Checklist for Support Backbone Update
For SAP Solution Manager 7.2 SPS 8 with Multiple Customer Scenarios
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## Change History

<table>
<thead>
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<th>Document Date</th>
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<tr>
<td>2020-06-10</td>
<td>Added the Service Connections section to <em>Apply Final Corrections</em> [page 37].</td>
</tr>
<tr>
<td>2020-04-28</td>
<td>Updated the recommendation regarding SAP OSS in <em>Adjust Your User Logon Information</em>.</td>
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<tr>
<td>2020-02-27</td>
<td><em>Check Jobs Using the New Connections</em> [page 33] erroneously stated that the job <code>REFRESH_ADMIN_DATA_FROM_SUPPORT</code> had been deactivated. This has been corrected to <code>SEND_SYSTEM_RELATIONSHIP_TO_SUPP</code>.</td>
</tr>
<tr>
<td>2020-02-18</td>
<td>Added information about the discontinuation of jobs <code>SM:UPLOAD_SYSTEM_DATA</code> and <code>REFRESH_ADMIN_DATA_FROM_SUPPORT</code>. See <em>Check Jobs Using the New Connections</em> [page 33].</td>
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<tr>
<td>2020-02-13</td>
<td>Added information about unknown central note version in SAP Solution Manager Configuration. See <em>SAP Solution Manager Configuration (SOLMAN_SETUP) – Universally Relevant</em> [page 37].</td>
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<td>2020-01-27</td>
<td>Updated links to SAP Notes</td>
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<td>2020-01-16</td>
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Who Is This Guide For?

This checklist is relevant for you if either of the following situations applies to you:

- You manage multiple customers but require only **one connection** to the support backbone.
  For instance, you may be a service provider such as a PartnerEdge Sell partner (also known as a “value-added reseller” or “VAR”) or a customer with multiple customer numbers under the corporate group function (Customer Competence Center or Customer Center of Excellence), which may be for different regions or branches. We will point out information that is specific to you throughout this document.

- You manage multiple customers and you require **multiple connections** to the support backbone. You require one connection to the backbone for each of your customer numbers. This may include SAP Solution Manager as a Managed System (SMaaMS) customers, who are also known as “SAP Partners” or “SAP Hosting” customers.

Special Cases

1. **You are a Partner Edge Sell partner in a corporate group but you don’t want to download or receive data from other partners in the same group.**
   Your scenario is handled as the “one connection” scenario above. In this case, see SAP Note 2626887 and request that your customer number be removed from the corporate group. Once it has been removed, you can continue to configure the system as described here.

2. **Your SAP Solution Manager system manages multiple PartnerEdge Sell subsidiaries.**
   In this case, you must use a corporate group (CCC or CCoE) function. See SAP Note 2459283 and include all customer numbers from your subsidiaries as part of the corporate group.
   The updated support backbone doesn’t allow a PartnerEdge Sell partner to download or receive customer data from another partner without a valid business reason. Therefore, if the partner is not maintained contractually (by SAP) as the “support provider” of an end-customer installation, the partner will not be able to download the customer’s data.

**Restriction**

This document doesn’t contain detailed information about delta configurations. If you have upgraded to Support Package Stack 8, please work through all of the following steps and check whether your configuration is still valid.
1 Introduction

The support backbone is the infrastructure that we use to provide you with technical support. Your systems connect to the support backbone to exchange information, such as support incident data, maintenance planner data, and SAP EarlyWatch Alert data.

Due to the increasing demand placed on the support backbone, we have updated the infrastructure so that we can continue to provide you with the support you require. As part of this process, the way in which systems connect to SAP has been redesigned to include the following changes:

- The HTTPS protocol is now used instead of RFC.
- A technical communication user handles the data transfer instead of generic users.
- There is no generic inbound interface.
- Applications send data asynchronously unless the data is sent manually.

To help you transition smoothly to the updated support backbone, the legacy infrastructure will remain in place until January 8, 2020.

This document provides step-by-step tasks to help you retain connectivity to the support backbone after this date.

Before you start to work through this checklist, please familiarize yourself with the following information:

- SAP Support Backbone Update: How the SAP Support Backbone Update Affects SAP Solution Manager and Focused Run (including a list of affected SAP Solution Manager scenarios)
- Configuration and Upgrade Guide for Service Providers and Channel Partners on SAP Support Portal
  This guide contains the required Customizing settings that you must configure before you can run your partner scenarios.
2 Step-by-Step Checklist

Before You Begin

This document is based on a readily customized partner scenario and is intended to help you convert from SAPOSS to the updated support backbone connections.

If you have a newly installed system, you must first configure your partner scenario. For more information, see the Configuration and Upgrade Guide for Service Providers and Channel Partners on SAP Support Portal.

We recommend that you work through the configuration steps with a user that has extended basic authorizations, as well as authorizations for SAP Solution Manager Configuration.

For the latest updates to SAP Solution Manager authorizations, see SAP Note 2250709. Download the latest version from this SAP Note. Specifically, you require authorization for the roles SAP_SETUP_SYSTEM_PREP (to run the System Preparation procedure steps) and SAP_SM_BATCH (to allow for the smooth running of technical user SOLMAN_BTC). In addition, implement SAP Note 2816890.

⚠ Caution

Information about the changes you need to make to connect to the updated support backbone is provided in this checklist, documentation in SAP Solution Manager Configuration (transaction SOLMAN_SETUP), and task list documentation in transaction STC01. If, despite our best efforts, you find discrepancies between these sources, please treat them with the following order of priority:

1. This checklist
2. Task list documentation
3. Documentation in SAP Solution Manager Configuration

If You Need Help

Throughout this document, we provide some hints that you can use to resolve any problems that you may encounter. However, if your system does not run as expected after you have migrated to the updated support backbone, please refer to the central point of call for troubleshooting at Support Hub Connectivity: Guided Answers.

