extended and customized according to the individual requirements of a company.

This guide shows how to make default dashboards available.

If you want to create own dashboards or you want to use GRC dashboards, refer to the related guides and chapters in the online help (page 23).

3 Make default dashboards available

This procedure explains how to provide default ARIS Aware dashboards in ARIS Connect. For demonstration purposes, you can display demo dashboards. These dashboards are available in the **United Motor Group** demo database.

Prerequisites

- Your ARIS Server is enabled for ARIS Aware that is, 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 (<https://aris.softwareag.com/>), or Empower (<https://empower.softwareag.com/>)).
- A valid **ARIS Connect Server Extension Pack Aware (YCSAW)** license is available in ARIS Administration.
- You have access to the ARIS installation DVD.
- If you want use Matomo to generate dashboards based on portal usage statistics of ARIS Connect content, additional prerequisites must be met (page 15).

Procedure

1. Import the default xml documents. You can either do a bulk import using a command line tool (page 5) (for initial installation only) or copy the documents using WebDAV (page 7). These documents are used by the default data feeds. This imported static content is used to generate demo dashboards (page 23).

If you use default dashboards to display own productive data, you must update the xml documents regularly by scheduled reports (see step 6). These reports are used to create and update input data used by the default data feeds to generate standard dashboards. If xml documents were updated by reports, the demo dashboards are no longer provided properly because static data used to generate demo dashboards was overwritten.

Warning

Do not import default xml documents to an updated ARIS installation. Otherwise current data will be overwritten by static demo data and dashboards will no longer display your data.

2. Import default dashboard content (page 8).
3. Add an alias URL (page 9).
4. Check default data feeds for issues (page 10).
5. Publish the database as a process portal (page 11) using the **default** or **classic** configuration set. After the xml documents were updated by the related reports, dashboards using **Center of Excellence (CoE)** data are only available if the portal is based on the **default** configuration set or a related modification set.
6. Keep dashboard data up to date (page 13).

7. Create (page 14) a new **dashboard_viewers** user group in ARIS Administration and assign all users which should see dashboards but are no Dashboard administrators. Otherwise, you must 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.

3.1 Bulk Import using Command Line Tool

INITIAL INSTALLATION

For new installations, you can import documents using the Command line tool. These documents are used by the default data feeds to generate dashboards.

Procedure

1. Extract the **Documents** archive (ARIS installation DVD\Content\ARISAware) to a temporary target directory, for example: **C:\Dashboarding**. This archive contains all required xml documents used by the default data feeds.
2. Import the default ARIS document storage documents via bulk import:
3. Open a Command Prompt and navigate to <ARIS installation path>\server\bin\work\work_adsadmin_<s, m, or l>\tools\bin.
4. Enter this command to import all documents into ARIS document storage of each tenant you use, for example, **default**:
y-admintool.bat -t <tenant name> bulkimport -u system -p manager -path "c:\Dashboarding"
c:\Dashboarding is the extracted structure from zip archive and location on the server storage.
5. Check for the shown message of 162 imported files in 10 folders for each tenant.
6. Close the Command Prompt window.

All default xml documents are available in ARIS document storage.

You must import the default data feeds (page 8) to generate default dashboards.

UPDATE INSTALLATION

Do not use the bulk import command line tool in case of an update installation.



Upload the **Conversation_Rate.csv** document manually to the **Dashboarding** folder.

Upload the following files manually to the **Dashboarding\<database name>\CXM** folder, for example, **Dashboarding\United Motor Group\CXM**, of each database:

- CXM_SEGMENTATION_AND_ASSIGNMENTS.xml
- CXM_SEGMENTATION_AND_ASSIGNMENTS_METADATA.xml

You can find these files in the **Content\ARISAware\Documents.zip** file from the ARIS installation DVD.

Procedure

1. Open ARIS Connect.
2. Click  **Repository**.
3. Click **Documents**.
4. Click a folder in the navigation.
5. Click  **Upload**. The **Upload document** dialog opens.
6. Enter the relevant optional additional information and click **OK**.

You have added a new content for ARIS Aware.

3.2 Copy documents using WebDAV

You can import the default ARIS document storage documents using WebDAV. These documents are used by the default data feeds to generate dashboards.

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 must 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.

8. Configure ARIS document storage for WebDAV - please refer to the ARIS Connect online help, chapter **Manage ARIS Connect > Configure ARIS Connect > Set up Document storage > Configure WebDAV**.
9. Extract the **Documents** archive (ARIS installation DVD\Content\ARISAware) to a temporary target directory, for example: **C:\Dashboarding**. This archive contains all required xml documents used by the default data feeds.
10. To copy the content into ARIS document storage, a network mapping using WebDAV is required.

