

SAP First Guidance

SAP BW 7.x

SAP Realtime Database Platform

SAP First Guidance - SAP BW on HANA Migrate with the database migration option (DMO)

Applicable Releases:

SAP BW 7.0x SP27/SP10

SAP BW 7.3x SP07/SP03

SAP BW 7.40 SP02

and higher

DMO is an option of SUM for combined update and migration including unicode conversion: update an existing SAP system to a higher software release and migrate to SAP HANA database including UC migration.

As the technical SUM steps are the same, this "SAP First Guidance" document should make all customer-specific documentation obsolete. It is the complementary documentation to the existing Notes and SUM/DMO Upgrade Guides.

The document is "work in progress" and it not intended to be exhaustive, although it does contain everything you need to successfully migrate your existing BW System Release 7.0x running on any DB to BW on HANA 7.31 or higher, using the database migration option (DMO) as part of the software update manager (SUM) provided by the SL toolset.

For more Information please contact roland.kramer@sap.com

SAP First Guidance

SAP BW 7.x

SAP Realtime Database Platform

Version 1.82

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Document History

Document Version	Description
1.00	First internal release (only SUM run)
1.10	SAPHostAgent 7.20 enablement, MSSQL for DMO, corrections
1.20	Further Improvements SUM/DMO, updates, corrections
1.30	First external release including DMO and Basis/BW-PCA
1.31	SPUMG, split off ASCS, further additions/corrections
1.40	DMO SP09 update, guide splitted, further additions/corrections
1.42	Further Updates, Additions for Pre/Post Migration Steps for DMO
1.43	Additions/Updates, SP10 usage, SL Monitor App, corrections
1.50	BW 7.40 SP06 as Target, further additions/corrections
1.51	Including 7.30 switch upgrade, further additions/corrections
1.52	Corrections March 2014 - WDEUMH Workshop
1.55	05.2014 BW 7.40 SP07 as Target, further additions/corrections
1.56	06.2014 additions/corrections - WNABWH/WDEUMH Workshops
1.57	iOS7 App removed, SUM SP11 Host agent adaption
1.58	Adding HANA/ABAP Post Steps after DMO, SUM SP12 update for ASE
1.60	SUM/DMO 1.0 SP13, 7.40 SP10 as Target, several updates/additions
1.61	Further corrections for Oracle as Source Database
1.70	New UI5 modus, SUM/DMO 1.0 SP13/SP14 adaption
1.71	Manual BW Pre-and Post-Upgrade and Migration Tasks removed
1.72	Review with Upgrade Development October 2015, adding 7.50
1.73	Update Q1/2016, adding SUM/DMO 1.0 SP16, 7.50 Implications
1.74	Update Q2/2016
1.75	Update Q4/2016
1.79	Update 08/2017
1.82	Update Q3/2020, new SUM/DMO notation

Typographic Conventions

Type Style	Description
<i>Example Text</i>	Words or characters quoted from the screen. These include field names, screen titles, pushbuttons labels, menu names, menu paths, and menu options. Cross-references to other documentation
Example text	Emphasized words or phrases in body text, graphic titles, and table titles
Example text	File and directory names and their paths, messages, names of variables and parameters, source text, and names of installation, upgrade and database tools.
Example text	User entry texts. These are words or characters that you enter in the system exactly as they appear in the documentation.
<Example text>	Variable user entry. Angle brackets indicate that you replace these words and characters with appropriate entries to make entries in the system.
EXAMPLE TEXT	Keys on the keyboard, for example, F2 or ENTER.

Icons





Icon	Description
	Caution
	Note or Important
	Example
	Recommendation or Tip

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1. Database migration option (DMO)

The official SUM/DMO Documentation for SPx, please consult these guides first!

<https://support.sap.com/en/tools/software-logistics-tools.html>

Database Migration Option (DMO) using SUM

Database Migration Option (DMO) with SUM 1.0 SP 23

Combined update and migration to SAP HANA database for target systems below SAP BASIS 7.50

- ✓ [SAP Note 2631098](#) for DMO with SUM 1.0 SP 23
- ✓ [Guides for DMO with SUM 1.0 SP 23](#)
- ✓ [SAP Community information](#) on DMO

Database Migration Option (DMO) with SUM 2.0 SP 04

Combined update and migration to SAP HANA database for target systems targeting SAP BASIS 7.50 and higher

- ✓ [SAP Note 2644872](#) for DMO with SUM 2.0 SP 04
- ✓ [Guides for DMO](#) with SUM 2.0 SP 04
- ✓ [SAP Community information](#) on DMO

Database Migration Option (DMO) with SUM 2.0 SP 04

Combined update and migration to SAP HANA database for target systems targeting SAP BASIS 7.50 and higher

- [SAP Note 2644872](#) for DMO with SUM 2.0 SP 04
- [Guides for DMO](#) with SUM 2.0 SP 04
- [SAP Community information](#) on DMO

Software Update Manager (SUM)

SUM is now offered in two versions. Check [this separate page](#) for more information on SUM.