If you have configured all of the settings described in this document but you continue to experience connectivity issues, please open a message on component SV-SMG-INS-CFG and prefix your message title with “Backbone Update:” to simplify processing.

If you have a question about the technical infrastructure of the new communication channels, please open an incident on component XX-SER-NET-HTL. If you require more background about the relationship between the support backbone and SAP Solution Manager, see Connectivity to SAP’s Support Backbone.
Procedure

Use the following overview to work through the steps required to retain communication with the updated support backbone.

1. **Request a Technical Communication User** [page 8]
   - Where: SAP ONE Support Launchpad | **Useful SAP Notes:** 2174416, 2740667, 2805811, 2911301
2. **Check the Required Kernel Version** [page 9]
   - Where: SAP Solution Manager system
3. **Check and Install CommonCryptoLib** [page 10]
   - Where: transaction STRUST | **Useful SAP Notes:** 2390726
4. **Check and Adjust the TLS/SSL Protocol Version** [page 12]
   - Where: transaction RZ11 | **Useful SAP Notes:** 510007
5. **Configure and Activate HTTPS/SSL** [page 13]
   - Where: transaction SMICM | **Useful SAP Notes:** 510007
6. **Check the Application Server** [page 14]
   - Where: system OS
7. **Install SSL Certificates** [page 15]
   - Where: transaction STRUST | **Useful SAP Notes:** 2631190
8. **Execute Task List SAP_SUPPORT_HUB_CONFIG** [page 16]
   - Where: transaction STC01 | **Useful SAP Notes:** 2500061, 2454045
9. **Execute Task List SAP_BASIS_CONFIG_OSS_COMM** [page 20]
    - Where: transactions STC01, SM59 | **Mandatory SAP Notes:** 2827658
10. **Prepare Note Assistant** [page 22]
    - Where: transactions SA38, SNOTE | **Mandatory SAP Notes:** 2576306 | **Important SAP Notes:** 2537133, 2721941, 2836302
11. **Set Customizing Parameter to Allow for Automatic Customer Number Updates** [page 23]
    - Where: transaction SM30
12. **Set Customizing Parameter to Allow for Connection Switch (Old to New)** [page 24]
    - Where: transaction SM30
13. **Set Customizing Parameter to Allow for One Connection to the Support Backbone** [page 25]
    - Where: transaction SM30
14. **Check SAP Customer Numbers** [page 26]
    - Where: transaction SM30
15. **Activate BAdI AI_SDK_SP_RFC_RP** [page 27]
    - Where: transaction SE19
16. **Adjust Your User Logon Information for Specific Users** [page 28]
    - Where: transaction AISUSER | **Useful SAP Notes:** 2000132, 2174416
17. **Finalize Support Hub Connectivity** [page 30]
    - Where: transaction SOLMAN_SETUP | **Useful SAP Notes:** 2722769, 2735772, 2525999, 2880549
18. **Configure Partner/VAR Communication Channels** [page 32]
    - Where: transaction SOLMAN_SETUP
19. **Check Jobs Using the New Connections** [page 33]
    - Where: transaction SM37 | **Useful SAP Notes:** 2250709, 2525987
20. **Update Program in Job SM:REFRESH MESSAGE** [page 36]
    - Where: transaction SM37
21. Apply Final Corrections [page 37]
   After you have completed the upgrade tasks, there are handful of SAP Notes that you must implement and some related activities to work through.

2.1 Request a Technical Communication User

Where: SAP ONE Support Launchpad | Useful SAP Notes: 2174416, 2740667, 2805811, 2911301

Technical communication users allow machine-to-machine communication and data exchange. Only super administrators and user administrators have access to the Technical Users app, where they can create, activate, and delete technical communication users.

*i Note*

Depending on your current release, you may already have at least one technical communication user (although you can request more if required). Technical communication users were introduced with SAP Solution Manager 7.2. They are also occasionally referred to as “technical S-users”, “support hub users”, or “users for support hub communication”.

Make sure that you request your technical communication users in good time. It can take up to 24 hours to receive them.

The number of technical communication users that you require depends on your company policy. It is possible to use one technical communication user for all systems. However, this may lead to connectivity issues if the user gets locked.

→ Recommendation

We recommend that you request one technical communication user per installation / system track (for example, DEV-QAS-PRD). The highest level of flexibility and security can be reached by using one technical communication user per system.

*i Note*

You can decide whether you require one technical user for one connection to the support backbone, or whether you require more than one connection to the support backbone for multiple customer numbers.

Procedure

1. Request your technical communication user as described in SAP Note 2174416 and create client certificates for it as described in 2805811 (initial creation) and 2911301 (automated renewal).
2. Replace generic users with the technical communication user(s) as instructed in SAP Note Request your technical communication user as defined in SAP Note 2740667.
3. Make sure that you activate your technical communication user as described in SAP Note 2174416.

For a list of frequently asked questions about technical communication users, see the User Handling section at Update of SAP’s Support Backbone: Frequently Asked Questions (FAQ).
Check

You can check whether your technical communication user has been activated successfully at https://launchpad.support.sap.com/#/techuser.

Your Notes

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Parent topic: Step-by-Step Checklist [page 6]

Next: Check the Required Kernel Version [page 9]

Related Information

SAP Note 2174416
Creation and activation of users in the Technical Users application - SAP ONE Support Launchpad

SAP Note 2740667
RFC connection SAPOSS to SAP Service & Support backbone will change (latest) in January 2020

SAP Note 2805811
How to enable client certificate authentication for technical communication users

SAP Note 2911301
SAP Support Portal connection - Renew client certificate of technical S-user

2.2 Check the Required Kernel Version

Where: SAP Solution Manager system

To retain communication with the support backbone, you must make sure that your SAP Solution Manager system is running on the correct kernel version and patch level.
Valid kernel versions and patch levels are:

- Kernel release 742, patch level 401 and above
- Kernel release 745, patch level 400 and above
- Kernel release > 745

Procedure

1. In your SAP Solution Manager system, choose **System > Status...**
2. Click (Other kernel info.) or press **SHIFT + F5**.

