

ARIS PROCESS PERFORMANCE MANAGER

PPM PROCESS  
CONFORMANCE CHECKING  
WITH ARIS

VERSION 10.5.4  
MAY 2022

This document applies to ARIS Process Performance Manager Version 10.5.4 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 © 2000 - 2022 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 <https://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 <https://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 <https://softwareag.com/licenses> and/or in the root installation directory of the licensed product(s).

## Contents

1	General .....	1
2	Process conformance.....	2
2.1	Conformance rate.....	3
2.2	Conformance issues.....	3
2.3	Process conformance analysis.....	5
3	How to perform a process conformance analysis.....	6
3.1	Prepare the process data in ARIS Architect .....	6
3.1.1	Import measured functions and create mapping .....	8
3.1.2	Refine mapping .....	10
3.1.3	Transfer flat process model and mapping .....	12
3.1.4	How are BPMN models handled? .....	14
3.2	Analyze your processes conformance in PPM.....	15
3.2.1	Analyze the conformance rate .....	15
3.2.2	Analyze the conformance issue.....	18
3.3	Create dashboards in ARIS Aware .....	18
3.3.1	Example .....	21
4	Appendix.....	22
4.1	Configure the process conformance check .....	22
4.1.1	Extend the PPM client configuration .....	22
4.1.1.1	Import the transport container.....	22
4.1.1.2	Adapt the PPM client customizing.....	24
4.1.1.3	Activate the conformance measures and dimensions .....	25
4.1.2	Calculate conformance level and root causes.....	25
4.1.3	Conformance check in process hierarchies .....	26
4.1.4	Conformance check in scaled systems.....	26
4.2	ARIS report descriptions .....	26
4.2.1	Report: Select PPM process type and create function mapping.....	26
4.2.2	Report: Transfer process model and mapping information to PPM.....	27
4.2.3	Specify report parameters for function import and function mapping .....	28
4.2.4	Specify report parameters for the transfer of process model and function mapping .....	29
4.3	Conformance check for Process Mining analyses .....	30
4.4	Conformance check widget .....	31
4.4.1	Assign data columns to Conformance check widget.....	33
4.4.1.1	Column matching .....	34
4.4.1.2	Settings.....	35
5	Legal information.....	39
5.1	Documentation scope.....	39
5.2	Support .....	39

# 1 General

This manual describes how to perform a process conformance check (page 2) and which prerequisites must be fulfilled. The document is addressed to the business user and the system administrator of the required ARIS products. The business user can perform a performance check based on the system customized by the system administrator.

## BUSINESS USER

The business user learns how to

- prepare the required process data in ARIS Architect.
- transfer the process data to PPM.
- perform a conformance analysis in PPM.
- create a dashboard in ARIS Aware to visualize the process data.

The business user should be familiar with the general handling of the described products (ARIS Architect, PPM, and ARIS Aware).

For information on the general use of these products, refer to the online help and technical documentation.

## SYSTEM ADMINISTRATOR

The system administrator learns how to

- import the required configuration elements into PPM.
- customize the PPM client configuration.
- calculate and import the process data into PPM.

The system administrator should be familiar with the handling of PPM Customizing Toolkit.

For information on using the CTK, refer to the technical documentation of PPM.

## EXAMPLES

The examples described in this manual are based on the financial service processes to improve the car loan banking at United Motor Group (UMG). The ARIS models used in the examples are located in the United Motor Group demo database. The corresponding examples in PPM are available in the PPM demo client umg\_en.

## 2 Process conformance

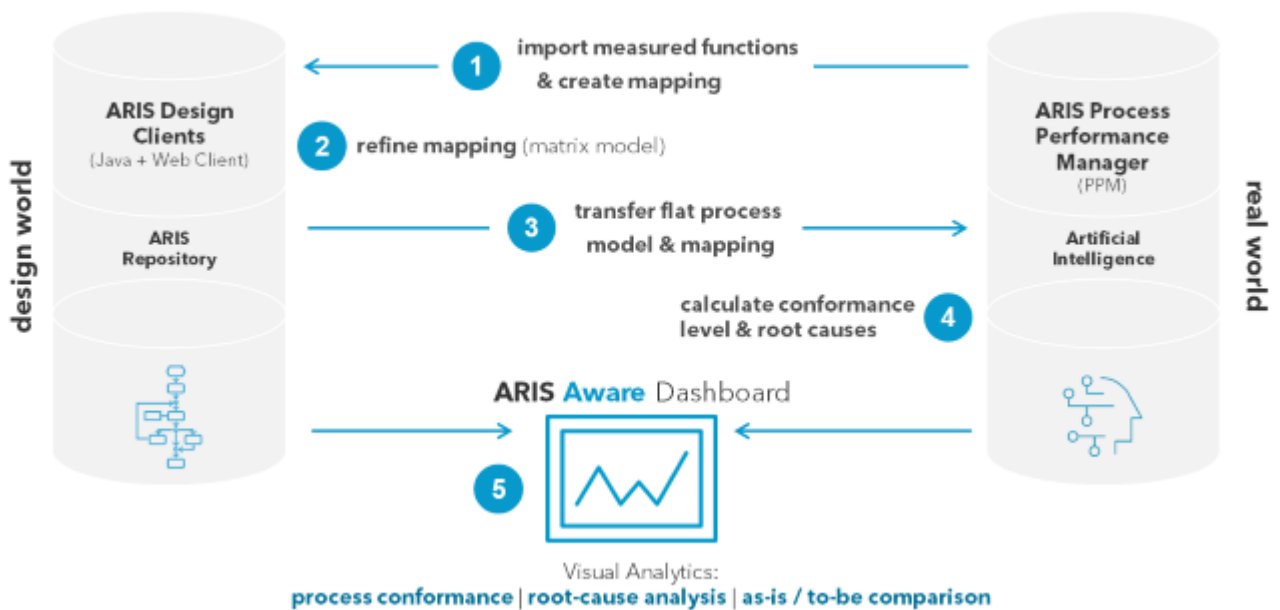
A process conformance check analyzes whether an executed and measured process instance of a production system is compliant with a designed process model in ARIS.

ARIS is the main repository for modeling target (to-be) processes. These reference processes are modeled using the EPC or BPMN (page 14) model types. PPM is used to discover and analyze executed processes. PPM does this by extracting data from source systems. These source systems may provide function names that differ from the modeled function names in ARIS. In order to monitor the process flow in PPM in line with the reference process, you must map the modeled ARIS function names to the PPM function names and import the target process together with this mapping into PPM.

The ARIS reference model and a mapping of ARIS GUIDs to function names are extracted from ARIS and transferred to PPM. The combination of process type, function mapping, target process, and (optional) ARIS function exclusion list is described here as the process conformance configuration. The process conformance configuration is transferred to PPM and is used to calculate the new conformance measures and dimensions in PPM. The process conformance is calculated when the process data is imported into PPM.

The following figure shows the individual steps for performing a process conformance analysis (page 6).

### PROCESS TO INTEGRATE ARIS & PPM



## 2.1 Conformance rate

The output of the conformance calculation is the Conformance rate measure aggregated by average, with the two possible values 0.0 (non-conformant) and 1.0 (conformant). The conformance rate, for example, could have a value of 0,87, that is 87%, of all process instances available are conformant to the reference process.

The ARIS reference model establishes the order in which functions should be executed. This order is not a simple linear sequence, however, because the model may contain splitting AND rules. The branches emanating from such rules may be executed in parallel, so that there are many execution sequences that are compatible with such a rule. Joining rules, on the other hand, are synchronization points: They indicate that execution of all functions in the incoming branches must have terminated before any function that follows a joining rule is executed.

The conformance check converts a process instance into a linear sequence of functions. It then determines whether each step in the functional sequence corresponds to the order of these functions in the reference model. If one or more PPM functions are excluded from the conformance check (page 10), the corresponding functions are also removed from the sequence of functions of the process instance. If all functions have been excluded, PPM cannot calculate the conformance rate. Furthermore, in order to be considered conformant, the last step must terminate in one of the end events modeled for the process. This implies that unfinished processes (that is, processes that require further imports to be completed) are most likely classified as non-conformant.

The conformance check distinguishes between different reasons for the non-conformance of process instances (page 3).

