



# Migrating SAP projects to SAP® Solution Manager 7.2 solutions

Version 9.8 - Service Release 7

December 2016

This document applies to ARIS Version 9.8 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 Disclaimer

This manual describes the settings and features of ARIS 9.8 SR 7 at the time of print. For service release, the help system as well as all other documents are not updated in all languages. Only the English help system is available yet. This document might not provide help for all contingencies, e.g. various individual system as well as project configurations. Therefore, Software AG strongly recommends requesting Global Consulting Services for migrating existing ARIS projects to be further used with SAP® Solution Manager 7.2. You may order that service from your Software AG sales representative

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## 2 What has changed?

ARIS for SAP Solutions will still support SAP Solution Manager 7.1. You can configure the 7.1 version as well as the 7.2 version.

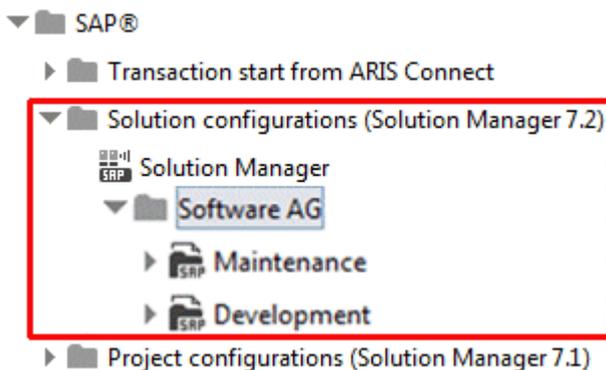
SAP Solution Manager 7.2 has a new concept and introduces new elements. This page gives an overview on how this new concept affects the data handling in ARIS. The main differences between SAP Solution Manager 7.1 and SAP Solution Manager 7.2 from an ARIS point of view are:

### SAP SOLUTION MANAGER 7.2 COMES WITH BRANCHES INSTEAD OF PROJECTS

#### BRANCHES

Projects, template projects or implementation projects are no longer existent. The former project content is now called **branch**. In ARIS the **project** root node is replaced by the **branch** root node.

A branch is the entity that ARIS synchronizes with SAP Solution Manager. In the solution configuration you specify the SAP solution and the branch to synchronize with:



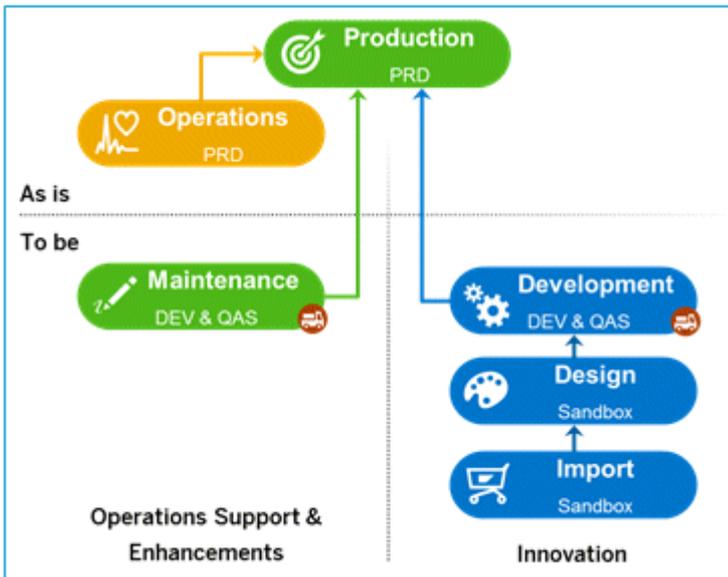
A branch represents a version of the SAP solution and contains its processes, libraries and systems. Per SAP default, there is always a **production** and a **maintenance** branch, but as many additional branches as required can be defined as well. When setting up a new solution, both the **production** and the **maintenance** branch are empty. The starting point for creating a new solution documentation is the **maintenance** branch. The solution will be available in production after it has been released from the **maintenance** branch in SAP Solution Manager.

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Please note that you can use concurrent branches, e.g. a **development** branch for customizing and/or one for upgrading to the newest release. If you create such a **development** branch from your production branch, it will contain the complete solution documentation from the **production** branch. Once the development or upgrade and testing are completed, changes will be available in production after they have been released from the **development** branch in SAP Solution Manager. You can synchronize your solution documentation with both branches. In ARIS each branch is independent from the other, i.e. you can synchronize several branches of a solution into one as well as of course multiple ARIS databases.

- ▼  SAP Solution
  -  Locked items
  -  Scheduled reports
  -  Services
  - ▶  Governance resources
  - ▶  Test Designer projects
  - ▼  Main group
    - ▶  Software AG - Development
    - ▶  Software AG - Maintenance

SAP Best Practice of branches consists of the following branches and their hierarchical structure:



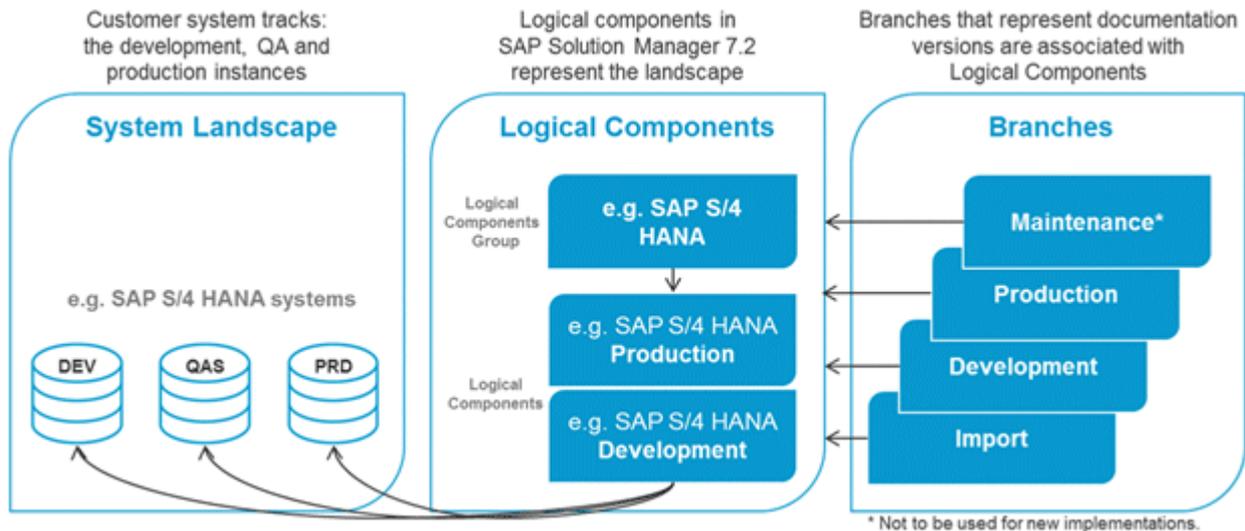
- The **production** branch represents the productive version of the entire solution and solution documentation. The **production** branch cannot be changed. Changes are only allowed in derived branches such as the **maintenance** branch.
  - The **maintenance** branch represents the editable version of the **production** branch. Primarily the **maintenance** branch is used to correct and modify the **production** branch. Once tested, the changes can be released to be available within the production branch.
  - The **development** branch contains the agreed project scope for a future solution. Its primary usage is for major release changes.
    - **Design** branch to design customer targeted project scope for a future solution.
    - **Import** branch to store the SAP Best Practice processes for reference purposes.