Your kernel release and patch level are shown in the *Kernel Information* area. If they are below the required levels, patch to the level specified above.

Your Notes

Parent topic: Step-by-Step Checklist [page 6]

Previous: Request a Technical Communication User [page 8]

Next: Check and Install CommonCryptoLib [page 10]

### 2.3 Check and Install CommonCryptoLib

**Where:** transaction **STRUST** | **Useful SAP Notes:** 2390726

You require at least version 8.4.48 of the CommonCryptoLib library to retain your connection to the support backbone.

**Recommendation**

We recommend that you always upgrade to the latest version of CommonCryptoLib.
Procedure

1. In your SAP Solution Manager system, call transaction STRUST and choose Environment > Display SSF Version from the menu.

2. Check the installed version of CommonCryptoLib.

   ![Image of CommonCryptoLib version]

3. If you have to update your version of CommonCryptoLib, go to the Software Downloads area of SAP Support Portal and search for CommonCryptoLib in the Support Packages and Patches area.

   For more information, see the Prerequisites section of Support Hub Connectivity Configuration in SAP Solution Manager 7.2 SP05 or Higher.

Your Notes

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Parent topic: Step-by-Step Checklist [page 6]

Previous: Check the Required Kernel Version [page 9]

Next: Check and Adjust the TLS/SSL Protocol Version [page 12]

Related Information

SAP Note 2390726
Fixes in CommonCryptoLib 8.5.7
2.4 Check and Adjust the TLS/SSL Protocol Version

Where: transaction RZ11 | Useful SAP Notes: 510007

The connection to the support backbone requires SSL protocol version TLS1.1 or higher for outbound HTTP connections. TLS versions 1.0, 1.1, and 1.2 are enabled by the `ssl/client_ciphersuites` parameter value.

To communicate properly with the support backbone, make sure that SSL profile parameter `ssl/client_ciphersuites` for outgoing HTTP connections is set correctly. We recommend a value of `150:PFS:HIGH::EC_P256:EC_HIGH` provided that you have implemented the correction instructions and manual activities in SAP Note 2781565. For detailed, expert information, see SAP Note 510007. You can also use the value `918:PFS:HIGH::EC_P256:EC_HIGH` for SAP Solution Manager (in which case, SAP Note 2781565 is not required). However, this will not work with TLS protocol versions above 1.2.

Also make sure that you are using the most recent version of CommonCryptoLib (8.4.31 or higher).

Check

1. Call transaction RZ11 and enter `ssl/client_ciphersuites`.
2. Check that the value of parameter `ssl/client_ciphersuites` is set to `150:PFS:HIGH::EC_P256:EC_HIGH` (unless you have an exceptional use case, in which case refer to the values in SAP Note 510007).

Your Notes

Parent topic: Step-by-Step Checklist [page 6]

Previous: Check and Install CommonCryptoLib [page 10]

Next: Configure and Activate HTTPS/SSL [page 13]
2.5 Configure and Activate HTTPS/SSL

Where: transaction SMICM | Useful SAP Notes: 510007

Check that the communication between your Web browser and your SAP Solution Manager system is handled using the HTTPS protocol.

→ Recommendation

Allow yourself plenty of time to complete this step. It may take a few hours.

The connection to the updated support backbone concerns only ABAP systems, although we recommend that you use HTTPS in your Java systems as well.

Procedure

1. Check whether HTTPS communication is used in your SAP Solution Manager system by calling transaction SMICM and choosing Go to Services. Check whether the HTTPS protocol is listed under Active Services.

   i Note

   If both HTTP and HTTPS are used in your system, consider using HTTPS only.

   If you want to configure the support backbone connection in a sandbox/test environment, HTTPS is not mandatory and this step can be skipped.

2. If an HTTPS connection is not used, see the SAP NetWeaver Security Guide on SAP Help Portal and pay particular attention to the following topics:

   - Transport Layer Security
   - Configuring SAP NetWeaver AS for ABAP to Support SSL
   - Configuring Transport Layer Security on SAP NetWeaver AS for Java

3. After you have configured the HTTPS connection, enter it in SAP Solution Manager Configuration (transaction SOLMAN_SETUP) in the System Preparation scenario. Navigate to the Check Prerequisites step and maintain the activity Check Secure Web Browser Comm. (HTTPS).
2.6 Check the Application Server

Where: system OS

Make sure that the SAP Solution Manager application server can reach a server outside your network (that is to say, check your network access at OS level). In particular, the following servers must be reachable:

- apps.support.sap.com
- documents.support.sap.com
- notesdownloads.sap.com
- servicepoint.sap.com

External access can be managed in any of the following ways:

- The application server has direct access to the Internet via HTTPS
- The application server has indirect access to the Internet via HTTPS and a Web proxy.
- The application server has indirect access to external networks via HTTPS and the SAP proxy “SAProuter”.

For more information, see the guided answer Check All Prerequisites.
2.7 Install SSL Certificates

Where: transaction STRUST  | Useful SAP Notes: 2631190

Context

The following certificates are required for the support backbone:

- VeriSign Class 3 Public Primary Certification Authority - G5
- DigiCert Global Root CA
- DigiCert Global Root G2
- DigiCert High Assurance EV Root CA

Procedure

1. Call transaction STRUST and check that SSL client SSL Client (Standard) and SSL client SSL Client (Anonymous) are correct.
2. Check that the status is green and that all of the above certificates are present for both the anonymous and standard PSEs. If this is the case, no further action is required. Otherwise, proceed with step 3.
3. Download the required certificates from SAP Note 2631190.
4. In transaction STRUST, choose Certificate > Import to add the certificates to SSL client SSL Client (Standard) and SSL client SSL Client (Anonymous).
2.8 Execute Task List SAP_SUPPORT_HUB_CONFIG

Where: transaction STC01 | Useful SAP Notes: 2500061, 2454045

**i Note**

This step is only to be done once for your technical communication user (that is, the technical communication user for your own customer number as a PartnerEdge Sell partner or your SMaaMS scenario).