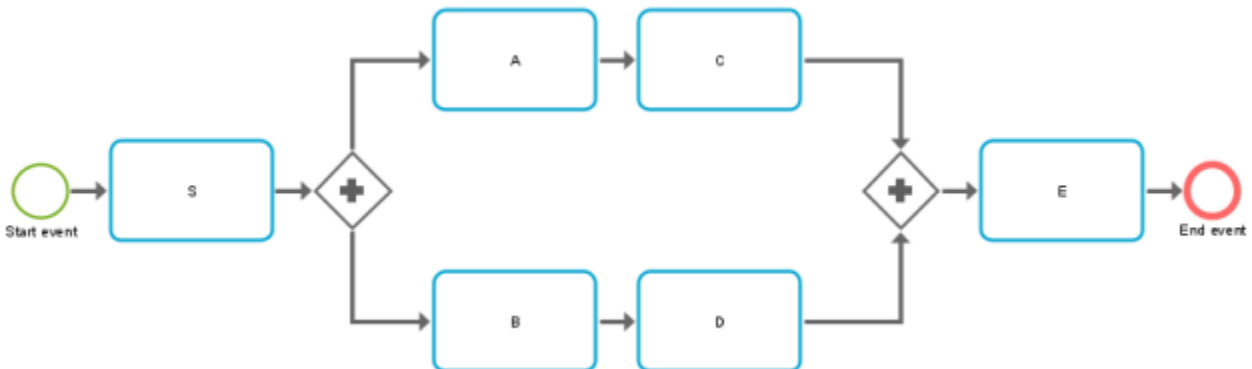
## 2.2 Conformance issues

The conformance check identifies possible reasons why a sequence of functions does not conform to a reference model. The reasons for the non-conformance are called conformance issues.

There are four different types of conformance issues.

Example

The following figure shows a schematic EPC with the start function S and the end function E. The EPC is the reference model for the examples of the non-compliance types described below.



- Non-compliance type I

A particular pair of functions occurs in the wrong order. This issue is signaled by the dimension value ShouldNotFollow.

Example

The process step A should not follow process step C.

non-conformant function order: S,C,A,B,D,E

- Non-compliance type II

The process instance starts with a wrong function. This issue is signaled by the dimension value ShouldNotStartProcess.

Example

Process instance should not start with process step E.

non-conformant function order: E,A,C,B,D,E

- Non-compliance type III

All steps of the process instance are terminated, but no end event is reached. This indicates an incomplete process.

This issue is signaled by the dimension value ShouldNotEndProcess.

Example

The process instance should not end with process step D.

non-conformant function order: S,A,C,B,D

- Non-compliance type IV

A function in the process instance is not part of the function mapping and therefore cannot match any model function.

This issue is signaled by the dimension value ShouldNotOccur.

### Example

Process type Z occurs. If Z is not part of the model, any process that includes Z falls into this category.

non-conformant function order: S,A,C,B,Z,D,E

Note that due to the algorithmic complexity, the conformance issues are reported on a best-guess basis. This means, there may be more reasons for non-conformance than PPM reports.

The conformance issue types are contained in the Conformance issue type dimension. The conformance issue itself is characterized by the type and one or two PPM function names contained in the dimensions Non-conforming function and Preceding function (only for ShouldNotFollow).

### Example

In the example below, there are two conformance issues. Both are caused by the Authorize payment function that follows the Create contract function in the process instance, although the process was modeled in a different order.

Non-conforming function	Conformance issue type	Preceding function	Number of conformance issues
Authorize payment	ShouldNotFollow	Create contract	2

## 2.3 Process conformance analysis

You can analyze your process conformance using PPM (page 15). The new Conformance rate (page 3) measure and Conformance issue type (page 3) dimension are provided in PPM like all other criteria and are handled analogously. For example, you can use filters to see the conformance of just a particular subset of process instances.

Alternatively or in addition to PPM you can use ARIS Aware in ARIS Connect to visualize your analysis (page 18). ARIS Aware provides the dedicated PPM data source operator with which you can access the process data of PPM and use it to analyze the conformance of your processes. The new conformance measure and dimension can be queried as usual from PPM and included in your dashboards.



### 3 How to perform a process conformance analysis

Before you can perform a process conformance analysis, you must prepare the process data in ARIS Architect and import it into PPM. The imported data is also available for later analyses. You do not have to perform this procedure for every conformance check, but only if you change the process data that you want to analyze, for example, if you want to analyze the Billing processes instead of the Financial service processes.

Usually the PPM import process is performed automatically and your process data is available in PPM with the next scheduled data import. Otherwise, you must import the process data manually into PPM (page 25). Please ask your PPM system administrator to import PPM data.

#### Prerequisites

- You have installed PPM version 10.2 or higher and the required PPM client server is running.
- You have installed ARIS Architect version 10.0 service release 2 or higher.
- The relevant PPM client is configured for the process conformance check. (page 22)

#### Procedure

1. Prepare the process data in ARIS Architect.  
For details, see chapter Prepare the process data in ARIS Architect (page 6).
2. Perform your process conformance analyses in PPM based on the new Conformance rate measure and Conformance issue relation.  
For details, see chapters Analyze your processes for conformance in PPM (page 15).
3. Create a dashboard to visualize your process data in ARIS Aware.  
For details, see Create dashboards in ARIS Aware (page 18).

You have performed a process conformance analysis.

### 3.1 Prepare the process data in ARIS Architect

ARIS Architect provides two reports to create the models and the data required for the process conformance configuration.

- Select PPM process type and create function mapping (page 26) report  
The report creates the ARIS reference model and a mapping of ARIS functions to PPM function names.
- Transfer process model and mapping information to PPM (page 27) report  
The report exports the corresponding configurations and imports them into PPM.

The reports are located in the Administration > Evaluations > Reports > PPM Integration report category.

The following data are required to run the ARIS reports.

- The user name and corresponding password of a PPM user.
- The base URL of the PPM server.

Examples

http://ppmhost.eur.ad.sag:4080

https://ppmhost.eur.ad.sag:4443

http://ppmhost.eur.ad.sag or https://ppmhost.eur.ad.sag if default ports are being used.

- The PPM client name, for example, umg\_en or my\_PPM\_client.

Prerequisites

- To run the ARIS reports, you must have the following privileges in PPM:
  - the ARIS data transfer function privilege.
  - the process access privilege for the appropriate process type or process type group.
  - the PPM user privilege in the ARIS Administration.
- The PPM user must be activated in PPM. For details, see chapter Privilege management in the PPM online help.

Procedure

1. Run the Select PPM process type and create function mapping report on a process of type EPC or BPMN (page 14).

Using this report, you select a PPM process type, process type group, or the process tree root. The report reads the function names related to the process type selected and imports the data. In an ARIS matrix model, the imported PPM functions are automatically mapped to the ARIS functions of the same name. The generated data is stored in a group specified when the report is executed.

For details, see chapter Import measured functions and create mapping (page 8).

2. Check the function mapping generated by the report and adapt it manually, if applicable. For details, see chapter Refine mapping (page 10).

3. Run the Transfer process model and mapping information to PPM report on the process created by the first report.

The report transfers the process model (to-be) belonging to a PPM process type (as-is), a corresponding mapping of ARIS objects to PPM objects to PPM, and optional a list of ARIS functions (page 10) that are to be ignored in the conformance check. This transfer is the basis for checking whether all process instances performed in conformance with the originally planned process.

For details, see chapter Transfer flat process model and mapping (page 12).

The process data is prepared for import in PPM.

### 3.1.1 Import measured functions and create mapping

You can use the Select PPM process type and create function mapping (page 26) report to import functions created in ARIS Process Performance Manager (PPM) into ARIS Architect. You can select a process model of type EPC or BPMN (page 14) and map its functions to the functions used in a PPM analysis. The function mapping generated is displayed in an ARIS matrix model and manually editable. In PPM the functions are registered at process types and process type groups. You can use the report to select the corresponding process type or process type group whose functions you want to import.

You can set the parameters used in the Select PPM process type and create function mapping (page 26) report. The parameters are preset with default values used in PPM. If you want to change the preset parameters, you can create further parameter value pairs. For details, see Specify report parameters (page 28).

#### Example

Within the United Motor Group demo scenario, you can select the Car loan application (to-be) EPC as a reference model for your process conformance analysis. The EPC is located in the following group.

United Motor Group -> Main group -> 2.Processes -> 2.1 Processes architecture -> Core processes -> Financial services (to-be) -> Car loan application (to-be)

- Please ask your PPM system administrator for the required user name and password and the PPM server URL. The demo client name is umg\_en.
- In the Select PPM process type dialog, select Processes -> Financial services -> Car Loan Application. The functions of these processes are imported in ARIS and mapped to the functions of the selected EPC.

