

Diese Bildschirmfolgen ergänzen das in Abschnitt 15.6.4 beschriebene Update eines S/4HANA Systems von 2021 FPS0 nach 2021 FPS1.

```
h4h:shuadm 55> clear
h4h:shuadm 56> cd /software/s4h2021fp1/
h4h:shuadm 57> SAPCAR -xvf SUM20SP13_1-80002456.SAR -R /usr/sap/SHU/
```

[.....]

```
x SUM/jvm/jre/buildinfo.txt
x SUM/jvm/jre/.hotspot_compiler
SAPCAR: 13500 file(s) extracted
```

```
h4h:shuadm 54> sudo /usr/sap/SHU/SUM/abap/SUMSTART confighostagent
[sudo] password for root:
```

```
**** Restarting SAP Host Agent ****
saphostexec is already running (pid=13487). Stopping...-> Start /usr/sap/hostctrl/exe/saphostexec
pf=/usr/sap/hostctrl/exe/host_profile <-
start hostcontrol using profile /usr/sap/hostctrl/exe/host_profile
**** Host Agent has been restarted ****
**** Host Agent configured, start the UI from the browser now ****
**** You are using SAP Host Agent version: ****
kernel release          722
kernel make variant     722_REL
patch number            53
**** Make sure that you have the latest SAP Host Agent version. See SAP Note 2219592 for more
information ****
```

```
**** SUM ABAP: https://h4h:1129/lmsl/sumabap/SHU/slui ****
**** SUM Observer: https://h4h:1129/lmsl/sumobserver/SHU/monitor/index.html ****
h4h:shuadm 55>
```

SHU: Software Update Manager X



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SHU Software Update Manager 2.0 SP13 (PL1) 

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Get Roadmap


0% - Process is in a dialog

Current Phase: MOD_SELROADMAP/SELECT_ROADMAP
Started at: 2022-03-13 10:15:59

Welcome to the Software Update Manager


SAP Note 3073543 and all further SAP Notes mentioned in it, such as the database-specific SAP Notes, contain important information about the Software Update Manager. Read the current version before you start the preparatory activities and check the SAP Note again for changes before you start the procedure.


Specify the Scenario Category

☒ Scenario using Stack Configuration File 

Enter a valid name and path to the stack configuration file:

*Stack file

/software/s4h2021fp1/MP_Stack_1001394284_20220311_.xml 

☐ No Stack Configuration File required for scenario 

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Update on SAP S/4HANA on Premise (Single System) 

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Get Roadmap

0% - Process is in a dialog

Current Phase: MOD_SELROADMAP/SELECT_ROADMAP
Started at: 2022-03-13 10:15:59

Additional Parameters for "Update on SAP S/4HANA on Premise (Single System)"

Archive Verification

The SAP archives are signed with digital signatures. Activate the checkbox "Check archive authenticity" if you want that the authenticity of all archives in the download directory shall be checked.

The authenticity check requires a valid Certificate Revocation List (CRL) in the download directory. You can download a CRL from <https://tcs.mysap.com/crl/crlbag.p7s>.

For more information about verifying SAP archives (Digital Signature Handling), see the SUM guide.

☒ Check archive authenticity

Expert Mode

☒ Switch expert mode on

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0% - Process is in a dialog

Current Phase: PREP_EXTRACT/SUMASK
Started at: 2022-03-13 10:25:41

Required System Passwords

Password for user "DDIC"

Enter the password for SAP user "DDIC" in client 000:

*User "DDIC" password


••••••••

DB-Specific Password

Enter the password for DB user "SYSTEM":

*DB operator password

••••••••



DB-Specific Password

Enter the password for database user "SAPHANADB":

*DB user password

••••••••

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5% - Process is in a dialog

Current Phase: PREP_CONFIGURATION/DBCHK_MCOD_MULTIDB
Started at: 2022-03-13 10:34:01

MCOD System Detected

WARNING: The Software Update Manager could not determine if your system is an "MCOD" system (Multiple components in one database). This influences the possibility of automatically disabling the archiver before the downtime begins which is not possible in MCOD systems.

Your environment points to database schema SAPHANADB.

