

S/4H Installation in Azure

SETUP AND CONFIG IN ONE DAY

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Overview

You want to perform a setup of SAP S/4 HANA in Azure. And you do want to do it quick so that you can experience the overall process and get ready for your landscape deployment. If so, this document is for you. This document enables you to perform the setup and configuration of the S/4H in Azure.

In this setup, we used the embedded option of SAP Fiori. *What is embedded option?* Don't worry, we will cover the basics later in this document. This is a *hybrid* mode installation where SAP Application layer runs on Windows and Large Instances on linux operating system.

Yes! You can accomplish this all in less than 1 day. Excited? Let's begin...

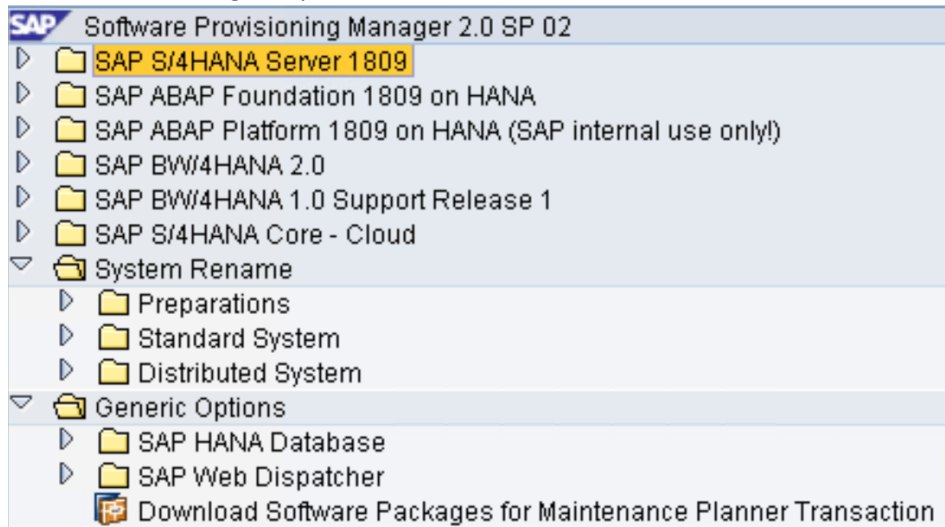
Note!

This document does not replace any of the SAP documentation. In fact, this document complements those SAP documentations like Installation, config, or operations guide.

Key Observations

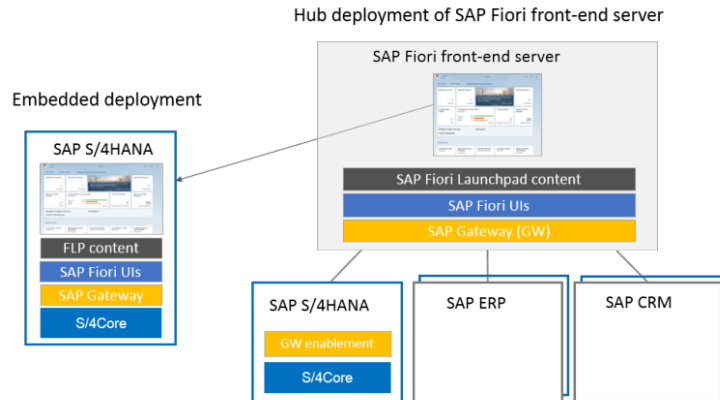
Before we jump to the installation, let's first learn the few concepts/information.

1. You need SWPM2.0 SP2 for S/4H 1809 installation. With SWPM2SP02, you get the option to install the following components



2. You need to download a stack configuration file which you pass to SWPM for the installation. Refer [Generate the stack configuration file](#) for more details.
3. When you install Fiori server on top of S/4H Server, it is done via a SUM. SWPM automatically triggers the SUM (if selected in the SWPM option) to install the Fiori components.
4. STMS is automatically setup by SWPM.
5. You don't extract the .SAR or .ZIP files (except for the SWPM one). SWPM automatically extracts them during its execution.
6. There are two options to install Fiori components with S/4H:
 - a. Embedded: In this case, Fiori components are installed on the S/4H layer.

- b. Hub: In this case, Fiori components are installed on the separate server than the S/4H server.



7. SWPM installs the following product version as part of the installation:

- SAP S/4HANA 1809

And then SUM will install the following add-ons:

- SAP S/4HANA Foundation 1809
- ABAP Platform 1809
- SAP FIORI for SAP S/4HANA 1809
- SAP FIORI FRONT-END Server 5.0

Pre-Requsite

- Virtual Machine is up and running for SAP Application layer
- Virtual Machine is up and running for database layer
- You have read master guide and installation guide from SAP
- You have validated the supported VMs for your workload (OSS note: [1928533](#))
- You have reviewed the [Product Availability Matrix \(PAM\)](#) for your OS, database, and SAP application support
- SAP installation bits are download (Requires an OSS ID)

Setup Detail

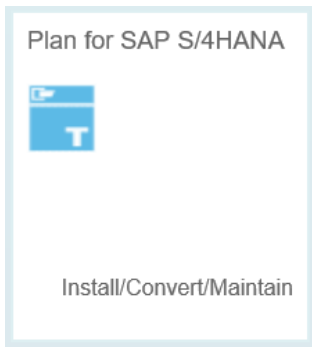
- HANA Database server
 - VM: Standard GS5 (32 vcpus, 448 GB memory)
 - Operating System: SLES for SAP 12 SP3
 - HANA Version: HANA 2 SP3 Rev 33
- Application server
 - VM: Standard DS3 v2 (4 vcpus, 14 GB memory)
 - Operating System: Windows Server 2016 Datacenter
 - S/4H version: 1809

3. Generate the stack configuration file

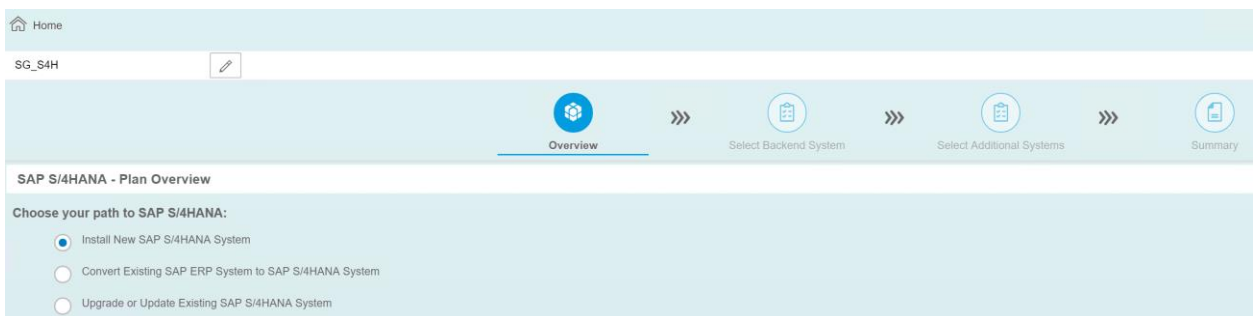
SAP made it easy for installation and to download the bits. You need to generate the stack file. Do you need solution manager? No. Good news is you can generate the stack file from SAP's support portal.

Click [https://apps.support.sap.com/sap\(bD1lbiZiPTAwMQ==\)/support/mp/index.html](https://apps.support.sap.com/sap(bD1lbiZiPTAwMQ==)/support/mp/index.html) (requires OSS credentials). This should open a maintenance planner.

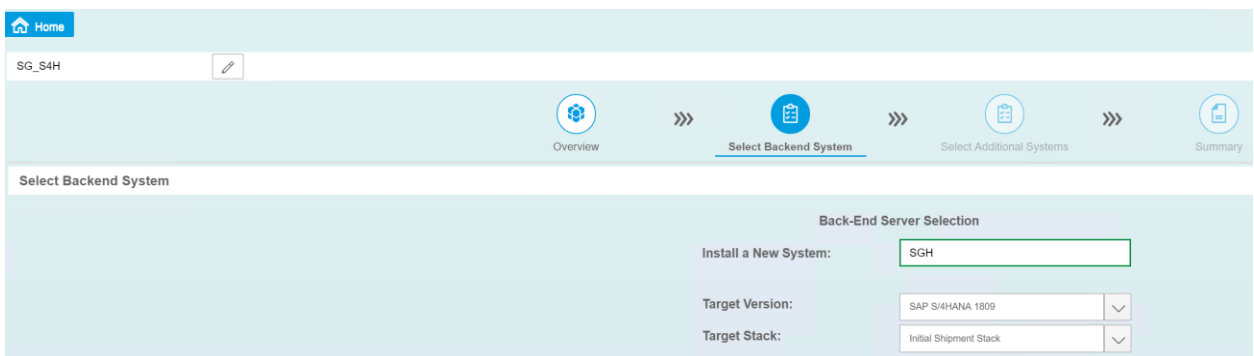
Click "Plan for S4HANA" tile.



Select "Install New SAP S/4HANA System"



Enter SID and select the target version of the S/4H stack



Select frontend server option. In this installation, we chose "Co-deployed with Backend".

