



ARIS INTERFACES TO SAP SOLUTION MANAGER

VERSION 10.0 - SERVICE RELEASE 14

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

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

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1 System architecture

ARIS contains different products and interfaces to connect ARIS with SAP® Solution Manager. Depending on the SAP® Solution Manager version, you need to perform further adjustments. Further information is available in additional documents and in the help system. For details, see **ARIS for SAP® Solutions** manual and **ARIS Requirements for SAP® Solutions** manual available on DVD, in the ARIS Download Center (<https://aris.softwareag.com/>) or on Empower (<https://empower.softwareag.com/>).

1.1 Using SAP Solution Manager 7.2

ARIS and SAP Solution Manager 7.2 communicate via HTTP access. Therefore the requirements must be met in the SAP system. In general, the system no longer requires transport requests (page 7). SAP® JCo is only required for ARIS Architect or ARIS Designer if you want to run executables.

The transport request for synchronization and **sapjco3.jar** on the server side are needed only for data migration. For details, see **Migrating SAP projects to SAP® Solution Manager 7.2 solutions** on DVD, ARIS Download Center (<https://aris.softwareag.com/>) or Empower (<https://empower.softwareag.com/>).

In order to use SAP Solution Manager 7.2, the following conditions must be met:

- **Authentication specified**

The required privileges are contained in the **ZSOLDOCAPIACCESS.SAP** profile (see ARIS DVD\Add-ons\ARIS_Architect_extension_pack_SAP\Authentication). The profile is imported into the SAP system using the **PFCG** executable.

- **Service activated**

In order to allow HTTP access to the system, the **PROCESSMANAGEMENT** service (default_host/sap/opu/odata/sap) must be activated. The service is activated using the **SICF** executable

- **Virus scan profile enabled**

In order to avoid problems that might occur due to a virus scanner in use, a default virus scan profile is defined (**VSCANPROFILE** executable).

Deactivate and activate the virus scan profile (**/IWFND/VIRUS_SCAN** executable). In case of problems, you can use the **/IWFND/ERROR_LOG** executable to check the error protocol.

1.2 Using SAP Solution Manager 7.1

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 executables/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 11).

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

1.2.1 ARIS

The ARIS interface provides you with all the functions you need to connect ARIS with SAP® Solution Manager.

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 executable** (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 forSAP** and **SAP Requirements** on DVD, ARIS Download Center (<https://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.