The Software Update Manager found the following additional database schemas:

HUBER

SAPSUPPORT

COCKPIT_MONITOR

BC_CALM

ADMIN

MÜLLER

BC_USRSYNC

DEMOUSER2

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5% - Process is in a dialog

Current Phase: PREP_CONFIGURATION/DBCHK_MCOD_MULTIDB
Started at: 2022-03-13 10:34:01

COCKPIT_MONITOR

BC_CALM

ADMIN

MÜLLER

BC_USRSYNC

DEMOUSER2

Make sure that your environment is configured correctly.
Otherwise stop the procedure, fix your settings, and continue.

Is your system configured correctly?

☒ Yes

☐ No

Is more than one system running on this database?

☐ Yes

☒ No

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Current Phase: PREP_CONFIGURATION/INITSUBST
Started at: 2022-03-13 10:35:45

Tool Configuration

☐ Keep database archiving on during the whole procedure

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Current Phase: PREP_CONFIGURATION/INITSUBST
Started at: 2022-03-13 10:35:45

Required Configuration Parameters

The Software Update Manager uses the scenario strategy Single System. Provide further parameters to configure the procedure.

Parallel Processes Configuration

Enter the maximum number of ABAP processes (dialogue and batch) during the update:

*ABAP PROCESSES (UPTIME)

3

*ABAP PROCESSES (DOWNTIME)

4

Enter the maximum number of parallel processes for the execution of SQL commands:

*SQL PROCESSES (UPTIME)

3

*SQL PROCESSES (DOWNTIME)

6

Enter the maximum number of parallel import processes:

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5% - Process is in a dialog

Current Phase: PREP_CONFIGURATION/INITSUBST
Started at: 2022-03-13 10:35:45

*R3LOAD PROCESSES (DOWNTIME)

40

Batch Host Configuration

Select the instance of your system that shall be used as background server:

Note:

- If the host name of the background server differs from the SUM instance host, the path /usr/sap/SHU/SUM/abap must be mounted on the background host.
- If the background server must be shut down during the system downtime, all background jobs start on the SUM application server instance.

Decide whether you want an automated batch job distribution, that is, the system decides where to run the jobs:

☐ Automated batch job distribution

☒ h4h_SHU_01 (8 batchprocesses located)

Decision on SGEN Execution Mode

Choose an execution strategy for the ABAP load generation (transaction SGEN).

☐ Start the ABAP load generation during the update.

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5% - Process is in a dialog

Current Phase: PREP_CONFIGURATION/SUMASK_SPDD_SPAU
Started at: 2022-03-13 10:44:40

Transport Requests for Modification Adjustment

You can use the following transport request(s) 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 Software Update Manager searches in file /usr/sap/trans/bin/umodauto.lst for transport requests from previous update runs. However, this file is either missing, or no file exists at all that contains a transport for release 756.

SPDD Transport Request

SPDD Transport

SPDD Transport

SPAU Transport Request

SPAU Transport

SPAU Transport

If you provide an SPDD/SPAU transport, you can double-check the modifications later on in phase ACT_UPG even if all modification transports are completed. However, the Software Update Manager stops later on in case of incomplete modification transports.

Do you want to double-check the modifications in phase ACT_UPG in any case?

☐ Yes, I want to check the modification transports

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5% - Process is in a dialog

Current Phase: PREP_CONFIGURATION/SUMASK_SINGLE_TRANSPORT_REQUEST
Started at: 2022-03-13 10:45:11

Include Transport Request

In exceptional cases, you can add Single Transport Requests for the target system. This can be useful if you need to integrate SAP Notes on short notice and cannot create a new SPAU transport.

Enter the names of the Single Transport Requests that you want to include into the procedure. Otherwise, leave the table empty.

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Single Transport Request	Status
No data	

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8% - Process stopped with error

An error occurred
Started at: 2022-03-13 10:45:46

Current Status of Roadmap Step "Configuration"

The roadmap step Configuration did not complete successfully.

You cannot continue until the error is corrected.