Task list SAP_SUPPORT_HUB_CONFIG contains a number of tasks, some of which you may have already set up. In this case, you can use the task list to check your setup.

The task list also creates connections SAP-SUPPORT_PORTAL and SAP-SUPPORT_PARCELBOX, which are required for the updated support backbone. Other required connections are created by task list SAP_BASIS_CONFIG_OSS_COMM.

All of the relevant information is provided in the task list itself.

**i Note**

The user and password defined in this task list must be correct. User RFC_OSS is no longer supported for any of the new connections. Make sure that you have the correct users and that they are correctly assigned.

Use your technical communication user only for communication with the support backbone. Do not use it for any other connections. If you try to log in to a system such as SAP ONE Support Launchpad using the technical communication user, you risk locking it.

If you change the password, wait for 30 minutes so that the new password can be propagated to all of the relevant SAP systems. During this time, avoid testing the channels, starting jobs, and uploading data (for example, via LMDB). The technical communication user will be locked after five failed logon attempts.

If your technical communication user does become locked (“SAP service point ping error: 401 Unauthorized”), please see SAP Note 2392726 for instructions on how to unlock it.
Procedure

1. Call transaction STC01.
2. Enter the name of the task list.
3. Run all of the activities described here.
4. Call transaction STC02 to check that the task list ran successfully.

Troubleshooting

For information about changing the technical communication user, password, SAProuter string, or proxy settings for the support backbone, see this guided answer.

<table>
<thead>
<tr>
<th>Issue</th>
<th>Check</th>
</tr>
</thead>
<tbody>
<tr>
<td>The step “Check connectivity and credentials to SAP Support Portal”</td>
<td>See the guided answer at Check if Relevant HTTP Proxy or SAProuter Is Reachable from SAP Solution Manager 7.2.</td>
</tr>
<tr>
<td>fails with the error message SAP portal connection error 404 : Proxy Connection Refused.</td>
<td></td>
</tr>
<tr>
<td>All applications that use a synchronous communication channel return an error message even though configuration was successful.</td>
<td>See the guided answer at Delete the Value in Field Path Prefix in HTTP Destination SAP-SUPPORT_PORTAL and Save the Entry.</td>
</tr>
</tbody>
</table>

Your Notes

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Parent topic: Step-by-Step Checklist [page 6]

Previous task: Install SSL Certificates [page 15]

Next: Execute Task List SAP_BASIS_CONFIG_OSS_COMM [page 20]
2.8.1 Check the SAP-SUPPORT_PORTAL Connection

After you have executed task list `SAP_SUPPORT_HUB_CONFIG`, connection `SAP-SUPPORT_PORTAL` (HTTP Connection to ABAP System) should be fully operational. You can verify this in transaction SM59.

Procedure

1. Call transaction SM59 and open the connection SAP-SUPPORT_PORTAL.
2. Enter the path prefix `/sap/bc/bsp/svt/sapping` and run the connection check.
3. If the check is successful, delete the prefix from the connection and reenter the credentials for the technical communication user.

Troubleshooting

<table>
<thead>
<tr>
<th>Issue</th>
<th>Check</th>
</tr>
</thead>
<tbody>
<tr>
<td>You test destination SAP-SUPPORT_PORTAL or ping the Web service for the asynchronous channel in SOAMANAGER and you get the error 407 Proxy Authentication Required.</td>
<td>See the guided answer at Check the Proxy Settings and Password.</td>
</tr>
<tr>
<td>Although the support hub channels were configured successfully, the connection test for destination SAP-SUPPORT_PORTAL finished with HTTP10_PLG_CANCELED.</td>
<td>See the guided answer at Activate the HTTPS Service.</td>
</tr>
<tr>
<td>Access to target host servicepoint.sap.com fails with the error SAP service point ping error : 404 Connection Refused.</td>
<td>See the guided answer at Ensure That SAProuter String Was Entered and Is Correct.</td>
</tr>
<tr>
<td>When you enter the password for the proxy user, it is automatically converted into uppercase or shown in plain text.</td>
<td>See SAP Note 2525999.</td>
</tr>
<tr>
<td>Issue</td>
<td>Check</td>
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<td>----------------------------------------------------------------------</td>
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</tr>
<tr>
<td>The task Check connectivity and credentials to SAP Support Portal returns the error SAP Support Documents channel ping failed.</td>
<td>See SAP Note 2735772 for assistance.</td>
</tr>
<tr>
<td>Access to target hosts servicepoint.sap.com or apps.support.sap.com fails with the error NIECONN_REFUSED(-10).</td>
<td>See the guided answer at Ensure That SAProuter String Was Entered in STC01.</td>
</tr>
</tbody>
</table>

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2.8.2 Check the SAP-SUPPORT_PARCELBOX Connection

After you have executed task list SAP_SUPPORT_HUB_CONFIG, connection SAP-SUPPORT_PARCELBOX (HTTP Connection to External Serv. [type G]) should be fully operational. You can verify this in transaction SM59.

Procedure

1. Call transaction SM59 and open the connection SAP-SUPPORT_PARCELBOX.
2. Check that the path prefix /parcel/ is entered and run the connection checks.

Your Notes
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2.9 Execute Task List SAP_BASIS_CONFIG_OSS_COMM

Where: transactions STC01, SM59 | Mandatory SAP Notes: 2827658

Task list SAP_BASIS_CONFIG_OSS_COMM contains a number of tasks, some of which you may have already set up. In this case, you can use the task list to check your setup.