#### Procedure

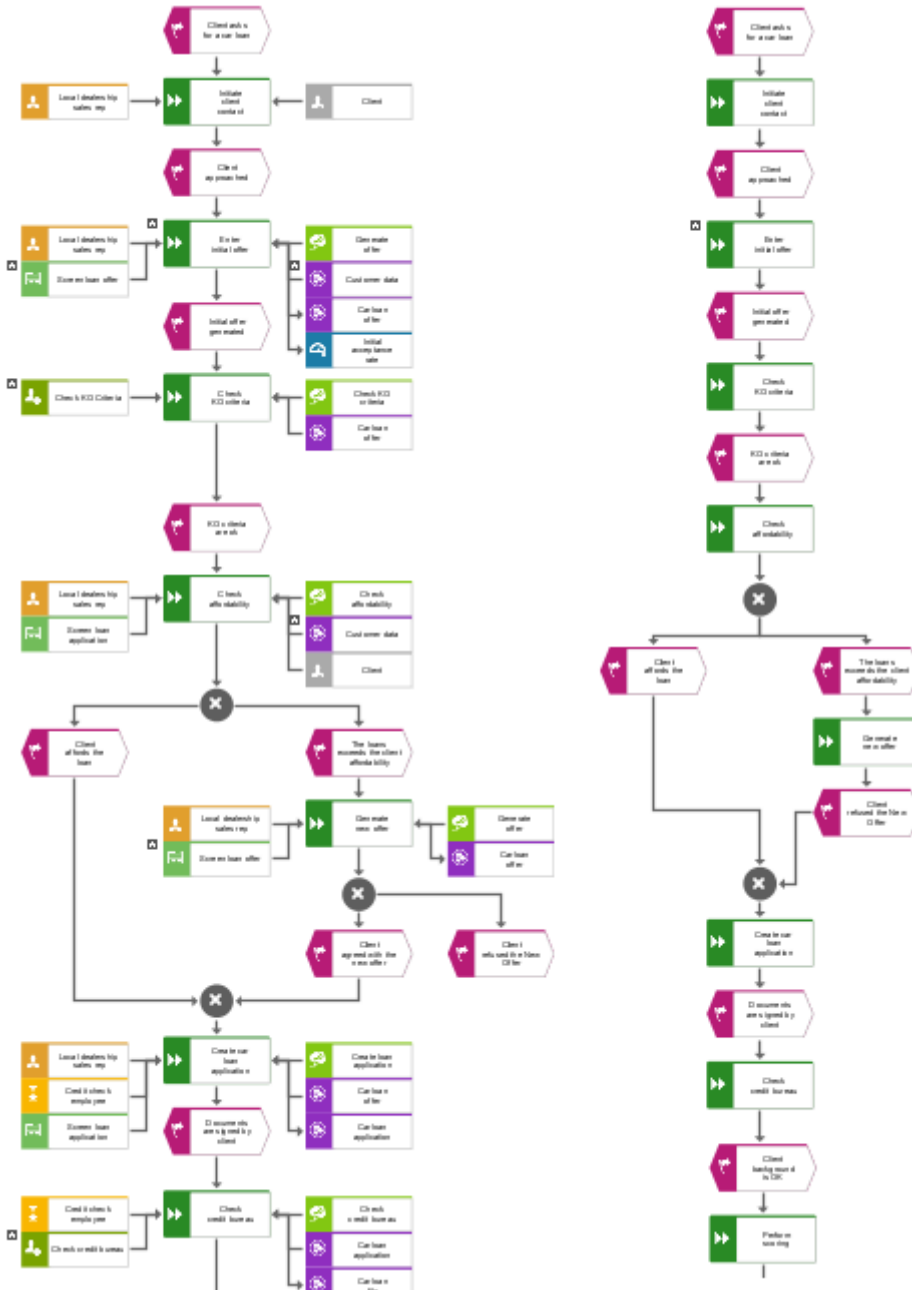
1. Specify the parameters to be used (page 28) in the Select PPM process type and create function mapping report, if required.
2. Run the Select PPM process type and create function mapping report with a process selected. Processes connected via a process interface are taken into account.
  - a. Log in to an ARIS model database.
  - b. Select one or more processes in the database.
  - c. Right-click the processes selected.

- d. Click Evaluate > Start report. The Report Wizard opens.
- e. Select PPM integration in the Category menu.
- f. Select the Select PPM process type and create function mapping report.
- g. Click Next.
- h. Specify the output settings. Select the parameter value pairs to run the report with the parameters required.
- i. Click Finish. The Select PPM process type and create function mapping report opens.
- j. Specify your settings. The Report Wizard guides you through the relevant steps.
- k. Click Finish.
- l. Select a process type or process type group to import the corresponding functions.
- m. Click OK.
- n. If you run the report on a BPMN collaboration diagram (page 14), you must select the process for your conformance check in a separate dialog. Select a pool that contains a process or a process that is outside the pools. The dialog is displayed, if the BPMN collaboration diagram contains more than one process.
- o. Click OK.
- p. Select a group to save the matrix model as well as the EPC, or BPMN model to be created.
- q. Click OK.

The Select PPM process type and create function mapping report is run. The matrix model and a created EPC or BPMN model are stored in the output folder selected.

### Example

The following figure shows the original EPC (on the left-hand side) and the EPC generated by the report. The generated EPC contains only the functions (and related events) of the selected ARIS model and the functions available in PPM. All non-required objects, such as attributes or organizational units, are removed.



### 3.1.2 Refine mapping

You can manually edit the matrix model generated by the ARIS report, for example, by adding new functions, or by excluding some functions from the mapping.

The matrix model allows you to exclude ARIS and PPM functions that are not to be considered in the conformance check, for example, if ARIS functions are not known to PPM. That means that the target (to-be) process contains functions that must be performed manually and that cannot be processed in PPM. By excluding some functions from the conformance check, you can ensure that the conformance check does not classify too many processes as "not compliant". PPM functions that were excluded from the function mapping are also removed from the PPM process instances and are not taken into account when calculating the conformance rate (page 3).

For detailed information on using the matrix editor, see the ARIS Architect online help.

#### Procedure

1. Open the ARIS matrix model generated by the ARIS report, for example the created Car loan application (to-be) matrix model in the My conformance check group.
2. Specify your settings.  
In the Ignore row, you can exclude functions from the conformance check.
3. Save your settings.

Your settings are applied.

Example

The following example shows the mapping of the functions of the same name that are imported from PPM and the functions available in the selected Car loan application (to-be) EPC in ARIS.

	Ignore	Check affordability	Check KO criteria	Inform client about rejection	Generate new offer	Request supplementary documents	Enter initial offer	Perform scoring	Disburse the loan in car dealer's account	Check completeness of loan file	Initiate client contact	Analyse the file for decision	Check credit bureau
Ignore	Ignore												
Analyse the file for decision												Analyse the file for decision	
Check KO criteria			Check KO criteria										
Check affordability		Check affordability											
Check completeness of loan										Check completeness of loan file			
Create car loan application													
Disburse the loan to dealer									Disburse the loan in car dealer's account				
Enter initial offer							Enter initial offer						
Generate new offer					Generate new offer								
Inform client about approval													
Inform client about rejection				Inform client about rejection									
Perform scoring								Perform scoring					
Request missing documents						Request supplementary documents							
Request supplementary docs													

### 3.1.3 Transfer flat process model and mapping

You can use the Transfer process model and mapping information to PPM report to transfer both the process model (to-be) belonging to a PPM process type (as-is) and a corresponding mapping of ARIS objects to PPM objects to PPM. This transfer is the basis for

checking whether all process instances were run in conformance with the originally planned process.

The report is run on the EPC or BPMN (page 14) model created by the Select PPM process type and create function mapping (page 26) report.

You can set the parameters used in the Transfer process model and mapping information to PPM report. The parameters are preset with default values used in PPM. If you want to change the preset parameters, you can create further parameter value pairs. For details, see Specify report parameters (page 29).

#### Example

Select the created EPC in the specified My conformance check group and run this report. Use the same PPM user credentials and PPM settings as for the Select PPM process type and create the function mapping (page 8) report.

#### Procedure

1. Specify the parameters to be used (page 29) in the Transfer process model and mapping information to PPM report, if required.
2. Run the Transfer process model and mapping information to PPM report on the EPC or BPMN (page 14) model created by the Select PPM process type and create function mapping (page 26) report.
  - a. Log in to an ARIS model database.
  - b. Open the folder containing the model you want to transfer to PPM.
  - c. Select the model.
  - d. Right-click the model selected.
  - e. Click Evaluate > Start report. The Report Wizard opens.
  - f. Select PPM integration in the Category menu.
  - g. Select the Transfer process model and mapping information to PPM report.
  - h. Click Next.
  - i. Specify the output settings. Select the parameter value pairs to run the report with the parameters required.
  - j. Click Finish. The Select PPM process type and create function mapping report opens.
  - k. Specify your settings. The Report Wizard guides you through the relevant steps.
  - l. Click Finish.

The Transfer process model and mapping information to PPM report is run. The data of the model selected and the corresponding function mapping information are transferred to the PPM server.



Once the data has been transferred, you can perform the conformance check and import the result into the PPM Client using CTK (page 25).

### 3.1.4 How are BPMN models handled?

The handling of BPMN models is largely the same as that of processes of the EPC type. (page 6) One exception is the BPMN collaboration diagram. If the selected BPMN collaboration diagram contains more than one process, you must also select the process for which you want to perform the conformance check. The BPMN collaboration diagram can contain multiple processes, each located in separate pools or outside the pools.