11. Map the network drive to **http://<Fully qualified domain name of ARIS Server:load balancer port>/documents/rest/webdav**. You do not need to specify the port if the load balancer uses port 80.

Example

http://myserver.mydomain.ext:1081>/documents/rest/webdav

12. Copy extracted folder **Dashboarding** to mapped network drive.

All default documents are available in ARIS document storage.

You must import the default data feeds (page 8) to generate default dashboards.




3.3 Import default dashboard content

The default dashboards and data feeds must be imported. These default data feeds are configured to use the corresponding XML documents. Therefore, make sure you have imported the required XML documents (see bulk import (page 5) or using WebDAV (page 7)).

Prerequisite

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

Procedure

1. Copy the **Dashboards_Feeds.zip** file from the ARIS installation DVD to a temporary target directory, for example: **C:\Dashboarding**. The **Dashboards_Feeds.zip** file contains the default dashboards, data feeds, and permissions.
2. Start ARIS Connect.
3. Click  **Repository**.
4. Activate the **Dashboards & Data feeds** tab.
5. Click  **Dashboards**.
6. Click  **Import**.
7. Select the **Dashboards_Feeds.zip** file to be imported. The file contains the default dashboards and dashboard privileges.
8. If the dashboard(s) available in the repository should be replaced, activate the **Overwrite if already exists** option.
9. If the dashboard permissions contained in the dashboard file should also be imported, activate the **Import privileges** option. This option is activated by default.
10. Click **Import**. The default dashboards, data feeds, and permissions are imported, and the new dashboards are listed on the **Dashboards** tab of the repository.

All default dashboards and data feeds are available.




3.4 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 license.
- Your ARIS Server is enabled for ARIS Aware.

Procedure

1. Start ARIS Connect.
2. Click your name or the  **User menu** icon.
3. Click **Administration**.
4. Click  **Configuration**.
5. Click **Dashboards**.
6. Click **Connections**.
7. Select **URL_ALIAS** from the list.
8. Click  **Add**. The **Add property** dialog opens.
9. Enter the alias. Enter **Feed URL** for the content that is delivered with the installation.
10. Enter the protocol (http or https) to be used for the communication.
11. Enter a fully-qualified host name (FQHN). Enter the fully-qualified host name, for example, **myserver.mydomain.ext**, where ARIS Server runs for the content that is delivered with the installation, for example, copy it from your browser's URL.
12. Enter the port. Enter the port on which ARIS Server runs for the content that is delivered with the installation.
13. 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.
14. Click  **Save**.

The alias URL is defined.

This alias URL can be used for your data feeds.

3.5 Check default data feeds for issues



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

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

Prerequisite

- You have the **Dashboard administrator** function privilege.
- You have an ARIS Connect Designer license.
- The **Feed URL** alias URL is defined (page 9).
- The default ARIS Aware dashboards are available.


Procedure

1. Start ARIS Connect.
2. Click  **Repository**.
3. Activate the **Dashboards & Data feeds** tab.
4. Click  **Data feeds**. The default data feeds are displayed.
5. Click a data feed name.

The selected data feed opens 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 9) properly.

6. Click  **Calculate preview**.

If 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.

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.

3.6 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 **<user name>**.
2. Click **Administration**. The **Configuration** tab displays the **Publish databases** area. All available databases are displayed.
3. Enable the check boxes of the databases you want to publish in the portal.
4. For versioned databases, select the relevant version.
5. Click **Apply**.

The content of the databases is published in the portal in the selected configuration or modification set. If the databases are available in the portal they cannot be deleted in ARIS.

3.7 Specify report parameters in ARIS Architect

To generate data feed input for default ARIS Aware Dashboards, the reports listed in the **Dashboard data** category (**Administration** tab >  **Evaluations** > **Reports**) are available in ARIS Architect.

For some reports, parameters can be specified. These parameterized reports are to be started frequently using report schedules (page 13). 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.





In order to use the Matomo - Global portal usage (page 22) and Matomo - Database-specific portal usage (page 21) reports, make sure to have Matomo installed and configured (page 15) and the report parameters specified accordingly (page 20).

All default ARIS Aware Dashboards work together with the **United Motor Group** demonstration ARIS database. Some reports already use default parameters, such as file names and titles of the report results, stored in ARIS document storage. You can change these names and titles in different parameter value sets. If you assign different sets to different databases, the same report can be run on different databases using different parameters.