The task list also creates connection SAP-SUPPORT_NOTE_DOWNLOAD, which is required for the updated support backbone. Other required connections are created by task list SAP_SUPPORT_HUB_CONFIG.

Note

Make sure that you have implemented SAP Note 2827658 to include this task list in your system.

Make sure that you run the activity Create/Test HTTPS Connections for SAP Services (SM59).

Procedure

1. Call transaction STC01.
2. Enter the name of the task list.
3. Run all of the activities described here.
4. Call transaction STC02 to check that the task list ran successfully.

Troubleshooting

For information about changing the technical communication user, password, SAProuter string, or proxy settings for the support backbone, see this guided answer.

Your Notes

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Parent topic: Step-by-Step Checklist [page 6]
Related Information

SAP Note 2827658
Automated Configuration of new Support Backbone Communication · Update 02

SAP Note 2815061
HTTP Response 404 for Digitally Signed SAP Notes' RFCs

SAP Note 2820957
Destinations SAP-SUPPORT_PARCELBOX and SAP-SUPPORT_NOTE_DOWNLOAD giving error 401 Unauthorized

2.9.1 Check the SAP-SUPPORT_NOTE_DOWNLOAD Connection

After you have executed task list SAP_BASIS_CONFIG_OSS_COM, connection SAP-SUPPORT_NOTE_DOWNLOAD (HTTP Connection to External Serv. [type G]) should be fully operational. You can verify this in transaction SM59.

Procedure

1. Call transaction SM59 and open the connection SAP-SUPPORT_NOTE_DOWNLOAD.
2. Enter the path prefix /note/0040000000874972019 and run the connection check.
3. If the check is successful, delete the prefix from the connection and reenter the credentials for the technical communication user.

Your Notes
2.10 Prepare Note Assistant

Where: transactions SA38, SNOTE | Mandatory SAP Notes: 2576306 | Important SAP Notes: 2537133, 2721941, 2836302

i Note
This section applies only to systems to which you want to download SAP Notes (such as development or quality assurance environments). If you are transporting SAP Notes to your SAP Solution Manager system, this section is not relevant.

With the updated support backbone, downloading SAP Notes no longer uses RFC connection SAPOSS. Instead, the SAP NetWeaver Download Service is used. This service supports the automated download of TCIs (transport-based correction instructions), including any prerequisite SAP Notes to the SAP Note you want to download.

Procedure

To implement the SAP NetWeaver download service, proceed as follows:
1. Configure Note Assistant to use the SAP NetWeaver download service as described in SAP Note 2537133.

2. In your SAP Solution Manager system, execute report RCWB_UNSIGNED_NOTE_CONFIG and select the option Do not download unsigned SAP Note.

Check

Check that Note Assistant connects to the updated support backbone via the download service by running the report Defining Procedure for Downloading SAP Note (RCWB_SNOTE_DWNLD_PROC_CONFIG). Check that the option Download Service Application is selected. If either of the other options is selected, return to the procedure and check your configuration.

i Note
Changing the setting of the radio button in report RCWB_SNOTE_DWNLD_PROC_CONFIG is not sufficient. You must go back to the procedure and set up Note Assistant correctly.

→ Tip
Regardless of which procedure you use to download SAP Notes, you can check the log of the downloaded SAP Note to see whether it is digitally signed. The log also includes the procedure that was used for the download.
2.11 Set Customizing Parameter to Allow for Automatic Customer Number Updates

Where: transaction SM30

In this step, you set a parameter that automatically updates and refreshes any new customer numbers with an S-user assignment from the support backbone.
Procedure

1. Call transaction SM30.
2. Open the view DNOC_USERCFG (Service Desk Customizing) in maintenance mode.
3. Create a new entry using the following data:

   - User Name: <blank>
   - Field Name: AI_SC_GET_NEW_CUSTOMERS
   - Sequence Number: 0
   - Description: <free text>
   - Field Value: X

Your Notes

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Parent topic: Step-by-Step Checklist [page 6]

Previous: Prepare Note Assistant [page 22]

Next: Set Customizing Parameter to Allow for Connection Switch (Old to New) [page 24]

2.12 Set Customizing Parameter to Allow for Connection Switch (Old to New)

Where: transaction SM30

In this step, you configure the parameter that lets you switch from the previous SAPOSS connection to the new connections.
Procedure

1. Call transaction **SM30**.
2. Open the view **DNOC_USERCFG (Service Desk Customizing)** in maintenance mode.
3. Set the field value for field **SAP_INCIDENT_EXCHANGE** to **WBS**.

Your Notes

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Parent topic: Step-by-Step Checklist [page 6]

Previous: Set Customizing Parameter to Allow for Automatic Customer Number Updates [page 23]

Next: Set Customizing Parameter to Allow for One Connection to the Support Backbone [page 25]

2.13 Set Customizing Parameter to Allow for One Connection to the Support Backbone

**Where:** transaction **SM30**

**i Note**

This step is relevant only if you use one destination (synchronous) for all your customer numbers.

In this step, you set up one connection to the support backbone for several customer numbers and remove the previous parameter.

Procedure

1. Add field **ONE_RFC_TO_SAP_FOR_ALL_CUST**:
   1. Call transaction **SM30**.
2. Open the view **DNOC_USERCFG** *(Service Desk Customizing)* in maintenance mode.

3. Set the field value for field **ONE_RFC_TO_SAP_FOR_ALL_CUST** to **X**.
   
   If the field doesn’t exist, create a new entry using the following data:

<table>
<thead>
<tr>
<th>User Name</th>
<th>Field Name</th>
<th>Sequence Number</th>
<th>Description</th>
<th>Field Value</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>ONE_RFC_TO_SAP_FOR_ALL_CUST</strong></td>
<td>1</td>
<td>RFC connection to SAP Support Global Backbone</td>
<td>X</td>
</tr>
</tbody>
</table>

2. Remove field **AI_SC_REFRESH_OSS**:
   
   1. In the same table, select the row containing field **AI_SC_REFRESH_OSS**.
   
   2. Delete the entry and save your changes.

**Your Notes**

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**Parent topic:** [Step-by-Step Checklist](#)

**Previous:** [Set Customizing Parameter to Allow for Connection Switch (Old to New)](#)

**Next:** [Check SAP Customer Numbers](#)

### 2.14 Check SAP Customer Numbers

**Where:** transaction **SM30**

Before you can connect to the support backbone, the relevant customer numbers must be included in the relevant table.