The selected BPMN model is automatically converted into a BPMN model that complies with EPC conventions. For example, pools used in BPMN collaboration diagrams are removed by ARIS. The created BPMN model in ARIS contains an EPC-compliant process, but still uses BPMN symbols. When importing into PPM, the BPMN symbols are replaced, and additionally multiple incoming connections of functions, and gateways are replaced by rules.

PPM converts the following gateways in BPMN models into rules for EPCs:

- Exclusive-Gateway => XOR
- Parallel Gateway => AND
- Inclusive Gateway => OR

The following gateways in BPMN models are not converted. Models that use these rules are rejected in PPM.

- Complex gateway
- Event-based gateway
- Gateway
- Instantiating event-based Gateway
- Instantiating parallel event-based Gateway

For more information on the BPMN and EPC model types, see the ARIS online help.

### SUPPORTED BPMN MODEL TYPES

You can use the following BPMN model types for a process conformance check.

- BPMN collaboration diagram (BPMN 2.0)
- BPMN process diagram (BPMN 2.0)
- Enterprise BPMN collaboration diagram
- Enterprise BPMN process diagram

## 3.2 Analyze your processes conformance in PPM

You can analyze your process conformance using the Conformance rate (page 3) measure and the Conformance issue type (page 3) dimension that are provided in PPM. In addition, you can configure a relation that shows possible reasons for the failure of a conformance check, for example, to see how often a certain function has been responsible for making a process non-conformant, and in what way.

For general information on how to perform an analysis, see the PPM online help.

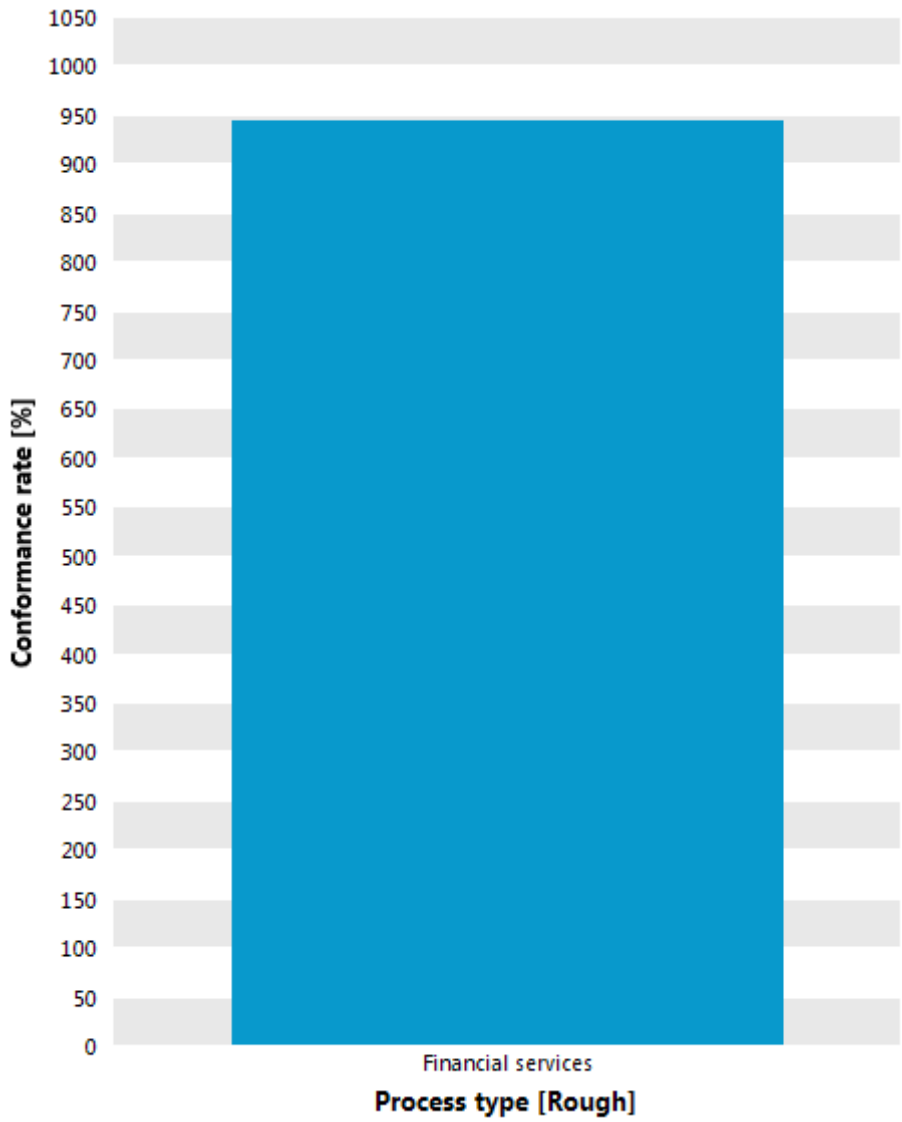
### 3.2.1 Analyze the conformance rate

You can analyze the conformance rate in the Process analysis realm of PPM.

Procedure

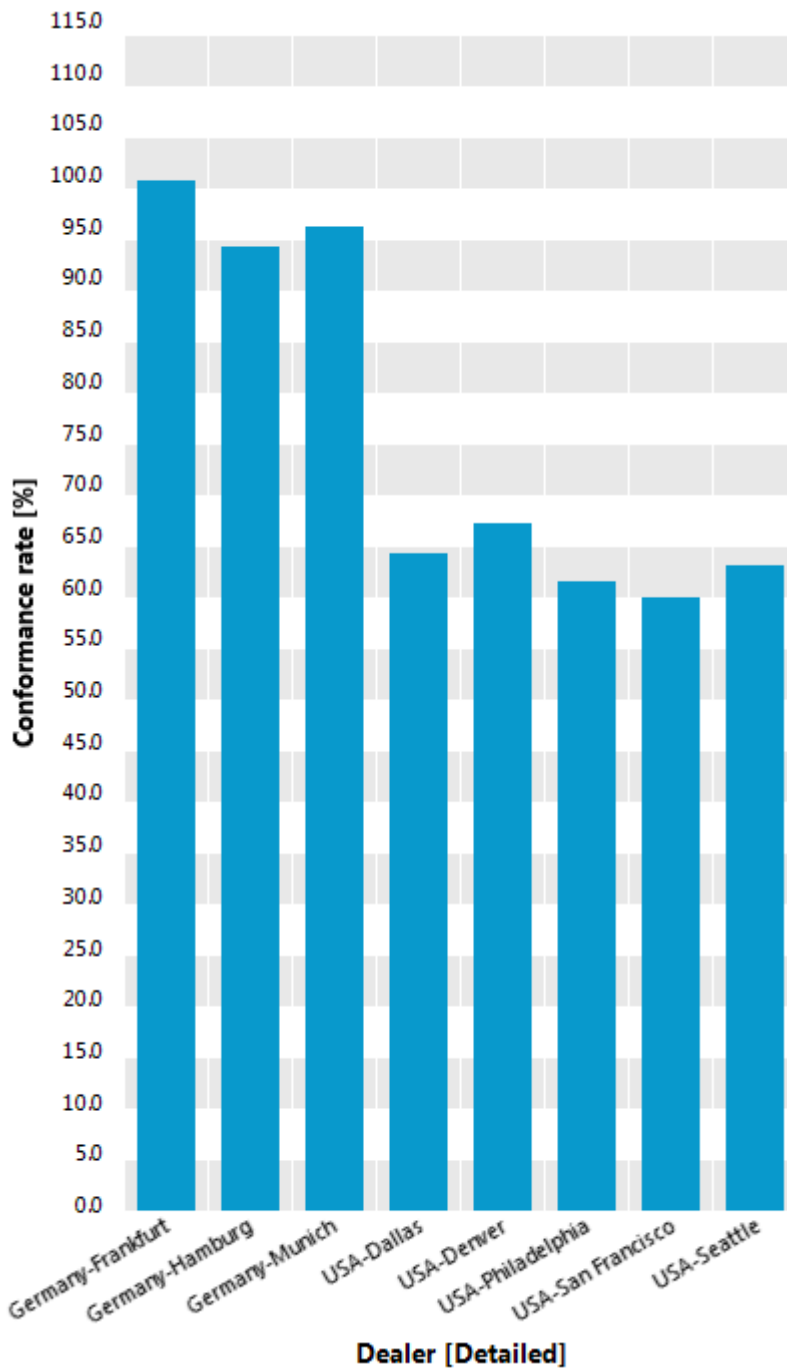
1. Open the client for whose processes you want to analyze the conformance in PPM, for example, the umg\_en demo client.
2. Open the Process analysis realm.  
The realm opens on a separate tab and a predefined analysis is displayed.
3. Select the process type for your conformance check in the Processes bar, for example, Financial services.  
By default, the Processes root in the process tree is preselected and set as filter in the analysis. This means that all available processes are analyzed. When you make your selection, the filter is limited, for example, to the Financial services process type.
4. Drag the Conformance rate measure in the Measures bar and drop it on the Number of processes measure preset in analysis. The preset measure is replaced by the measure you selected.