Select Additional Systems

Frontend Server Selection

Existing System:

Install a New System:

Co-deployed with Backend: SGH

Target Version:

Target Stack:

Target Product Instances:

- UI for SAP S/4HANA
- UI for HCM (obsolete)
- UI for HCM (Fiori 2.0)
- UI for MDG
- UI for MDG (obsolete)
- UI for TRV
- UI for ILM (obsolete)

Select Underlying SAP NetWeaver:

Target SAP NetWeaver Software Stack:

Review the summary

SG_S4H 1000622881

Overview >>> Select Backend System >>> Select Additional Systems >>> **Summary**

Summary

Installation Preparation Successful

[Click here](#) to show the OS/DB Product Availability Matrix for SAP S/4HANA on premise.

Click "Continue Planning"

SG_S4H 1000622881

Define Change >>> Select Files >>> Download Files >>> Complete

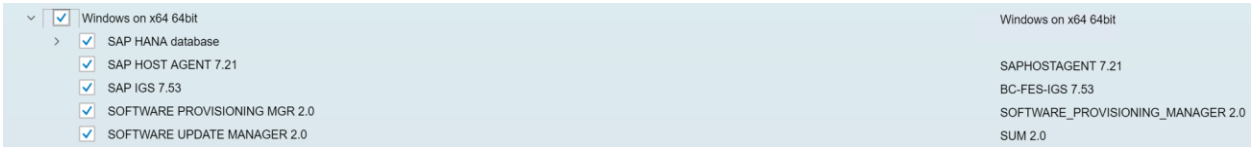
Plan changes on SGH

Hide Target Software Detail

- Install or Maintain an Add-on
- Update SAP NetWeaver
- Plan a Maintenance

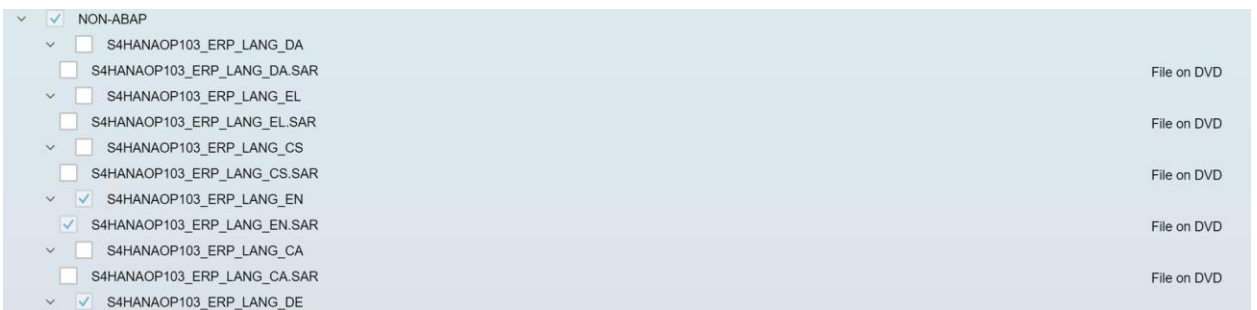
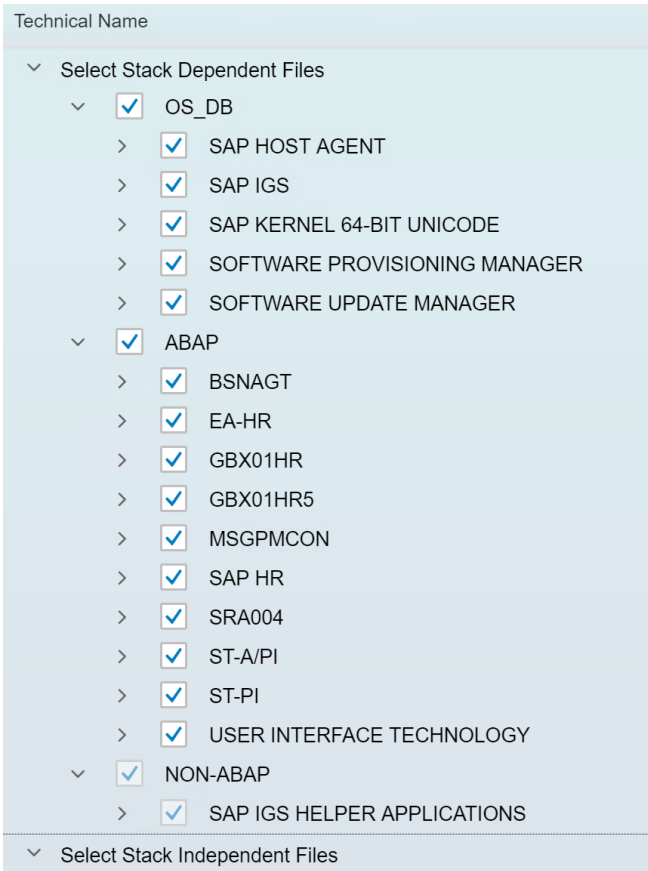
- ✓ SAP FIORI FRONT-END SERVER 5.0 [SPS Initial S...
 - SAP Frontend Server 7.53
- ✓ SAP FIORI FOR SAP S/4HANA 1809 [SPS Initial Shipment Stack]
 - UI for TRV
 - UI for HCM (Fiori 2.0)
 - UI for SAP S/4HANA
 - UI for MDG
- ✓ SAP S/4HANA 1809 [SPS Initial Shipment Stack]
 - SAP S/4HANA Server
- ✓ SAP S/4HANA FOUNDATION 1809 [SPS Initial Shipment Stack]
 - SAP S/4HANA Foundation
- ✓ ABAP PLATFORM 1809 [SPS Initial Shipment Stack]
 - Application Server ABAP

Select the bits.

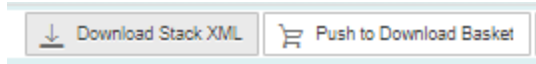


Click “Confirm the selection”

In the following screen, we deselected the all the languages. By default, it will install English (EN) and German (DE).



You can now download the stack configuration file by clicking “Download Stack File”. You also “Push to download basket” and this tool will already push the list of bits to your download basket.



Copy the generated stack file to the application server VM.

4. Download the SAP Installation bits

When you generate the stack file and click the button “Push to download basket button, all the required bits are available in the download basket. Please download them to the application server using the [download manager](#). In this example, I download the bits under F:\SAPbits\S4H_MOPZ.

Once the bits are downloaded, you need to extract the SWPM20SP02_0-70003212.SAR file to get SWPM installer. I extracted the SWPM file at F:\SWPM2SP2. **DO NOT extract any other file**, installer will automatically extract them.

5. Prepare the database host

The above stack file didn’t generate the bits for HANA2SPS03. You need to download them separately.

Once the bits are available, you can install the SAP HANA on the database host.

- Database SID: SGH
- Instance number: 00

```
sa****-s4hdb:/hana/shared/SAP_HANA_DATABASE # ./hdblcm

SAP HANA Lifecycle Management - SAP HANA Database 2.00.036.00.1547699771
*****

Scanning software locations...
Detected components:
  SAP HANA Database (2.00.036.00.1547699771) in /hana/shared/SAP_HANA_DATABASE/server

Choose an action

Index | Action          | Description
-----|-----|-----
1  | install         | Install new system
2  | extract_components | Extract components
3  | Exit (do nothing) |

Enter selected action index [3]: 1

Enter Installation Path [/hana/shared]:
Enter Local Host Name [sa****-s4hdb]:
Do you want to add hosts to the system? (y/n) [n]:
Enter SAP HANA System ID: SGH
Enter Instance Number [00]:
Enter Local Host Worker Group [default]:

Index | System Usage | Description
-----|-----|-----
1  | production   | System is used in a production environment
2  | test         | System is used for testing, not production
3  | development  | System is used for development, not production
4  | custom       | System usage is neither production, test nor development
```

```

Select System Usage / Enter Index [4]: 4
Enter Location of Data Volumes [/hana/data/SGH]:
Enter Location of Log Volumes [/hana/log/SGH]:
Restrict maximum memory allocation? [n]:
Enter Certificate Host Name For Host 'sa****-s4hdb' [sa****-s4hdb]:
Enter SAP Host Agent User (sapadm) Password:
Confirm SAP Host Agent User (sapadm) Password:
Enter System Administrator (sghadm) Password:
Confirm System Administrator (sghadm) Password:
Enter System Administrator Home Directory [/usr/sap/SGH/home]:
Enter System Administrator Login Shell [/bin/sh]:
Enter System Administrator User ID [1001]:
Enter ID of User Group (sapsys) [79]:
Enter System Database User (SYSTEM) Password:
Confirm System Database User (SYSTEM) Password:
Restart system after machine reboot? [n]:

```

Summary before execution:

=====

```

SAP HANA Database System Installation
Installation Parameters
  Remote Execution: ssh
  Database Isolation: low
  Installation Path: /hana/shared
  Local Host Name: sa****-s4hdb
  SAP HANA System ID: SGH
  Instance Number: 00
  Local Host Worker Group: default
  System Usage: custom
  Location of Data Volumes: /hana/data/SGH
  Location of Log Volumes: /hana/log/SGH
  Certificate Host Names: sa****-s4hdb -> sa****-s4hdb
  System Administrator Home Directory: /usr/sap/SGH/home
  System Administrator Login Shell: /bin/sh
  System Administrator User ID: 1001
  ID of User Group (sapsys): 79
Software Components
  SAP HANA Database
    Install version 2.00.036.00.1547699771
    Location: /hana/shared/SAP_HANA_DATABASE/server

```

Do you want to continue? (y/n): y

6. Install the S/4H with Fiori

You begin the installation on SAP application server using the SAPIInst. Here we depicted the standard system installation. However, with standard also, installer can perform all the ABAP instances on the one node except the database instance.