Prerequisite

You are script administrator for this tenant.

Procedure

1. Click **ARIS** >  **Administration**.
2. Click  **Navigation** in the bar panel if the **Navigation** bar is not activated yet.
3. In the navigation tree, click the folder  **Evaluations** > **Reports**.
4. Click the **Dashboard data** category (subfolder).
5. Select the report to be made available in ARIS Connect.
6. In the **Start** tab bar, click  **Edit report parameters**. The report parameters are displayed.

On the **Output** tab, for all reports generating input for data feeds, file names, document titles and the ARIS document storage paths are specified. For other reports, such as CoE reports, various other tabs are available, for example, **General**, **Conventions** or **Thresholds**. These tabs categorize parameters defining item types to be evaluated in the defined ways.

If you modify values, the demo system will be affected. You can add  and modify duplicated  value pairs instead. Click **Assign modification**  to apply the changes when executing the report for a specific database.

7. Click **OK**.

The report evaluates data and uses the required parameters.

Users can start parameterized reports using the Report Wizard. If several parameter value sets are defined, the required set can be selected.

3.8 Keep ARIS Aware dashboards up to date





This procedure describes how to define scheduled reports in ARIS Architect.

Database information to be compiled for dashboard display is gathered by different reports. These reports generate data feed (page 10) input stored in ARIS document storage. Run these reports automatically to keep all data compiled for dashboard display up to date. In order to use the Matomo - Global portal usage (page 22) and Matomo - Database-specific portal usage (page 21) reports, make sure to have Matomo installed and configured (page 15) and the report parameters specified accordingly (page 20).

Prerequisite

- You have the **Report automation** function privilege.
- You have access to this script. Access to scripts can be restricted to certain user groups.
- You have read access to all required database groups.

Procedure

1. Click **ARIS > Administration** or **ARIS > Explorer**. The **Administration** or **Explorer** tab opens.
2. Log in to the database.
3. Click  **Navigation** in the bar panel if the **Navigation** bar is not activated yet.
4. In the Explorer tree, click the folder  **Scheduled reports**.
5. Click  **New >  Create scheduled report**. The Report Automation Wizard opens.
6. Specify the name for this schedule and enter the user's password that has **read** permission to all required database groups. Make sure that the schedule is activated.
7. Click **Next** and select the first report from the **Dashboard data** category and specify the settings as required.
8. Click **Next** and select the database to be evaluated.
9. Click **Next** and specify the schedule settings as required.
10. Click **Finish**. If the first execution is in the future, the report is automatically active and runs as soon as the defined point in time is reached.
11. Create schedules for all required reports from the **Dashboard data** category. The selection of reports depends on the data to be compiled for dashboard display.

All default data feeds used to create dashboards will be supplied with the most current data as specified.



3.9 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 names 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.

3.10 Using Matomo

If you want to generate dashboards based on portal usage statistics of ARIS Connect content, you must set up and configure the external web analytics application **Matomo** (page 15), install and configure two additional ARIS runnables (page 16), and configure the Matomo-related reports in ARIS Architect (page 20).

ARIS sends portal usage statistics data to Matomo only if users allow tracking. They must disable the **Do not track** browser option.

3.10.1 Set up and configure Matomo

If you want to generate auditing-based dashboards from ARIS Connect content, you must set up and configure the external web analytics application Matomo. Matomo is not included in this ARIS package.

The following describes the Matomo usage in a distributed environment. You can also install Matomo on an existing ARIS server. In this case, ARIS Agent is already installed, and you must only add the additional runnables to the ARIS server. Note that running ARIS and Matomo on one and the same server may result in a considerable loss of performance.

Procedure

1. Set up Matomo.

You must install a Web server, PHP, a database, and deploy the Matomo web application. For further information, refer to the Matomo installation guide.

2. During the Matomo setup, add the website:

Name =ARIS Connect, URL = http://<host>:<port>.

Alternatively, register **ARIS Connect** as a website in an existing Matomo installation.

3. After Matomo is set up, open the its configuration.

4. Enable unique visitors processing for **day**, **week**, **month**, and **range**. Day, week, and month are enabled by default.

5. Log in to Matomo.

6. Create a user with **view** permission on the **ARIS Connect** website and copy its authentication token to a text file.

You need the token to parameterize the Matomo reports (page 20) later in ARIS Architect and to configure the **eventsubscriber** runnable (page 16).