- ✓ SUM 1.0 for Java stack, dual-stack, and ABAP stack (ABAP with target versions below 7.50)
- ✓ SUM 2.0 for pure ABAP stack and target versions based on 7.50 and above

[Download SUM](#)

near-Zero Downtime Maintenance (nZDM) for Java 1.0 SP 22

Minimize downtime while applying SPs, EHPs, and maintenance on SAP Enterprise Portal, SAP Business Process Management, and SAP Process Orchestration

- ✓ [SAP Note 2638261](#)
- ✓ [Guide for nZDM for Java](#)

[Download nZDM for Java](#)

SPAM/SAINT update 4.6C to 7.53

Apply SPs, install and de-install Add-ons in ABAP

- ✓ [SAP Note 97620](#)
- ✓ [Information on SPAM/SAINT in SAP Help Portal](#)

[Download SPAM/SAINT Update](#)

1.1 Prerequisites

Prepare the SAPHostAgent and SUM/DMO per the following Notes:

[Note 1589311 - Replacements of outdated tools via SL Toolset](#)

[Note 927637 - Web service authentication in sapstartsrv as of Release 7.00](#)

[Note 2284028 - SUM SL Common UI: Troubleshooting problems with the new SUM UI](#)

- run `saphostexec.exe -install` from the extracted SAP Agent 7.21 source directory.
add parameter to the file `/usr/sap/hostctrl/exe/host_profile`
`service/admin_users = dasadm <sid>adm`
- run this option when you upgrade to a newer Version (at least ≥ 148):
`/usr/sap/hostctrl/exe/./saphostexec -upgrade -archive`
`/data/software/SAPHOSTAGENT40_40-20009394.SAR`
- run the command with root user `/usr/sap/<SID>/SUM/abap/SUMSTART confighostagent` to
create the file `sumstart.conf`
`/usr/sap/hostctrl/exe/operations.d/sumstart.conf`



- Always check for the latest Version!

Patch 54 for 7.22 available since October 2021

- Adding additional users working with the UI5 interface by adding user in the following line of the mentioned file:
Name:SUMStart
Authorization:[SID:#required#tolower]adm
Command:/data/sap/HBT/SUM/abap/SUMSTART upgrade
Username: [SID:#required#tolower]adm **dmoadm**
Workdir: /data/sap/HBT/SUM/abap/
ResultConverter: flat
- Optional: Enable SSL for the SAPHostAgent (Port 1129).
http://help.sap.com/saphelp_nw74/helpdata/en/8d/12f7b9244b44219bd14d619d3a2123/content.htm?frameset=/en/f9/50aeeb64604e818b24626d287b63b0/frameset.htm¤t_toc=/en/21/98c443122744efae67c0352033691d/plain.htm&node_id=19
As an alternative, copy the files as fallback from the directory `/usr/sap/<SID>/DVEBMGS<nr>/sec`
to `/usr/sap/hostctrl/exe/sec`

- Restart the SAPHostAgent
`/usr/sap/hostctrl/exe/>>./saphostexec -restart`
- To reset or check the DMO procedure, use the following step-by-step procedure:
 - Start SAPup in scroll mode
`cd /usr/sap/<SID>/SUM/abap/bin`
`./SAPup <option> gt=scroll` (httpserver0/set allpwd/set procpa)
2) Choose the option "Back"
Back
Exit
Cleanup and start fresh.
[Exit]: 01
- To reset the Upgrade/DMO process run (replaces the old ABAP Report `upgreset`)
[Note 1790486 - SAP_ABA is in an undefined state that is not safe to be upgraded](#)
`cd /usr/sap/<SID>/SUM/abap/bin`
`./SAPup reset prepare`
delete the directory `/usr/sap/<SID>/SUM/` and start from scratch with the SUM sar file unpack.
- Changing Process Parameters during runtime using UI browser access:
`./SAPup set procpa gt=scroll`
- Additional DMO/SUM options can be maintained in the file
`/usr/sap/<SID>/SUM/bin/SAPup_add.par`
`/ORA/update_spacestat = 0`
- To enable a SUM with DMO run for the migration only scenario, add to file `SAPup_add.par` the following line, before you start the Software Update Manager:
`migration_only = 1`

<http://scn.sap.com/community/bw-hana/blog/2015/03/17/dmo-optimizing-system-downtime>

Please refer always to the official DMO/SUM guide for details.

2. DMO - Conceptual Overview

DMO in a Nutshell

Scenario:

- You want to migrate your existing SAP ABAP system to the SAP HANA database
- Your SAP release needs to be upgraded prior to migration

Use the database migration option (DMO) of the Software Update Manager (SUM); it combines SAP upgrade and database migration to SAP HANA in one tool!

Benefits:

- Migration steps are simplified
- System update, Unicode Conversion, and database migration are combined in one tool
- Business downtime is reduced
- The source database remains consistent, so a fast fallback is possible

DMO general introduction - <http://scn.sap.com/docs/DOC-49580>

SUM/DMO technical runtime consideration

Depending on the Start and Target Release, the technical procedure for the upgrade part is partly different.

While the release change from 7.30 to 7.40 is a technical upgrade (as type of an exchange upgrade), the release change from 7.0x to 7.40 is and EHP installation/upgrade which includes much more packages and intensive and time-consuming additional phases, which not be seen during the so called "switch upgrade" to 7.40. Despite the technical upgrade procedure, from a SAP BW application stand point everything is counted as an upgrade, which means application specific pre/post upgrade steps maintained by the Upgrade task lists and/or the ASU toolbox.

DMO technical background

[DMO: technical background](#)

[DMO: optimizing system downtime...](#)

[DMO: comparing pipe and file mode for R3load](#)

[SUM: introduction to shadow system](#)