- SAPSID: SGH
- PAS Instance: 00
- ASCS Instance: 01

```

#Command to use
sapinst SAPIINST_STACK_XML=<stack configuration file>
#Example command
F:\SAPbits\SWPM2SP2>sapinst.exe SAPIINST_STACK_XML=f:\SAPbits\SWPM2SP2\MP_Stack.xml

```

Welcome to SAP Installation
Go to the option you want to execute.

Available options

- ▼ Software Provisioning Manager 2.0 SP 02
- ▼ System SGH (SAP S/4HANA 1809)
- ▼ SAP S/4HANA Server 1809
- ▼ SAP HANA Database
- ▼ Installation
- ▼ Application Server ABAP
- ▼ Standard System
- ▼ Distributed System
- ▼ High-Availability System
- ▼ Generic Options

SAP Software Provisioning Manager

Define Parameters » Review Parameters » Execute Service » Service Completed

Parameter Settings
Choose whether you want to run the installation in a typical or a custom mode.

Parameter Settings

Parameter Mode

Typical

Custom

Additional Information
You can run the installation either in a typical or a custom mode:

- Typical Mode**
If you choose *Typical*, the option is performed with default settings. As a result, you only have to respond to a small selection of prompts. If you want to change any of the default settings, you can do so on the *Parameter Summary* screen.
Note that if you choose the *Typical* setting and then choose *Back* after processing one or more input screens, the *Custom* setting is activated. You are now guided through all screens with the default parameters that have been applied in the background so far.
- Custom Mode**
If you choose *Custom*, you are prompted for all parameters. At the end, you can still change any of these parameters on the *Parameter Summary* screen.

Prompts to log off. Installation should start automatically after login. If not, please start using the following command.

```
#Command to use
sapinst SAPINST_STACK_XML=<stack configuration file>
#Example command
F:\SAPbits\SWPM2SP2>sapinst.exe SAPINST_STACK_XML=f:\SAPbits\SWPM2SP2\MP_Stack.xml
```

Define Parameters » Review Parameters » Execute Service » Service Completed

General SAP System Parameters
Enter the system ID and destination drive.





SAP System

*SAP System ID (SAPSID)

Destination Drive

Additional Information

The *SAP System ID* is an identifier for your SAP system. It must be unique throughout your system landscape. The system is installed under <Destination Drive>:\usr\sap<SAPSID>....





DNS Domain Name
Enter the DNS domain name for the SAP system to calculate the fully qualified domain name (FQDN).

SAP System Domain Name

Set FQDN for SAP system

DNS Domain Name for SAP System

Additional Information
The *DNS Domain Name* is used to calculate the Fully Qualified Domain Name (FQDN), which is configured in profile parameter `SAPLOCALHOSTFULL`.





Master Password
Enter the master password for all users.

Master Password
The master password is used for all users that are created. Check the tool help for restrictions and dependencies.

*Password for All Users

*Confirm

Additional Information
If you want to set an individual password for each user, you can do this in the corresponding parameter section on the *Parameter Summary* screen.

Windows Domain
Choose the Windows domain in which you want to create the SAP system accounts.

SAP System User Domain

SAP System ID (SAPSID)

Domain Model

Local Domain
 Domain of Current User
 Different Domain

Windows Domain

Additional Information

- If you want the SAP system to run on one host, you can choose *Local Domain* (local installation).
- If you want the system to be distributed on several hosts, we strongly recommend that you perform a domain installation to avoid authorization problems.
- If you want to install a high-availability system with MSCS, you must perform a domain installation.

To perform a domain installation and have the operating system users created during the installation, you must be a domain administrator. Otherwise, you have to create all operating system users before the installation. For more information about Windows domains, see the Windows documentation.

Operating System Users

Enter the passwords of the operating system users.

SAP System Administrator
 Account: sa -s4happ1sghadm
 *Password of SAP System Administrator
 *Confirm

SAP System Service User
 Account: sa s4happ1SAPServiceSGH
 *Password of SAP System Service User
 *Confirm

At this step you must have database host up and running.

If the host is not reachable, you will get the following error message:

Sa***-s4hdb Unknown hostname: com.sap.db.jdbc.exceptions.JDBCException: SAP DBTech JDBC: Cannot connect to jdbc:sap://sa***-s4hdb:30013 [Unknown host sa***-s4hdb:30013 [sa***-s4hdb], -709].

Database for SAP System

Enter the database parameters.

SAP HANA Database Tenant

*Database Host
 *Instance Number of the SAP HANA Database
 *Database ID (DBSID)
 *Password of the Database System Administrator (User: SYSTEM)

Additional Information
 Enter the Database Host and the Instance Number for your SAP HANA database host. If the instance does not exist, a new database instance will be installed.
 The parameter Database ID (DBSID) is the name of the database tenant and the Password is for its SYSTEM user. If an SAP HANA database is found but the DBSID does not exist, a new database tenant will be created.
Caution: If no active SAP HANA instance is found, a new one will be created. The system id and tenant database will have the name given in the database. The DBSID used for this case must not match the SAPSID used for the SAP System installed or to be installed on the current host.

Define Parameters >>> Review Parameters >>> Execute Service >>> Service Completed

SAP HANA Multitenant Database Containers

Enter the database parameters for the system database.

System Database

Database Host:

Instance Number of the SAP HANA Database:

System Database Name:

*Password of the System Database Administrator (User: SYSTEM):

Additional Information

Enter the password for the SYSTEM user of the System Database (SYSTEM).

Define Parameters >>> Review Parameters >>> Execute Service >>> Service Completed

Software Package Browser

Specify the path to a download folder containing all software packages, or the paths to media locations or to several individual download locations of software packages.

Search Location
Specify the path to an archive, a download folder or a media location as *Package Path*.

Package Path:

Archive Locations

You can download the archives from the following locations on SAP Software Download Center:
SAPXE.SAR (any version supporting your release), OSXE.SAR, OSHELPER.SAR

The table below is updated with all packages detected at the specified *Package Path* when you choose *Next*.
While staying on this screen you can add or adjust paths for required packages by searching other locations. When all archives are specified and you do not wish to make any further adjustments, leave the above *Package Path* empty to continue.

Archive Scanning Information

An information file is written after the archives have been scanned. There you can find detailed information about matching and non matching archive files.
This information file contains only results of the latest archive scan.

Package Name	Individual Package Location	Status
1 SAPXE.SAR (any version supporting your release)		Still missing
2 OSXE.SAR		Still missing
3 OSHELPER.SAR		Still missing
4 SAPXEDE.SAR (matching SAPXE version and Patch)		Still missing

Additional Information

SAP recommends that you use the latest released versions of the required software packages. You can download them either manually from the SAP Software Download Center or - if available - using the Maintenance Planner.
If you have DVDs or Blu-ray media containing the required packages, you can also use them for initial system provisioning and then - if applicable - update the software packages later by using the appropriate tool from the Software Logistics Toolset.

Define Parameters >>> Review Parameters >>> Execute Service >>> Service Completed

Software Package Browser

Specify the path to a download folder containing all software packages, or the paths to media locations or to several individual download locations of software packages.

Search Location
Specify the path to an archive, a download folder or a media location as *Package Path*.

Package Path:

Archive Locations

You can download the archives from the following locations on SAP Software Download Center:
SAPXE.SAR (any version supporting your release), OSXE.SAR, OSHELPER.SAR

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While staying on this screen you can add or adjust paths for required packages by searching other locations. When all archives are specified and you do not wish to make any further adjustments, leave the above *Package Path* empty to continue.

Archive Scanning Information

An information file is written after the archives have been scanned. There you can find detailed information about matching and non matching archive files.
This information file contains only results of the latest archive scan.

Package Name	Individual Package Location	Status
1 SAPXE.SAR (any version supporting your release)	F:\SAP\hdb\NOSP\SAPXE_16-80003882.SAR	Available
2 OSXE.SAR	F:\SAP\hdb\NOSP\OSXE_7-80003241.sar	Available
3 OSHELPER.SAR	F:\SAP\hdb\NOSP\OSHELPER_17-10102045.sar	Available
4 SAPXEDE.SAR (matching SAPXE version and Patch)	F:\SAP\hdb\NOSP\SAPXEDE_16-80003993.SAR	Available

Additional Information

SAP recommends that you use the latest released versions of the required software packages. You can download them either manually from the SAP Software Download Center or - if available - using the Maintenance Planner.
If you have DVDs or Blu-ray media containing the required packages, you can also use them for initial system provisioning and then - if applicable - update the software packages later by using the appropriate tool from the Software Logistics Toolset.

Review the recommendation and adjust as necessary.