7. Install the **Custom Dimensions** Matomo plugin.

8. Activate the plugin.

9. Create a new Custom Dimension named **tenant** for visits and two Custom Dimensions named **resource-path** and **resource-type** for visit actions. Set all of them to active and copy the IDs to the text file. You need the IDs to parameterize the Matomo reports (page 20) later in ARIS Architect and to configure the **eventsubscriber** runnable (page 16).

10. Make sure that site search tracking is enabled for the **ARIS Connect** website.

11. If the ARIS Connect Portal usage is expected to be high, we recommend disabling archiving of browser-triggered Matomo reports. To prevent performance issues, you are recommended to set up auto-archiving as a background task that runs in a fixed interval. You must complete this task before running any scheduled ARIS reports that access the Matomo data.

Matomo is installed and configured to use ARIS.

Install ARIS Agent to the machine where Matomo is running and add the additional runnables (page 16).

3.10.2 Add runnables

The **eventsubscriber** runnable is an additional component to be deployed on the machine where Matomo is running. You basically need to add two additional runnables to your installation, the **eventsubscriber** runnable itself, and the **cdf** runnable (Cloud Decoupling Framework), which is required for communication between the components. CDF is a queue which can be used to decouple synchronous accesses to services.

This procedure assumes that you will add the **cdf** runnable to your ARIS installation and the **eventsubscriber** runnable to the Matomo server.

Prerequisites

- You have a running ARIS Connect server installation.
- You have access to the remote repository (page 19).
- You have access to the ARIS Agent setup (ARIS DVD)
- You have basic knowledge of how to use the ARIS Cloud Controller (ACC).

ARIS Cloud Controller can be used in multiple modes.

To start ACC under a Windows operating system click **Start > All Programs > ARIS > Administration > Start ARIS Cloud Controller**. If you have changed agent user credentials you must enter the user name and/or the password.

To start ACC under a Linux operating system, execute the **acc10.sh** shell script instead.

You always run the ACC connected to your ARIS Agent(s), either using the usual command line switches to connect to a single agent (-h, -u, -pwd) in case of a single node installation or using a node file (passed to the ACC with a -n switch) or by manually issuing **add node** commands in case of a distributed installation.

- Start ACC using the start menu shortcut that was created with setup. Otherwise make sure to always pass in the proper **generated.apptypes.cfg** file to this ACC using the **-c** command line switch. It is important that the **generated.apptypes.cfg** file is of the same version as the version of the installation to which you want to add the runnables.
- Make sure to open specific ports between the ARIS Server and the server where the **eventsubscriber** runnable will be running. These are the **zookeeper** client port and the **ActiveMQPort** of the **cdf** runnable.
- You have access to the Matomo configuration values (IDs and token) (page 15).

Procedure

1. Start ACC on your ARIS Server.

ACC is a command-line tool (see ARIS Cloud Controller (ACC) Command-Line Tool.pdf (.././documents/3 Installation/31 Initial installation/312 Server/3121 Basic (Single node)/ARIS Cloud Controller (ACC) Command-Line Tool.pdf)) for administrating and configuring an ARIS installation. It communicates with ARIS Agents on all nodes.

To start ACC under a Windows operating system click **Start > All Programs > ARIS > Administration > Start ARIS Cloud Controller**. If you have changed agent user credentials you must enter the user name and/or the password.

To start ACC under a Linux operating system, execute the **acc10.sh** shell script instead.

Enter **help** or **help <command>** to get information about the usage of the commands.

2. Enter the agent user's password.
3. Make the ARIS Agent use the remote repository for downloading the runnables from (page 19).

4. If you have installed the ARIS server using the setup, the ARIS Agent will be set to only take runnables from its local repository, to change that run the command:

```
set local.repository.only=false
```

The ARIS Agent will use the provided remote repository.

5. To add the **CDF** runnable, enter the command:

Example:

```
configure cdf_m cdf_m
```

Note that different from most runnables, the sizing **m** or **l** that you choose does not matter for the **CDF** runnable.

When adding the **CDF** runnable, you will not be able to update this installation with an update setup. As the setup will recognize that the installation has been tampered with. You can either update the installation manually (see **ARIS Update Cookbook**) or you can remove the runnable with the ACC **deconfigure** command (see ACC help), then run the update setup and add and configure the new version of the **CDF** runnable again.

ARIS Cloud Controller can be used in multiple modes.

To start ACC under a Windows operating system click **Start > All Programs > ARIS > Administration > Start ARIS Cloud Controller**. If you have changed agent user credentials you must enter the user name and/or the password.

To start ACC under a Linux operating system, execute the **acc10.sh** shell script instead.