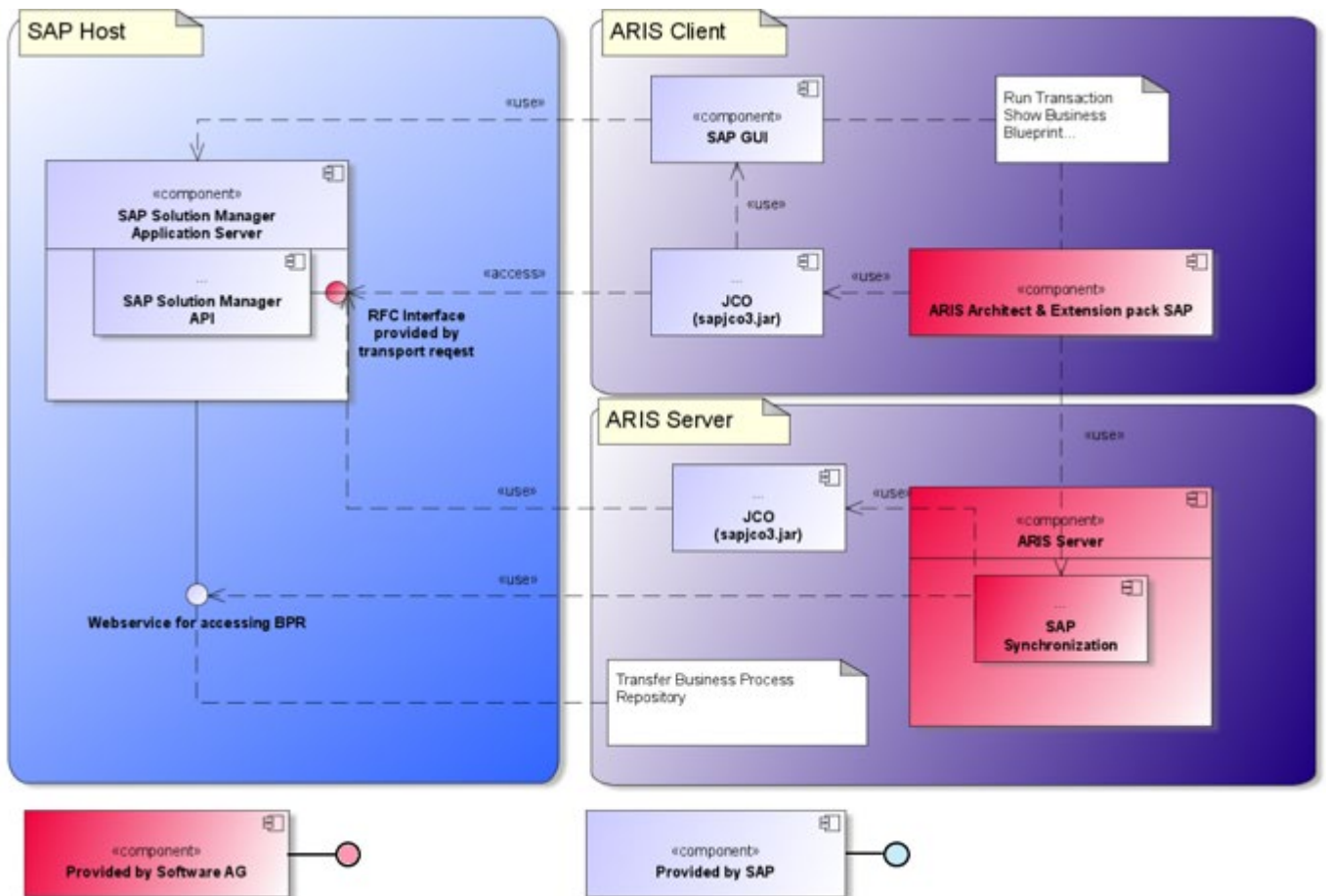


Figure 1: SAP® synchronization, run executable, show blueprint

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

If you use SAP® Solution Manager 7.2, transport requests are no longer required.

To ensure that SAP® synchronization between **ARIS** and **SAP® Solution Manager 7.1** 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 transaction/view** (client).