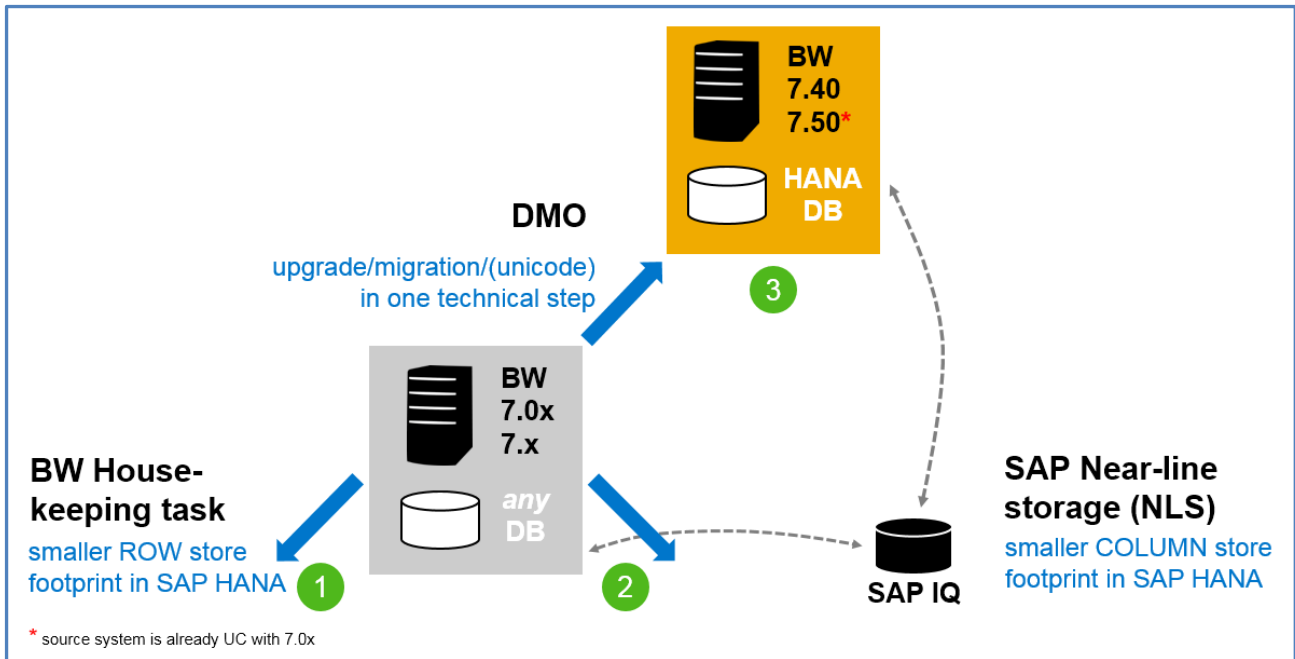
[Optimizing DMO Performance](#)

SUM: SL Common UI available with SP12

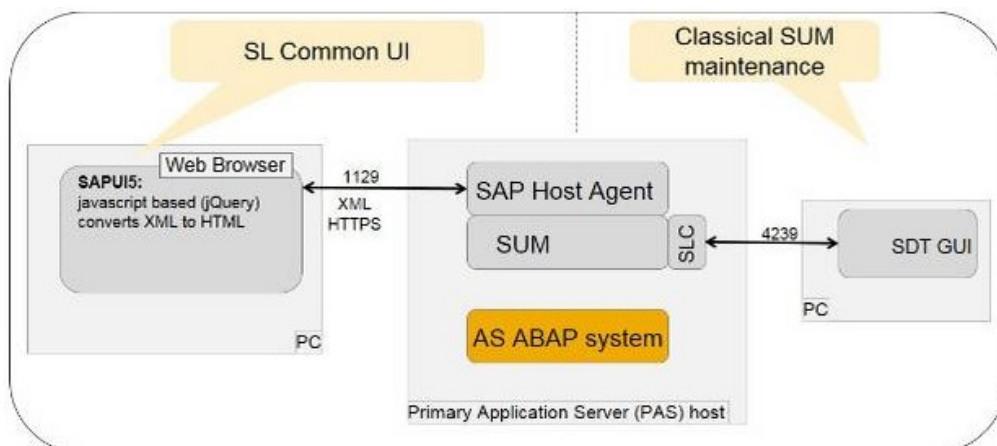
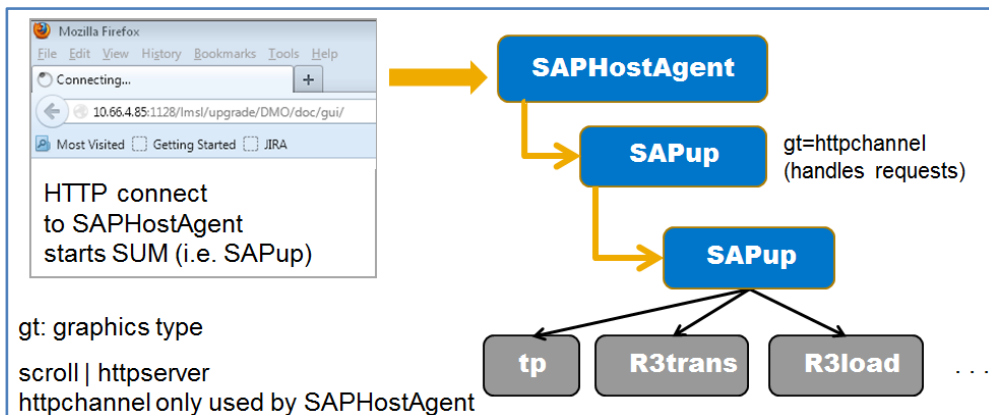
[SUM: New SL Common UI available for AS ABAP scenarios](#)

[SUM: Upgrade was never being easier ...](#)