Define Parameters » Review Parameters » Execute Service » Service Completed

Saving prerequisite check results...

Prerequisites Checker Results

Read the results of the prerequisite analysis carefully.

Attention

Your host has been checked for compliance with the prerequisites.

- If a condition is not met by your system, we strongly recommend that you fix this before starting the installation.
- In rare cases, you might decide to run the installation although not all prerequisites are met. The installation does not prevent you from doing this, but make sure that you know what you are doing.

Detailed Results

Condition	Result Code	Severity	Message	More Information
Continuous Availability feature	Condition not met	HIGH	Continuous Availability feature on Windows Server 2016 can result in long waiting times. See also SAP Note 1823833 (Updated 2016-30-03)	Not available
Swap Size	Condition not met	MEDIUM	For the selected services at least 20480 MB swap space are recommended. Current value is: 2688 MB. (Updated 2005-06-24)	Click here

Click "NO".

Define Parameters » Review Parameters » Execute Service » Service Completed

Saving prerequisite check results...

Question

Your system does not meet some prerequisites or some prerequisites could not be evaluated.

Make sure that your system meets all conditions prompted by the prerequisite checker before you choose *Yes*. Otherwise the *Prerequisites Checker Results* screen and this message will be displayed again.

If you choose *No*, the prerequisites check is skipped.
Keep in mind that the prerequisite checker does not automatically change any settings.

Do you want to repeat the checks before continuing?

Define Parameters » Review Parameters » Execute Service » Service Completed

Software Package Browser
Specify the path to a download folder containing all software packages, or the paths to media locations or to several individual download locations of software packages.

Search Location
Specify the path to an archive, a download folder or a media location as *Package Path*.

Package Path

Archive Locations
You can download the archives from the following locations on SAP Software Download Center:
SAPHOSTAGENT_SAR_721 (Latest Patch)

The table below is updated with all packages detected at the specified *Package Path* when you choose *Next*.
While staying on this screen you can add or adjust paths for required packages by searching other locations. When all archives are specified and you do not wish to make any further adjustments, leave the above *Package Path* empty to continue.

Archive Scanning Information
An information file is written after the archives have been scanned. There you can find detailed information about matching and non matching archive files.
This information file contains only results of the latest archive scan.

Detected Packages

Package Name	Individual Package Location	Status
1 SAPHOSTAGENT_SAR_721 (Latest Patch)	F:\SAP\pre\S4H_MOP2\SAPHOSTAGENT\40_20090417_SAR	Available

Additional Information
SAP recommends that you use the latest released versions of the required software packages. You can download them either manually from the *SAP Software Download Center* or - if available - using the *Maintenance Planner*.
If you have DVDs or Blu-ray media containing the required packages, you can also use them for initial system provisioning and then - if applicable - update the software packages later by using the appropriate tool from the *Software Logistics Toolkit*.

Define Parameters >>> Review Parameters >>> Execute Service >>> Service Completed

Windows Domain for SAP Host Agent
 Select the Windows domain of the SAP system accounts for the SAP Host Agent.

SAP Host Agent User Domain

SAP System ID (SAPSID)

Domain Model

Local Domain

Domain of Current User

Different Domain

Windows Domain


Define Parameters >>> Review Parameters >>> Execute Service >>> Service Completed

SAP Host Agent Operating System Users
 Enter the passwords of the SAP Host Agent operating system users.


SAP System Administrator
 Account: *sachin-s4haplsapadm*

*Password of SAP System Administrator

*Confirm


»»»

»»»

»»»


SAP HANA Client Software Installation Path

Decide on the client path strategy.

Client Path Strategy





Client Software Path

Local Client Directory
 Central Client Directory

Additional Information

Choose *Local Client Directory* for installing the client locally on each server to `/usr/sap/<SID>/hdbclient`.

Choose *Central Client Directory* to install into a central directory `$DIR_CT_RUN/hdbclient`. In this case `sapcpe` is enabled for the client software. During a restart the instance client is automatically kept up-to-date.


»»

»»

»»


Software Package Browser

Specify the path to a download folder containing all software packages, or the paths to media locations or to several individual download locations of software packages.

Search Location
Specify the path to an archive, a download folder or a media location as **Package Path**.

Package Path:





Archive Locations
You can download the archives from the following locations on SAP Software Download Center:
SAP HANA CLIENT

The table below is updated with all packages detected at the specified **Package Path** when you choose **Next**.
While staying on this screen you can add or adjust paths for required packages by searching other locations. When all archives are specified and you do not wish to make any further adjustments, leave the above **Package Path** empty to continue.

Archive Scanning Information
An information file is written after the archives have been scanned. There you can find detailed information about matching and non matching archive files. This information file contains only results of the latest archive scan.

Package Name	Individual Package Location	Status
1 SAP HANA CLIENT		Still missing

Additional Information
SAP recommends that you use the latest released versions of the required software packages. You can download them either manually from the SAP Software Download Center or - if available - using the Maintenance Planner.
If you have DVDs or Blu-ray media containing the required packages, you can also use them for initial system provisioning and then - if applicable - update the software packages later by using the appropriate tool from the Software Logistics Toolkit.


»»

»»

»»


Software Package Browser

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Search Location
Specify the path to an archive, a download folder or a media location as **Package Path**.

Package Path:

Archive Locations
You can download the archives from the following locations on SAP Software Download Center:
SAP HANA CLIENT

The table below is updated with all packages detected at the specified **Package Path** when you choose **Next**.
While staying on this screen you can add or adjust paths for required packages by searching other locations. When all archives are specified and you do not wish to make any further adjustments, leave the above **Package Path** empty to continue.

Archive Scanning Information
An information file is written after the archives have been scanned. There you can find detailed information about matching and non matching archive files. This information file contains only results of the latest archive scan.

Package Name	Individual Package Location	Status
1 SAP HANA CLIENT	F:\SAP\SO\HANA2\3\HDB_CLIENT20_003_134-80022083.SAR	Available

Additional Information
SAP recommends that you use the latest released versions of the required software packages. You can download them either manually from the SAP Software Download Center or - if available - using the Maintenance Planner.
If you have DVDs or Blu-ray media containing the required packages, you can also use them for initial system provisioning and then - if applicable - update the software packages later by using the appropriate tool from the Software Logistics Toolkit.

Software Package Browser
Specify the path to a download folder containing all software packages, or the paths to media locations or to several individual download locations of software packages.

Search Location
Specify the path to an archive, a download folder or a media location as Package Path.

Package Path:

Archive Locations:

The table below is updated with all packages detected at the specified Package Path when you choose Next.
While staying on this screen you can add or adjust paths for required packages by searching other locations. When all archives are specified and you do not wish to make any further adjustments, leave the above Package Path empty to continue.

Archive Scanning Information
An information file is written after the archives have been scanned. There you can find detailed information about matching and non matching archive files.
This information file contains only results of the latest archive scan.

Detected Packages

Package Name	Individual Package Location	Status
1. SAPHANA1809CORE HANA DB Export 10	F:\SAP\hwsah_MOPZ64CORE103_INST_EXPORT_10.zip	Available
2. SAPHANA1809CORE HANA DB Export 11	F:\SAP\hwsah_MOPZ64CORE103_INST_EXPORT_11.zip	Available
3. SAPHANA1809CORE HANA DB Export 12	F:\SAP\hwsah_MOPZ64CORE103_INST_EXPORT_12.zip	Available
4. SAPHANA1809CORE HANA DB Export 13	F:\SAP\hwsah_MOPZ64CORE103_INST_EXPORT_13.zip	Available
5. SAPHANA1809CORE HANA DB Export 14	F:\SAP\hwsah_MOPZ64CORE103_INST_EXPORT_14.zip	Available
6. SAPHANA1809CORE HANA DB Export 15	F:\SAP\hwsah_MOPZ64CORE103_INST_EXPORT_15.zip	Available
7. SAPHANA1809CORE HANA DB Export 16	F:\SAP\hwsah_MOPZ64CORE103_INST_EXPORT_16.zip	Available
8. SAPHANA1809CORE HANA DB Export 17	F:\SAP\hwsah_MOPZ64CORE103_INST_EXPORT_17.zip	Available
9. SAPHANA1809CORE HANA DB Export 18	F:\SAP\hwsah_MOPZ64CORE103_INST_EXPORT_18.zip	Available
10. SAPHANA1809CORE HANA DB Export 19	F:\SAP\hwsah_MOPZ64CORE103_INST_EXPORT_19.zip	Available
11. SAPHANA1809CORE HANA DB Export 2	F:\SAP\hwsah_MOPZ64CORE103_INST_EXPORT_2.zip	Available
12. SAPHANA1809CORE HANA DB Export 20	F:\SAP\hwsah_MOPZ64CORE103_INST_EXPORT_20.zip	Available
13. SAPHANA1809CORE HANA DB Export 3	F:\SAP\hwsah_MOPZ64CORE103_INST_EXPORT_3.zip	Available
14. SAPHANA1809CORE HANA DB Export 4	F:\SAP\hwsah_MOPZ64CORE103_INST_EXPORT_4.zip	Available
15. SAPHANA1809CORE HANA DB Export 5	F:\SAP\hwsah_MOPZ64CORE103_INST_EXPORT_5.zip	Available
16. SAPHANA1809CORE HANA DB Export 6	F:\SAP\hwsah_MOPZ64CORE103_INST_EXPORT_6.zip	Available
17. SAPHANA1809CORE HANA DB Export 7	F:\SAP\hwsah_MOPZ64CORE103_INST_EXPORT_7.zip	Available
18. SAPHANA1809CORE HANA DB Export 8	F:\SAP\hwsah_MOPZ64CORE103_INST_EXPORT_8.zip	Available
19. SAPHANA1809CORE HANA DB Export 9	F:\SAP\hwsah_MOPZ64CORE103_INST_EXPORT_9.zip	Available

Additional Information
SAP recommends that you use the latest released versions of the required software packages. You can download them either manually from the SAP Software Download Center or - if available - using the Maintenance Planner.
If you have DVDs or Blu-ray media containing the required packages, you can also use them for initial system provisioning and then - if applicable - update the software packages later by using the appropriate tool from the Software Logistics Toolset.