For more information, see the file [CHECKS.LOG](#). It contains entries of the following types:

- error
- info

Note that the file may list additional manual steps that you must perform to complete the roadmap step and to continue the procedure.

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❗ Missing SAP Notes

SUM-Phase: PREP_CHECKNOTES/CHECK4NOTES_TOOL

Implement the SAP Notes listed below using the Note Assistant to ensure a correct execution of the procedure. You can ignore SAP Notes that are classified by the Note Assistant as "cannot be implemented" or "obsolete".

Missing SAP Notes:

0003108503

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Über Transaktion SNOTE SAP-Hinweis einbauen und Transportauftrag freigeben

SAP-Hinweis Bearbeiten Springen Umgebung System Hilfe

Note Assistant - Home

Suchen SAP-Hinweis herunterladen SAP-Hinweis hochladen TKA hochladen Einstellungen Check Note Assistant Mehr

Nach SAP-Hinweis mit Filterkriterien suchen oder die SAP-Hinweisnummer direkt angeben. Sie können auch Ihren Arbeitsvorrat durchsuchen, der in Register pro Bearbeitungsstatus klassifiziert ist.

Browser

SAP-Hinweisnummer: bis: In: Bez

Suchen in: ☒ Lokales System ☐ Gültige SAP-Hinweise für SAP ONE Support Launchpad

Anwendungskomponente: bis: Release: Bearbeiter:

Softwarekomponente: Bearbeitungsstatus: Einbaustatus: unbestimmter Einbauzustand

Maximale Anzahl der Ergeb: 500

Neue Hinweise Ihre Hinweise in Bearbeitung Inkonsistente Hinweise Ihre favorisierten Hinweise (1) [Ergebn.herunter-/hochladen \(1\)](#)

Herunterladen Alle Protokoll Favorit

Hinweis	Version	Kurztext	Komponente	Status	Einbauzustand	Bearbeiter	SAP-Hinweis-Operation	Favorit
<input checked="" type="checkbox"/>	3108503	2 CREATE TABLE: Ladeeinheit ist für Tabelle mit Datenalterung festgelegt	BC-DB-HDB-POR neu		einbaubar		SAP-Hinweis einbauen	

Die angeforderten Hinweise wurden heruntergeladen

Beenden

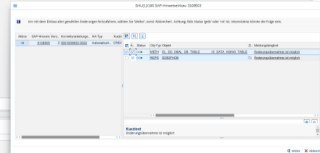


Um mit dem Einbau aller gewählter Änderungen fortzufahren, wählen Sie 'Weiter', sonst 'Abbrechen'. Achtung, falls Status 'gelb' oder 'rot' ist; Inkonsistenz könnte die Folge sein.

Aktion	SAP-Hinweis	Vers...	Korrekturanleitungen...	KA-Typ	Kurztext
→	3108503	2	0001035652 0002	Automatisch...	CREA

Ä...	Status	Obj-Typ	Objekt	Zi...	Meldungslangtext
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	METH	CL DD DBAL DB TABLE	IS DATA AGING TABLE	Änderungsübernahme ist möglich
<input type="checkbox"/>	<input checked="" type="checkbox"/>	REPS	SDB2FHDB		Änderungsübernahme ist möglich

Kurztext
Änderungsübernahme ist möglich



Snipping Tool

Ausschnitt in Zwischenablage kopiert
Wählen Sie diese Option aus, um das Bild zu markieren und freizugeben

Transport Organizer: Aufträge

Workbench-Aufträge mit Beteiligung von HUBER (Stefan Huber)

- 000 SAP AG
 - 100 BP Merged Client SHU
 - > P01.100 Produktivsystem Mandant 100
 - Änderbar
 - SHUK900158 HUBER SUM Hinweis
 - SHUK900159 ✓ HUBER Reparatur
 - Objektliste des Auftrags
 - Attribute des Auftrags
 - > SHU.200 SHU Mandant 200
 - Änderbar
 - SHUK900130 HUBER ZDEMO

Aufgabe SHUK900159 freigegeben an Auftrag SHUK900158

Auffrischen

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10% - Process is in a dialog

Current Phase: PREP_EXTENSION/BIND_PATCH

Started at: 2022-03-13 10:54:58

Select Support Packages That You Want to Include

On this screen you can select the support packages which you want to include into the procedure. For each component, the minimum and the equivalence package levels are shown.