The branch structure in SAP Solution Manager 7.2 looks like this example:

Solution Administration		
Solution: DEMO Solution		<a href="#">Open Library Generation Cockpit</a>
Name	Solution Documentation	Type
▼ DEMO Solution		Solution
▼ Production	<a href="#">Open</a>	Production Branch
Maintenance	<a href="#">Open</a>	Maintenance Branch
▼ Development	<a href="#">Open</a>	Development Branch
Design	<a href="#">Open</a>	Design Branch
Import	<a href="#">Open</a>	Import Branch

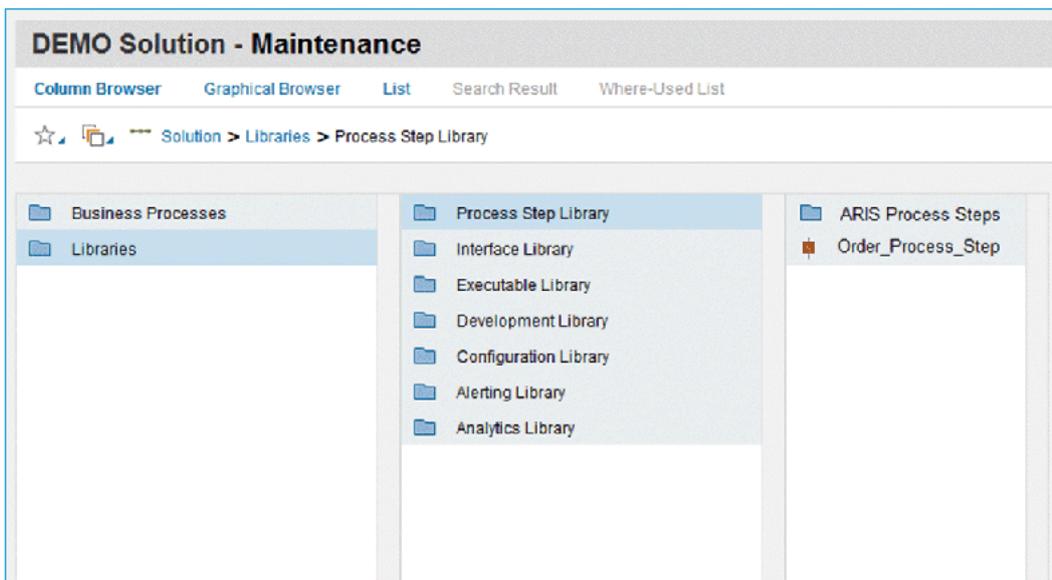
## LOGICAL COMPONENT GROUP

In SAP Solution Manager 7.2 the concept of **Logical Component Group** is introduced. This makes the management of logical components easier and avoids redundancy of documentation. Hence, much fewer logical components are the result. The hierarchical structure is as follows: **SAP Solution > Logical Component Group > Logical Components**. Logical components are detailed by the corresponding branch, e.g. technical systems, roles, versions etc.



## PROCESS STEP LIBRARY (PSL) USED AS A DEFINITION LIBRARY ON STEP LEVEL

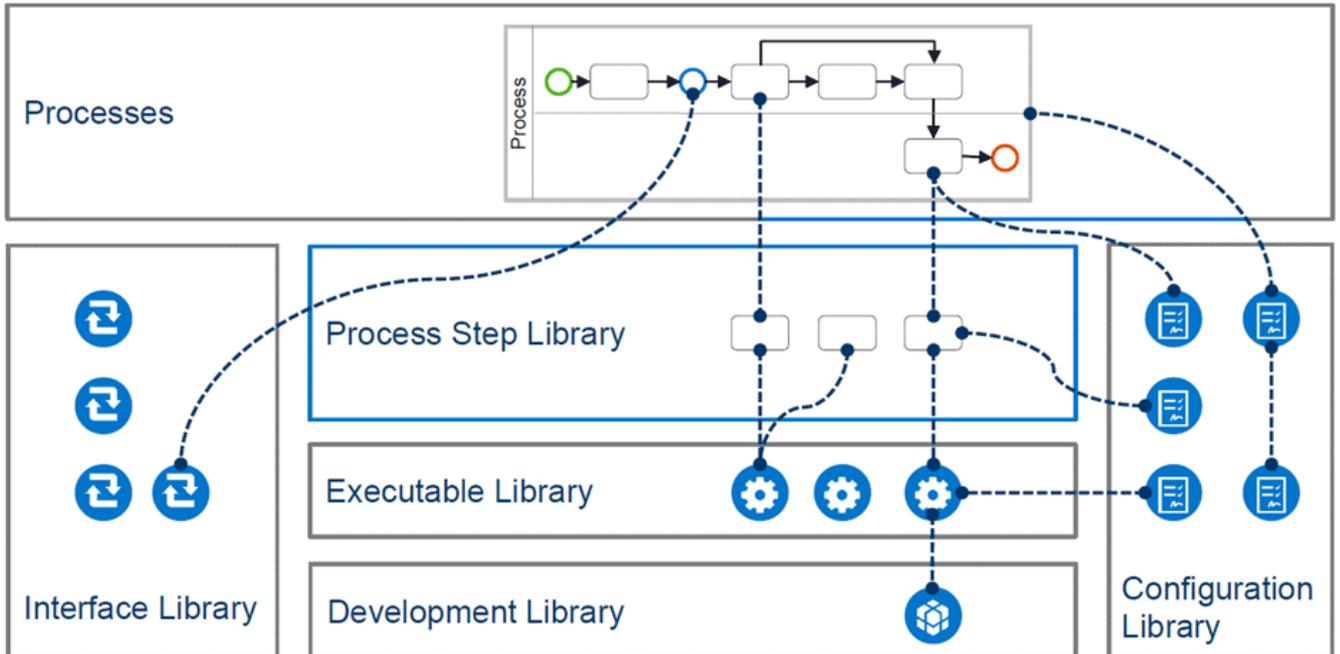
The PSL is one of several libraries that are introduced with SAP Solution Manager 7.2.