The chart shows a conformance rate of around 95% for the financial service processes. This means that the real processes do not fully match your reference process.



5. Replace the Process type dimension with the Dealer dimension to see more details.

The chart now shows the conformance rate for each of your dealers. You can see that the process conformance of some dealers is very different.



6. Create a favorite for your current analysis.

You can use the favorite to create a dashboard in ARIS Aware.




You have performed a basic conformance analysis in PPM.

PPM provides the options of refining the analysis down to the individual process instances in order to uncover the weak points in your processes.

### 3.2.2 Analyze the conformance issue

You can analyze the conformance issue types in the Interaction analysis realm of PPM.

Procedure

1. Open the client for whose processes you want to analyze the conformance in PPM, for example, the umg\_en demo client.
2. Open the Interaction analysis realm.  
The realm opens on a separate tab.
3. Click  New.
4. Double-click  Table.
5. Double-click  List table. The corresponding wizard opens that helps you define your analysis.
6. Select the Financial services process type in the process tree.  
Only the process instances of this process type are analyzed.
7. Click Next.
8. Select the Number of conformance issues measure.
9. Click Next.
10. Select the Preceding function and Non-conforming function dimensions and the Conformance issue type relation.
11. Click Finish.  
The wizard closes and a table with the conformance issues is displayed.
12. Create a favorite for your current analysis.

You can use the favorite to create a dashboard in ARIS Aware.

The table lists the Conformance issue type, the Non-conforming function, the Preceding function, and the Number of conformance issues for each issue type.

### 3.3 Create dashboards in ARIS Aware

Alternatively or in addition to PPM, you can use ARIS Aware in ARIS Connect to visualize your analysis (page 18). ARIS Aware provides the dedicated PPM data source operator with which you can access the process data of PPM and use it to analyze the conformance of your processes. The new conformance measure and dimension can be queried as usual from PPM and included in your dashboards.

In addition, ARIS Aware provides the Conformance check widget (page 31). The Conformance check widget displays the result of a process conformance check performed in PPM.

For detail information on how to create a dashboard and how to use the Conformance check widget, see the ARIS Connect online help.



### Example

This example shows you how to display the conformance issues analyzed in PPM using a Grid widget in a dashboard.

### Prerequisites

- You have configured the process conformance check for PPM. (page 22)
- You have created a PPM connection for the relevant PPM client (for example, umg\_en) in ARIS Connect.

### Procedure

1. Open the dashboard editor in ARIS Connect.
2. Insert a  Grid widget into the dashboard.
3. Click  Assign data in the properties dialog of the widget to edit the data source assignment.

The Assign data (1/2) dialog opens.

4. Insert the PPM data source.
5. Select the PPM alias created for your PPM client in the PPM connection drop-down menu.
6. Enter the favorite name of your conformance issue analysis (page 18) in the Favorite input box, for example, \my Conformance issue analysis.

Alternatively, click Extract from URL, enter the favorite URL, and click Extract. The required data is automatically extracted from the inserted favorite URL.

### Tip

You can copy the required favorite URL to the clipboard in PPM and paste it in the Favorite URL input box. In PPM, right-click the relevant favorite and select Use in dashboard to copy the URL to the clipboard.

7. Click Next.

The Assign data (2/2) dialog opens.

8. Insert the data columns you want to display in the grid into the Grid columns box using drag and drop, for example, the Conformance issue type, Non-conforming function, Preceding function, and Number of conformance issues data columns.
9. Click OK.

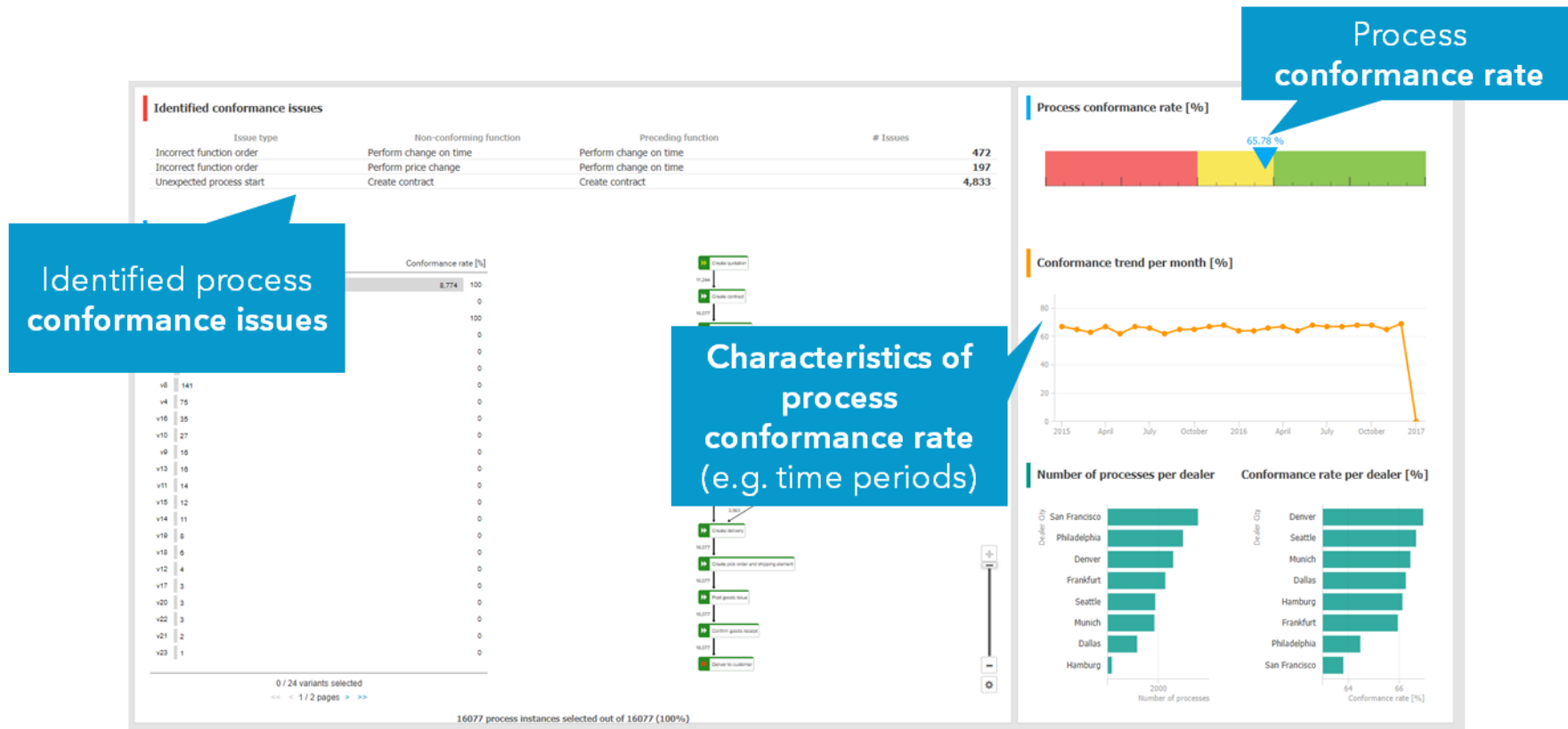
The Grid widget shows the table with the selected criteria and the corresponding values.

You can add more widgets to the dashboards in the same way, for example, a Process Variants or a Function Flow diagram widget.



### 3.3.1 Example

The following figure show a dashboard created in ARIS Aware. The dashboard contains several widgets that display the process conformance data retrieved from PPM.





## 4 Appendix

### 4.1 Configure the process conformance check

You can customize the PPM client configuration for your process conformance check using the CTK. You need to configure the client customizing only once. The customized client configuration is then available for all subsequent conformance analyses.

#### Prerequisite

You have the required administration privileges in PPM.

#### Procedure

1. In CTK, extend the PPM customizing to enable the required conformance check configuration in PPM. You must import the transport container to extend the PPM client configuration. The transport container provides all relevant configuration elements for your conformance check, such as attributes, measures and dimensions.

For details, see chapter [Extend the PPM client configuration](#) (page 22).

2. After the process data are transferred from ARIS Architect to PPM, you must calculate the measures and dimensions and import the process data into PPM. Import all new process instances that are to be included in the conformance check into PPM.

For details, see chapter [Calculate and import the process data into PPM](#) (page 25).

The process data are available in PPM for to perform a process conformance check (page 6).