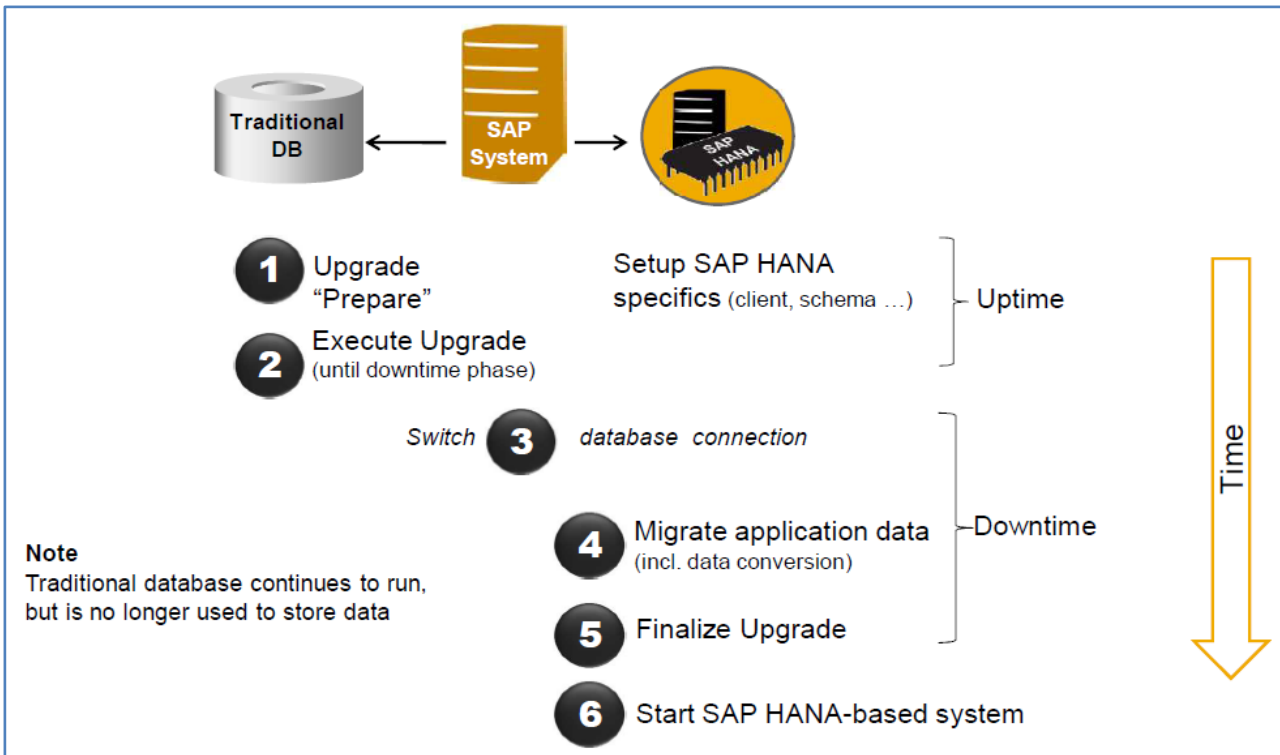
DMO in Interaction with SAP-NLS



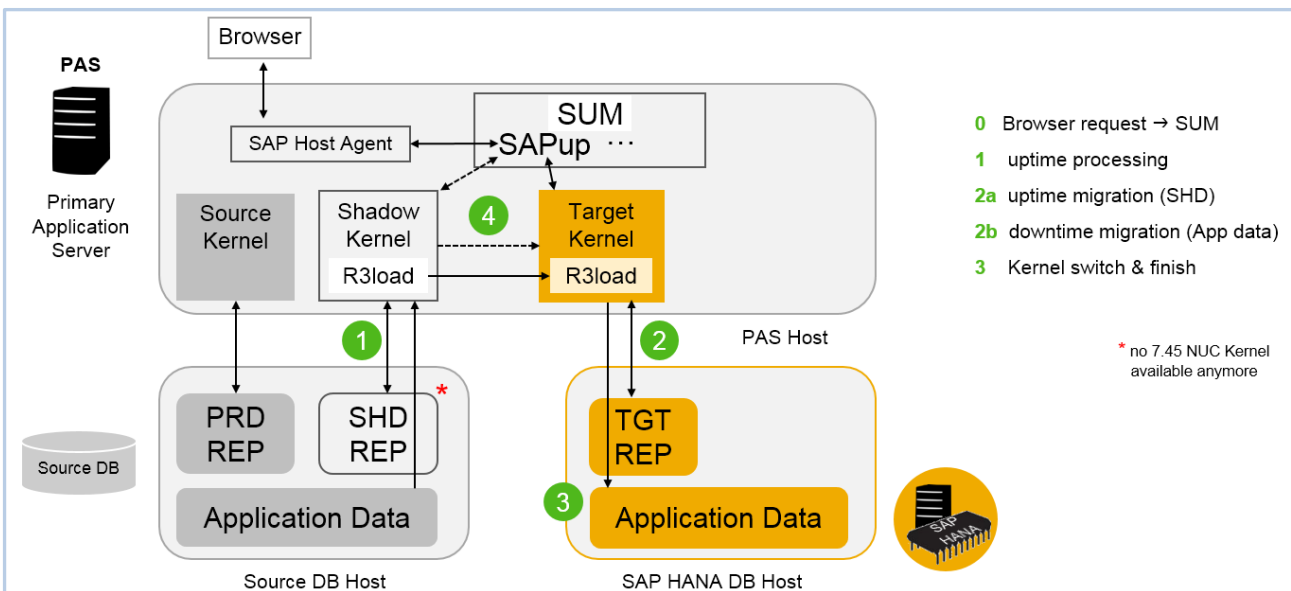
DMO in Interaction with the New SAPHostAgent



