



ARIS system architecture

ARIS INTERFACES TO SAP[®] SOLUTION MANAGER 7.1

Version 10.0 - Service Release 1

July 2017

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

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

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1 System architecture

ARIS contains different products and interfaces to connect ARIS with SAP® Solution Manager 7.1. This chapter describes the interfaces.

Depending on the functions provided you may need to perform further adjustments.

- Use SAP® synchronization
- Use customizing transactions/views
- When using ARIS Publisher, you must configure the connection to SAP® systems.
- Ensure that the users have been created in the SAP® system and have the required privileges (page 8).

Further information is available in additional documents and in the help system. For details see **ARIS - Process-driven Management for SAP** and **SAP Requirements** on DVD, ARIS Download Center (aris.softwareag.com) or Empower (<https://empower.softwareag.com/>).

1.1 ARIS

With its interface, **ARIS** provides you with all the functions you need to connect ARIS with SAP® Solution Manager 7.1.

Depending on the required functional scope, the file **sapjco3.jar** must be provided on client computers and/or on ARIS Server. This connector is used to create the connection to the SAP® system using SAP® access parameters. For licensing reasons, it may not be installed automatically. The file **sapjco3.jar** is required for the following functions.

- **Synchronization** (ARIS Server)
- **Run transaction** (client)
- **Show blueprint** (client)
- **Show configuration** (client)
- **Documentation** (client)

For these client functions, a local SAP® GUI for Windows installation is required. For details see **ARIS - Process-driven Management for SAP** and **SAP Requirements** on DVD, ARIS Download Center (aris.softwareag.com) or Empower (<https://empower.softwareag.com/>).

The following graphic shows the interaction of the individual systems and components when performing the above functions.