The PSL contains process steps and attached documents, test cases etc. Each business process step used in a branch must reference to a PSL step. You can reference the same PSLstep with more than one business process step. In ARIS the PSL will be downloaded into the **PSL** folder of each branch. For each process step and its corresponding PSL step a relation will be created.

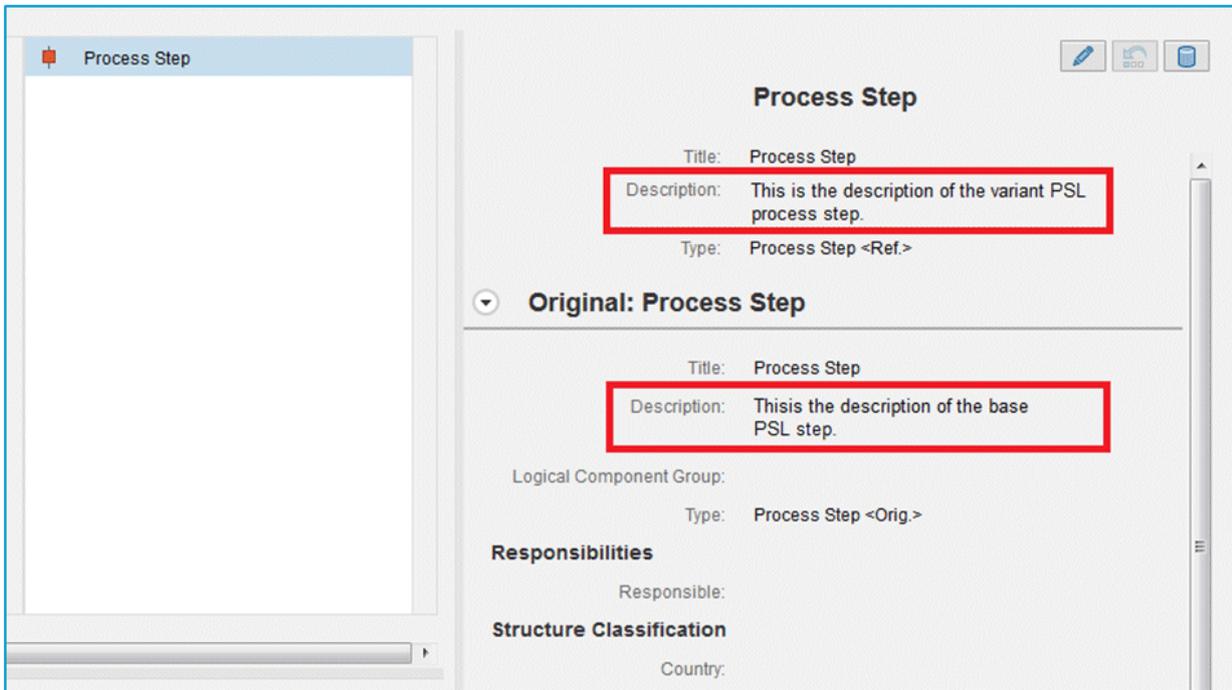
## REUSE OF PSL STEPS IN BUSINESS PROCESSES

Base process steps can be defined as PSL steps. They have individual names and descriptions, assigned executables, belonging roles and specific documentation. These PSL steps can be reused in different processes. A best practice is to use a standardized process framework to structure the PSL.



## Example

In process **A** you are going to use the PSL step as defined. So you just reference this PSL step from the PSL to the business process step. In process **B** the business process step is slightly different. For example, an additional role and a document is required. Hence, at your business process step you add the new role, change the description and add a new document. It still bases on the PSL step, but has different roles and documents assigned. When selecting the business process step you will see the properties of the base PSL step together with the properties of the business process step. When creating SAP functions, you can define the master object to be used.

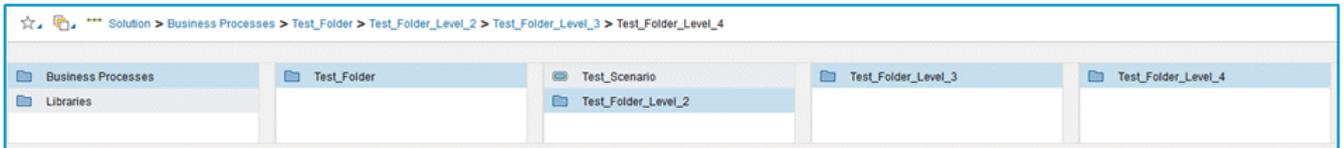


In Solution Manager 7.1 projects, you might have connected several transactions to one process step. SAP best practice for Solution Manager 7.2 advises the use of a one-to-one connection between PSL steps and executables.