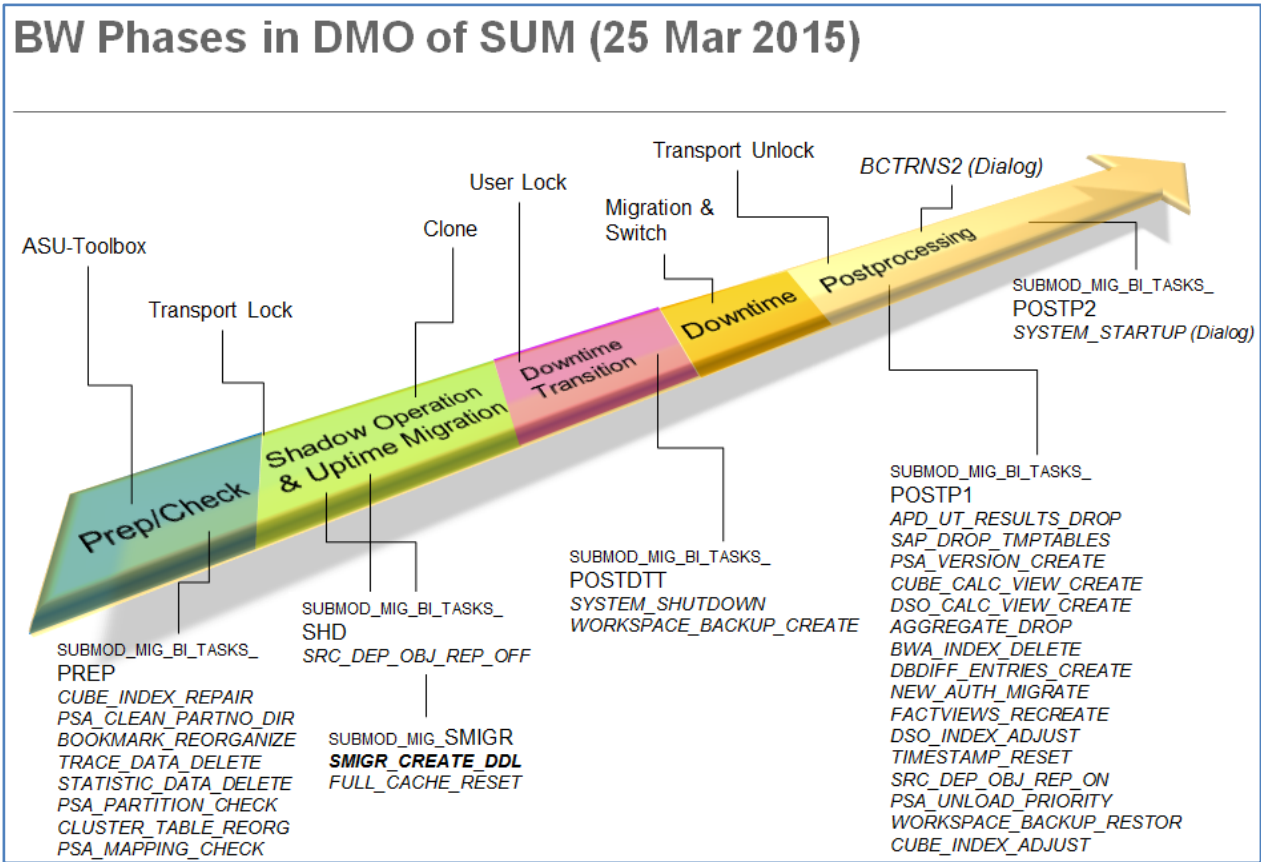
DMO Milestones during the Procedure



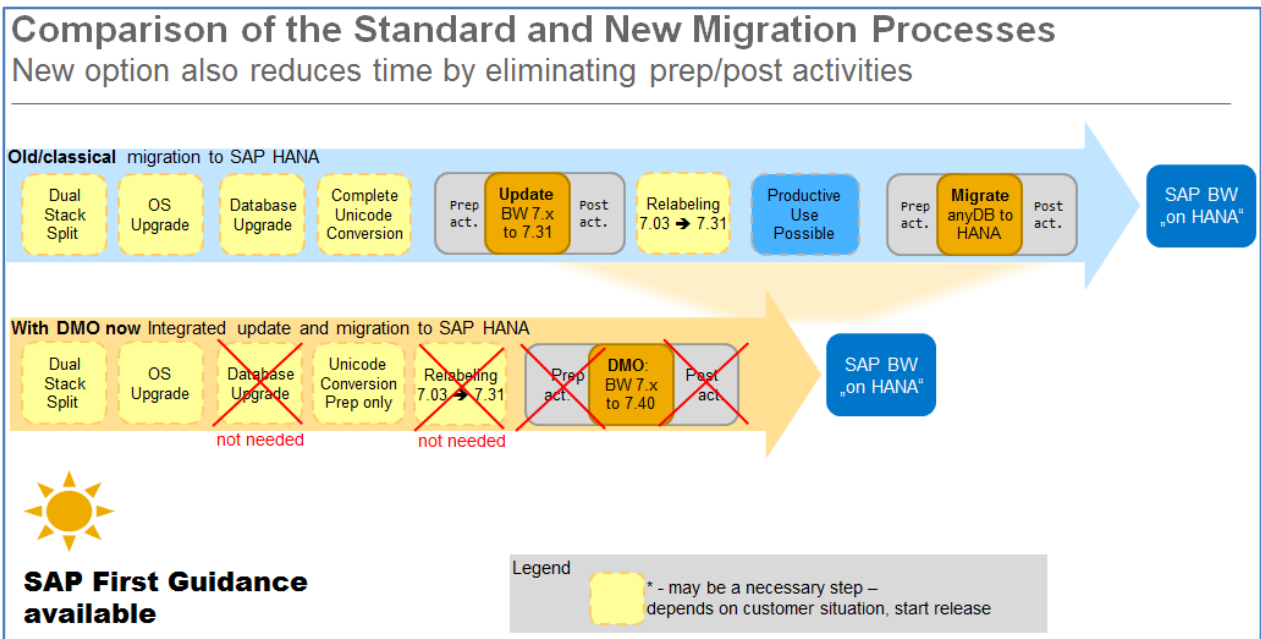
DMO Procedure: In-Place Upgrade and Migration