Database Schema
Enter the database schema password.

Database Schema

Database ID:

Database Host:

Instance Number of the SAP HANA Database:

Schema:

Drop Existing Schema

*Schema Password:

*Confirm:

Additional Information
Follow the relevant instructions for your scenario:

- New System Installation**
The schema is already available in the provided installation export media or will be created. Enter the new password.
- Homogeneous System Copy (SAP HANA-Specific Backup / Recovery)**
For an SAP HANA-specific system copy, the schema name must be present in the database backup to be restored. Enter the same password as in the backup. The password is not changed by Software Provisioning Manager.
- System Rename**
Verify that the schema name is the correct one for the system to be renamed and enter the password.

Define Parameters Review Parameters Execute Service Service Completed

Database Schema

Enter the database schema password.

Database Schema

Database ID:

Database Host:

Instance Number of the SAP HANA Database:

Schema:

Drop Existing Schema

*Schema Password:

*Confirm:

Additional Information

Follow the relevant instructions for your scenario:

- New System Installation**
The schema is already available in the provided installation export media or will be created. Enter the new password.
- Homogeneous System Copy (SAP HANA-Specific Backup / Recovery)**
For an SAP HANA-specific system copy, the schema name must be present in the database backup to be restored. Enter the same password as in the backup. The password is not changed by Software Provisioning Manager.
- System Rename**
Verify that the schema name is the correct one for the system to be renamed and enter the password.

SAP HANA Import Parameters

Enter the import parameters.

SAP HANA Import

Import Parameters	Value	Parameter Name	Parameter Value
1. <dbhost>_File	<dbhost>	<dbhost>_media	<dbhost>
2. <dbhost>	<dbhost>	<dbhost>	<dbhost>
3. <dbhost>	<dbhost>	<dbhost>	<dbhost>
4. <dbhost>	<dbhost>	<dbhost>	<dbhost>
5. <dbhost>	<dbhost>	<dbhost>	<dbhost>
6. <dbhost>	<dbhost>	<dbhost>	<dbhost>
7. <dbhost>	<dbhost>	<dbhost>	<dbhost>
8. <dbhost>	<dbhost>	<dbhost>	<dbhost>
9. <dbhost>	<dbhost>	<dbhost>	<dbhost>
10. <dbhost>	<dbhost>	<dbhost>	<dbhost>

Additional Information
If your SAP HANA version supports online change of the parameter <dbhost>, this parameter appears in the Import Parameters table. In this case, the parameter <dbhost> is temporarily set to <dbhost> during the import, which ensures that the log area does not grow unnecessarily. After the import, the parameter <dbhost> is set back to <dbhost>. Therefore you must create a full data backup to ensure that log backups are written again, and that the database can be recovered to the most recent point in time.

Parallel process 19 are sufficient because SAP has got 19 packages for S/4H import (S4Core*.zip).

Define Parameters Review Parameters Execute Service Service Completed

Installation Export

Specify installation export load options and SAPControl connect data.

Installation Export Load Options

*Number of Parallel Jobs:

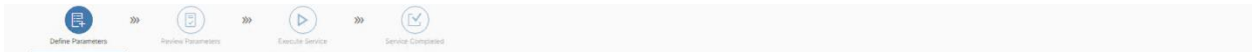
SAP HANA Authentication

*HANA<dbsid>adm:

*Password of HANA<dbsid>adm:

*SAPControl WSDL URL:

Additional Information
In *Number of Parallel Jobs* you can specify the number of concurrent jobs to process the installation export. The password of user *HANA<dbsid>adm* is required to connect to the SAPControl service. The *SAPControl WSDL URL* usually has the following syntax: `http://<dbhost>:5<instance number>13/SAPControl?wsdl`.



Primary Application Server Instance and ABAP Central Services Instance
Enter the required parameters for the primary application server (PAS) instance and for the ABAP central services (ASCS) instance.

PAS and ASCS Instance

The following SAP system instances already exist on this host:

SAP System ID (SAPSID)	Instance Name
	No data

*PAS Instance Number: 00
 *PAS Instance Host: sap****happ
 *ASCS Instance Number: 01
 *ASCS Instance Host Name: sap****happ

Additional Information

The Instance Number and Host Name are technical identifiers for controlling internal processes, such as assigned memory. The Host Name can be either the physical host name or one of the virtual host names. In a High Availability system installation, use a virtual host name for the ASCS instance. The Instance number must be unique for this installation host.



ABAP Message Server Ports and Transport Host

Enter the required message server ports and transport host.

ABAP Message Server Ports

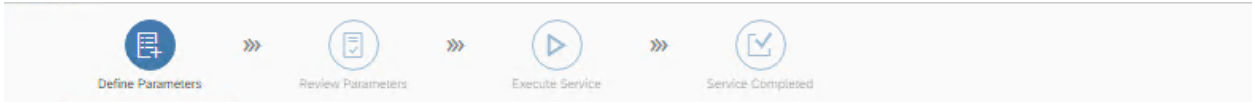
*ABAP Message Server Port: 3601
 *Internal ABAP Message Server Port: 3901

Transport Host

*Host with Transport Directory: sap****s4happ

Additional Information

The instance-specific *Internal ABAP Message Server Port* for internal communication and the *ABAP Message Server Port* are required as unique communication channels. By default, the installer creates the transport directory on the global host (**UNIX**: /usr/sap/trans, **Windows**: \usr\sap\trans). You can also use a transport directory located on a host other than the default host.



ICM User Management for the SAP Web Dispatcher

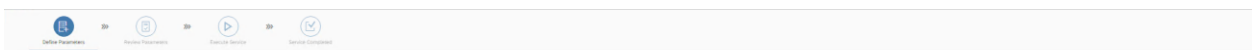
Enter the password for the web administration user 'webadm' used by the SAP Web Dispatcher.

Internet Communication Manager (ICM) User Management

*Password of 'webadm':
 *Confirm:

Additional Information

An administration user *webadm* is created to use the web administration interface for the Internet Communication Manager (ICM) and SAP Web Dispatcher.



SLD Destination for the SAP System OS Level
Enter the destination of the System Landscape Directory (SLD).

Register in System Landscape Directory

SLD destination:
 Use existing SLD for registration
 No SLD destination

Connect Data for Existing SLD

Use HTTP
 SLD Host: _____
 SLD HTTP(S) Port: _____
 SLD Data Supplier User: _____
 Password of SLD Data Supplier User: _____

Additional Information

The System Landscape Directory (SLD) should register the installed software of your entire system landscape. The SLD destination is configured in the file system and can be used by the SAP application server kernel as described in the SAP Notes 1117446 and 1018839. After you have completed this configuration, the sapsstprv data supplier is enabled to send operating system information to the SLD. After installation has finished, you perform the **technical configuration** as described in the installation guide to complete the SLD configuration of the SAP NetWeaver application server.

Define Parameters >>> Review Parameters >>> Execute Service >>> Service Completed

Message Server Access Control List

Specify if you want to have a message server Access Control List (ACL) created.

Message Server Access Control List

Create Message Server Access Control List

Do not create Message Server Access Control List

Additional Information

The ACL is created as a file in the /<sapmnt>/<SAPSID>/global directory. If it exists, it defines the hosts from which the message server accepts requests.

Caution: Only trigger the creation of this file if you do not plan to install any additional instances for this system. With the creation of this ACL, you overwrite existing settings and prevent instances from being installed on additional hosts. If you decide to install an additional instance later, you need to remove this file manually before the installation and create it again after the installation of the additional instance.

For more information about ms/ac_info, see SAP Notes 1495075 and 826779

Define Parameters >>> Review Parameters >>> Execute Service >>> Service Completed

Additional Components to be Included in the ASCS Instance

Choose the additional components you want to have installed in the ASCS instance.

Enable Additional Components

Install an SAP Web Dispatcher integrated in the ASCS instance

Install a Gateway integrated in the ASCS instance

Additional Information

If you choose to install an SAP Web Dispatcher integrated in the ASCS instance, an SAP Web Dispatcher is installed in the ASCS instance. No separate SAP Web Dispatcher instance is created. This is recommended if you want to use the SAP Web Dispatcher for the system to which the ASCS instance belongs.