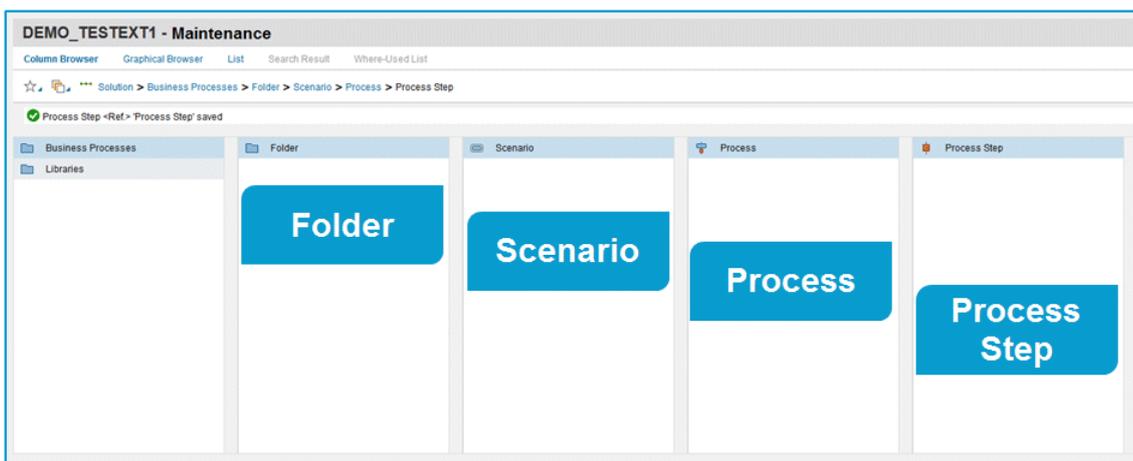
## FLEXIBLE HIERARCHY PLACING SCENARIOS IN AN ARBITRARY FOLDER STRUCTURE

### FLEXIBLE PROCESS STRUCTURE

In SAP Solution Manager 7.1, the process structure is fixed on a 3-level hierarchy: **Scenarios > Business Processes > Process Steps**. With SAP Solution Manager 7.2 there can be as many levels as required by placing scenarios in an arbitrary nested structure of folders.



However, the three levels are still present, and will be the core of the documentation. You will simply be able to add as many levels as needed on top of them.



Folders can be used to structure scenarios as well as the PSL. The hierarchy sequence **Scenario > Business Process > Process step** is still mandatory in the process structure. Folders can only have scenarios or folders as children. Parents can either be a folder or a root node. The same rules apply for the PSL. But since scenarios or processes are not available in the PSL, folders can only have process steps as children.

In ARIS folders will be handled like all other SAP structure elements **branch, scenario, process** and **process step**. The hierarchical order is created by models and SAP functions having distinct model and function types. For folders, the new **folder** function type will be used.

Hierarchy	Model type	Occurrences in models	Children	Parents
Branch	Branch	SAP functions of function type <b>scenario</b>	Folder Scenario	Database group
Scenario	Scenario	SAP functions of function type <b>process</b>	Folder Process	Branch
Process	Process	SAP functions of function type <b>process step</b>	Folder Process step	
Process step	Process step	-	-	

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With SAP Solution Manager 7.1 the sequence is available on each hierarchical level. With SAP Solution Manager 7.2 folders and PSL come into play. For both kinds it makes no sense to order the items by a distinct sequence. Folders, PSL steps and scenarios are sorted in alphabetical order instead. The sequence can only be maintained for processes and process steps.

## SHORTCUTS, KEYWORDS, GLOBAL ATTRIBUTES AND 'DEFINE ORDER' FUNCTIONALITY NO LONGER SUPPORTED

### SHORTCUTS AND OCCURRENCE COPIES

Shortcuts have been replaced by the relation between PSL elements and database elements. In ARIS occurrence copies of model objects that were considered by the former synchronization, e.g. process steps, will not be offered anymore. Now, references between objects will be in place. In ARIS, when copy and paste a SAP-related object, such a master-variant relation will be created. Of course you are supported by a wizard.

### KEYWORDS

Keywords do no longer exist. SAP now uses customer attributes instead.

### GLOBAL ATTRIBUTES

Since projects, template projects or implementation projects are no longer existent, global attributes are obsolete.

### CUSTOMER ATTRIBUTES

Customer attributes with **Undefined** data type cannot be assigned to SAP attributes. Only for customer attributes of the **Value** data type, attribute values can be maintained.

### DEFINE ORDER

The  **Define order** functionality is not available for SAP solutions, since the SAP Solution Manager 7.2 does not provide sorting functionalities. Nevertheless, the standard ARIS behavior will remain the same:

- When synchronizing new process steps from SAP Solution Manager 7.2 to ARIS, the process steps will be placed in the same order as in the column browser of SAP Solution Manager. The order of already synchronized process steps will not be affected in ARIS when changing their order in SAP Solution Manager.
- When synchronizing new process steps from ARIS to SAP Solution Manager 7.2, their order will be determined by their x-y-coordinates within the ARIS model. The order of already synchronized process steps will not be affected in SAP Solution Manager when the coordinates are changed in models.
- SAP Solution Manager 7.2 made minor changes concerning transactions, attributes and documentation.

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## TRANSACTIONS

Transactions are now called **executables**. Executables are handled like the former transactions. In ARIS starting executables via SAP Solution Manager will only be possible for transactions of the **SAP transaction** type. Several new SAP transaction types are supported as well.

## GLOBAL ATTRIBUTES

Global attributes are not supported anymore.

## CUSTOMER ATTRIBUTES

Customer attributes will still be downloaded from SAP Solution Manager, but without data type and values. Some static attributes of the **value** type are available and can be assigned. Customer attributes with **Undefined** data type cannot be assigned to SAP attributes. Only for customer attributes of the **Value** data type, attribute values can be maintained. Before assigning customer attributes, you must maintain the data types. For attributes of the **value** data type maintain the attribute values according to the settings in the SAP system.

## DESCRIPTION ATTRIBUTE

SAP added a new description attribute to each structure item.

## DOCUMENTATION

The different document types **training**, **test**, **project** and **general** are no longer supported. Instead of these types the new **Best practice documentation** is introduced. Best practice documents have no document type and no document state. When synchronizing documents in ARIS, the **Project document** symbol will be used for all document types. ARIS no longer can determine whether the document is a test document or a training document.

For best practice documents in ARIS the **General document** symbol will be used by default.

There are some additional changes introduced with Solution Manager 7.2:

- SAP Solution Manager 7.2 comes along with a BPMN-based modelling tool for the assignment type process diagram
- SAP Solution Manager 7.2 does no longer provide the Business Process Library (BPR). SAP Best Practices packages fully replace the former BPR content.

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## 3 Migrating SAP projects to SAP solutions in ARIS

This procedure explains how to migrate existing SAP projects stored in your ARIS databases using several reports. The reports are managed in the SAP migration (Solution Manager 7.1 to 7.2) report category. After you have migrated your SAP system, all former projects will be available as solutions using the new structure of SAP Solution Manager 7.2.

The migration will take place in several steps. For each action detailed information will be written into the report output files. The synchronization process will be logged as well.

Process-Driven Management for SAP® Solutions is available, if you have selected this topic in the Perspective Wizard.

### Warning

If you have updated SAP® Solution Manager 7.1 to SAP® Solution Manager 7.2, it is absolutely essential not to change any content in the new SAP system, until you have migrated the projects in ARIS. Migration is available only for projects that were migrated to a business process structure in SAP.