**Note**

If you are a PartnerEdge Sell partner, enter only your own customer number.
If you are an SMaaS provider, enter all of your customers’ numbers.

Procedure

1. Call transaction SM30.
2. Open the view V_AISAPCUSTNOS (SAP Customer Numbers) in maintenance mode.
3. Check that your SAP customer number(s) are maintained correctly.
   The customer name can be empty. It is filled by batch job REFRESH_ADMIN_DATA_FROM_SUPPORT.

Your Notes

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Parent topic: Step-by-Step Checklist [page 6]

Previous: Set Customizing Parameter to Allow for One Connection to the Support Backbone [page 25]

Next: Activate BAdl AI_SDK_SP_RFC_RP [page 27]

2.15 Activate BAdl AI_SDK_SP_RFC_RP

Where: transaction SE19

You will need to send data to cross-customer destinations at SAP. BAdl AI_SDK_SP_RFC_RP activates the general, multiple-customer configuration steps.

Procedure

1. Call transaction SE19.
2. In the Enhancement Implementation field, enter AI_SDK_SP_RFC_RP and click Display.
3. Activate the BAdI.

**Check**

Activating this BAdI enables you to extend table AISUSER in transaction AISUSER. Call this transaction and check that the customer number column is displayed.

**Your Notes**

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**Parent topic:** Step-by-Step Checklist [page 6]

**Previous:** Check SAP Customer Numbers [page 26]

**Next:** Adjust Your User Logon Information for Specific Users [page 28]

## 2.16 Adjust Your User Logon Information for Specific Users

**Where:** transaction AISUSER | **Useful SAP Notes:** 2000132, 2174416

An S-user is a user in the support backbone with actual authorizations and must be assigned to SAP Solution Manager system users in table AISUSER. Specifically, it must be assigned to the following users:

- SOLMAN_BTC
- SOLMAN_ADMIN
- SAPSUPPORT

The assigned system users can then perform specific activities with the support backbone (such as sending an incident to SAP). Table AISUSER contains your S-user, not your technical communication user. The technical communication user is intended only to establish the connection to the support backbone and does not have any authorizations itself.
Procedure

1. Call transaction **AISUSER** and check that the correct contact person (S-user number) is correctly assigned to the users:
   - SOLMAN_BTC
   - SOLMAN_ADMIN
   - SAPSUPPORT

2. If the contact person is incorrect, enter the correct S-user (not the technical communication user).

   **i Note**

   You may need to press [ENTER] twice to correctly add entries to the table.

Check

Check the entries for your dialog users and the S-user assignments in transaction **AISUSER**.

If you require more than one destination for your customers, you must have an entry for each customer number and user. Check that the entries are correctly maintained and that the S-user in the **Contact Person** column belongs to the relevant customer number. This is especially relevant for users who send incidents to SAP. Each user requires a separate entry.

Your Notes

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Parent topic: Step-by-Step Checklist [page 6]

Previous: Activate BAdI AI_SDK_SP_RFC_RP [page 27]

Next: Finalize Support Hub Connectivity [page 30]
Related Information

SAP Note 2000132
Configuring RFC connections to the SAPNet R/3 front end (OSS) correctly

SAP Note 2174416
Creation and activation of users in the Technical Users application

Secure Configuration Security Guide

2.17 Finalize Support Hub Connectivity

Where: transaction SOLMAN_SETUP | Useful SAP Notes: 2722769, 2735772, 2525999, 2880549

“Finalize Support Hub Connectivity” is an automatic activity in SAP Solution Manager Configuration. It creates logical ports and checks whether the communication channels (both synchronous and asynchronous) are operational. Specifically, it creates logical port LP_SISE_SUPPORTHUB for the following consumer proxies:

- CO_SISEHUB_MI_O_AS_PUT_EXTERNA
- CO_SISEHUB_MI_O_S_SHB_GET_EX
- CO_SISEHUB_MI_O_S_SHB_LIST
- CO_SISEHUB_MI_O_S_SHB_REMOVE

Procedure

1. Open SAP Solution Manager Configuration (transaction SOLMAN_SETUP) and navigate to step 3.2 (Support Hub Connectivity) in the System Preparation scenario.
2. Execute the automatic activity Finalize Support Hub Connectivity.

Check

1. Open SOA Management (transaction SOAMANAGER) and click Web Service Configuration.
2. Change the selection filter for the object name from is to contains and search for object names that contain *HUB*.
   The search returns the consumer proxies mentioned above.
3. Click each of the consumer proxies in turn to open their details and ping logical port LP_SISE_SUPPORTHUB by clicking (Ping Web Services).

For more information, see How to Check the Asynchronous Channel.
Troubleshooting

For troubleshooting information, see Error Messages in Task “Check Connectivity and Credentials to SAP Support Portal”.

Your Notes

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Parent topic: Step-by-Step Checklist [page 6]

Previous: Adjust Your User Logon Information for Specific Users [page 28]

Next: Configure Partner/VAR Communication Channels [page 32]

Related Information

SAP Note 2525999
Proxy password converted to upper case and shown in plain text in task list SAP_SUPPORT_HUB_CONFIG

SAP Note 2722769
Use provide parameters to create the ParcelBox communication channel

SAP Note 2735772
SAP Support Documents channel ping failed

SAP Note 2522789
How to check error ‘Web service ping failed for logical port LP_SISE_SUPPORTHUB’ in Solution Manager 7.2 as of SP05

SAP Note 2880549
RFC Connectivity is displayed with red light
2.18 Configure Partner/VAR Communication Channels

Where: transaction SOLMAN_SETUP

In this step, you create all required connections for the new support backbone. The connections that you created earlier (such as SAP-SUPPORT_PORTAL, SAP-SUPPORT_PARCELBOX, or port channels) are copied and assigned to the relevant technical communication user(s). These copied connections are created by the system with the naming convention: SM_SP_<customer number>_*.