If you want to install an SAP Web Dispatcher for another system - that is, not the system for which you use the ASCS instance - you can also install SAP Web Dispatcher separately. See the documentation Installation Guide - Installation of SAP Web Dispatcher for SAP Systems Based on SAP Software 7.2 or 7.5 on <OS> at [http://support.sap.com/en/installsystem/instgwd.html](#).

If you choose to install a Gateway integrated in the ASCS instance, a Gateway is installed in the ASCS instance. No separate SAP Gateway instance is created. A Gateway integrated in the ASCS instance is recommended, for example, when you set up a Microsoft Failover Cluster.

If the Gateway is required for other purposes, you can also install a standalone Gateway instance. See the documentation Installation Guide - Installation of Standalone Gateway Instance for SAP Systems Based on SAP Software 7.2 or 7.5 on <OS> at [http://support.sap.com/en/installsystem/instgwd.html](#).

Caution: In Microsoft Failover Cluster installations, do not install a standalone Gateway on cluster nodes. Instead, follow the instructions in SAP Note 119488.

Define Parameters >>> Review Parameters >>> Execute Service >>> Service Completed

Configuring Transport Management for Single System

Decide whether you want to configure the ABAP Transport Management for a single system.

Basic Configuration with Software Provisioning Manager

SAP System ID (SAPSID)

TMS Configuration (for Single System)

Run TMS Configuration (for Single System)

No ABAP TMS Configuration during Installation

TMS Configuration Parameters

Note that any existing configuration settings are overwritten.

Description in Transport Landscape

Transport Domain

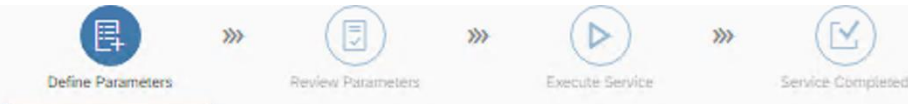
Domain Description

*Password of User TMSADM in Client 000

*Confirm

Additional Information

The ABAP Transport Management System (TMS) must be configured before ABAP correction packages can be applied. You can also run the configuration or even reconfigure the TMS after the installation has finished. If you are planning to later include the SAP system in an existing transport landscape, we recommend that you use the shared *TMSADM Password* of the future *Transport Domain Controller* as this limits the reconfiguration effort.



Import SPAM/SAINT Update

Decide whether you want to import the latest SPAM/SAINT update during the installation.

SPAM/SAINT Update with Software Provisioning Manager

SAP System ID (SAPSID)

SGH

Import SPAM/SAINT Update

Yes

Additional ABAP Transports
Decide whether you want to import further ABAP transports during the installation.

Additional Transports with Software Provisioning Manager

SAP System ID (SAPSID)

Import ABAP Transports

Yes

No

Location of Transports

Directory with Transport Files

Additional Information

All ABAP transports of the provided *Directory with Transport Files* are imported.

SAP recommends that you provide data and cofiles for additional consistency checks using the transport control program (tp) for the import instead of R3trans which would require data files only. Using tp requires choosing *TMS Configuration (Single System)* on screen *Configuring Transport Management as Single System*. Note that additional adjustments are required if subsequent ABAP Support Packages conflict with the same transport objects.

Preparing for the Software Update Manager
Decide if you want to prepare for the Software Update Manager run at the end of the installation.

Basic Preparation of the Software Update Manager

SAP System ID (SAPSID)

Extract the SUM/SAR Archive

SUM Start Parameters

Start SUM automatically

Additional Information

With the Software Update Manager (SUM), you can apply support package stacks at the end of the installation. If you choose *Extract the SUM/SAR Archive*, you are prompted to provide the *sum-
sar* archive in the subsequent *Software Package Browser* screen. The *sum-
sar* archive you provide there is then extracted to the default update directory, which is one of the following, depending on your operating system:

- Windows: `C:\Installation\bin\win\sum\sar\%SID%`
- UNIX and IBM i: `/var/hap/%SID%`

Choose *Start SUM automatically* if you want to have the SUM start called in the default `execdir` when the installation has completed.

To successfully start SUM, SAP recommends using the latest SAP Host Agent patch level. You can still download the latest patch level from SAP Software Download Center and revise your selection of the *sum/sar* archive on the *Parameter Summary* screen.

Software Package Browser
Specify the path to a download folder containing all software packages, or the paths to media locations or to several individual download locations of software packages.

Search Location
Specify the path to an archive, a download folder or a media location as *Package Path*.

Package Path

Archive Locations

You can download the archives from the following locations on SAP Software Download Center:
SUM 2.0

The table below is updated with all packages detected at the specified *Package Path* when you choose *Next*.

While staying on this screen you can add or adjust paths for required packages by searching other locations. When all archives are specified and you do not wish to make any further adjustments, leave the above *Package Path* empty to continue.

Archive Scanning Information

An information file is written after the archives have been scanned. There you can find detailed information about matching and non matching archive files. This information file contains only results of the latest archive scan.

Detected Packages

Package Name	Individual Package Location	Status
1 SUM 2.0	F:\SAP\sum\SAR_MOP2\SUM20SP01_0-80002081.SAR	Available

Additional Information

SAP recommends that you use the latest released versions of the required software packages. You can download them either manually from the *SAP Software Download Center* or - if available - using the *Maintenance Planner*.

If you have DVDs or Blu-ray media containing the required packages, you can also use them for initial system provisioning and then - if applicable - update the software packages later by using the appropriate tool from the *Software Logistics Toolset*.

Additional SAP System Languages
Provide the folders with the additional language archives for the ABAP installation load.

ABAP Languages

Install Additional SAP System Languages

Folders Containing ABAP Language Archives

	Folder
1	

Additional Information
You can install additional languages by providing the paths to one or more folders containing language archives. For example, provide the path to the *Download Basket* generated by the Maintenance Planner - if you are performing an installation using a stack.xml file.

Secure Storage Key Generation
Decide whether you want to generate an individual key for the secure storage of the SAP system.

Secure Storage Individual Key Information

Individual Key (Recommended for Productive Systems)

Default Key

Additional Information
You can choose between using an *Individual Key* for the encryption of confidential data or keeping the *Default key*, which provides obfuscation only.

- New installation from scratch, target system installation for system copy, or system rename:
If you choose *Individual Key (Recommended for Productive Systems)*, you must back up the displayed key in the upcoming message **before** it is used to encrypt the secure storage in the file system.
- New installation from scratch:
The key is also used to encrypt the secure storage in the database.

For more information, see the installation, system copy, system rename guides for SAP systems based on SAP NetWeaver 7.1 and higher ABAP for your operating system platform at: <https://support.sap.com/slttoolset> -> System Provisioning

Parameter Summary
Choose 'Next' to start with the values shown. Otherwise, select the parameters to be changed and choose 'Revise'. You are then taken to the screen where you can change the parameter. You might be guided through other screens that have so far been processed.

Creating account sachin-s4happ1sghadm for system SGH...

Information

Software Update Manager (SUM) has been started. You can connect to SUM, authenticating as user sachin-s4happ1sghadm with URL <http://sachin-s4happ1sghadm:1128/ims/sumabap/SGH/sluigui/> or <https://sachin-s4happ1sghadm:1128/ims/sumabap/SGH/sluigui/>. We recommend that you connect to SUM using the second URL. However, you must first configure SSL before you can use it. No SSL configuration is required to use the first URL.

For more information about support constraints of the SUM UI browser, see the latest SUM guides at <https://support.sap.com/slttoolset>.

At this time, SWPM triggered the SUM (Software update manager) to update the system.

You can monitor the SUM progress at <http://<HostName>:1128/ims/sumabap/SGH/sluigui/>. Please ensure to use <sidadm> user to connect to the SUM URL.

You can click to the SWPM URL and it will proceed to complete it to 100%.

Define Parameters » Review Parameters » Execute Service » **Service Completed**

100%
Execution of Service has been completed successfully.

Information

Execution of
System SGH (SAP S/4HANA 1809) > SAP S/4HANA Server 1809 > SAP HANA Database > Installation > Application Server ABAP > Standard System > Standard System
has completed.

To use SAP Fiori together with SAP S/4HANA, the installation of additional ABAP Add-Ons might be required. For more information, see <http://help.sap.com/s4hana> -> <Release> -> Product Documentation -> UI Technology Guide.
Automate initial system configuration tasks by using the ABAP task manager for lifecycle management automation. For more information, see SAP Note 1923064.