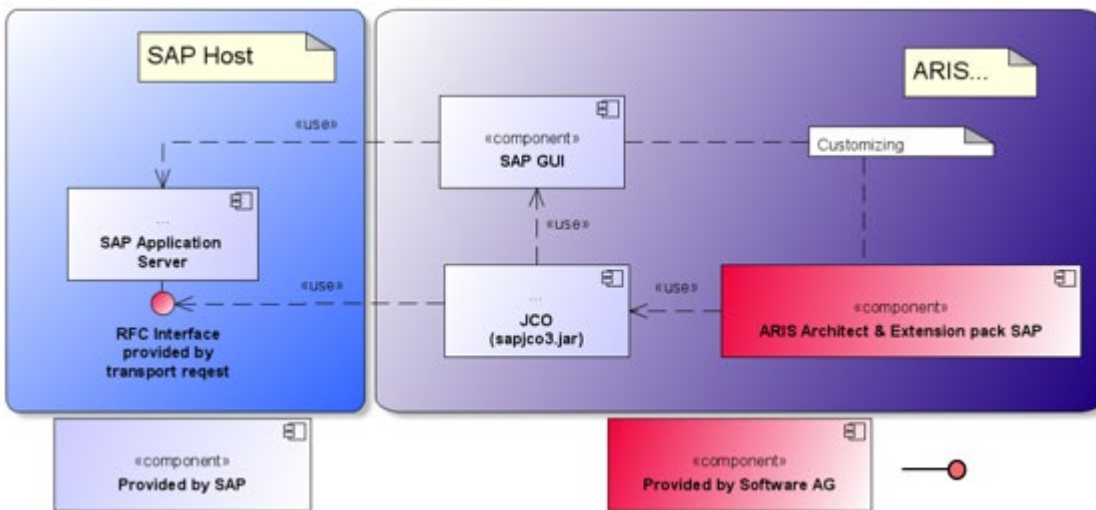


Figure 2: Customizing

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

1.2.2 SAP system

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

1.2.2.1 SAP transport requests

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

SAP® SYNCHRONIZATION

If you use SAP® Solution Manager 7.2, transport requests are no longer required.

To ensure that SAP® synchronization between **ARIS** and **SAP® Solution Manager 7.1** 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.

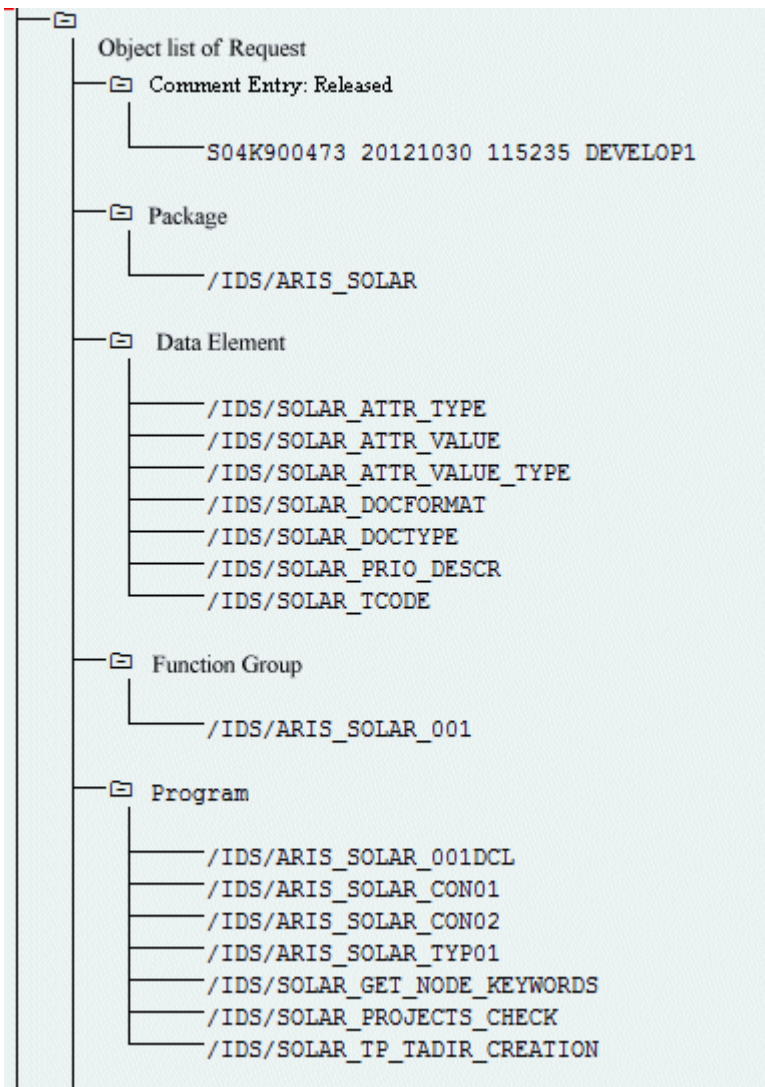


Figure 3: Transport request: SAP® synchronization (1)

The image shows a screenshot of a transport request in SAP, specifically for synchronization. It is divided into two sections: 'Table' and 'Table Type'. Each section contains a list of objects to be synchronized, each preceded by a horizontal line and a small square icon.

Category	Object Name
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_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	

Figure 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.