- Minimum Package Level (min):**
This is the minimum package level that must be included to fulfill the requirements for the add-on selection. "none" means that no minimum package level is required for the corresponding component. "unknown" means that the add-on queue calculation has not yet been done successfully and therefore the minimum package level is not known so far.
- Equivalent Package Level (equi):**
This is the package level you need to include to reach the package level that is equivalent to the current package level on the start release. Including less support packages as recommended here, may lead to a partial downgrade - and possibly to a loss of data. "none" means that no packages need to be included for the corresponding component. "unknown" means that the equivalence level has not been determined.
- Maximum Package Level (max):**
This is the package level specified in the stack file. The maximum package level is set for components for which a support package selection is not allowed in the BIND_PATCH phase. If you need or want to add further support packages, you need to restart the update with an updated stack XML file containing the corresponding support packages.
- Target Package Level (target):**
The target package level is the maximum of:
 - the package level that is already installed in the customer system. This will only be set, if the release of the component does not change during the update.
 - the package level that is delivered with the update (service release level).
 - the package level that has already been selected and confirmed by the customer.

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.

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Component	Release	Export Level	Minimum Level	Equivalence Level	Maximum Level	Calculated Level	Target Level	Status

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Current Phase: PREP_EXTENSION/BIND_PATCH

Started at: 2022-03-13 10:54:58

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Component	Release	Export Level	Minimum Level	Equivalence Level	Maximum Level	Calculated Level	Target Level	Status
EA-DFPS	806	0	1	1			<input type="text" value="1"/>	
EA-HR	608	95	100	100			<input type="text" value="100"/>	
EA-PS	806	0	1	1			<input type="text" value="1"/>	
GBX01HR	600	19	19	19			<input type="text" value="19"/>	
GBX01HR5	605	18	20	20			<input type="text" value="20"/>	
IS-PRA	806	0	1	1			<input type="text" value="1"/>	
MDG_APPL	806	0	1	1			<input type="text" value="1"/>	
MDG_FND	806	0	1	1			<input type="text" value="1"/>	
S4CEXT	106	0	1	1			<input type="text" value="1"/>	

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Current Phase: PREP_EXTENSION/BIND_PATCH
Started at: 2022-03-13 10:54:58

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Component	Release	Export Level	Minimum Level	Equivalence Level	Maximum Level	Calculated Level	Target Level	Status
SAP_UI	756	1	2	2			<input type="text" value="2"/>	
ST-A/PI	01U_731	3	3	3			<input type="text" value="3"/>	
ST-PI	740	17	17	17			<input type="text" value="17"/>	
UIAPFI70	900	0	1	1			<input type="text" value="1"/>	
UIBAS001	700	0	1	1			<input type="text" value="1"/>	
UIHR002	100	14	16	16			<input type="text" value="16"/>	
UIMDG001	200	10	11	11			<input type="text" value="11"/>	
UIS4HOP1	700	0	1	1			<input type="text" value="1"/>	
UITRV001	300	6	7	7			<input type="text" value="7"/>	

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12% - Process is in a dialog

Software Update Manager


Current Status of Roadmap Step "Configuration"

The roadmap step Configuration completed successfully. You can continue with roadmap step Checks.


For more information, see the file [CHECKS.LOG](#). It contains entries of type info.

Note that the file may list additional manual steps.


>

 Configuration for Various System Changes

>

 Stack Configuration File Overview

>

 Content of Download Directory

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15% - Process is in a dialog

Current Phase: PREP_GENCHECKS/SPAU_FILL_LEVEL_DEC
Started at: 2022-03-13 12:45:21

Open Actions in Transactions SPDD and SPAU

Open actions in transactions SPDD and SPAU from former upgrades or support package implementations found:

Number of obsolete and non-adjusted SAP Notes:	1
Number of non-adjusted modified objects:	0

Summary of non-adjusted modified objects:

with Modification Assistant:	0
thereof relevant for SPDD:	0
without Modification Assistant:	0
thereof relevant for SPDD:	0

Non-adjusted objects with active version from SAP:

total number:	0
thereof relevant for SPDD:	0

To minimize the effort for modification adjustment, we recommend the following steps:

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16% - Process is in a dialog

Software Update Manager

Current Status of Roadmap Step "Checks"

The roadmap step Checks completed successfully. You can continue with roadmap step Preprocessing.