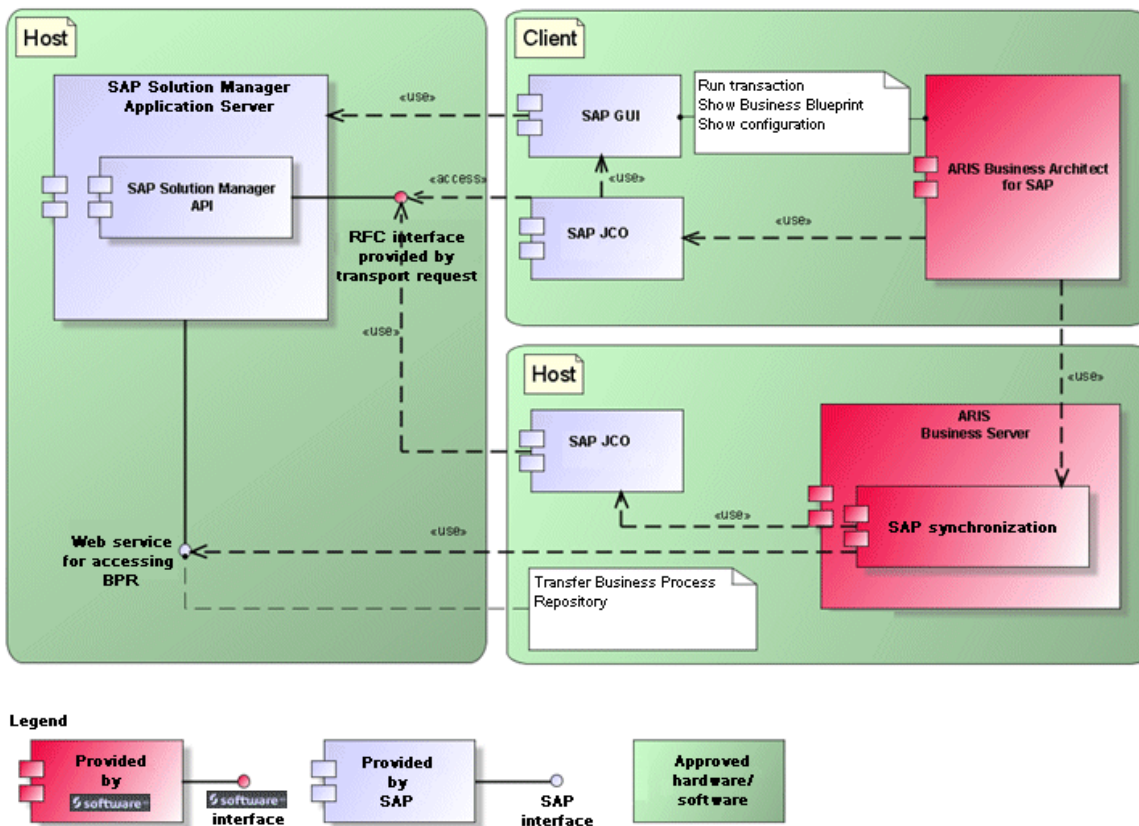


Abbildung 1: SAP® synchronization, run transaction, show blueprint

To use the **Synchronization** function, please make SAP® Java Connector available on the server. Furthermore, you need SAP® Solution Manager. For details see **ARIS - Process-driven Management for SAP** and **SAP Requirements** on DVD, ARIS Download Center (aris.softwareag.com) or Empower (<https://empower.softwareag.com/>).

The Software AG RFC interface encapsulates the internal SAP API of SAP® Solution Manager. All calls via the interface use SAP-proprietary functions and functions used by SAP itself. This ensures that SAP changes are as transparent to the interface as possible.

To ensure that SAP® synchronization between **ARIS** and **SAP® Solution Manager** is available, your administrator must import 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.

The following graphic shows the interaction of the individual systems and components when performing the function **Run customizing transactions/view** (client).

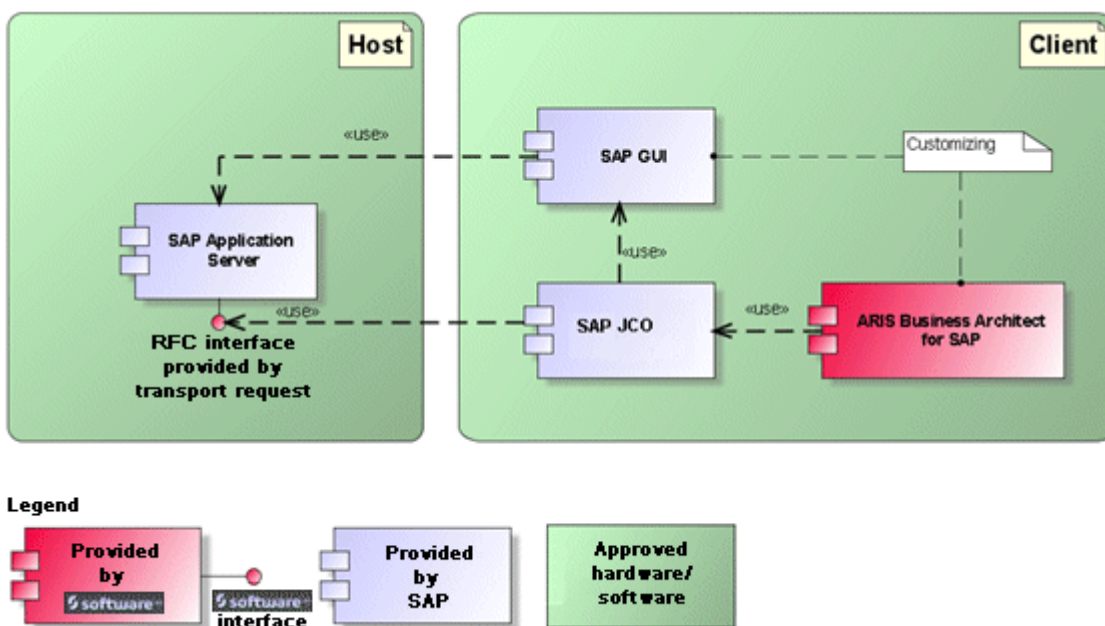


Abbildung 2: Customizing

The RFC interface to customizing is streamlined and consists only of one function module that enables you to call the view editing transaction with the view specified in ARIS as a parameter.