Figure 5: Transport request: Customizing

1.2.2.2 Requirements and privileges in the SAP system

If you are going to use **ARIS for SAP® Solutions**, additional requirements must be met. For details, see **ARIS for SAP® Solutions** manual and **ARIS Requirements for SAP® Solutions** manual available on DVD, in the ARIS Download Center (<https://aris.softwareag.com/>) or on 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.

1.2.2.3 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 **PFCG** executable. 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.

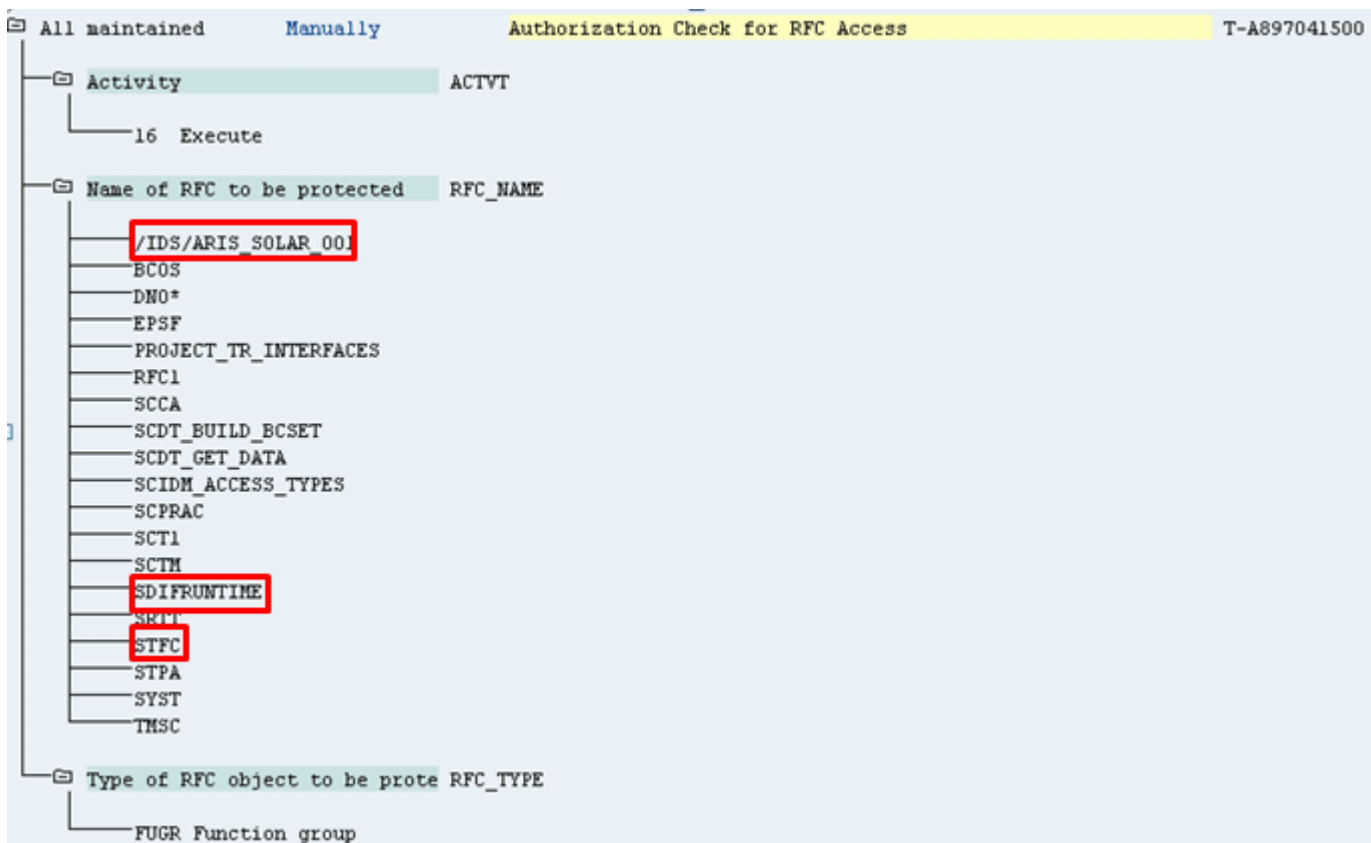


Figure 6: Authorization object 'S_RFC'