After the installation (while SUM didn't start the updates yet), here is what you see in System Status

System: Status

Usage Data

Client: 000 Previous Logon: 29.01.2019 23:59:17
 User: SAP* Logon: 30.01.2019 00:33:34
 Language: EN System Time: 00:35:12
 Time Zone: CET 01:35:12
 Number of Failed Password Logon Attempts: 1

SAP Data

Repository Data

Transaction: SESSION_MANAGER
 Program (Dynpro): SAPLSMTR_NAVIGATION Dynpro Number: 100
 Program (GUI): SAPLSMTR_NAVIGATION GUI Status: SESSION_ADMIN

SAP System Data

Product Version: SAP S/4HANA 1809
 Installation Number: INITIAL License Expires On: 29.04.2019
 Unicode System: Yes

Host Data

Operating System: Windows NT Server Name: sac... 'happ_SGH_00
 Machine Type: 4x X86_64 Platform ID: 562

Database Data

Database System: HDB Release: 2.00.036.00.1547699771
 Name: SGH/00 Host: sac... 'hdb
 Schema: SAPHANADB User: SAPHANADB
 Owner: SAPHANADB

Installed Software Component Versions

Installed Product Versions

Product	Release	SP Stack	Vendor	Short Description of Product
S4HANA ON PREMISE	1809	Initial Shipment Stack	sap.com	SAP S/4HANA 1809

6.1 Upgrade with SUM

Since we selected the option to automatically start SUM after the SWPM finishes, SWPM started the SUM process.

SAP Software Update Manager 2.0 SP4 (PL0)

HOME

1 Extraction 2 Configuration 3 Checks 4 Preprocessing 5 Execution 6 Postprocessing

0% Process is in dialog state

Current Phase: PREP_EXTRACT/SCAN_DOWNLOADDIR

Process execution in progress

You can monitor the SUM progress at <http://<HostName>:1128/lmsl/sumabap/SGH/sluiGui/>. Please ensure to use <sidadm> user to connect to the SUM URL.

1 Extraction 2 Configuration 3 Checks 4 Preprocessing 5 Execution 6 Postprocessing

0% Process is in dialog state

Current Phase: PREP_EXTRACT/SCAN_DOWNLOADDIR

Welcome to Software Update Manager

Your SAP system is S4H with HED database.
This is SAPup version int_020 build SAPup release int_020 version S3.000.

Download Directory

Enter the path to the download directory.

The download directory can contain the following file types:

- Stack configuration file
- CDTs
- ASAP patch archives, such as support packages or add-ons
- ASAP kernel files for your target SAP system

Note: You can also use shortcuts in the download directory.

*Download Directory:

ERROR: Scanning the download directory failed with the following error:
Dialog cancelled by user

Archive Verification

The SAP archives are signed with digital signatures. Mark the checkbox below if you want to check the authenticity of all the archives in the download directory. In addition, you can download the Certificate Revocation List from <https://its.mysap.com/crt/crtBag.p7s> and provide it in the download directory, if you want to perform an additional check for revoked signatures. For details see the SUM Guide. For more information, see the chapter "Verifying SAP Archives" in section "5. Running the Software Update Manager" of the SUM Guide.

Check the authenticity of SAP archives

Back Next

0% Process is in dialog state

Current Phase: PREP_EXTRACTISCAN_DOWNLOADDIR

Welcome to Software Update Manager

Your SAP system is S/4H with HDB database.
This is SAPup version im_020_build SAPup release im_020 version 53.000.

Download Directory

Enter the path to the download directory.

The download directory can contain the following file types:

- Basic configuration file
- DVDs
- ASAP batch archives, such as support packages or add-ons
- ASAP server files for your target SAP system

Note: You can also use shortcuts in the download directory.

*Download Directory

ERROR: Scanning the download directory failed with the following error:
Dialog cancelled by user

Archive Verification

The SAP archives are signed with digital signatures. Mark the checkbox below if you want to check the authenticity of all the archives in the download directory. In addition, you can download the Certificate Revocation List from <https://tr.s.sap.com/crtcrBag.p7a> and provide it in the download directory, if you want to perform an additional check for revoked signatures. For details see the SUM Guide. For more information, see the chapter "Verifying SAP Archives" in section "5. Running the Software Update Manager" of the SUM Guide.

Check the authenticity of SAP archives

3% Process is in running state

Current Phase: PREP_IMPORT/TOOLIMPD

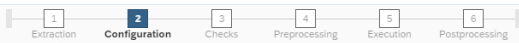
10% Process is in dialog state

Current Phase: PREP_EXTENSION/IS_SELECT

Add-On Selection

Select the add-ons for which you want to change the decision on the target release.

<input type="checkbox"/> Add-On	Source Release	Target Release	Status	Note
<input type="checkbox"/> ECC-SE	803	803	KEEP VERSION	1162517
<input type="checkbox"/> MDG_UX	803	803	KEEP VERSION	632429



100% Process is in dialog state

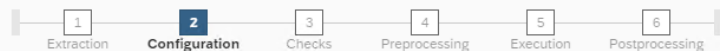
Current Phase: PREP_EXTENSION/BIND_PATCH

Select Support Packages You Want to Include

Select the Support Packages that you want to include:

You need this if the current package level can only be retained with equivalent Support Packages of the target release.

Component	Release	Export Level	Minimum Level	Equivalence Level	Maximum Level	Calculated Level	Target Level
BSNAGT	200	2	2	2			2
EA-DFPS	803	0	0	0			0
EA-HR	608	56	56	56			56
EA-PS	803	0	0	0			0
ECC-SE	803	0	0	0			0
GBX01HR	600	10	10	10			10
GBX01HR5	605	7	7	7			7
IS-PRA	803	0	0	0			0
MDG_APPL	803	0	0	0			0
MDG_FND	803	0	0	0			0
MDG_UX	803	0	0	0			0
MSGPMCON	200	3	3	3			3
S4CORE	103	0	0	0			0
S4FND	103	0	0	0			0
SAP_ABA	750	0	0	0	0		0
SAP_BASIS	753	0	0	0	0		0
SAP_BW	753	0	0	0	0		0
SAP_GWFND	753	0	0	0			0
SAP_HR	608	56	56	56			56
SAP_UI	753	0	2	2			2
SRA004	600	10	10	10			10
ST-API	01T_731	0	0	0			0
ST-PI	740	8	9	9			9
UIAPFI70	600		0	0			0
UIBAS001	400		1	1			1
UIHR002	100		3	3			3
UIMDG001	200		6	6			6
UIS4HOP1	400		0	0			0
UITRV001	200		6	6			6



100% Process is in dialog state

Current Phase: PREP_EXTENSION/BIND_PATCH

Include Change Request

Enter the name of the Customer Change Requests that you want to include into the procedure. Otherwise leave the table empty.

Change Request	Status

1 Extraction 2 **Configuration** 3 Checks 4 Preprocessing 5 Execution 6 Postprocessing

11% **Process is in dialog state**

Current Phase: PREP_INTEGRATION/ADJUSTPRP

Modification Adjustment

The following transport request(s) may be used to automatically adjust your modifications in your system during the procedure. Select one of the proposed transport requests, add your own transport request, or leave it empty in case you do not want to use a request.

To automatically maintain your modifications in your system during the procedure, the program searches in file \\sachin-s4happiaapmt\trans\bin\umodauto.lst for transport requests from previous update runs. The program has not found this file or there is no file that contains a transport for release 753.

SPDD Transport Request
Transport:

SPAU Transport Request
Transport:

If you provide a transport you have the possibility to double check the modifications later in phase ACT_UPG even if all modification transports are completed. Nevertheless, the procedure will stop later in case of incomplete modification transports. Do you want to double check the modifications later in phase ACT_UPG even on success?
 Yes, stop later for double check

Lock the workbench

1 Extraction 2 Configuration 3 Checks 4 **Preprocessing** 5 Execution 6 Postprocessing

17% **Process is in dialog state**

Current Phase: MAIN_INIT/REPACHK_EHPI

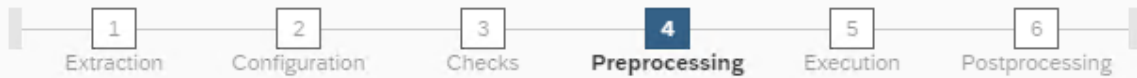
Lock Development Environment

The development environment has to be locked now.

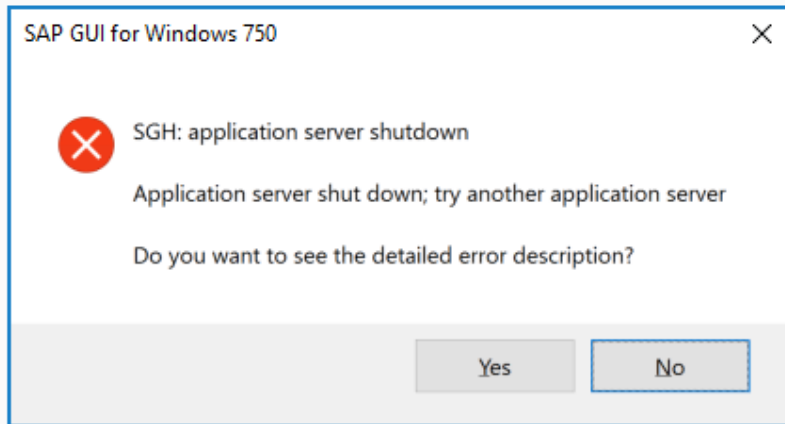
Note: Changing development objects is not possible anymore if the development environment is locked.

Lock the development environment now

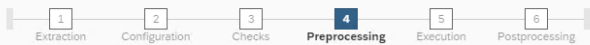
SAP instance is taken down by SUM



23% Process is in running state
Current Phase: MAIN_DTTRANSSHD/STOPSAP_DTTRANS



Take a database backup (SYSTEM and Tenant database)



23% Process is in dialog state
Current Phase: MAIN_DTTRANSSHD/DOWNCONF_DTTRANS_BCK

Backup Request

Your system has been stopped and is ready to enter the downtime.
Back up now the complete update directory including all its subdirectories!