BW Phases in the Overall DMO Process

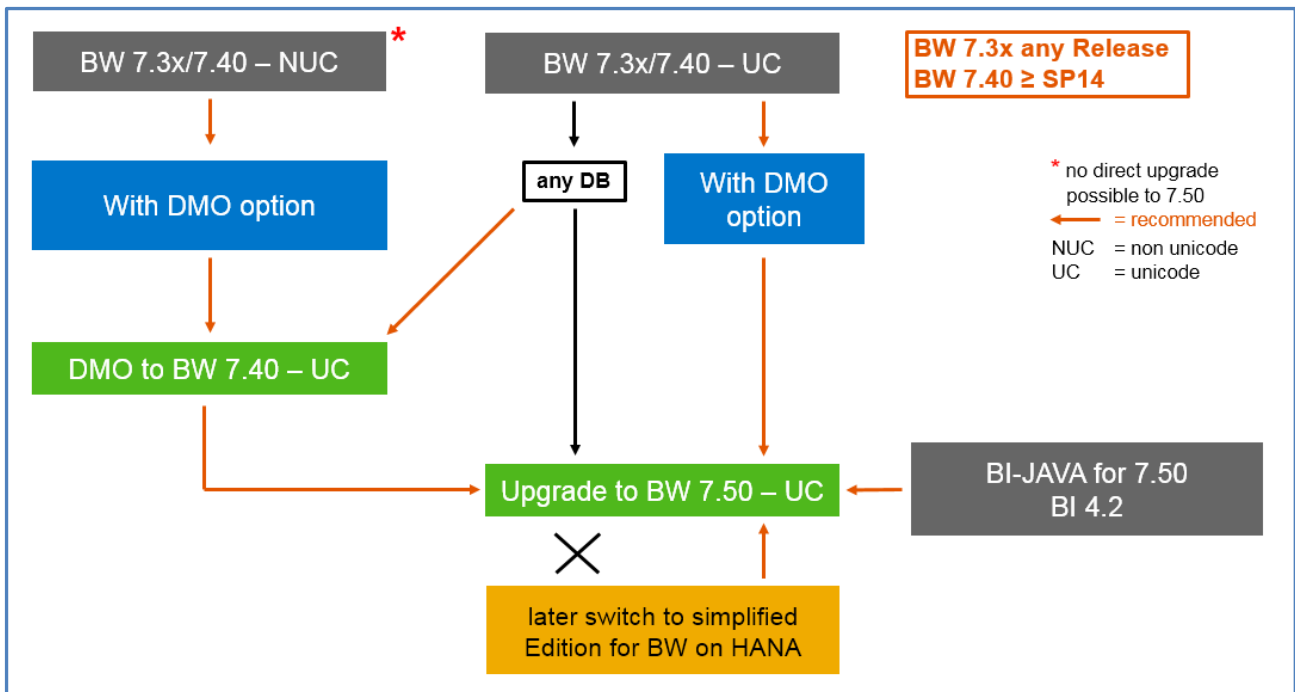
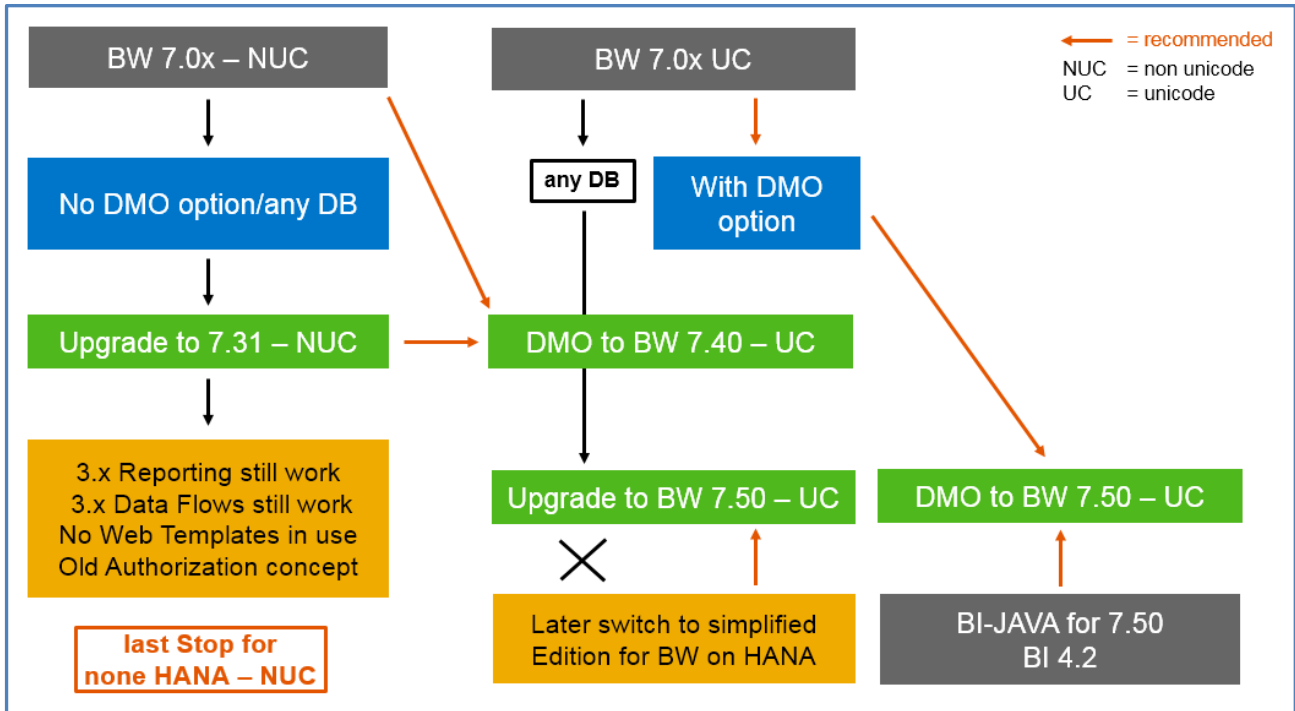


DMO - Comparison Standard and New Process



2.1 DMO - Interaction with SAP BW 7.50

Since there is no 7.45 non unicode Kernel anymore, the DMO option cannot be used to directly migrate system to SAP BW 7.50 on HANA directly. Furthermore 7.50 is completely unicode, which also impacts the direct upgrade of non-unicode System based on 7.0x or 7.3x/7.40.