#### 4.1.1 Extend the PPM client configuration

A transport container provided by PPM contains all relevant PPM configuration settings and elements, such as dimensions, measures, and relations required for the process conformance check.

Before you can customize your PPM client, you must import the provided transport container into the PPM client.

##### 4.1.1.1 Import the transport container

You can use the PPM Customizing Toolkit to import the transport container into the PPM client. The required elements are added to the client configuration. This includes special conformance dimensions, measures, and attributes.

The `conformanceCheck.zip` transport file is located in the PPM installation directory.

<PPM



installation>\ppm\server\bin\work\data\_ppm\samples\conformance\transport\_container\

If there is a naming conflict between keywords in the transport package and existing customizing, you must manually adjust the names using CTK. Note that keywords from the transport container should not be changed unless there is a conflict. The natural language names presented in graphical user interfaces can be changed.

#### Prerequisites

- English must be available as user interface language in the PPM client.  
The names and descriptions are only available in English. If English is not available as an interface language of the target PPM client, it must be added before the transport file can be imported. You can configure the interface languages in CTK, Attributes module > Interface Languages.
- Interaction analysis must be enabled in the PPM client.  
If the client in CTK is not yet configured to use interaction analysis, you must enable it before importing the transport container. You can enable the interaction analysis in CTK, Client module > Properties. Click Edit client properties and enable the Use Interaction analysis option.

#### Procedure

1. Open CTK.
2. Open the relevant PPM client configuration on the Client overview page.
3. Click  Edit in the main menu.
4. Click  Import data from a transport container in the main menu. The corresponding wizard opens.
5. Make your settings.  
Select the elements to be imported and specify whether the existing configuration is to be overwritten or supplemented. You also have the option to check the changed configuration for any errors and inconsistencies. For details, see the CTK embedded help.

The elements of the selected transport container are imported into the PPM client configuration.

The new or changed configuration is saved only after the import has been completed.

#### Tip

Details on the import process are available in the integrated help of the corresponding wizard. For more information on how to use CTK, see the documentation PPM Customizing Toolkit.

### 4.1.1.2 Adapt the PPM client customizing

The transport container provides the Conformance rate (page 3) measure calculated on the process instances and the Conformance issue (page 3) relation that contains detailed information about why process instances were considered conformant or non-conformant.

The Conformance issue relation consists of a source object dimension Preceding function, a target object dimension Non-conforming function, a single-level text dimension Conformance issue type containing a keyword for the issue type, and a measure Number of conformance issues that counts issues within a process instance.

In PPM, measures and dimensions are assigned to process types or process type groups. The transport container does not contain any assignments of measures or dimensions to the process tree. You can manually assign them in the Processes/Process tree module in CTK. You must assign them as follows to ensure that process analysis and relation analysis perform correctly.

- Conformance rate as a process analysis measure
- Number of conformance issues as a relation analysis measure
- Conformance issue type as a relation analysis dimension

The dimensions Non-conforming function and Preceding function are automatically assigned as relation analysis dimensions. You must not assign them as process analysis dimensions.

You can assign these elements specifically to those process tree nodes for which you intend to import reference models. This requires customizing updates whenever a model is to be used for a new process type.

Alternatively, you can assign them to a higher level in the process tree or even to the root. This makes the measures and dimensions visible even when no model is available (but generates additional warnings during import).

If you only need the conformance rate without detailed information about the reasons for non-conformance, you can also use the process level elements from the transport container and leave out the relation elements.

Process instances for which the conformance rate cannot be calculated do not provide any value for the Conformance rate measure. The measure is based on an attribute calculated by a new attribute calculator class. For details on the calculation class and the new relation calculator, see the documentation PPM Customizing.

For more information on how to customize your PPM client, see the documentation PPM Customizing.

### 4.1.1.3 Activate the conformance measures and dimensions

You must activate the imported and customized measures and dimensions using CTK.

Procedure

1. Open the relevant PPM client configuration on the Client overview page.
2. Open the Programs component in the Client Module.
3. Run the Activate configuration of 'Process' module group program.

The conformance measures and dimensions are activated for your PPM client.

### 4.1.2 Calculate conformance level and root causes

The actual conformance check is done when the process data is imported into PPM. After the ARIS process data was transferred from ARIS to PPM, every new or modified process instance of an eligible process type (that is, a process type for which an appropriate conformance measure is defined) is automatically calculated for conformance during PPM import.

Usually the PPM import process is performed automatically and the process data is available in PPM with the next scheduled data import. Otherwise, you must import the process data manually into PPM.

Procedure

1. Open CTK.
2. Open the relevant PPM client configuration on the Client overview page.
3. Open the Programs component in the Client Module.
4. Run the Merge processes and calculate measures program.

The values of the new conformance measures and dimensions are calculated and are now available in PPM for your process analyses (page 15).

The Merge processes and calculate measures program runs the `runppmimport` command line tool. It recalculates the existing instances with reference to the new imported ARIS model. You can run the command line tool manually, with the option `-keyindicator new` (or `-typifier new`, which implies `-keyindicator new`).

For details on how to run PPM import, see the `runppmimport` command line tool in the documentation PPM Operations Guide.

### 4.1.3 Conformance check in process hierarchies

Subprocess assignments to functions in the reference model are not imported into PPM. The conformance calculation calculates the conformance rate for a single process instance without evaluating referenced processes.

### 4.1.4 Conformance check in scaled systems

In a scaled system, you cannot import reference models onto the master server. The reference models must be imported onto every sub-server individually. Therefore, the HTTP/S port of the sub-servers must be reachable from the ARIS client, on which the import of a reference model is executed.

The master server does not check if the conformance configurations on the sub-servers are the same.

## 4.2 ARIS report descriptions

### 4.2.1 Report: Select PPM process type and create function mapping

#### USE

The report is run on a selected EPC or BPMN (page 14) model in ARIS. The report selects a PPM process type or process type group to import the connected functions. Based on the data being imported, the report creates an ARIS matrix model and an EPC or BPMN (page 14) model based on the selected model type. The imported PPM functions are mapped to the functions used in the generated process in ARIS.

In PPM, process instances (processes) are classified according to process types. Process types are summarized to process type groups. The process types and process type groups are organized hierarchically in a process tree. Process types and process type groups provide a number of measures, dimensions, relations, and functions, which are registered at the respective process type or process type group.

#### CONTEXT

EPC or BPMN

## PARAMETERS

The following PPM parameters are required.

- PPM credentials: PPM user name and the corresponding password to log in to the PPM client.
- PPM server URL: URL of the PPM server that provides the PPM client you want to connect to.
- PPM client: Name of the PPM client you want to connect to. A PPM client provides all configuration files and applications required to extract data from a source system and configure it for further processing. The client provides the data extracted and transformed from various data sources.

The following ARIS parameters are required.

- Name of the matrix model to be created: Name of the matrix model created by the report, based on the data imported from PPM. The matrix model generated in ARIS maps the functions imported from PPM.
- Name of the process to be created: Name of the EPC or BPMN (page 14) created by the report, based on the data imported from PPM. The process generated in ARIS represents the function flow model imported from PPM.

### 4.2.2 Report: Transfer process model and mapping information to PPM

#### USE

The report transfers both the process model (to-be) belonging to a PPM process type (as-is) and a corresponding mapping of ARIS objects to PPM objects to PPM. This transfer is the basis for checking whether all process instances were run in conformance with the originally planned process.

The report is run on the EPC or BPMN (page 14) model created by the Select PPM process type and create function mapping (page 26) report.

#### CONTEXT

EPC or BPMN

#### PARAMETERS

The following PPM parameters are required.

- PPM credentials: PPM user name and the corresponding password to log in to the PPM client.
- PPM server URL: URL of the PPM server that provides the PPM client you want to connect to.
- PPM client: Name of the PPM client you want to connect to. A PPM client provides all configuration files and applications required to extract data from a source system and configure it for further processing. The client provides the data extracted and transformed from various data sources.

### 4.2.3 Specify report parameters for function import and function mapping

You can set the parameters used in the Select PPM process type and create function mapping report. The parameters are preset with default values used in PPM. If you want to change the preset parameters, you can create further parameter value sets.

The report is located in the PPM integration folder in Administration -> Evaluation -> Reports.

The report requires the following PPM parameters to be able to import the data from PPM.

- PPM credentials: PPM user name to log in to the PPM client. The corresponding password is asked for when you run the report.
- PPM server URL: URL of the PPM server that provides the PPM client you want to connect to.
- PPM client: Name of the PPM client you want to connect to. A PPM client provides all configuration files and applications required to extract data from a source system and configure it for further processing. The client provides the data extracted and transformed from various data sources.

The report requires the following ARIS parameters.

- Name of the matrix model to be created: Name of the matrix model created by the report, based on the data imported from PPM and the selected model. The matrix model generated in ARIS maps the functions imported from PPM.
- Name of the process to be created: Name of the process created by the report, based on the selected EPC or BPMN model.