You set up the following communication channels:

- SAP-SUPPORT_PORTAL: Destinations in the format SM_SP_<customer number>_H
- Asynchronous: Logical ports in the format SM_SP_<customer number>_H
- SAP-SUPPORT_PARCELBOX: Destination in the format SM_SP_<customer number>_G

Note

If you require only one connection to the support backbone:

If you require only one connection (PartnerEdge Sell partner or CCC), run this activity only once. Transaction SM59 will then contain your original connections and the copied connections with the format SM_SP_<customer number>_*.

If you require multiple connections:

If you require multiple connections to the support backbone (SMaaMS), run this activity for each of your customer numbers.

Procedure

1. Call transaction SOLMAN_SETUP.
2. In the System Preparation scenario, navigate to step 3.2 (Support Hub Connectivity).
3. Select the activity Configure Partner/VAR Communication Channels.

The navigation of this activity links you to a specific activity. The help text for contains the information that you require to complete this step.

Tip

The required user here is the technical communication user from Request a Technical Communication User [page 8].

Check

Call transaction SM59 and check that the new connections are displayed.
Check the naming conventions have been applied correctly:

- **SM_SP_<customer number>_H** for SAP-SUPPORT_PORTAL
- **SM_SP_<customer number>_G** for SAP-SUPPORT_PARCELBOX

Your Notes

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Parent topic: Step-by-Step Checklist [page 6]

Previous: Finalize Support Hub Connectivity [page 30]

Next: Check Jobs Using the New Connections [page 33]

### 2.19 Check Jobs Using the New Connections

**Where:** transaction SM37  |  **Useful SAP Notes:** 2250709, 2525987

User SOLMAN_BTC runs a number of jobs that connect to the support backbone. These are:

<table>
<thead>
<tr>
<th>Job Name</th>
<th>Job Frequency</th>
<th>Relevant for Systems...</th>
</tr>
</thead>
<tbody>
<tr>
<td>REFRESH_ADMIN_DATA_FROM_SUPPORT</td>
<td>Daily</td>
<td>Production only</td>
</tr>
<tr>
<td>SEND_SYSTEM_RELATIONSHIP_TO_SUPPP</td>
<td>Daily</td>
<td>All</td>
</tr>
<tr>
<td>SERVICE_CONNECTION_LISTENER</td>
<td>Every minute</td>
<td>Production only</td>
</tr>
<tr>
<td>SM:AGS_SISE_SUPHUB_OUTBOX_PROCES</td>
<td>Hourly</td>
<td>All</td>
</tr>
<tr>
<td>SM:EXEC SERVICES</td>
<td>Daily</td>
<td>All</td>
</tr>
<tr>
<td>SM:GET_PPMS_DATA_FROM_OSS</td>
<td>Daily</td>
<td>Production only</td>
</tr>
<tr>
<td>SM:GET-CSN_COMPONENTS</td>
<td>Weekly</td>
<td>Production only</td>
</tr>
<tr>
<td>SM:LMDB GENERIC UPLOAD</td>
<td>Hourly</td>
<td>Production only</td>
</tr>
<tr>
<td>Job Name</td>
<td>Job Frequency</td>
<td>Relevant for Systems...</td>
</tr>
<tr>
<td>------------------------------------------------------------------------</td>
<td>---------------</td>
<td>-------------------------</td>
</tr>
<tr>
<td>SM:LONG_FILE_EXT_DOWNLOAD</td>
<td>Weekly</td>
<td>Production only</td>
</tr>
<tr>
<td>SM:RCD_CHECK_UPDATES</td>
<td>Weekly</td>
<td>All</td>
</tr>
<tr>
<td>SM:REFRESH_MESSAGE_STATUS</td>
<td>Hourly</td>
<td>Production only</td>
</tr>
<tr>
<td>SM:SELFDIAGNOSIS</td>
<td>Daily</td>
<td>All</td>
</tr>
<tr>
<td>SM:SELFDIAGNOSIS_SEND_TO_SAP</td>
<td>Monthly</td>
<td>All</td>
</tr>
<tr>
<td>SM:SERVICE_CONNECTION_MIGRAT_P7</td>
<td>Run once only</td>
<td>All</td>
</tr>
<tr>
<td>SM:SERVICE CONTENT UPDATE</td>
<td>Daily</td>
<td>All</td>
</tr>
<tr>
<td>SM:SYNC SAP SESSIONS</td>
<td>Daily</td>
<td>All</td>
</tr>
<tr>
<td>SM:SYNC SERVICE REQUESTS</td>
<td>Hourly</td>
<td>Production only</td>
</tr>
<tr>
<td>SM:SYSTEM RECOMMENDATIONS</td>
<td>Weekly</td>
<td>All</td>
</tr>
<tr>
<td>SM:TOP ISSUE TRANSFER</td>
<td>Daily</td>
<td>Production only</td>
</tr>
<tr>
<td>SM:UPDATE RULES</td>
<td>Daily</td>
<td>All</td>
</tr>
<tr>
<td>SM:UPLOAD SYSTEM DATA</td>
<td>Daily</td>
<td>All</td>
</tr>
</tbody>
</table>

**iNote**

The background job SM:UPLOAD SYSTEM DATA has been deactivated as of January 27, 2020. For more information, see SAP Note [2863831](https://support.sap.com). Tasks that were handled by this job are now handled by job SM:LMDB GENERIC UPLOAD.