6. Enable usage tracking in all **abs** runnable instances and in all **copernicus** runnable instances. Enter, for example:

```
reconfigure abs_m JAVA-Dcom.softwareag.copernicus.tracking.enabled=true
reconfigure copernicus_m JAVA-
Dcom.softwareag.copernicus.tracking.enabled=true
```

7. Install ARIS Agent on the machine where Matomo is installed. The ARIS Agent setup is available on DVD.

This makes ACC available on this machine.

- To add the **eventssubscriber** runnable to the Matomo server, start ACC and issue the command, for example:

```
configure eventssubscriber_m eventssubscriber_m
```

- Reconfigure **zookeeper.connect.string** to point to all machines with a ZooKeeper instance, for example:

```
reconfigure eventssubscriber_m  
zookeeper.connect.string="arisapp33srv.eur.com:14281, arisapp45srv.eur.com:14281, <host>:<port>, ..."
```

The **eventssubscriber** runnable will access Matomo via **http://localhost:80/**. If this default is not sufficient, reconfigure **piwik.server.host**, **piwik.server.port**, and **piwik.server.path** accordingly, for example:

```
reconfigure eventssubscriber_m piwik.server.host="arisapp44srv.eur.com"  
piwik.server.port=8080 piwik.server.path="piwik"
```

- Reconfigure **piwik.site.id** to the ID of the **ARIS Connect** website in Matomo (see saved parameters from Matomo installation (page 15)), for example:

```
reconfigure eventssubscriber_m piwik.site.id=1
```

- Reconfigure **piwik.visit.tenant.dimension.id**, **piwik.visit.action.resource.path.dimension.id**, and **piwik.visit.action.resource.type.dimension.id** to the IDs of the tenant, resource-path, and resource-type Custom Dimensions that were created in Matomo, for example:

```
reconfigure eventssubscriber_m piwik.visit.tenant.dimension.id=1  
piwik.visit.action.resource.path.dimension.id=2  
piwik.visit.action.resource.type.dimension.id=3
```

- Reconfigure **piwik.authentication.token** and set the authentication token of an appropriate Matomo user with view permissions for the **ARIS Connect** website (see saved parameters from Matomo installation (page 15)). It is advisable to mask the value of the property with the **?=** reconfigure operator in ACC, for example:

```
reconfigure eventssubscriber_m  
piwik.authentication.token?="f722a764407aef36bf212c6665e53500"
```

- For the changes to become effective, you need to stop and restart **eventssubscriber** runnable.

The runnables are available. Make sure that they are running.

To use the Matomo reports in ARIS, you must specify the report parameters accordingly (page 20).

3.10.3 Make an ARIS remote repository available

A remote repository is an actual server holding the runnables, but it can also be a local directory in case you don't have a server available. The remote ARIS repository is made available during the setup process. Therefore, an http server is installed temporarily.

To add runnables (page 16) to an ARIS Agent that has not installed an instance of this particular type yet, you must make the ARIS Agent use the remote repository that contains the runnables in question:

1. Start ARIS Cloud Controller (**ACC**). Under a Windows operating system, click **Start > All Programs > ARIS > Administration > Start ARIS Cloud Controller**.

To start ACC under a Linux operating system, execute the **acc.sh** shell script instead.

2. Enter the password of the ARIS Agent user.
3. Make the ARIS Agent use the remote repository to download the runnables. Enter:
set remote.repository.url = "<remoteRepositoryURL>"

When using a local repository, enter, for example:

set remote.repository.url = "file://d:/arisrepo/Setup_Data"

When using a server-based repository, enter, for example:

set remote.repository.url = http://internal.mycompany.com/arisrepo

4. If you have installed the ARIS server using the setup, the ARIS Agent will be set to only take runnables from its local repository, to change that run the command:

set local.repository.only=false

The ARIS Agent will use the provided remote repository.

FILE-BASED REPOSITORY

The simplest approach is to simply copy the contents of the folder **<DVD_Root>\Setups\Windows\Setup_Data** from the installation media to a physical drive on the machine to which you want to add the runnables, for example **d:\arisrepo\Setup_Data**. In this example, the URL to your remote repository would be **"file://d:/arisrepo/Setup_Data"**.

SERVER-BASED REMOTE REPOSITORY

If you have a distributed installation, you might want to use a remote repository, which can be any HTTP or FTP server that is reachable from the machine to which you want to add runnables. In that case, simply copy the contents of the folder **<DVD_Root>\Setups\Windows\Setup_Data** to your HTTP or FTP server into a suitable location.