2 SAP® system

Depending on the functions that are to be provided, you must import various transport requests, create users, and assign privileges.

2.1 SAP® transport requests

ARIS requires specific function modules for access to SAP® systems.

SAP® SYNCHRONIZATION

To ensure that SAP® synchronization between **ARIS** and **SAP® Solution Manager** is available, your administrator must import 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.

The following objects are contained in the transport request.

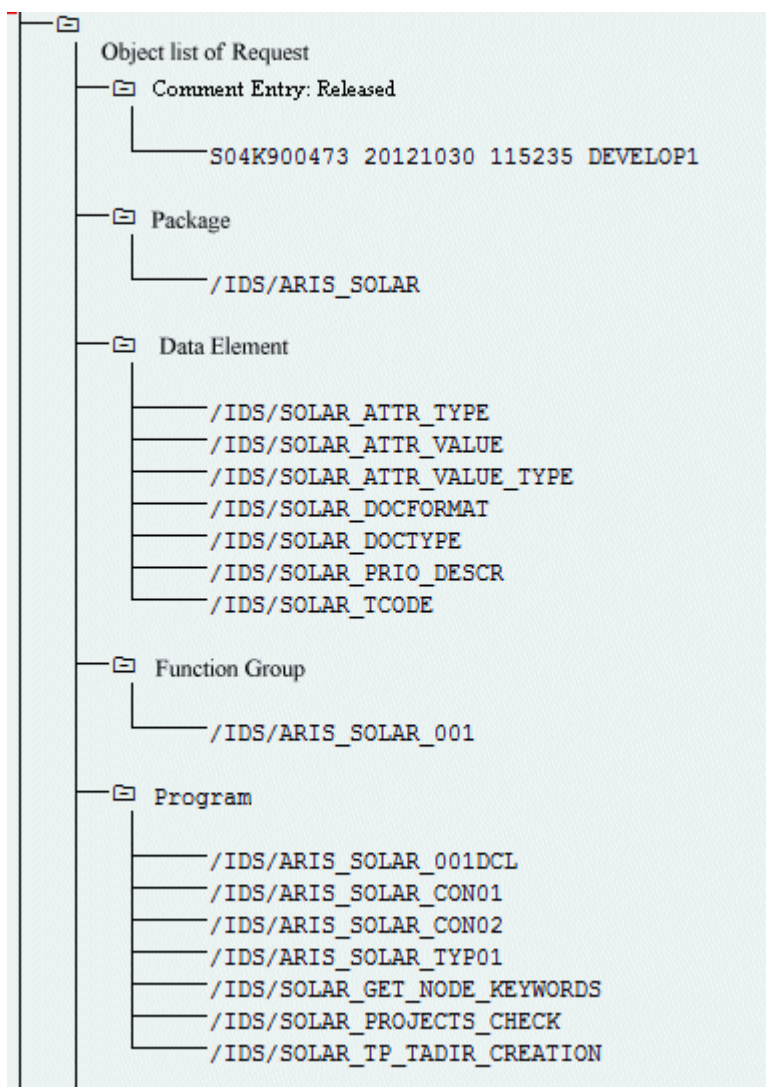


Abbildung 3: Transport request: SAP® synchronization (1)