- View level for process interfaces: Specify the level up to which models that are linked to the selected models via process interfaces. View level 1 means that occurrences of all object definitions that are contained in the directly linked models are also created in the new model. If you increase the view level to 2, occurrences of all object definitions in the models linked to the directly linked models are also created. The maximum view level is 5. If you do not want to use models that are linked via process interfaces, enter 0.

If you do not want to use the default parameters, please ask your PPM system administrator for the relevant parameters.

Prerequisite

You are script administrator for this tenant.

Procedure

1. In ARIS Architect, 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 PPM integration category (subfolder).
5. Select the Select PPM process type and create function mapping report.
6. In the Start tab bar, click  Edit report parameters. The report parameters are displayed.
7. Specify new value sets and the parameters required.
8. Click OK.

The report evaluates defined data as required.

## 4.2.4 Specify report parameters for the transfer of process model and function mapping

You can set the parameters used in the Transfer process model and mapping information to PPM report. The parameters are preset with default values used in PPM. If you want to change the preset parameters, you can create further parameter value sets.

The report transfers both the process model (to-be) belonging to a PPM process type (as-is) and a corresponding mapping of ARIS objects to PPM objects to PPM.

The report is located in the PPM integration folder in Administration -> Evaluation -> Reports.

The report requires the following PPM parameters to be able to import the data from PPM.







- PPM credentials: PPM user name to log in to the PPM client. The corresponding password is asked for when you run the report.
- PPM server URL: URL of the PPM server that provides the PPM client you want to connect to.
- PPM client: Name of the PPM client you want to connect to. A PPM client provides all configuration files and applications required to extract data from a source system and configure it for further processing. The client provides the data extracted and transformed from various data sources.

If you do not want to use the default parameters, please ask your PPM system administrator for the relevant parameters.

#### Prerequisite

You are script administrator for this tenant.

#### Procedure

1. In ARIS Architect, 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 PPM integration category (subfolder).
5. Select the Transfer process model and mapping information to PPM report.
6. In the Start tab bar, click  Edit report parameters. The report parameters are displayed.
7. Specify new value sets and the parameters required.
8. Click OK.

The report evaluates defined data as required.

## 4.3 Conformance check for Process Mining analyses

You can run a process conformance check for your ARIS Process Mining projects created in PPM.

PPM provides the Process Mining configurator to configure a specific Process Mining client. Based on the Process Mining client, you can perform Process Mining analyses in PPM, MashZone NextGen, or ARIS Connect. For details on creating and configuring a Process Mining client, see the PPM online help, chapter Process Mining configurator.


The conformance check for the processes of your Process Mining projects is largely similar to the procedure described in the chapter How to perform a process conformance analysis

(page 6). For your Process Mining project you must also recalculate the process data using the Process Mining configurator.

#### Prerequisite

You have created a Process Mining client and you have imported the relevant process data into the PPM server.

#### Procedure

1. Prepare the process data in ARIS Architect (page 6).  
You must select a Process Mining client when running the relevant ARIS report (page 26).
2. Perform the conformance check and import the result into the Process Mining client. (page 25)
3. Start the Process Mining configurator.
4. Open the Manage projects page.
5. To recalculate the process data, move the mouse pointer over the corresponding Process Mining project and click  More actions -> Recalculate data.

All measures and dimensions of the process type of the selected project are recalculated.

The values of the new conformance measures and dimensions are calculated and are now available in PPM for your process analyses (page 15).

## 4.4 Conformance check widget

The Conformance check widget displays the result of a process conformance check performed in PPM. A process conformance check analyzes whether an executed and measured process instance of a production system is compliant with a designed process model in ARIS.

The Conformance check widget shows conformance issues and the influences of the processes with conformance issues compared to the modeled to-be processes.

For details on performing a performance check, please refer to the PPM conformance checking with ARIS document.

The widget provides an overview area and an issue area.

### OVERVIEW AREA

By default, the overview area displays the values of the Number of processes measure and up to two additional measures, if these have been configured.

If the aggregation of the measure is average, the impact of the measure is displayed as well.

If no measured values for the additional measures exist for non-compliant or compliant processes, this is indicated by hyphen "-", and no impact is displayed.

If only non-conforming processes exist, no impact is calculated and only the value of the non-compliant processes is displayed for all additional measures.

If no non-conforming issues exist, only the Number of processes measure is displayed with the value "0 vs <Number of conforming processes>".

## ISSUE AREA

The issue area shows the different issue types and the function that caused the issue. You can select an issue type in the corresponding drop-down menu to filter the issue list. A tooltip displays additional information. The drop-down menu provides all identified issue types. Initially, all available issue types are displayed.

The bar displays the relative value of the non-conforming processes of an issue in relation to the overall non-conforming processes. In the example below, the issue Create contract should not start process was caused by 66% of the non-conforming issues (4833 out of 7303 non-conforming issues).

For measures with an Average aggregation specified, the value next to the bar displays the impact of non-conforming processes compared to the conforming processes.

For measures with a different aggregation type, only the resulting measure value for this issue is displayed.

A hyphen "-" indicates that no measure value could be retrieved. A tooltip displays additional information.

## CONTEXT FILTER

You can use the Conformance check widget to set a context filter, and the widget can be filtered by a context filter of another widget. To set a context filter in the widget, select an issue in the issue list. The widget currently provides the coordinates Non-conforming function, Conformance issue type, and Preceding function for context filter. For details on how to define a context filter, refer to the chapter Configure filters for Process Mining context-based widgets.

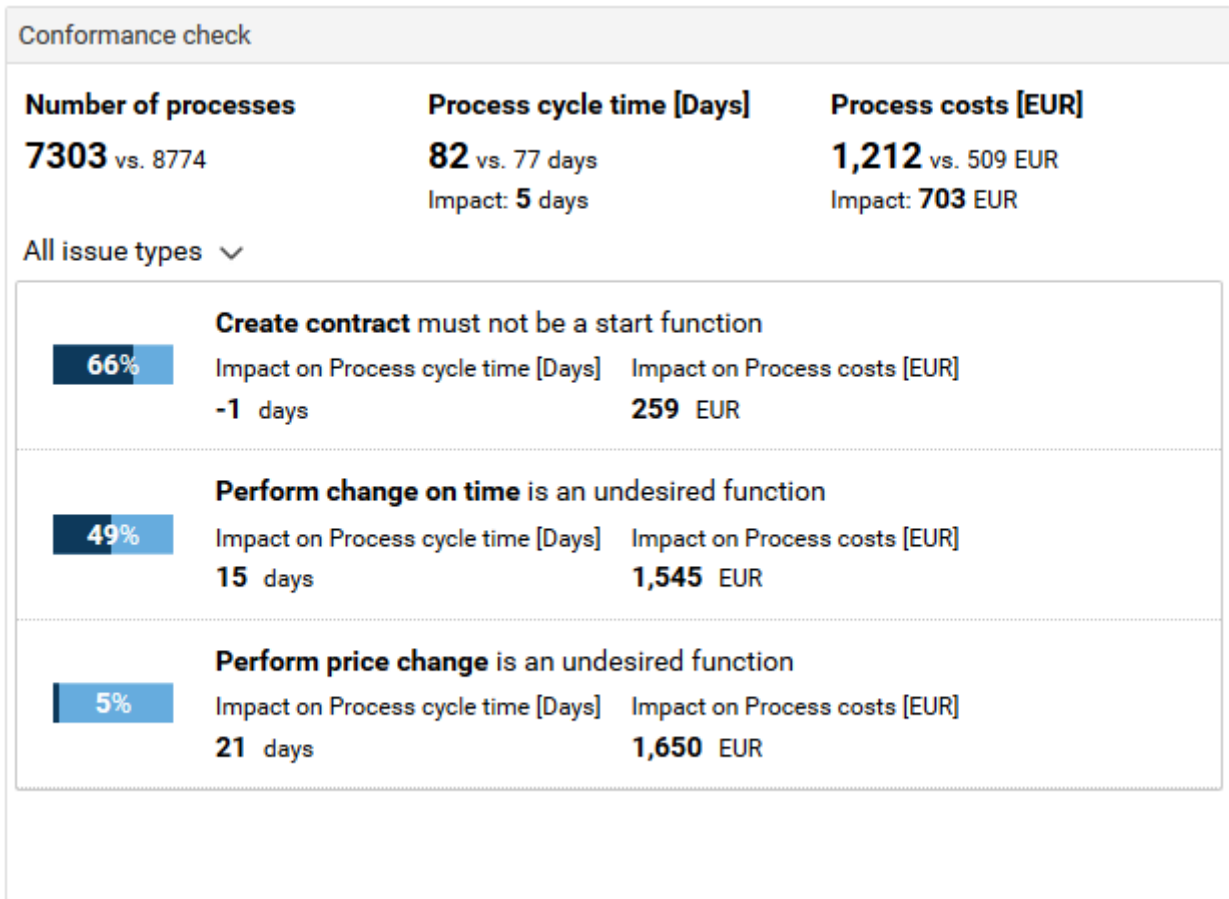
## ACTIONS

The Conformance check widget supports various actions.