If you use an HTTP server whose URL is **http://internal.mycompany.com** and you copy the files to the **arisrepo\Setup_Data** subfolder in the document root of that HTTP server, the URL to your ARIS repository will be **http://internal.mycompany.com/arisrepo/Setup_Data**.

3.10.4 How to specify ARIS Aware Matomo reports

You can configure two Matomo-related reports in ARIS Architect. To keep ARIS document storage data up to date, the reports are to be run frequently (page 13).

- The **Matomo - Global portal usage** report (page 22)
Retrieves a set of Matomo reports that collect global ARIS Connect portal usage statistics from Matomo and uploads them to ARIS document storage (Dashboarding/Matomo).
Since a context is mandatory for ARIS reports, an ARIS database must be specified as context for this report. However, the database will not be evaluated by the report and it therefore does not matter which database is selected.
- The **Matomo - Database-specific** report (page 21)
Retrieves a set of Matomo reports that collect database-specific ARIS Connect portal usage statistics from Matomo and uploads them to ARIS document storage (Dashboarding/<database name>/Matomo). Therefore, the database for which it should collect the statistics for must be available and specified as context.

The reports must be parameterized accordingly before they can be executed successfully. If the parameters are invalid, the connection to Matomo fails or the Matomo configuration (page 15) is invalid for usage with ARIS, both reports will fail silently. Errors and warnings are logged (see **jsreport.log** of the runnable executing the report, for example, **abs** or **hds**).

Specify the following parameters according to the parameters specified when Matomo was set up and configured to use ARIS (page 15).

- **Server_Host**: Hostname or IP address of the Matomo server host. The default is **localhost**.
- **Server_Port**: Port of the Matomo service. The default is **80**.
- **Server_Path**: Path of the Matomo service. The default is the root context **/**.
- **Authentication-Token**: Authentication token of an appropriate Matomo user with view permission for the **ARIS Connect** website. The default is **anonymous**. This only works if the anonymous user has view permission.
- **Site_Id**: The ID of the **ARIS Connect** website in Matomo. The default is **1**.
- **Site_Visit_Tenant_Dimension_Id**: The ID of the **tenant** Custom Dimension that was created in Matomo. The default is **1**.
- **Site_Visit_Action_Resource_Path_Dimension_Id**: The ID of the **resource-path** Custom Dimension that was created in Matomo. The default is **2**.
- **Site_Visit_Action_Resource_Type_Dimension_Id**: The ID of the **resource-type** Custom Dimension that was created in Matomo. The default is **3**.

3.10.5 Report: Matomo - Database-specific portal usage

This report creates ARIS database-specific portal usage statistics. Therefore, it accesses an external Matomo instance that contains a collection of ARIS portal events, retrieves specific Matomo reports, and adds ARIS data to them, if required.

The following Matomo reports are retrieved:

- **PageTitles** report
- **CustomDimension** report
- **SiteSearchKeywords** report

In order to use the Matomo - Global portal usage (page 22) and Matomo - Database-specific portal usage (page 21) reports, make sure to have Matomo installed and configured (page 15) and the report parameters specified accordingly (page 20).

OUTPUT

Generates several **XML** documents stored in the ARIS document storage/Dashboarding/<database name; default=United Motor Group>/**Matomo** subgroup.

The report result is used as input for the Matomo - Publications dashboard.

CONTEXT

Database

3.10.6 Report: Matomo - Global portal usage

This report creates global portal usage statistics. Therefore, it accesses an external Matomo instance that contains a collection of ARIS portal events, retrieves specific **Matomo** reports, and adds ARIS data to them, if required.

The following **Matomo** reports are retrieved:

- **VisitsSummary** report
- **BrowserVersions** report
- **BrowserEngines** report
- **Language** report
- **OsVersions** report

In order to use the Matomo - Global portal usage (page 22) and Matomo - Database-specific portal usage (page 21) reports, make sure to have Matomo installed and configured (page 15) and the report parameters specified accordingly (page 20).

The parameters must be specified according to the required Matomo settings. If the settings are specified several output files are generated.

OUTPUT

Generates several **XML** documents stored in this subfolder: ARIS document storage/Dashboarding/**Matomo**.

The report result is used as input for the Matomo - Technical KPIs dashboard.

CONTEXT

Database

Since a context is mandatory for ARIS reports, an ARIS database must be specified as context for this report. However, the database will not be evaluated by the report and it therefore does not matter which database is selected.

3.11 How to manage dashboards in ARIS Connect

In the portal for the **default** or **classic** configuration set, dashboards are available on the **Dashboard** tab. After the xml documents were updated by the related reports, dashboards using **Center of Excellence (CoE)** data are only available if the portal is based on the **default** configuration set or a related modification set. Dashboards are also available on various fact sheets and multiple model diagrams.