Blog:

[Downtime minimization when upgrading BW systems](#)

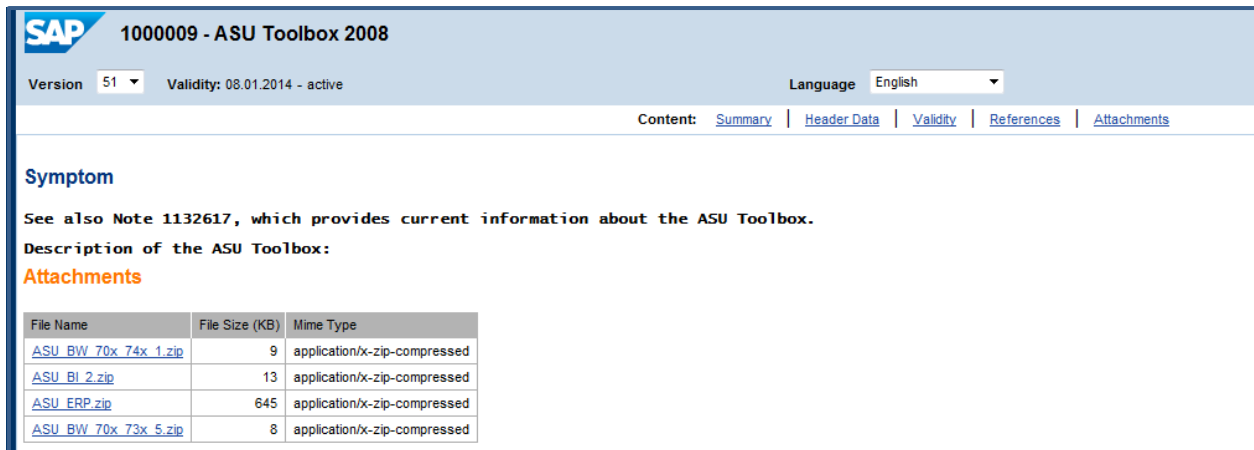
3. Step by Step – DMO Option

3.1 Application Specific Preparation Steps

Interaction ASU Toolbox with DMO Procedure

To save time, you can already start working with the Application-Specific Upgrade (ASU) toolbox in the original system. Check for the latest XML file in SAP [Note 1000009 - ASU Toolbox 2008](#)

To use the ASU toolbox, download the latest XML file from the attachment section of the SAP Note. The reminder for the ASU toolbox appears in the extraction phase.



SAP 1000009 - ASU Toolbox 2008

Version: 51 | Validity: 08.01.2014 - active | Language: English

Content: [Summary](#) | [Header Data](#) | [Validity](#) | [References](#) | [Attachments](#)

Symptom

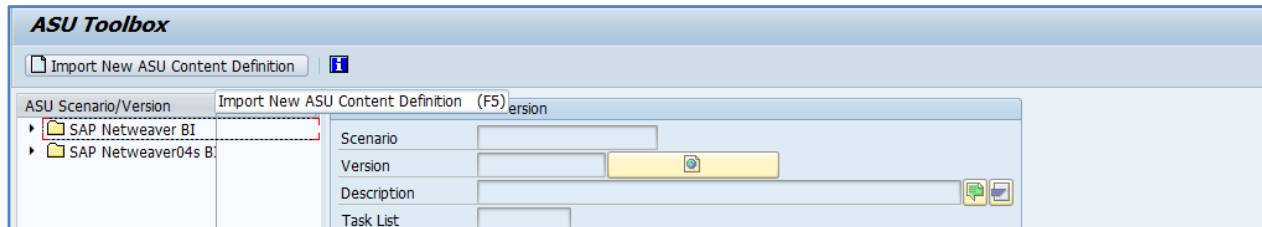
See also Note 1132617, which provides current information about the ASU Toolbox.

Description of the ASU Toolbox:

Attachments

File Name	File Size (KB)	Mime Type
ASU_BW_70x_74x_1.zip	9	application/x-zip-compressed
ASU_BI_2.zip	13	application/x-zip-compressed
ASU_ERP.zip	645	application/x-zip-compressed
ASU_BW_70x_73x_5.zip	8	application/x-zip-compressed

Start transaction /ASU/START and upload the XML file and create a new task list.

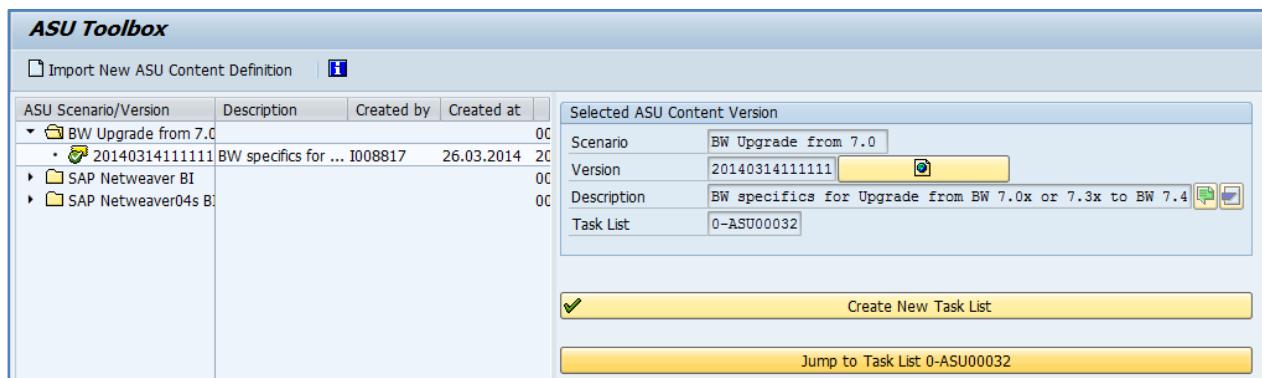


ASU Toolbox

Import New ASU Content Definition (F5)

