ARIS

ARIS AWARE GUIDE

Version 10.0 - Service Release 1

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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 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 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), Business Usage Monitoring, Enterprise Architecture Management, Customer Experience Management (CXM), Process Performance Management, and Governance Risk and Compliance Management. These templates can be extended and customized according to the individual requirements of a company. For some dashboards the **Business Strategy** and the **Enterprise Architecture Management** extension packs are required.

This guide shows how to make default dashboards available and how to use them.

2.1 Configuration

This chapter addresses ARIS administrators. If you have installed ARIS Connect but dashboards are not yet available, follow the procedures in this chapter.

2.1.1 Make default dashboards available

This procedure explains how to restore default ARIS Aware dashboards in ARIS Connect using the **default** tenant. You can equally provide the dashboards for all other tenants in use.

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) 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** (page 13), install and configure two additional ARIS runnables (page 14) and configure the Piwik-related reports in ARIS Architect (page 19).

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 (page 4) or copy the documents using WebDAV (page 5).
2. Import default data feeds (page 6).
3. Add an alias URL (page 7).
4. Check default data feeds for issues (page 8).
5. Publish the database as a process portal (page 9) using the **default** or **classic** configuration set.
6. Keep dashboard data up to date (page 10).
7. Create (page 11) 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.

2.1.1.1 Bulk Import using Command Line Tool

You can import dashboards 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, e.g.: **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, e. g., **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 6) in order to generate default dashboards.

2.1.1.2 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. 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 registration 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 registration 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, e.g.: **C:\Dashboarding**. This archive contains all required xml documents used by the default data feeds.
10. In order 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 6) in order to generate default dashboards.

2.1.1.3 Import default data feeds

The default data feeds must be imported to the required tenants in use. These data feeds generate dashboards only if you have imported the required xml documents (see bulk import (page 4) or using WebDAV (page 5)).

Procedure

1. Copy the **Dashboards_Feeds.acb** file from the ARIS installation DVD to a temporary target directory, e.g.: **C:\Dashboarding**. The **Dashboards_Feeds.acb** file contains the default data feeds.
2. Restore all tenants from this target directory using ARIS Cloud Controller (ACC):

   Warning

   This will delete all current dashboards and feeds of the tenants. To prevent the loss of data, first backup the current tenants before proceeding to the next step.
3. Start ACC under a Windows operating system from **Start > All Programs > ARIS > Administration > ARIS 10.0 Cloud Controller**. If you have changed agent user credentials you must enter the password.

   To start ACC under a Linux operating system, execute the **acc.sh** shell script instead. ACC is available if you have copied and installed the **aris-acc-<number>** rpm file depending on the Linux operating system. Restore tenant backup via ARIS 10.0 Cloud Controller.
4. Enter the following command to restore the tenant archive in the tenants in use:

   restore tenant <tenant name> from "C:\Dashboarding\Dashboards_Feeds.acb"
5. Close the Command Prompt window.

All default data feeds data feeds are available.

2.1.1.4 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 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.

2.1.1.5 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.

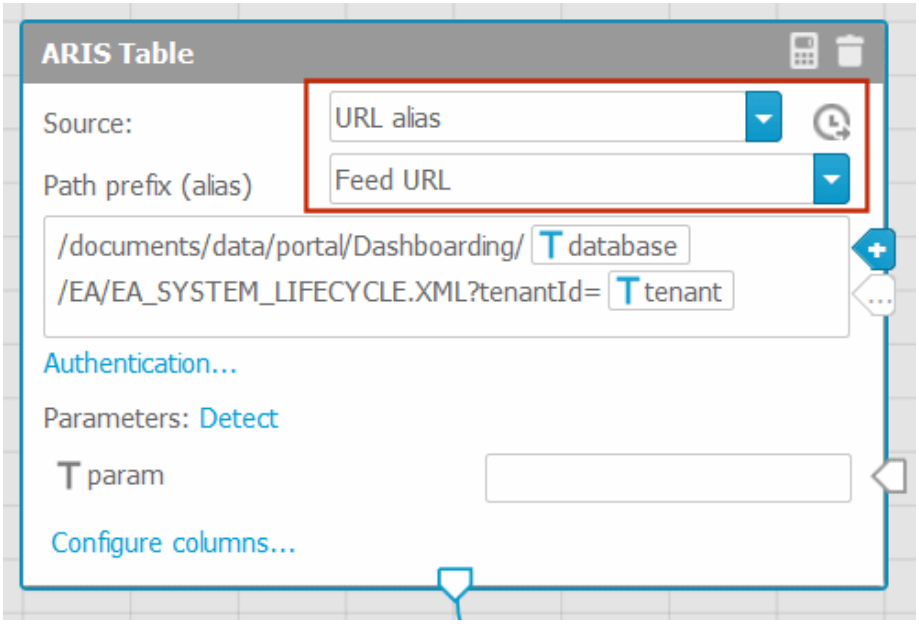
The dashboards available and the relevant data feeds are provided in the ARIS Connect **Repository** ( ).