You can define where different dashboards are to be displayed. For detailed information see ARIS Connect online help: **Manage ARIS Connect > Administrate dashboards (ARIS Aware) > Configure dashboards.**

In addition, you can create and manage own dashboards and data feeds. For detailed information see ARIS Connect online help: **Manage ARIS Connect > Administrate dashboards (ARIS Aware) > Manage dashboards and data feeds.**

You can find information about GDPR dashboards that are contained in ARIS Accelerators for GDPR in the **ARIS Accelerators for GDPR Installation Guide** and the **ARIS Accelerators for GDPR Use Case** manual.

For detailed information about Governance, Risk and Compliance (GRC) dashboards, see: ARIS Connect online help: **Use ARIS Connect > Work in the Portal > Show dashboards > Valuable information > What default dashboards are available? > Governance, Risk and Compliance (GRC) dashboards** and refer to the **GRC dashboard - runtime installation** guide.

3.12 What are demo dashboards?

Demo dashboards are available in the **United Motor Group demo database** if default dashboards were made available. Demo dashboards use static data for demonstration purposes only. They use static data stored in initially imported default xml documents.


You can use the demo dashboards to learn about usage and functionality of related charts (see ARIS Connect online help: **Use ARIS Connect > Work in the Portal > Show dashboards > Valuable information**).

If default dashboards were made available (page 3), the demo dashboards use fictive data from related xml documents. If xml documents were updated by reports, the demo dashboards are no longer provided properly because static data used to generate demo dashboards was overwritten.

3.13 Who can use or manage dashboards?


ARIS administrators can control what ARIS users can see and do. There are several user types that can use and manage dashboards and data feeds in ARIS Connect. The following user types have different license and function privileges and individual access privileges to dashboards and data feeds.

ARIS AWARE ADMINISTRATORS

- Can see dashboards if they have access to the dashboard and the dashboard is assigned to an accessible ARIS context, such as a model or the **Home** area.
- Have access to the **Dashboards and Data feeds** tab in the  **Repository**.
- Have all administrative privileges for dashboards and data feeds, for example, to create, edit, import, export, and delete dashboards and data feeds.


ARIS Aware administrators are ARIS users that have the **ARIS Connect Viewer + ARIS Aware** or the **ARIS Connect Designer + ARIS Aware** license privileges and the **Dashboard administrator** function privilege. The **ARIS Aware** license is only available if the **ARIS Connect Server Extension pack ARIS Aware** was installed.

MY DASHBOARDS USERS

- Have access to the **Dashboards and Data feeds** tab in the  **Repository**.
- Can see all dashboards and data feeds for which they have **Read** or **Write** access.
- Can edit and delete all dashboards and data feed for which they have **Write** access.
- Can create new private dashboards and data feeds. Private means that by default only this user can access them.
- Can assign **View** privileges to other users in ARIS Connect for any dashboard (page 25) and data feed (page 26) for which they have **Write** access permission.
- Can assign **Edit** privileges in MashZone NextGen for any dashboard and data feed for which they have **Write** access permission.
- Cannot import or export dashboards or data feeds.


My Dashboards users are ARIS users that have the **ARIS Connect Designer + ARIS Aware** license privileges but must not have the **Dashboard administrator** function privilege.

ARIS AWARE VIEWERS

- Can see dashboards if they have access to the dashboard and the dashboard is assigned to an accessible ARIS context, such as a model or the **Home** area.
- Have no access to the  **Repository**.
- Cannot create, edit, or delete dashboards.

ARIS Aware viewers are ARIS users that have the **ARIS Connect Viewer + ARIS Aware** license privileges but must not have the **Dashboard administrator** function privilege.

3.13.1 Specify dashboard privileges in the Repository

You can specify dashboard view privileges in the  Repository of ARIS Connect. You can assign view privileges to individual users or to user groups. If you assign privileges to a user group, the privileges are automatically assigned to all members of that group.





All users and user groups with the **View** privilege for the dashboard are listed in the **Associated users/user groups** box. Initially, only the creator of the dashboard has the **View** privilege for the dashboard. All not yet assigned users and user groups are listed in the **Available users/users groups** box.

All users and user groups with the **View** privilege for the dashboard has automatically the **View** privilege for all associated assets of the dashboard, such as data feeds and aliases.