### Procedure

1. Make sure to have activated the **PROCESSMANAGEMENT** service in SAP Solution Manager 7.2.
2. Import the current transport request (page 16) coming along with this version as the migration ID provided by SAP does not match the ARIS ID. This transport request is mandatory to perform this mapping.
3. If the ARIS project contains an integrated test project, create a new folder in SAP Solution Manager 7.2, e.g. **Test cases**. Test projects will be migrated within the project migration
4. If the ARIS project contains an integrated test project, move all scenarios belonging to the ARIS test project into this folder.
5. Start ARIS Architect.
6. Click **ARIS >  Administration**.
7. Create a solution configuration particularly for migrating the project (page 18). This is necessary to download the migrated SAP solution's branch from SAP® Solution Manager 7.2. Ensure that all options are set as described. This is to get all necessary data from SAP® Solution Manager 7.2, later when downloading the branch into your new database.  
If you are not about to create a new solution configuration for productive use, after the migration is completed, you can modify the settings for future needs.
8. Click **ARIS >  Explorer**.
9. Back up the database holding the SAP project to be migrated.
10. Create a new database.
11. Log in using the **Entire method** filter.
12. Select the **Main group**.
13. Activate the **SAP® Solutions** tab bar.

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14. Click  **Download > Transfer project**. The wizard opens.

15. Log on to the SAP® system if necessary.

16. Select the branch you have created the SAP® Solution Manager solution configuration for earlier.

17. Click **Finish**. The action starts.

When completed, you have two databases. One holds the old 7.1 project and the other holds the SAP® Solution Manager 7.2 solution's branch already migrated in the SAP system. In the 7.2 solution the key for the SAP ID of the 7.1 project is maintained as **Source ID** attribute.

18. Select the database holding your old 7.1 project to be migrated.

19. Log in using the **Entire method** filter with an ARIS user having full access to all database groups. System users and users holding the database administrator function privilege always have full access.

20. Activate the **Evaluate** tab bar.

21. Click  **Start report**. The Report Wizard opens.

22. Select the **SAP migration (Solution Manager 7.1 to Solution Manager 7.2)** category.

23. Double-click the **01 SAP® Solution Manager 7.2 migration – create root folder layer** report.

When running the report you first have to select the database containing the downloaded SAP Solution Manager 7.2 branch, and you need to connect to the SAP system holding your SAP Solution Manager 7.1 project.

The report copies corresponding 7.2 solution's branch structure for all root functions of the **folder** function type into the 7.1 project structure. The 7.2 solution root has two functions in its linked model. The **Process Step Library** function and the **Business Processes** function. Both functions are necessary for SAP synchronization.

When executed the root level structure in both, the project as well as the solution's branch are identical. The 7.1 project root has assigned a model of the **project** model type, containing the **Process Step Library** function of the **repository folder** function type and the **Business Processes** function of the **folder** function type. The **Business Processes** function has an assigned model. Its name is the same as the **folder** type and it now contains the scenarios. If used, an additional test project folder is created as root object within the business process structure. This folder contains the test scenarios. While migrating, the root folder will be identified to set all test designer markers to the belonging items.

24. Only run the **02 SAP® Solution Manager 7.2 migration – resolve shortcuts** report on the database containing the 7.1 project, if in the 7.1 project shortcuts were in use. This is required since with SAP Solution Manager 7.2 shortcuts are no longer supported.

This step is executed directly on the database containing the 7.1 project. Each shortcut occurrence will be replaced by a new occurrence based on definition which is a shortcut's copy of the definition. You can select appropriate symbols into which the old shortcuts

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should be migrated. When executed all migrated shortcuts are listed in the report output file.

In EPC based models the report creates a new definition from the one used by the shortcut. The definition is identical in attributes and direct properties to the definition of the shortcut. Only the name carries the **copy** prefix. The definition is placed into the database group where the model is stored. It creates a new occurrence based on the old one. The new occurrence is identical in all properties to the old one, e. g. attribute occurrences, unions, symbols, position, size, etc. New connections based on the old ones are created. The new ones are identical in all direct properties to the old ones (arrow style, connection point, pen, etc.). Assignments or master relations are not considered as they refer to the original only.

Since the migration ID of the 7.2 solution is the same for shortcuts and the activity they refer to, the shortcuts will receive the same SAP IDs. Assignments from the shortcut definition will not be considered. The symbol for the new occurrence is maintained in the project configuration. As it is not available to the report, you must select the desired symbol.

In BPMN based models distinct definitions for shortcuts already exist. You only need to replace the **BPMN call activity** by a **task** of your choice. However on process level the disband process on SAP side will create new steps. These are unknown to ARIS. There is no way to create a mapping for them. **You must remodel the process manually after the belonging steps have been synchronized to ARIS.**

In the 7.1 project for each occurrence with the **shortcut** symbol type you now have a new definition with the same attributes and a new identical occurrence. It exactly looks the same as before, except the symbol type has changed from **shortcut** to the one you have defined. In BPMN instead of **Call activity** the **User task** is in use. All **Call activity** properties have been removed.

25. Run the **03 SAP Solution Manager 7.2 migration – adjust transaction types** report.

This report consolidates the different transaction types for URLs. The values **Long URL**, **SAP URL application** and **Predefined URLs from directory** for the **Transaction type** attribute are converted to **Web address** or **file**.

When executed all actions are listed in the report output file.

26. Run the **04 SAP Solution Manager 7.2 migration – adjust documentation** report.

This report replaces symbols types. As in 7.2 solutions the **Training** and the **General document** document types are no longer available. These symbol types are replaced by the **Project documentation** symbol type as default.

You can use different symbol types as well. They must be defined in the method configuration of your solution configuration.

27. Consolidate the logical component groups in the SAP system. If in the SAP® Solution Manager **7.1** project master data and organizational elements are in use, assure in SAP® Solution Manager **7.2** that they have a logical component group maintained that is available in the system landscape of the branch. If not replace the one that belongs to your 7.1 project by the one of your 7.2 branch.

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Executables of the **URL** type that do not belong to a process step in SAP® Solution Manager **7.2** have a dummy logical component group maintained. In SAP® Solution Manager **7.1** they do not have a logical component. If you assign these executables in SAP® Solution Manager **7.2** to an existing logical component group, you should use this group also in the next report.

28. Run the **05 SAP Solution Manager 7.2 migration – adjust system landscape** report

The report changes all values in the **SAP component** attribute, both on **function** and **transaction** level. Also all attributes of the **system application** types in the system landscape are replaced by the values of the 7.2 system. In 7.1 ARIS projects the logical component is represented as the name of the logical SAP component. It is maintained as an attribute on **step** and **transaction** level. In the system landscape it is maintained as **logical component** attribute in the belonging application system type definition. Unused logical components will not be corrected.