For more information, see the file [CHECKS.LOG](#). It contains entries of type info.

Note that the file may list additional manual steps.

- 
-  Update SAP Front-End Software

SUM-Phase: PREP_GENCHECKS/REQ_FRONTREQ_PRE

INFO: The front-end software could be updated at any time before or during the update. It should be updated before the start of the shadow instance in phase *START_SHDI_FIRST*.

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17% - Process is in a dialog

Current Phase: MAIN_INIT/REPACHK_EHPI

Started at: 2022-03-13 12:47:04

Lock Development Environment

The development environment must be locked now.

Note: As soon as the development environment is locked, you cannot change development objects anymore.

☒ *Lock the development environment now

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Postprocessing

59% - Process is in a dialog

Current Phase: MAIN_DTTRANS/DOWNCONF_DTTRANS

Started at: 2022-03-13 12:49:52

Preparations for Downtime

The procedure has reached the end of the "Preprocessing" roadmap step.

Carry out now the following actions:

- Stop all production activities
- Ensure that no scheduled batch jobs can start anymore, and await regular completion of currently running jobs
- Make sure that all users have logged out
- Isolate the primary application server instance as described in the SUM guide, section "Isolating the Primary Application Server Instance"

When you confirm below "Actions completed", the system will be stopped and you will be prompted to perform a complete backup.

☒ *Actions completed

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Sicherung der Datenbank oder z.B. Fallback Snapshot erstellen

The screenshot shows the SAP Database Management Cockpit interface. At the top, the browser address bar displays the URL `https://h13.training.local:51026/cockpit#systemstatusnew-show?resid=308881`. The SAP logo and 'Database Management' header are visible. The main section is titled 'H4H' and includes tabs for 'Memory Allocation Limits', 'CPU Allocation Limits', 'Blocklisted Parameters', and 'Restricted Features'. Below this, the 'Overall Status' indicates '2 databases running'. The 'Isolation Level' is 'Low' and the 'Host' is 'h4h.training.local'. A 'Description' field is also present.

The 'Databases (2)' table lists the following databases:






Status	Database Name	Start Time	Alerts	Backup	Used Memory	CPU Usage	Disk Usage	Fall
Running	SYSTEMDB	3/9/22, 11:05 PM		Successful	6GB / 36GB	3% / 100%	1% / 100%	
Running	SHU	3/9/22, 11:05 PM	1	Successful	79GB / 109GB	0% / 100%	41% / 100%	3/13/22, 12:54 PM

A context menu is open for the 'SHU' database, showing the following options:

- Create Fallback Snapshot
- Delete Fallback Snapshot
- Reset Tenant to Fallback Snapshot

The 'SHU' database row also includes a 'Stop' button and a close icon.

Sicherung Dateisystem App-Server (oder z.B. VMWare Snapshot)

H4H |      | AKTIONEN

Übersicht Überwachen Konfigurieren Berechtigungen Datenspeicher Netzwerke **Snapshots** Updates

SNAPSHOT ERSTELLEN

Snapshot erstellen

Name VM-Snapshot 13.3.2022, 12:57:07

Beschreibung sum start downtime

☐ Arbeitsspeicher der virtuellen Maschine einbeziehen

☐ Gast-Dateisystem stilllegen (erfordert VM Tools)

ABBRECHEN ERSTELLEN

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Postprocessing

60% - Process is in a dialog

Current Phase: MAIN_DTTRANS/DOWNCONF_DTTRANS_BCK

Started at: 2022-03-13 12:51:41

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

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Backup completed

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Resume production operation

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Software Update Manager

Current Status of Roadmap Step "Preprocessing"

The roadmap step Preprocessing completed successfully. You can continue with roadmap step Execution.