Prerequisite


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

Procedure

1. Start ARIS Connect.
2. Click  **Repository**.
3. Activate the **Dashboards & Data feeds** tab.
4. Click  **Dashboards**.
5. To specify dashboard privileges, move the mouse pointer over a dashboard in the dashboard list and click the  **Specify privileges** icon in the corresponding row.
6. Enter a term in the  filter box to filter the list of available users and user groups.
7. In the **Available users/users groups** box, select the users and user groups you want to assign to the dashboard and click **Add**.
8. Click **Add all** to assign all available users and user groups to the dashboard.
9. In the **Associated users/user groups** box, select the users and user groups from whom you want to revoke the **View** privilege and click **Remove**.
10. Click **Remove all** to revoke the **View** privilege of all users and user groups.
11. Click **OK**.

The selected users and user groups have now the **View** privileges for the dashboard and the associated assets.

3.13.2 Specify data feed privileges

You can specify data feed view privileges in the  Repository of ARIS Connect. You can assign view privileges to individual users or to user groups. If you assign privileges to a user group, the privileges are automatically assigned to all members of that group.





All users and user groups with the **View** privilege for the data feed are listed in the **Associated users/user groups** box. Initially, only the creator of the data feed has the **View** privilege for the dashboard. All not yet assigned users and user groups are listed in the **Available users/users groups** box.

All users and user groups with the **View** privilege for the data feed has automatically the **View** privilege for all associated assets of the data feed, such as other data feeds and aliases.

Prerequisite

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

Procedure

1. Start ARIS Connect.
2. Click  **Repository**.
3. Activate the **Dashboards & Data feeds** tab.
4. Click  **Data feeds**.
5. To specify data feed privileges, move the mouse pointer over a data feed in the data feed list and click the  **Specify privileges** icon in the corresponding row.
6. Enter a term in the  filter box to filter the list of available users and user groups.
7. In the **Available users/users groups** box, select the users and user groups you want to assign to the data feed and click **Add**.
8. Click **Add all** to assign all available users and user groups to the data feed.
9. In the **Associated users/user groups** box, select the users and user groups from whom you want to revoke the **View** privilege and click **Remove**.
10. Click **Remove all** to revoke the **View** privilege of all users and user groups.
11. Click **OK**.

The selected users and user groups have now the **View** privileges for the data feed and the associated assets.

4 Legal information

4.1 Documentation scope

The information provided describes the settings and features as they were at the time of publishing. Since documentation and software are subject to different production cycles, the description of settings and features may differ from actual settings and features. Information about discrepancies is provided in the Release Notes that accompany the product. Please read the Release Notes and take the information into account when installing, setting up, and using the product.

If you want to install technical and/or business system functions without using the consulting services provided by Software AG, you require extensive knowledge of the system to be installed, its intended purpose, the target systems, and their various dependencies. Due to the number of platforms and interdependent hardware and software configurations, we can describe only specific installations. It is not possible to document all settings and dependencies.

When you combine various technologies, please observe the manufacturers' instructions, particularly announcements concerning releases on their Internet pages. We cannot guarantee proper functioning and installation of approved third-party systems and do not support them. Always follow the instructions provided in the installation manuals of the relevant manufacturers. If you experience difficulties, please contact the relevant manufacturer.

If you need help installing third-party systems, contact your local Software AG sales organization. Please note that this type of manufacturer-specific or customer-specific customization is not covered by the standard Software AG software maintenance agreement and can be performed only on special request and agreement.

If a description refers to a specific ARIS product, the product is named. If this is not the case, names for ARIS products are used as follows:

Name	Includes
ARIS products	Refers to all products to which the license regulations of Software AG standard software apply.
ARIS Client	Refers to all programs that access shared databases by using ARIS Server.
ARIS Download Client	Refers to an ARIS Client that can be accessed using a browser.

4.2 Data protection

Software AG products provide functionality with respect to processing of personal data according to the EU General Data Protection Regulation (GDPR).

Where applicable, appropriate steps are documented in the respective administration documentation.

4.3 Restrictions

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 your product contains ARIS document storage, the following applies:

ARIS document storage was tested with 40.000 document items. This includes documents, document versions or folders. We recommend monitoring the number and overall size of stored document items and archiving some document items if needed.

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 regarding the use of process administration, ARIS Administration, ARIS document storage, and ARIS Process Board, and the generation of executable processes. Process Governance has been tested and approved for 1000 parallel process instances. However, the number may vary depending on process complexity, for example, if custom reports are integrated.

ARIS document storage was tested with 40.000 document items. This includes documents, document versions or folders. We recommend monitoring the number and overall size of stored document items and archiving some document items if needed.