Table
/IDS/SOLAR_ATTR_LINE
/IDS/SOLAR_COMP_LINE
/IDS/SOLAR_DOCT_TO_STATES_LINE
/IDS/SOLAR_FUNC_VERS_S
/IDS/SOLAR_GLATT_LINE
/IDS/SOLAR_INST_COMPS_S
/IDS/SOLAR_KEYWORD_LINE
/IDS/SOLAR_MAPPING_LINE
/IDS/SOLAR_NODE_S
/IDS/SOLAR_PROD_COMP_S
/IDS/SOLAR_PROD_CONFLICT_S
/IDS/SOLAR_PROD_INSTANCE_S
/IDS/SOLAR_PROJECT_STATUS_S
/IDS/SOLAR_PROJ_DOC
/IDS/SOLAR_PROJ_PERMISSION_S
/IDS/SOLAR_ROLE_LINE
/IDS/SOLAR_SELECT_VALUE_LINE
/IDS/SOLAR_STARTREL_2_S
/IDS/SOLAR_STARTREL_LINE
/IDS/SOLAR_IPROJECTI_EXTD_LINE
/IDS/SOLAR_IPROJECTI_LINE
/IDS/SOLAR_TRANSACT_LINE
/IDS/SOLAR_USED_CONTEXT_LINE
/IDS/SOLAR_VERSIONS_S
/IDS/SOLAR_VERS_CONFLICT_S

Table Type
/IDS/SOLAR_ATTR_SELECT_VALUES
/IDS/SOLAR_ATTR_TAB
/IDS/SOLAR_COMP
/IDS/SOLAR_COMPS
/IDS/SOLAR_DOCT_STATES_MAPPING
/IDS/SOLAR_GLATT_TAB
/IDS/SOLAR_KEYWORD_T
/IDS/SOLAR_MAPPING
/IDS/SOLAR_PROD_COMP_T
/IDS/SOLAR_PROD_CONFLICT_T
/IDS/SOLAR_PROJ_DOCS
/IDS/SOLAR_STARTREL_TAB
/IDS/SOLAR_IPROJECTI_EXTD_TAB
/IDS/SOLAR_IPROJECTI_TAB
/IDS/SOLAR_USED_CONTEXT
/IDS/SOLAR_VERSIONS_T
/IDS/SOLAR_VERS_CONFLICT_T

Abbildung 4: Transport request: SAP® synchronization (2)

CUSTOMIZING

To be able to run IMG transactions (customizing transactions) and open customizing views from ARIS, you must import the current transport request into the SAP® system. The transport request is located on the installation media under **Add-ons\ARIS Architect extension pack SAP\ABAP\Customizing**. The function module **IDS/VIEW_MAINTENANCE_CALL** is created in the **IDS/ARIS_CUSTOMIZING** function group. This function group is assigned to the **IDS/ARIS_CUSTOMIZING** package.

The following objects are contained in the transport request.

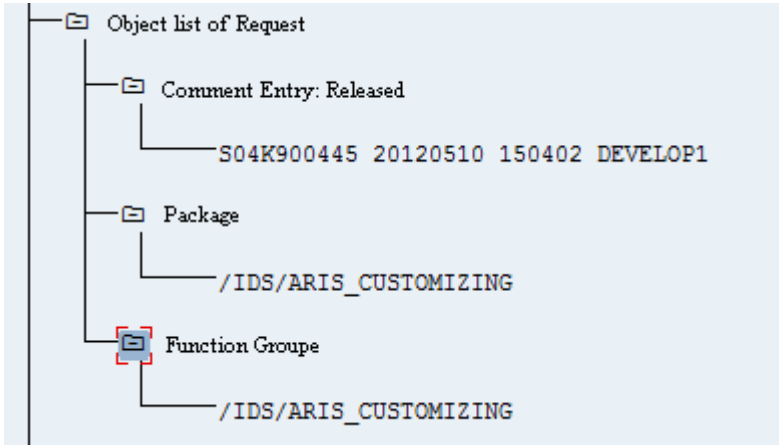


Abbildung 5: Transport request: Customizing

2.2 Requirements and privileges in the SAP® system

If you are going to use Process-Driven Management for SAP® Solutions these requirements must be fulfilled. For details see **ARIS - Process-driven Management for SAP** and **SAP Requirements** on DVD, ARIS Download Center (aris.softwareag.com) or Empower (<https://empower.softwareag.com/>).