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Extraction Configuration Checks Preprocessing Execution Postprocessing

86% - Process is running

Current Phase: MAIN_TRANSEXEC/PARMVNT_TRANS_VIEW
Started at: 2022-03-13 17:11:15

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Process execution in progress

Tasklist (Execution)

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Task Type	Status	Description
📎	☐	XCNV_TRLOAD
📎	☐	SQLDB_MARKBASVIEW
📎	☐	PARMVNT_TRVIEW
📎	▶️	PARMVNT_TRANS_VIEW
📎	✕	TABIM_TRANS
📎	✕	BUFFEROP_HANA_DEPLOY
📎	✕	STARTSAP_TRXPRA
📎	✕	SETUPGPARGNOTE_ON_TREXEC
📎	✕	RUN_RUTDDLSCREATE_TRANS
📎	✕	TABIM_POST_TRANS
📎	✕	HANA_DEPLOY_TRANS
📎	✕	SQLDB_MSS_DELETEPERFDATA_TRANS
📎	✕	SQLDB_MSS_FIXMSSPROCS_TRANS
📎	✕	CONVBUFFER_AIMMRG_B2L_TREXEC
📎	✕	LMSEMAPHORE_AIM_ADDPROC_TRANS

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88% - Process is in a dialog

Current Phase: MAIN_UPTRANS/STARTSAP_PUPG

Started at: 2022-03-13 19:35:17

Backup Request

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

☐ *Actions completed

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88% - Process is in a dialog

Current Phase: MAIN_UPTRANS/UPCONF

Started at: 2022-03-13 19:39:06

End of SUM Technical Downtime

The SUM technical downtime has finished. The system is unlocked and available for postprocessing activities.

Check if you must perform manual start or installation activities for additional application servers.

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Software Update Manager

Current Status of Roadmap Step "Execution"

The roadmap step Execution completed successfully. You can continue with roadmap step Postprocessing.

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90% - Process is in a dialog

Current Phase: MAIN_POSTPROC/SUBMOD_SPAU_INFO/SPAUINFO

Started at: 2022-03-13 19:40:40

Adjustment of Modified Repository Objects

No SPAU transport imported

158 development objects that you modified previously in your system SHU have been imported during the update procedure.

Adjust your repository using transaction SPAU to keep your modifications. If you do not want to keep them, reset the affected objects to "SAP original" with transaction SPAU. Use transactions SPAU and SPAU_ENH to check for any open adjustments.

☐

*Continue

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94% - Process is in a dialog

Current Phase: MAIN_POSTPROC/REQ_UP_FINAL

Started at: 2022-03-13 19:41:13

Start of Cleanup Processing

When you choose "Next", the Software Update Manager starts performing cleanup activities in the background. In the meantime, you can carry out the necessary manual post-processing activities.

Note that imports of customer transports and additional software installations are still possible until phase REQ_FINISH_IMPORT, in which you must confirm that such imports are no longer running or being started, or after you reached the EXIT-phase. Imports of this type are then only possible again after the update.

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98% - Process is in a dialog

Current Phase: MAIN_POSTCLEAN/REQ_FINISH_IMPORT

Started at: 2022-03-13 19:42:11

Confirmation Required for Imports

Before you continue, make sure that all imports of customer transports and additional software installations are completed, and that no further imports are started until the end of the procedure.

Imports are only possible again after the update.

☐ *I confirm that no more imports are running.

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100% - Process has finished

Software Update Manager

Procedure Completed

*** ***
* YOUR SUM PROCEDURE IS COMPLETE *
*** ***
***** *****

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

Further Actions:

We kindly ask you to send us the [feedback form](#) for further analysis to achieve further improvements.

We will analyze the collected data from the feedback form and can thus improve the SUM tool and provide tailored downtime minimization recommendations.
For more information, see [SAP Note 2881515](#).

Choose "Cleanup" from the "More" menu to use the Software Update Manager again.

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Reschedule Background Jobs

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- Ausführen SPAU
- System prüfen (Dumps, Systemlog, ...)
- Suspendierung der Jobs aufheben (Report BTCTRNS2)
- System freigeben