When running the report you first have to choose the database containing the downloaded **SAP Solution Manager 7.2** branch, and you need to connect to the SAP system holding your **SAP Solution Manager 7.1** project. This is to map between the migration ID provided by SAP and the SAP ID used by ARIS in **7.1** projects. You can retrieve the values for application server and instance number from your SAP log on. If prompted for the logical component group to be used in ARIS, select the one that matches the logical component group in **SAP Solution Manager 7.2** for executables that do not have maintained one.

When executed all changed objects are listed in the report output file, as well as all SAP components to be changed.

29. Run the **06 SAP Solution Manager 7.2 migration – adjust IDs** report.

This report adjusts the 7.1 project on ID level. It also adjusts the project origin, containing the synchronization type and the branch ID of the branch as well as the project configuration.

7.2 SAP IDs are mapped to the 7.1 project's structure elements. Structure elements are scenarios, processes and process steps. In the 7.2 solution the 7.1 ID is maintained in the **Source ID** attribute. SAP IDs are exchanged on object and model level.

When running the report you first have to choose the database containing the downloaded **SAP Solution Manager 7.2** branch, and you need to connect to the SAP system holding your **SAP Solution Manager 7.1** project. This is to map between the migration ID provided by SAP and the SAP ID used by ARIS in **7.1** projects. You can retrieve the values for application server and instance number from your SAP log on. If prompted for the logical component group to be used in ARIS, select the one that matches the logical component group in **SAP Solution Manager 7.2** for executables that do not have maintained one.

When executed all objects that were exchanged and all objects that were not exchanged are listed in the report output file. Objects that were not exchanged might belong to shortcuts or object definitions that are no longer used in the project.

30. Delete the database containing the 7.2 solution, as this is no longer of use.

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You are now ready to synchronize the project in ARIS against SAP Solution Manager 7.2. Since SAP introduced the Process Step Library (**PSL**) and all assignments have been moved from the business process steps to the PSL steps, this initial synchronization is mandatory for adjusting the 7.1 project to the new 7.2 structure.

Since you are now about to synchronize your operational project, you should adjust your solution configuration to match your proper needs. For example, if you use user-defined models or symbol types, or disable the pool roles, if you do not need them anymore. It is recommended to enable the delete options for assignments. This is to move content successfully from the business process step FADs to the PSL. It is also an advice to create a copy of the database and test the synchronization on this copy.

31. Activate the **SAP® Solutions** tab bar.
32. Select the root node of the former 7.1 project.
33. Click  **Synchronization**. If not logged on the **SAP® logon** dialog opens.
34. Log into the SAP system. The **Select branch options** dialog opens.
35. Select the **Transfer data to ARIS** option, activate the **Include subordinate elements** check box, and click **Finish**. The synchronization starts.
36. Check the log file (page 20) after the synchronization has been completed. Use the report output files to check whether the migration was successful. Items that are listed as successfully migrated in the report output should not be listed as deleted or created in the log file.

The synchronization will create the PSL and link all steps from the business processes to the PSL. This establishes the master variant relation. Each step from the business process structure has now its master in the PSL.

If you have had synchronized a different project with the SAP system that, during content activation, was migrated in SAP into another folder, you can repeat the migration steps for this project as well. After the process is completed, you have to consolidate your ARIS projects by manually exchanging the scenarios that were downloaded into the migrated solution folder. As PSL elements can be related to several process steps, for process steps you may need to decide which assignment belongs to the PSL element and which one individually belongs to the process step itself.

If test projects were included, they will be created in the SAP system while uploading the test scenarios.

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## 3.1 Import transport request (synchronization)

To ensure that SAP® synchronization between **ARIS** and **SAP® Solution Manager** is available, your administrator must import (page 16) the current transport request into the SAP® system. You find the transport request on the installation media (.../Add-ons/ARIS\_Architect\_extension\_pack\_SAP/ABAP/Solution Manager/). The function modules are created in the **/IDS/ARIS\_SOLAR** package in the **/IDS/ARIS\_SOLAR\_001** function group.

### Procedure

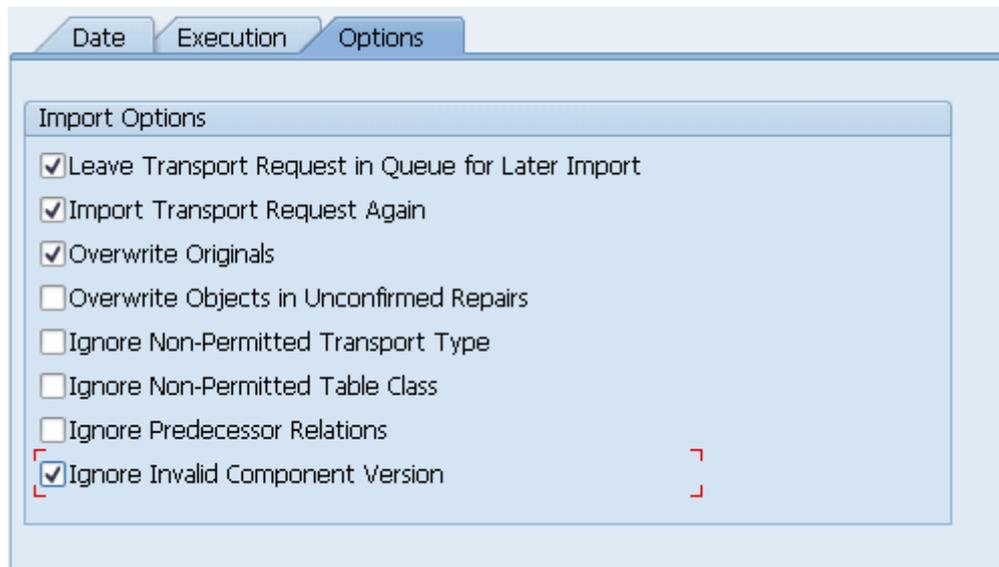
1. Copy the file **K<number>.<SAP system SID>** from the installation media to the directory **\sapmnt\trans\cofiles**.
2. Copy the file **R<number>.<SAP system SID>** from the installation media to the directory **\sapmnt\trans\data**. The **sapmnt** directory usually corresponds to the directory **\usr\sap**. If you cannot find the **cofiles** and **data** directories under the specified paths, you can determine the correct path using the **DIR\_TRANS** variable. To do this, log on to the relevant SAP® Solution Manager system and execute transaction **AL11**.  
To transfer the transport request to the SAP system using the command line program **TP.EXE**, enter the following commands in the specified sequence:
  - a. **TP addtobuffer <SAP system SID>K<number> [target system SID]**
  - b. **TP import <SAP system SID>K<number> [client on target system]**

You can also execute the transport request using the transaction **STMS**.

