

Create an RFC trust relationship between 2 SAP systems - A step-by-step guide

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Purpose

The Purpose of this page is to illustrate with detailed step-by-step instructions and screenshots how you can setup a Trusted/Trusting Relationship between 2 SAP ABAP systems.

Overview

This page explains in detail how to create a trusted connection between 2 systems: ABC Client 100 & XYZ Client 100.

Creating the RFC destination on the ABC client 100

Logon to ABC – go to transaction SM59 and create an RFC destination:

1. RFC Destination: XYZ_TRUST
2. Connection Type 3: ABAP Connection
3. Description: Trusted RFC connection for XYZ System Client 100
4. Target host: <target hostname>
5. System Number: Instance number of XYZ
6. Gateway Host: Recommended to provide the gateway host
7. Gateway Service: sapgw<nn> where <nn> is the instance number of XYZ
8. Under the Logon & Security tab:
9. Enter the Language
10. Enter the client
11. User: Specify a user with Admin access (SAP_ALL / SAP_NEW) on XYZ
12. Password: Password for above user
13. Trust Relationship: No
14. Save and perform an authorization test (Ctrl + F4)

Creating the RFC destination on system XYZ client 100 system

1. Logon to the XYZ Client 100 system – go to transaction SM59 and create an RFC destination:
2. RFC Destination: ABC_TRUST
3. Connection Type 3: ABAP Connection
4. Description: Trusted RFC connection for ABC System Client 100
5. Target host: <target hostname>
6. System Number: Instance number of ABC
7. Gateway Host: Recommended to provide the gateway host
8. Gateway Service: sapgw<nn> where <nn> is the instance number of ABC
9. Under the Logon & Security tab:
10. Enter the Language
11. Enter the client
12. User: Specify a user with Admin access (SAP_ALL / SAP_NEW) on ABC

13. Password: Password for above user
14. Trust Relationship: No
15. Save and perform an authorization test (Ctrl + F4)

Maintain the trusted system details in the ABC system (transaction SMT1)

In transaction SMT1 create an entry for the trusted system by providing the RFC destination XYZ_TRUST and then Save in the subsequent screen

Edit the RFC destination XYZ_TRUST under the Logon & Security tab with the below details:

- Language: EN
- Client: 100
- Check the “Current User” checkbox
- Trust Relationship: Yes

Save and then perform an authorization test (Ctrl + F4)

Maintain the trusted system details in the XYZ system (transaction SMT1)

In transaction SMT1 create an entry for the trusted system by providing the RFC destination ABC_TRUST and then Save in the subsequent screen

Edit the RFC destination ABC_TRUST under the Logon & Security tab with the below details:

- Language: EN
- Client: 100
- Check the “Current User” checkbox
- Trust Relationship: Yes

Save and perform an authorization test (Ctrl + F4)

Authorizations required for RFC trust relationship to work

The above RFCs will work provided you have the s_rfcac1 authorisation object access with the following values mentioned in the respective systems:

(> Release 7.02):

On the ABC system:

- RFC_SYSID : XYZ
- RFC_CLIENT: 100
- RFC_USER : ''
- RFC_EQUUSER: Y (for Yes)
- RFC_TCODE : *
- RFC_INFO : ##### (installation number of the XYZ)
- ACTVT : 16

On the XYZ system:

- RFC_SYSID : ABC
- RFC_CLIENT: 100
- RFC_USER : ''
- RFC_EQUUSER: Y (for Yes)
- RFC_TCODE : *

- RFC_INFO : ##### (installation number of the ABC)
- ACTVT : 16

The trust relationship between the ABC system and XYZ system should now be properly established

Related Content:

SAP Note [128447](#) "Trusted/Trusting Systems"

SAP Note [1627901](#) "Authorization group for Trust Relationship"

SAP Note [1491645](#) "Unauthenticated system access via RFC or HTTP"

SAP Note [131387](#) "No authorization to log on as a trusted system"

SAP Note [1562697](#) "Authorization group for trust relationship"

[Setting Up a Trusted Relationship between two SAP ABAP Systems](#)

rfc_logon

1 Comment



BalReddy Allam

Hii experts,

How to create RFC function module ?

Thanks in advance