## SELECTION

The widget supports the selection from other widgets, that is, other widgets can be used to set a selection in the Conformance check widget. At least the criteria Conformance issue type and Non-conforming function must be configured, otherwise it is not possible to select a specific line in the Conformance Check widget.

Example: Conformance check widget



#### 4.4.1 Assign data columns to Conformance check widget

Before you can display content in the Conformance check widget (page 31), you must first assign all required data columns to this widget. The column assignment is done automatically (page 34) based on your Process Mining context settings, but you must open the assignment dialog to confirm the settings.

The Process Mining context provides all relevant data based on the measures and dimensions configured in PPM. The required measures and dimensions for the Conformance check widget are only available if you have configured PPM for a conformance check accordingly. For details on configuring a conformance check, see the PPM Process Conformance Checking with ARIS document.

To assign the relevant data columns to the widget elements, you must first set the Conformance issue relation as Relation for measures and dimensions in the Process Mining context.


## Prerequisites

You have configured PPM to perform a conformance check.

You have created a Process Mining context.

You have specified the Conformance issue relation for the Process Mining context.

## Procedure

1. Click the Conformance check widget on the dashboard. The relevant properties dialog is displayed.
2. Click  Assign data to edit the data source assignment. The Assign data (2/2) dialog is displayed.

Here you can assign the data source columns to the individual widget elements. For details, see chapter Settings.

3. Assign the data columns of the Process Mining context to the widget elements using drag and drop.

By default, the relevant columns are already assigned to the widget elements.

The following widget elements are mandatory. If they are not configured, no data is displayed in the widget.

- Number of processes
- Conformance rate
- Conformance issue type
- Non-conforming function
- Preceding function

4. Click the assigned columns to specify the columns settings. For details, see chapter Settings.
5. Click OK to save your settings.

The widget shows a Conformance check based on the assigned data columns.

If required, you can adjust the list of data columns provided for the data columns assignment. Click Edit context to edit the data columns specified in the Process Mining context.

### 4.4.1.1 Column matching

The source columns are automatically matched to the widget elements based on keywords of the criteria. The criteria keywords are defined in the PPM settings specifically for the PPM conformance check with ARIS.

For details on configuring a conformance check, see the PPM Process Conformance Checking with ARIS document.

The names of the widget elements are also taken from the PPM settings. The names are in English only, but you can change them manually.

The matching is only done if there are no columns already assigned to some widget elements.

The following elements of the Conformance check widget are matched:

- Number of processes  
Column is a process measure with keyword PNUM.  
Is exactly "Number of processes" then  
Contains "Number of processes".
- Conformance rate  
Column is a process or relation measure with keyword KI\_CONFORMANCE\_RATE.  
Is exactly "Conformance rate [%]" then  
Contains "Conformance rate".
- Conformance issue type  
Column is a relation dimension with keyword D\_CONFORMANCE\_ISSUE\_TYPE.  
Is exactly "Conformance issue type (Conformance issue)" then  
Contains "Conformance issue type".
- Non-conforming function  
Column is a relation dimension with keyword D\_NONCONFORMING\_FUNCTION  
Is exactly "Non-conforming function (Conformance issue)" then  
Contains "Non-conforming function".
- Preceding function  
Column is a relation dimension with keyword D\_PRECEDING\_FUNCTION.  
Is exactly "Preceding function (Conformance issue)" then  
Contains "Preceding function".

If there is no matching source column for a widget element, the widget element stays unassigned, and you must manually assign the column to be used.

#### 4.4.1.2 Settings

The Conformance check widget requires assigned columns for the elements Number of processes, Conformance rate, Conformance issue type, Non-conforming function, and Preceding function.

You can specify the Display name and Format for the Number of processes, Conformance rate, and Additional measures elements. For Additional measure, you can additionally specify the Aggregation. If you enable the Round numerically option, the values are rounded according to the specified format, otherwise the digits are truncated.

#### Option list

Field	Description
Number of processes	<p>Provides the number of conforming and non-conforming processes for each additional measure and additionally per conformance issue type.</p> <p>Allows only numeric columns.</p> <p>The values are displayed in the overview and issues area of the widget.</p> <p>The element is required.</p>
Conformance rate	<p>Provides the conformance rate (page 3) of process instances. The conformance rate distinguishes between conforming (conformance rate = 100%) and non-conforming (conformance rate = 0%) processes.</p> <p>Allows only numeric columns.</p> <p>The element is required.</p>
Conformance issue type	<p>Provides the conformance issue type (page 3).</p> <p>Allows only text columns.</p> <p>The values are displayed in the issues area of the widget together with the non-conforming function. Additionally, the preceding function is displayed if the issue type is "should not follow".</p> <p>The element is required.</p>
Non-conforming function	<p>Provides the non-conforming function that causes the issue type.</p> <p>Allows only text columns.</p> <p>The values are displayed together with the issue type in the issues area of the widget.</p> <p>The element is required.</p>

Field	Description
Preceding function	<p>Provides the preceding function if the issue type is "should not follow". Otherwise the value of this element is not displayed.</p> <p>Allows only text columns.</p> <p>The values are displayed together with the issue type in the issues area of the widget.</p> <p>The element is required.</p>
Additional measures	<p>Provides two additional measures that can be used to display the difference of the measure regarding conforming and non-conforming process instances.</p> <p>Allows only numeric columns and columns that contain process measures.</p> <p>The values are displayed in the overview and in the issues area.</p> <p>The element is optional.</p> <p>By default, the first field is preset with the PDLZ measure if it is available. You can also add the same measure twice with different aggregations. But in this case, the display names of both fields must be different.</p>

### Advanced options

Field	Description
Display name	<p>New column name displayed in the widget that is used for measure, data point, or tool tip, for example.</p> <p>By default, the data source column name is used.</p>
Aggregation	<p>Specifies how the measure value is calculated. Available for numeric columns. The preset aggregation type depends on the configuration in PPM.</p> <p>The number of aggregation types provided by context-based widgets may differ from non-context-based widgets.</p>
Format	<p>Output format of the column values that is used for data points or tool tip, for example. Available for columns of date and numeric type.</p>



Field	Description
Round Numerically	Displays rounded measure values in the chart. Available for numeric columns. Enabled by default.

## 5 Legal information

### 5.1 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.

### 5.2 Support

If you have any questions on specific installations that you cannot perform yourself, contact your local Software AG sales organization (<https://www.softwareag.com/corporate/company/global/offices/default.html>). To get detailed information and support, use our websites.

If you have a valid support contract, you can contact Global Support ARIS at: +800 ARISHELP. If this number is not supported by your telephone provider, please refer to our Global Support Contact Directory.

## ARIS COMMUNITY

Find information, expert articles, issue resolution, videos, and communication with other ARIS users. If you do not yet have an account, register at ARIS Community.

## SOFTWARE AG EMPOWER PORTAL

You can find documentation on the Software AG Documentation website (<https://empower.softwareag.com/>). The site requires credentials for Software AG's Product Support site Empower. If you do not yet have an account for Empower, send an e-mail to [empower@softwareag.com](mailto:empower@softwareag.com) with your name, company, and company e-mail address and request an account.

If you have no account, you can use numerous links on the TECHcommunity website. For any questions, you can find a local or toll-free number for your country in our Global Support Contact Directory and give us a call.

## TECHCOMMUNITY

On the TECHcommunity website, you can find documentation and other technical information:

- Use the online discussion forums, moderated by Software AG professionals, to ask questions, discuss best practices, and learn how other customers are using Software AG technology.
- Access articles, code samples, demos, and tutorials.
- Find links to external websites that discuss open standards and web technology.
- Access product documentation, if you have TECHcommunity credentials. If you do not, you will need to register and specify Documentation as an area of interest.

## EMPOWER (LOGIN REQUIRED)

If you have an account for Empower, use the following sites to find detailed information or get support:

- You can find product information on the Software AG Empower Product Support website.
- To get information about fixes and to read early warnings, technical papers, and knowledge base articles, go to the Knowledge Center.
- Once you have an account, you can open Support Incidents online via the eService section of Empower.
- To submit feature/enhancement requests, get information about product availability, and download products, go to Products.

## SOFTWARE AG MANAGED LEARNINGS

Get more information and trainings to learn from your laptop computer, tablet or smartphone. Get the knowledge you need to succeed and make each and every project a success with expert training from Software AG.

If you do not have an account, register as a customer or as a partner.