### Procedure

1. Log on to the relevant SAP® Solution Manager system as system administrator.
2. Execute transaction **STMS**. This takes you to the Transport Management System.
3. Click **Import overview (F5)**.
4. Double-click the relevant SAP® Solution Manager system. This takes you to the import queue.
5. In the menu, select **Extras > Other requests > Add**. The **Add transport request to import queue** dialog opens.
6. Enter **<SAP system SID>K<number>** and confirm. You return to the import overview.
7. Select the transport request.
8. In the menu, select **Request > Import**. The **Import request** dialog opens.

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9. Activate the **Options** tab and check **Ignore invalid component version**.



10. Enter the relevant target client and confirm via **F8** or **Start import**.

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## 3.2 Create Solution configuration for migration

Administrators must create solution configurations for migrating SAP project to SAP solutions in ARIS.

### Prerequisite

- You are a configuration administrator for this tenant.
- Make sure to have activated the **PROCESSMANAGEMENT** service in SAP Solution Manager 7.2.

### Procedure

1. Click **ARIS** >  **Administration**.
2. Click  **Navigation** in the bar panel if the **Navigation** bar is not activated yet.
3. Open the folder  **SAP** > **Solution configurations (SAP® Solution Manager 7.2)**.
4. In the **Start** tab bar, click  **New** > **SAP® Server**. The **Register SAP® Server** dialog opens. The help is shown in the dialog if you click **Help**.
5. Enter the server name to be displayed in the solution configuration.
6. Enter the URL (syntax: **https://<solution manager server name>:<port>**), e.g. **https://sapsolman72.us.co.abc:50001**.  
You can retrieve the URL from the corresponding SAP System using the **SCIF** or the **SOLDOC** transactions. Just copy the URL up to the port number.
7. Only if you use a proxy server enter the parameter.
8. If the connection fails, activate the **Allow untrusted server access** only if you use https on a trusted server but the certificate is unknown.
9. Click **OK**. The SAP® Server is displayed in the table.
10. Select the SAP® Server, and click  **New** > **Solution**. If not logged on the **SAP® logon** dialog opens.
11. Enter the credentials and select the language to be used for the transferred items in ARIS.
12. Click **OK**. The **Add solution** dialog opens.
13. Select the solution that corresponds to the migrated 7.1 project, and click **OK**. The solution is displayed in the table.
14. Select the solution, and click  **New** > **Branch**. The **Add branch** dialog opens.
15. Select the branch you are about to synchronize, e.g., the **maintenance** branch or the **development** branch, and click **OK**. The branch is displayed in the table.
16. Double-click the branch in the navigation tree. The **Branch configuration** tab is activated. The overview displays all pages for which you need to set the options. Thus, you ensure that users can only select the settings you specified when transferring data.
17. Select the options for transferring data from SAP® Solution Manager to ARIS.
18. Click the **Transfer data to ARIS** page in the **Navigation** bar. The default options selected are displayed in a table.

- 
19. Click  **Edit**. The Synchronization Wizard starts.
  20. If you want to prevent users from selecting custom synchronization settings, disable the corresponding option on the **Allow changes** page.
  21. Click **Next**, and activate all check boxes for data synchronization of structural elements on the **Transfer structural elements** page.
  22. Click **Next**, and activate all check boxes for data synchronization of **executables** on the **Transfer executables** page.
  23. Click **Next**, and activate all check boxes for data synchronization of deleted elements on the **Delete elements** page.
  24. Click **Next**, and activate all check boxes for data synchronization of documents, master data, and organizational units on the **Transfer assignments** page.
  25. Click **Next**, and activate all check boxes for data transfer of end user roles on the **Transfer end user roles** page.
  26. Do not touch the options for transferring data from ARIS to SAP® Solution Manager, the document types for the solution, the method configuration for the solution and the attribute assignment for the solution.
  27. Activate the project configuration.
  28. Select the locked configuration in the table.
  29. Click  **Change status**.

The status of this configuration has been changes. The status is displayed in the table. When **Active** users can transfer contents between ARIS and SAP® Solution Manager.

The solution's branch is available for transferring data between ARIS and SAP® Solution Manager in order to migrate projects to solutions (page 11).

When migrated, you can lock this configuration. If you are not about to create a new configuration for productive use, you might customize the current configuration.

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## 3.3 ARIS reports for SAP migration

In the **SAP migration (Solution Manager 7.1 to Solution Manager 7.2)** report category, users will find all needed reports in the Report Wizard.

All reports in this category are to be used while migrating (page 11) databases containing SAP projects, using SAP Solution Manager 7.1 to SAP solutions, using SAP Solution Manager 7.2.

### 3.3.1 Report: 01 SAP Solution Manager 7.2 migration – create root folder layer

#### USE

This report is the first to be used while migrating (page 11) databases containing SAP projects, using SAP Solution Manager 7.1 to SAP solutions, using SAP Solution Manager 7.2.

The report copies corresponding 7.2 solution's branch structure for all root functions of the **folder** function type into the 7.1 project structure. The 7.2 solution root has two functions in its linked model. The **Process Step Library** function and the **Business Processes** function. Both functions are necessary for SAP synchronization.

When executed the root level structure in both, the project as well as the solution's branch are identical. The 7.1 project root has assigned a model of the **project** model type, containing the **Process Step Library** function of the **repository folder** function type and the **Business Processes** function of the **folder** function type. The **Business Processes** function has an assigned model. Its name is the same as the **folder** type and it now contains the scenarios. If used, an additional test project folder is created as root object within the business process structure. This folder contains the test scenarios. While migrating, the root folder will be identified to set all test designer markers to the belonging items.

#### CONTEXT

Databases holding former SAP Solution Manager 7.1 projects to be migrated to SAP solutions using SAP Solution Manager 7. 2.