Prerequisite

- You have the **Dashboard administrator** function privilege.
- You have an ARIS Connect Designer license.
- The **Feed URL** alias URL is defined (page 7).
- The default ARIS Aware dashboards are available (page 3).

Procedure

1. Start ARIS Connect.
2. Activate the **Repository**.
3. Activate the **Dashboard & Data feeds** tab.
4. Click **Data feeds**. The default data feeds are displayed.
5. 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 7) properly.

6. 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.

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.

2.1.1.6 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 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. As long as the databases are available in the portal they cannot be deleted in ARIS.

2.1.1.7 Keep ARIS Aware dashboards up to date

Database information to be compiled for dashboard display is gathered by different reports. These reports generate data feed (page 8) 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 Piwik - Global portal usage (page 21) report and the Piwik - Database-specific portal usage (page 20) report make sure to have Piwik installed and configured (page 13) and the report parameters specified accordingly (page 19).

Prerequisite

- You have the **Report automation** function privilege.
- 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.

2.1.1.8 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.
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.

2.1.1.9 Using Piwik

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** (page 13), install and configure two additional ARIS runnables (page 14) and configure the Piwik-related reports in ARIS Architect (page 19).

2.1.1.9.1 Install and configure Piwik

If you would like to generate auditing based dashboards from ARIS Connect content you must install and configure the external web analytics application Piwik. Piwik is not included in this ARIS package.

In the following the Piwik usage in an distributed environment is described. You can also install Piwik on an existing ARIS server. In this case you only have to add the additional runnables on the ARIS server, but not to install ARIS Agent. Please note that running ARIS and Piwik on one and the same server may result in a considerable loss of performance.

1. Start the Piwik installation.
2. In the installation wizard add the website:

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

   Alternatively, register **ARIS Connect** as a website in an existing Piwik installation.
3. When installed, open the Piwik configuration.
4. Enable unique visitors processing for **day**, **week**, **month**, and **range**. Day, week, and month are enabled by default.
5. Login into Piwik.
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 Piwik reports (page 19) later in ARIS Architect and to configure the **eventsubscriber** runnable (page 14).
7. Install the **Custom Dimensions** Piwik plugin.
8. Activate the plugin.
9. Create tree new Custom Dimensions named **tenant**, **resource-path**, **resource-type** for visits, set them to active, and copy the IDs to the text file. You need the IDs to parameterize the Piwik reports (page 19) later in ARIS Architect and to configure the **eventsubscriber** runnable (page 14).
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, it is a good idea to disable Piwik report archiving being triggered via browser. To prevent performance issues you are recommended to set up auto-archiving as a background task that runs in a fixed interval. This task should be completed before any scheduled ARIS reports that access the Piwik data will run.

Piwik is installed and configured for the use of ARIS.

Install ARIS Agent to the machine where Piwik is running and add the additional runnables (page 14).

2.1.1.9.2 Add runnables

The **eventsubscriber** runnable is an additional component to be deployed on the machine where Piwik 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 Piwik server.

Prerequisites

- You have a running ARIS Connect server installation.
- You have access to the remote repository (page 17).
- You have access to the ARIS Agent setup (e.g. ARIS DVD)
- You have basic knowledge of how to use the ARIS Cloud Controller (ACC).

  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.
- You have access to the Piwik configuration values (IDs and token) (page 13).

Procedure

1. Start ACC on your ARIS Server.

   ACC is a command-line tool 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 password.

   To start ACC under a Linux operating system, execute the **acc10.sh** shell script instead. ACC is available if you have copied and installed the **aris10-acc-<number>** rpm file depending on the Linux operating system.

   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 17).
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:

   e.g.

   ```
   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.
6. Enable usage tracking in all **abs** runnable instances and in all **copernicus** runnable instances. Enter, e.g.:

   ```
   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 Piwik is installed. The ARIS Agent setup is available on DVD.

   This makes ACC available on this machine.
8. To add the **eventsubscriber** runnable to the Piwik server, start ACC and issue the command:

   e.g.:

   ```
   configure eventsubscriber_m eventsubscriber_m
   ```

9. Reconfigure **zookeeper.connect.string** to point to all machines with a ZooKeeper instance, e.g.:

   ```
   reconfigure eventsubscriber_m
   zookeeper.connect.string="arisapp33srv.eur.com:14281,arisapp45srv.eur.com:14
   281,<host>:<port>, ..."
   ```

   The **eventsubscriber** runnable will access Piwik via **http://localhost:80/**. If this default is not sufficient, reconfigure **piwik.server.host**, **piwik.server.port**, and **piwik.server.path** accordingly, e.g.:

   ```
   reconfigure eventsubscriber_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 Piwik (see saved parameters from Piwik installation (page 13)), e.g.:

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

10. 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 Piwik, e.g.:

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

11. Reconfigure **piwik.authentication.token** and set the authentication token of an appropriate Piwik user with view permission for the **ARIS Connect** website (see saved parameters from Piwik installation (page 13)). It is advisable to mask the value of the property with the **?=** reconfigure operator in ACC, e.g.:

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

12. For the changes to become effective, you need to stop and restart **eventsubscriber** runnable.

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

In order to use the Piwik reports in ARIS report parameters are to be specified accordingly (page 19).

2.1.1.9.3 How to 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. During the setup process the remote ARIS repository is made available. Therefore an http server is installed temporarily.

To add runnables (page 14) into an ARIS Agent that has not yet installed an instance of this particular type, you need to make the ARIS Agent use the remote repository again that contains the runnables in question.

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.

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

2.1.1.9.4 Specify report parameters in ARIS Architect

For the use of ARIS Aware Dashboards the reports listed in the **Dashboard data** category (**Administration** tab > **Evaluations** > **Reports**) are available in ARIS Architect. In order to use the Piwik - Global portal usage (page 21) report and the Piwik - Database-specific portal usage (page 20) report make sure to have Piwik installed and configured (page 13) and the report parameters specified accordingly (page 19).

As an example using the **United Motor Group** demonstration ARIS database, some reports already use default parameters, e. g. file names and titles of the report results, stored in ARIS document storage.

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, e.g., CoE reports different tabs are available, e. g., **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 defined data as required.

2.1.1.9.5 How to specify ARIS Aware Piwik reports

There are two Piwik-related reports to be configured in ARIS Architect. In order to keep ARIS document storage data up to date, the reports are to be run frequently (page 10).

- The **Piwik - Global portal usage** report (page 21)

  Retrieves a set of Piwik reports that collect global ARIS Connect portal usage statistics from Piwik and uploads them to ARIS document storage (Dashboarding/Piwik).

  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.

- The **Piwik - Database specific** report (page 20)

  Retrieves a set of Piwik reports that collect database specific ARIS Connect portal usage statistics from Piwik and uploads them to ARIS document storage (Dashboarding/<database name>/Piwik). 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 Piwik fails or the Piwik configuration (page 13) is invalid to be used together with ARIS, both reports will fail silently. Errors and warnings are logged (see **jsreport.log** of the runnable executing the report, e.g., **abs** or **hds**).

The following parameters are to be specified according to the parameters entered when Piwik was set up and configured for the use of ARIS (page 13).

- **Server_Host**

  Hostname or IP address of the Piwik server host. The default is **localhost**.

- **Server_Port**

  Port of the Piwik service. The default is **80**.

- **Server_Path**

  Path of the Piwik service. The default is the root context **/**.

- **Authentication_Token**

  Authentication token of an appropriate Piwik 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 Piwik. The default is **1**.

- **Site_Visit_Tenant_Dimension_Id**

  The ID of the **tenant** Custom Dimension that was created in Piwik. The default is **1**.

- **Site_Visit_Action_Resource_Path_Dimension_Id**

  The ID of the **resource-path** Custom Dimension that was created in Piwik. The default is **2**.

- **Site_Visit_Action_Resource_Type_Dimension_Id**

  The ID of the **resource-type** Custom Dimension that was created in Piwik. The default is **3**.

2.1.1.9.6 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 21) report and the Piwik - Database-specific portal usage (page 20) report make sure to have Piwik installed and configured (page 13) and the report parameters specified accordingly (page 19).

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 dashboard.

CONTEXT

Database

2.1.1.9.7 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 21) report and the Piwik - Database-specific portal usage (page 20) report make sure to have Piwik installed and configured (page 13) and the report parameters specified accordingly (page 19).

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 the ARIS document storage/Dashboarding/**Piwik** subfolder.

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

2.1.1.9.8 How to create Piwik based dashboards and data feeds

The ARIS Connect data feed editor enables you to create and configure the data feeds required for your Piwik based dashboards. A data feed defined extracts data from a data source selected, transforms the data, and delivers them to your dashboard. By default, the Piwik data sources available are created by running the **Piwik - Database-specific portal usage** report (page 20) and the **Piwik - Global portal usage** report (page 21). The report output files are stored in ARIS document storage (Dashboarding/<database name>/Piwik and Dashboarding/Piwik) as XML files.

In the data feed editor you can configure a Piwik based data feed by inserting an **XML** data source operator into the data feed with a Piwik XML file selected as data source.

In the ARIS Connect online help, you find detailed information on how to create and configure dashboards and data feeds. See **Manage ARIS Connect** > **Administrate dashboards (ARIS Aware)**.

2.1.2 How to manage dashboards in ARIS Connect

In the portal for the **default** or **classic** configuration set, dashboards are available on the **Dashboard** tab as well as on different factsheets model diagram tabs.

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 dashboards and data feeds. For detailed information see ARIS Connect online help: **Manage ARIS Connect > Administrate dashboards (ARIS Aware) > Manage dashboards and data feeds**.

3 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.