VALUES FOR AUTHORIZATION OBJECT S_RFCACL

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

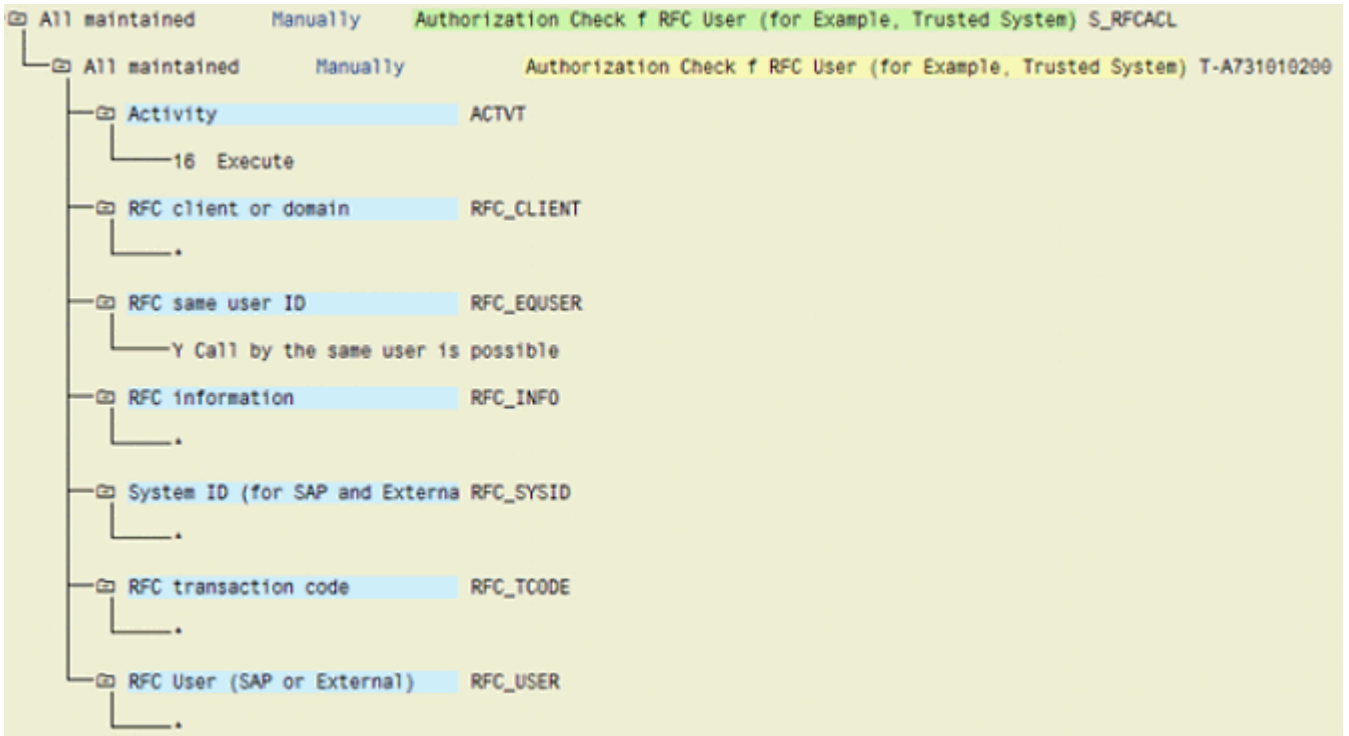


Figure 7: Authorization object 'S_RFCACL'

2 Legal information

2.1 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.

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If you have no account, you can use many 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.

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- Find links to external websites that discuss open standards and web technology.
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