Caution: To restart the update from this point, you must be able to restore the database, the system directory, and the program directory to the current state.

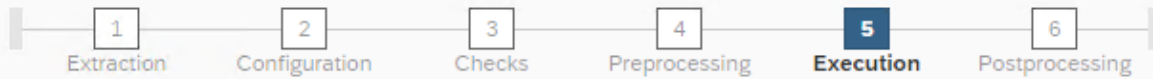
If you have restored the system to this point from a backup, you can also choose to resume production operation. With this option, you can either enter the downtime again later, or you can choose "Reset" to abort the whole procedure.

To reset the whole update now, proceed as follows:

- choose "Resume production operation" and click on "Next"
- wait for a subsequent dialog which indicates that the system is up and running again
- choose "Reset" from the "More" menu and confirm this decision in the upcoming dialog

- Backup completed
 Resume production operation

Back Next



89% Process is in dialog state

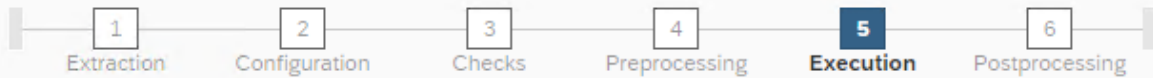
Current Phase: MAIN_UPTRANS/STARTSAP_PUPG

Backup Request

Make a full backup of your database.

Actions completed

Note: The database log mode was enabled. Make a full backup of your database now.



89% Process is in dialog state

Current Phase: MAIN_UPTRANS/UPCONF

End of Downtime

The downtime has finished. The system has been unlocked and is available for post-processing activities.

Please check if manual start or installation activities for secondary application servers need to be performed.



91% Process is in dialog state

Current Phase: MAIN_POSTPROC/REQUPFINAL

Start of Cleanup Processing

The SUM has now reached the clean-up processing step.

As soon as all relevant manual post-processing activities have been finished, the system can be used by all users again.

Feedback to SAP

Evaluation Form

SAP SE's aim is to provide fast and efficient procedures. To evaluate the procedure you just carried out, we need information generated by the tool during process execution and your experience with the tool itself. The below form contains a simple questionnaire and XML data generated during the procedure. The XML data comprises only technical information and statistics about the executed steps as well as the product and system context in which the steps have been carried out. There is no business, personal or other sensitive data included. The questionnaire and the XML data are solely used for improving performance, quality, and behavior of the procedure. Thus, they will not be used for any marketing or sales purposes.

Once your feedback has been analyzed and followed up, your email address (if you decide to provide it to us) will be deleted. If you have specific questions or problems, please report an incident at SAP Service Marketplace.

After having accepted the legal statement below, you will be able to send the questionnaire and the XML data to SAP.

I accept the following:

1. In order for SAP SE to utilize the feedback provided in the questionnaire, I grant to SAP SE a non-exclusive, perpetual, irrevocable, worldwide, royalty-free license, with the right to sublicense to SAP SE's affiliates, licensees and customers, to use, publish, and disclose such feedback in any manner SAP SE chooses and to display, perform, copy, make, have made, use, sell, and otherwise dispose of SAP SE's and its affiliates' or sublicensee's products or services embodying my feedback in any manner and via any media SAP SE chooses, without reference to the source. SAP SE shall be entitled to use my feedback for any purpose without restriction or remuneration of any kind.

2. I agree that SAP SE may use my email address to contact me regarding the information I provided in the questionnaire.

SAP SE (i) will process the email address in Germany and/or Bulgaria and/or India, (ii) only as long as it is required to evaluate the information that I provided in the questionnaire and (iii) will not use my email address for any other purpose. In case you want to have your email address corrected or deleted, please contact lm_analytics@sap.com.

3. I agree not to enter into any free fields of the questionnaire any information which could be a trade secret, personal data (other than my email address), proprietary or otherwise confidential for me, my employer or any third party.

This send button submits the evaluation of your maintenance process and the form below to SAP SE. Please send this to SAP SE even if you do not fill in the form below.

What kind of system did you run the process on?

Development system

Quality system

Production system

Did you run the process on the actual system or a copy of it (i. e. test process)?

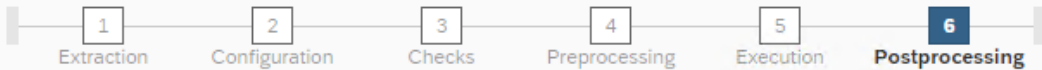
Actual system

Test on copy of the system

How many times did you contact SAP SE for help with your process (customer calls or incidents)?

Did the process downtime meet your expectations?

Yes No



100% Process is in finished state

Software Update Manager

Procedure finished

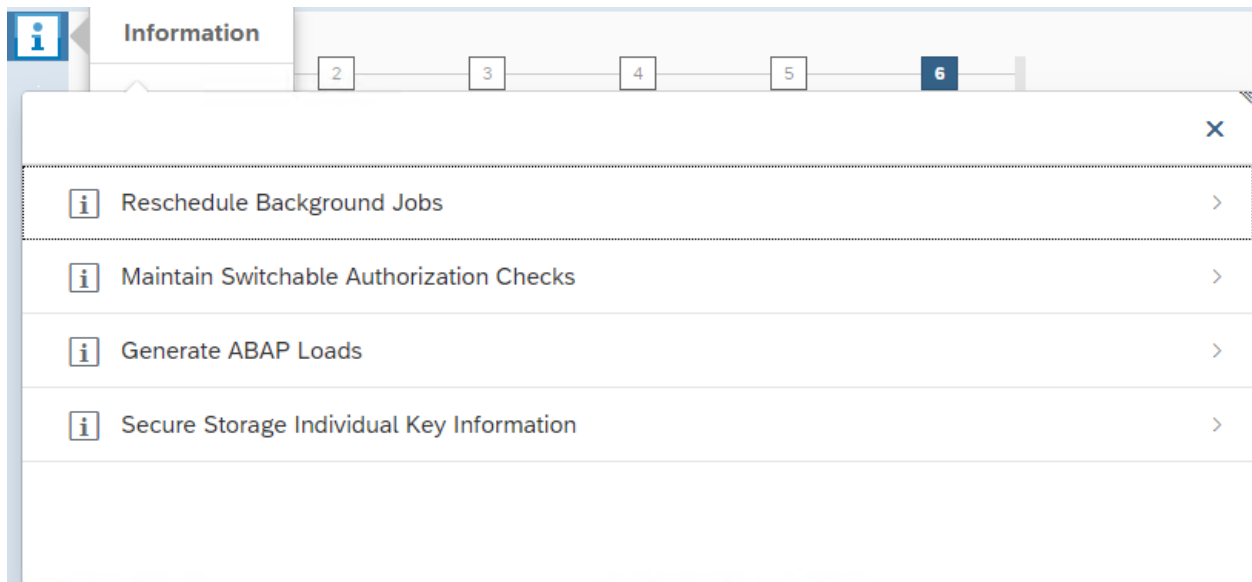
Current status: [No modules selected]

```
*****
*****
***          ***
*  YOUR PROCEDURE IS COMPLETE  *
***          ***
*****
*****
```

Note: You have to perform follow-up activities. For more information, see the SUM Guide.

Choose "Cleanup" from the "More" menu to cleanup the SUM directory. Afterwards you can start the SUM from the beginning.

Perform post upgrade (SUM) activities



In system>Status, you can now see Fiori installed (Along with front end server – remember, we chose embedded option!)



Installed Software

Installed Software Component Versions

Installed Product Versions

The screenshot shows the SAP Installed Product Versions table. The table has a toolbar with icons for search, list, filter, and other actions. The table columns are Product, Release, SP Stack, Vendor, and Short Description of Product Version. The data rows are:

Product	Release	SP Stack	Vendor	Short Description of Product Version
ABAP PLATFORM	1809	Initial Shipment Stac	sap.com	ABAP PLATFORM 1809
SAP FIORI FOR S4HANA	1809	Initial Shipment Stac	sap.com	SAP FIORI FOR SAP S/4HANA 18
SAP FIORI FRONT-END SERVER	5.0	Initial Shipment Stac	sap.com	SAP FIORI FRONT-END SERVER
S4HANA ON PREMISE	1809	Initial Shipment Stac	sap.com	SAP S/4HANA 1809
SAP S/4HANA FOUNDATION	1809	Initial Shipment Stac	sap.com	SAP S/4HANA FOUNDATION 1809

7. Configure the Fiori

Installation is complete, but before you can use Fiori app, you need to configure it.

Run the tasks using transaction `/nSTC01`

1. Execute the task: SAP_GATEWAY_BASIC_CONFIG

Appendix

- [Product availability Matrix](#)
- [SAP Applications on Azure: Supported Products and Azure VM types](#)
- [SAP on Microsoft Azure: Support prerequisites](#)
- [Installation Guide for SAP S/4HANA 1809](#)
- [SAP HANA Server Installation and Update Guide](#)