- Ensure that the users have been created in the SAP® system and have RFC privileges.
- The special SAP ports **sapgw00 3300/tcp** and **sapdp00 3200/tcp** must be enabled in the Windows Services file of the client computer (C:\Windows\ system32\ drivers\ etc/services). In general, these ports are added automatically during SAP GUI installation.
- If you use server groups for access (SAP routers), you need to enter the SAP ports manually in consecutive sequence. By default, the syntax for a port number is as follows **3300** plus the **<SAP system number>** will be used. If, for example, the system number is **03**, the port number **3303** must be entered. Entries that have not been entered in consecutive sequence are ignored.

2.3 Privileges for SAP® synchronization

Users must be assigned certain roles in the SAP® system to access this function. This gives the users all the necessary authorizations. You must assign the following roles:

- The predefined role **SAP_SOLAR01_ALL**
- The predefined role **SAP_SMSY_ALL** (read privilege)
- A role to be defined with RFC privileges.

You create the role to be defined using the **PF03** transaction. You assign the authorization objects **S_RFC** and **S_RFACL** to the role.

VALUES FOR AUTHORIZATION OBJECT S_RFC

The graphic shows all values to be entered.

Select the **Run** activity in the **ACTVT** box.

Find all the names to be entered for authorization object **S_RFC** for the RFC object to be protected in the **RFC_NAME** box. The selected entries **SDIFRUNTIME**, **STFC**, and **IDS/ARIS_SOLAR_001** must be added.

Select the **Function group** type in the **RFC_TYPE** box.