#### OUTPUT FORMAT

XLS

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### 3.3.2 Report: 02 SAP Solution Manager 7.2 migration – resolve shortcuts

#### USE

This report is the second to be used while migrating (page 11) databases containing SAP projects, using SAP Solution Manager 7.1 to SAP solutions, using SAP Solution Manager 7.2. Only run this report if the 7.1 project uses shortcuts. It replaces each shortcut occurrence by a new occurrence based on definition which is a copy of the shortcut's definition.

In EPC based models the report creates a new definition from the one used by the shortcut. The definition is identical in attributes and direct properties to the definition of the shortcut. Only the name carries the **copy** prefix. The definition is placed into the database group where the model is stored. It creates a new occurrence based on the old one. The new occurrence is identical in all properties to the old one, e. g. attribute occurrences, unions, symbols, position, size, etc. New connections based on the old ones are created. The new ones are identical in all direct properties to the old ones (arrow style, connection point, pen, etc.). Assignments or master relations are not considered as they refer to the original only.

Since the migration ID of the 7.2 solution is the same for shortcuts and the activity they refer to, the shortcuts will receive the same SAP IDs. Assignments from the shortcut definition will not be considered. The symbol for the new occurrence is maintained in the project configuration. As it is not available to the report, you must select the desired symbol.

In BPMN based models distinct definitions for shortcuts already exist. You only need to replace the **BPMN call activity** by a **task** of your choice. However on process level the disband process on SAP side will create new steps. These are unknown to ARIS. There is no way to create a mapping for them. **You must remodel the process manually after the belonging steps have been synchronized to ARIS.**

In the 7.1 project for each occurrence with the **shortcut** symbol type you now have a new definition with the same attributes and a new identical occurrence. It exactly looks the same as before, except the symbol type has changed from **shortcut** to the one you have defined. In BPMN instead of **Call activity** the **User task** is in use. All **Call activity** properties have been removed.

When executed all migrated shortcuts are listed in the report output file.

#### CONTEXT

Databases holding former SAP Solution Manager 7.1 projects to be migrated to SAP solutions using SAP Solution Manager 7. 2.

#### OUTPUT FORMAT

XLS

---

### 3.3.3 Report: 03 SAP Solution Manager 7.2 migration – adjust transaction types

#### USE

This report is the third to be used while migrating (page 11) databases containing SAP projects, using SAP Solution Manager 7.1 to SAP solutions, using SAP Solution Manager 7.2.

This report consolidates the different transaction types for URLs. The values **Long URL**, **SAP URL application** and **Predefined URLs from directory** for the **Transaction type** attribute are converted to **Web address** or **file**.

When executed all actions are listed in the report output file.

#### CONTEXT

Databases holding former SAP Solution Manager 7.1 projects to be migrated to SAP solutions using SAP Solution Manager 7. 2.

#### OUTPUT FORMAT

XLS

### 3.3.4 Report: 04 SAP Solution Manager 7.2 migration – adjust documentation

#### USE

This report is the fourth to be used while migrating (page 11) databases containing SAP projects, using SAP Solution Manager 7.1 to SAP solutions, using SAP Solution Manager 7.2.

This report replaces symbols types. As in 7.2 solutions the **Training** and the **General document** document types are no longer available. These symbol types are replaced by the **Project documentation** symbol type as default.

When executed all actions are listed in the report output file.

#### CONTEXT

Databases holding former SAP Solution Manager 7.1 projects to be migrated to SAP solutions using SAP Solution Manager 7. 2.

#### OUTPUT FORMAT

XLS

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### 3.3.5 Report: 05 SAP Solution Manager 7.2 migration – adjust system landscape

#### USE

This report is the fifth to be used while migrating (page 11) databases containing SAP projects, using SAP Solution Manager 7.1 to SAP solutions, using SAP Solution Manager 7.2.

The report changes all values in the **SAP component** attribute, both on **function** and **transaction** level. Also all attributes of the **system application** types in the system landscape are replaced by the values of the 7.2 system. In 7.1 ARIS projects the logical component is represented as the name of the logical SAP component. It is maintained as an attribute on **step** and **transaction** level. In the system landscape it is maintained as **logical component** attribute in the belonging application system type definition. Unused logical components will not be corrected.

When running the report you first have to choose the database containing the downloaded **SAP Solution Manager 7.2** branch, and you need to connect to the SAP system holding your **SAP Solution Manager 7.1** project. This is to map between the migration ID provided by SAP and the SAP ID used by ARIS in **7.1** projects. You can retrieve the values for application server and instance number from your SAP log on. If prompted for the logical component group to be used in ARIS, select the one that matches the logical component group in **SAP Solution Manager 7.2** for executables that do not have maintained one.

When executed all changed objects are listed in the report output file, as well as all SAP components to be changed.

#### CONTEXT

Databases holding former SAP Solution Manager 7.1 projects to be migrated to SAP solutions using SAP Solution Manager 7. 2.

#### OUTPUT FORMAT

XLS

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### 3.3.6 Report: 06 SAP Solution Manager 7.2 migration – adjust IDs

#### USE

This report is the sixth to be used while migrating (page 11) databases containing SAP projects, using SAP Solution Manager 7.1 to SAP solutions, using SAP Solution Manager 7.2.

This report adjusts the 7.1 project on ID level. It also adjusts the project origin, containing the synchronization type and the branch ID of the branch as well as the project configuration.

7.2 SAP IDs are mapped to the 7.1 project's structure elements. Structure elements are scenarios, processes and process steps. In the 7.2 solution the 7.1 ID is maintained in the **Source ID** attribute. SAP IDs are exchanged on object and model level.

When running the report you first have to choose the database containing the downloaded **SAP Solution Manager 7.2** branch, and you need to connect to the SAP system holding your **SAP Solution Manager 7.1** project. This is to map between the migration ID provided by SAP and the SAP ID used by ARIS in **7.1** projects. You can retrieve the values for application server and instance number from your SAP log on. If prompted for the logical component group to be used in ARIS, select the one that matches the logical component group in **SAP Solution Manager 7.2** for executables that do not have maintained one.

When executed all objects that were exchanged and all objects that were not exchanged are listed in the report output file. Objects that were not exchanged might belong to shortcuts or object definitions that are no longer used in the project.

#### CONTEXT

Databases holding former SAP Solution Manager 7.1 projects to be migrated to SAP solutions using SAP Solution Manager 7. 2.

#### OUTPUT FORMAT

XLS

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### **3.3.7 Report: SAP Solution Manager 7.2 migration – library**

This report is used by all other SAP Solution Manager 7.2 migration reports. Users cannot start this report from the Report Wizard.