The SM:LMDB GENERIC UPLOAD job updates your SAP customer numbers and downloads S-users from the support backbone. This adds the relevant customer numbers and S-users to table AISUSER. We recommend that you regularly check these updates and assign the correct data.

You may also need to schedule report AI_SDK_SP_GENERATE_BP_V2 to enable business partner creation.

Background job SM:REFRESH_RFCDDEST (not listed above) is now completely obsolete (see SAP Note [894279](https://support.sap.com)) and can be deleted (using transaction SM37).

**Procedure**

1. Even though you are using a lower Support Package Stack, update role SAP_SM BATCH as specified in SAP Note [2250709](https://support.sap.com).

**Check**

1. Call transaction SM37 and make sure that there are no errors or references to old destinations in the logs for the jobs mentioned above.
Note that some jobs use legacy destinations (such as SAPPOS) as a fallback if communication with SAP fails using a new destination. The overall status of a job can therefore be misleading, and so we recommend that you check the job logs and not just the overall status of a job in SM37.

2. If a job runs infrequently and a scheduled run hasn't taken place since you migrated your system to the updated support backbone, wait for the first scheduled run to take place and then check your system.

### Troubleshooting

<table>
<thead>
<tr>
<th>Issue</th>
<th>Check</th>
</tr>
</thead>
<tbody>
<tr>
<td>General issues regarding the job log.</td>
<td>See the guided answer at Check the Job Log.</td>
</tr>
<tr>
<td>When you check the response from SAP, the job fails with the message Internal Server Error SRT_CORE 122 or Timeout error (ICM_HTTP_TIMEOUT).</td>
<td>See SAP Note 2525987.</td>
</tr>
<tr>
<td>Logical port LP_SISE_SUPPORTHUB isn't available for proxy class CO_SISEHUB_MI_O_G_SSH_LIST</td>
<td>See SAP Note 2665368.</td>
</tr>
</tbody>
</table>

### Your Notes

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Parent topic: Step-by-Step Checklist [page 6]

Previous: Configure Partner/VAR Communication Channels [page 32]

Next: Update Program in Job SM:REFRESH MESSAGE [page 36]

### Related Information

- SAP Note 2250709: Solution Manager 7.2: End-User Roles and Authorizations Corrections as of SP01 and higher
- SAP Note 2525987: Internal Server Error, SoapFaultCode:5 Server Error or Timeout error (ICM_HTTP_TIMEOUT) in jobs using the asynchronous channel
2.20 Update Program in Job SM:REFRESH MESSAGE

Where: transaction SM37

Job SM:REFRESH MESSAGE contains a program that still refers to the former connection framework. You need to change the program so that it refers to the new connections.

Procedure

1. Call transaction SM37.
2. Enter the job SM:REFRESH MESSAGE.
3. Select the Released checkbox and execute the transaction.
4. On the following screen, check for the released job and select it.
5. From the menu, choose Job > Change.
6. Click Step in the menu bar.
7. On the following screen for the step list overview, click Edit. The step information appears in a popup window.
8. In the step information, enter program AI_CRM_IM_UPDATE_FROM_SAP_WS.

   **Note**
   The previous program was called AI_CRM_IM_UPDATE_FROM_SAP. Make sure that you add _WS to the name.

9. Save your changes.

Your Notes

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Parent topic: Step-by-Step Checklist [page 6]

Previous: Check Jobs Using the New Connections [page 33]

Next: Apply Final Corrections [page 37]
2.21 Apply Final Corrections

After you have completed the upgrade tasks, there are handful of SAP Notes that you must implement and some related activities to work through.

Service Data Control Center (SDCCN) – Universally Relevant (for Example, for SAP EarlyWatch Alert)

If your SAP Solution Manager 7.2 SP 8 system is running together with ST-PI 740 SP11, implement the following SAP Note:

2802999 – SDCCN activation fails without errors or red icons in Migrate tab

Then call transaction SDCCN and check whether the Migrate tab appears. If so, follow the instructions there.

If your SAP Solution Manager 7.2 system is running together with ST-PI 740 SP09 or SP10, see New communication channel to SAP Backbone for transaction SDCCN and follow the instructions for your Support Package.

Also implement SAP Notes 2760811 (Self Diagnosis: Alert 025 gives wrong alert after migrated SDCCN to new Support Hub) and 2744825 (Self-Diagnosis: Alert 211 - Changes for SDCC_OSS Shutdown) to avoid false positives in the SAP Solution Manager Self-Diagnosis framework.

SAP Solution Manager Configuration (SOLMAN_SETUP) – Universally Relevant

Implement the following SAP Note:

• 2886872 – Error in SOLMAN_SETUP: Central Note version unknown

Service Connections

If you are using the Service Connections application (transaction SOLMAN_CONNECT), implement the following SAP Note:

• 2928430 – Open R/3 connection without using SAPOSS

IT Service Management

If you are using IT Service Management (ITSM), implement the following SAP Notes:

• 2781686 – Corrections for the Incident Exchange interface to SAP Backbone
As instructed in this SAP Note, call transaction DNO_CUST04 and create an entry with the field name SAP_INCIDENT_EXCHANGE, sequence number 0, and field value WBS. Also schedule report AI_CRM_IM_UPDATE_FROM_SAP_WS to run instead of AI_CRM_IM_UPDATE_FROM_SAP so that incidents can be exchanged with SAP.

- 2816890 – Authorization Check failed when forwarding Incident to SAP
- 1483276 – Use of Customizing Parameters in DNO_CUST04, AGS_WORK_CUSTOM, and ICT_CUSTOM

This is relevant not only for IT Service Management. Please pay particular attention to parameter SAP_INCIDENT_EXCHANGE.

Related Information

SAP Note 2880999
SAP Backbone connectivity update - Alert 00188 in Self-Diagnosis is no longer valid
Important Disclaimers and Legal Information

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