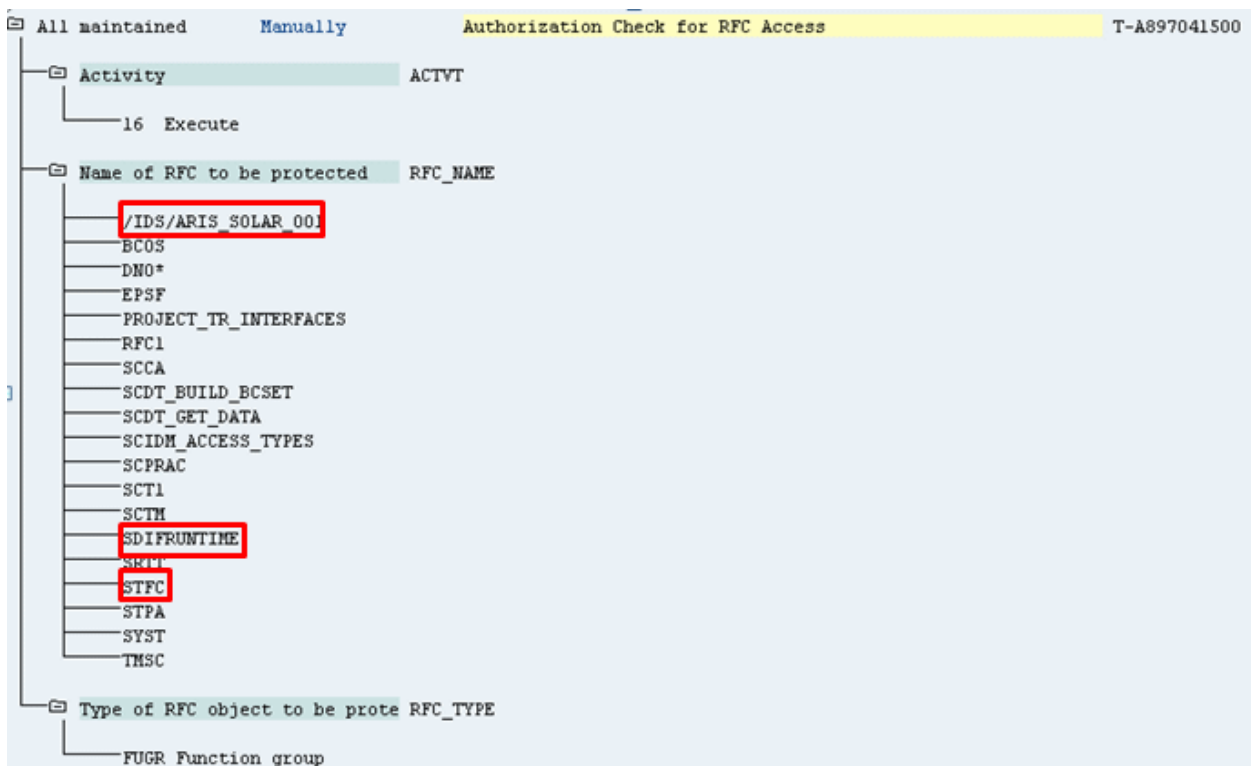


Abbildung 6: Authorization object 'S_RFC'

VALUES FOR AUTHORIZATION OBJECT S_RFCACL

The authorization object **S_RFCACL** requires all privileges.

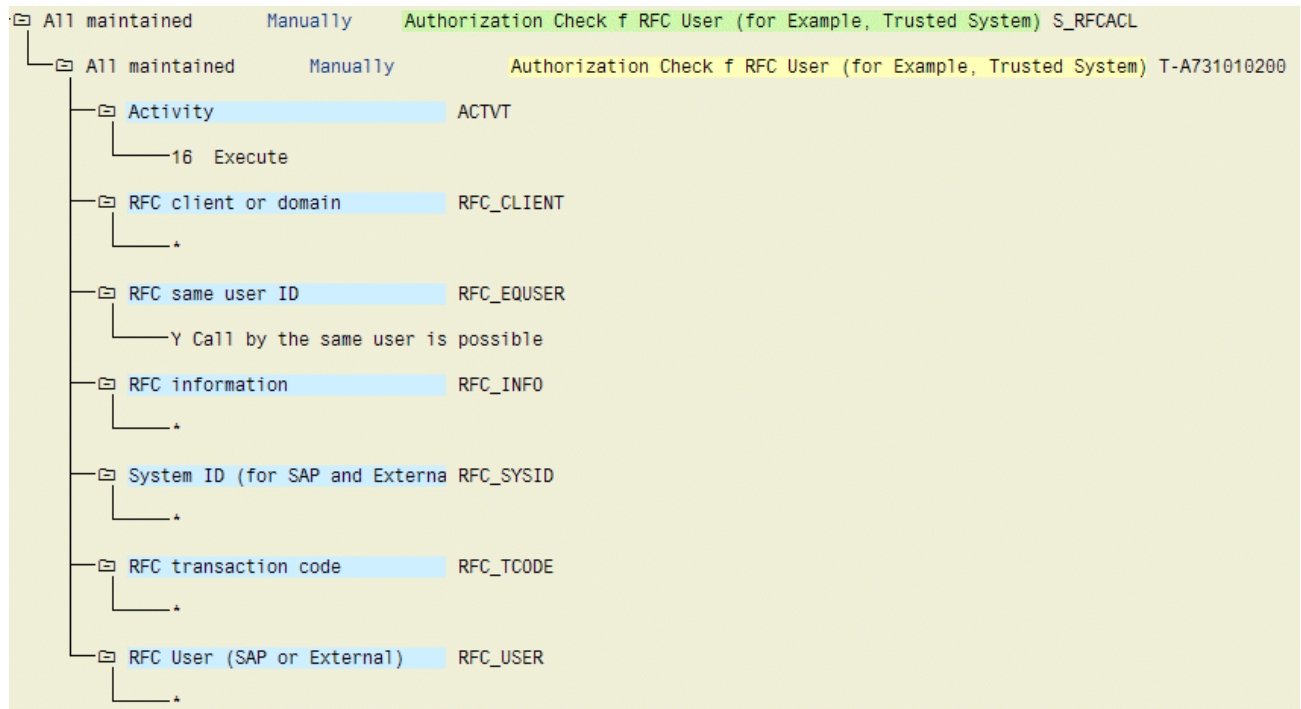


Abbildung 7: Authorization object 'S_RFCACL'