ASU Scenario/Version	Import New ASU Content Definition (F5)	Version
<ul style="list-style-type: none"> SAP Netweaver BI SAP Netweaver04s B 	Scenario: <input type="text"/> Version: <input type="text"/> Description: <input type="text"/> Task List: <input type="text"/>	

Create a new Task List and Jump to Task List 0-ASU000xx



ASU Toolbox

Import New ASU Content Definition (F5)

ASU Scenario/Version	Description	Created by	Created at
BW Upgrade from 7.0			00
20140314111111	BW specifics for ... I008817	26.03.2014	20
SAP Netweaver BI			00
SAP Netweaver04s B			00

Selected ASU Content Version


Scenario	BW Upgrade from 7.0
Version	20140314111111
Description	BW specifics for Upgrade from BW 7.0x or 7.3x to BW 7.4
Task List	0-ASU00032

Create New Task List

Check and execute the tasks before the technical DMO procedure starts. This will save time during the runtime of the DMO procedure.

ASU Schedule Manager: Display - BW specifics for Upgrade from BW 7.0x							
User Notes On Display/Change Task List							
Task List	Severity	Descript.	Note	Docu.	UserRemark	Status	Spool List
Scenario "BW Upgrade from 7.0" Version "20140314111111"							
Preparation Steps							
Manual Preparation Steps							
• Check some notes before upgrade	Obligatory						
• Add-On Compatibility of SAP NetWeaver 7.4	Obligatory		1826531				
• Stop RDA Deamon	Obligatory						
• Domain RSCHAVL will be changed from CHAR60 to SSTRING 1333.	Obligatory		1879618				
• Check activate ODS Objects.	Obligatory						
• Upgrade Check Report RSUPGRCHECK	Obligatory		927578				
• Remove temporary BI tables	Obligatory						
• Check/Repair Status of Info Objects	Optional		458363				
• Check inconsistencies with RSZ* Tables	Optional		792779				
• Activate Info Objects	Optional						
• Clean/delete the messages for error logs	Optional		1095924				
• Cleanup entries from table RSIXWWW.	Optional		589899				
• Check codepage settings.	Optional		42305				
• Check Master Data consistency.	Optional		1033721				
• Cleanup background jobs.	Optional		784969				

Notes for the BW-Specific Upgrade Phases

 These Notes must/should be checked before the DMO process for BW based systems is started.

[Note 1751237 - Add. info about the update/upgrade to SAP NetWeaver 7.4 \(incl. SPs and SRs\)](#)

[Note 912369 - FINB_TR_DEST, after import failures, transport errors](#)

[Note 150315 - BW-Authorizations for Remote-User in BW and OLTP \(profile S_BI-WHM_RFC\)](#)

[Note 1908075 - BW on SAP HANA SP6: Landscape redistribution \(at least Rev. ≥ 60 for HANA needed\)](#)

[Note 1891393 - Automated Configuration scripts for HANA Landscape \(contains HDB script for reorg\)](#)

[Note 1720495 - Invalid deimplementation of obsolete notes by SNOTE tool](#)

[Note 1668882 - Note Assistant: Important notes for SAP_BASIS 730,731,740 \(check after the Upgrade\)](#)

[Note 1867494 - Upgrading application server ABAP running on an SAP HANA DB](#)

[Note 1879618 - Pre-upgrade measures for upgrade/update to 7.4 \(included in 7.01 SP14 and higher\)](#)

[Note 1941711 - Dump: INSERT_PROGRAM_NAME_BLANK during After-Import processing of SXCL / SXSD](#)

[Note 1954122 - Dump in report RSPRGCTWM during upgrade](#)

[Note 1990326 - Error: Retcode 1024: SQL-error "288-cannot use duplicate table name](#)

[Note 1981718 - R3load: support for CDS views and some fixes](#)

[Note 1764085 - Error Update records still exist - Please process during phase JOB_RSVBCHCK_D](#)

[Note 2082301 - Executing RSUPGRCHECK may display inconsistent MultiProvider](#)

[Note 2229248 - Long runtime in background job "RSUPGRCHECK" during SAP EHP upgrade](#)

[Note 2182306 - 730SP14: PSA Version create step in DMO tool hangs](#)

[Note 2017638 - Corrections to SAP_UPDATE_DBDIFF and RS_BW_POST_MIGRATION](#)

[Note 1730806 - Potential data loss for write-optimized DSO](#)

These Notes are still valid for the changeability of BW objects during upgrade.

[Note 851449 - Changeability of BW objects during the upgrade](#)

[Note 780710 - Upgrade already running - you are not able to change objects](#)

[Note 458024 - BW objects cannot be processed \(upgrade is running\)](#)

[Note 337950 - Queries \(and other objects\) cannot be edited](#)

BW backend processing with DMO Procedure

To create the user for BW backend processing, use transaction RSBWREMOTE to create the user **bwremote**. To enable the usage of the tasks lists during the SUM/DMO procedure you must setup in transaction RSTPRFC the RFC destinations for the BW clients for import post processing.

<https://help.sap.com/viewer/93bea049296a41508d972e117149f784/7.5.13/en-US/4a795f6749196b70e10000000a42189c.html>

Transaction SPRO → F5 → Business Intelligence → Transport Settings → Create Destination for ...

User without address (mass update)

Test run (without updates)

Display log

COMPANY

Create Destination in Client for Import Postprocessing

Client

Destination

User

Password

Furthermore, make sure that the password you choose here is the correct one. In advance check with Transaction SU01 the correct password. At the end of the DMO procedure the program RS_UPG_TOOL_HMW is also using this destination. The password of BWREMOTE must be correct.

New Entries: Overview of Added Entries

Client	Name	Dest.	Description
000	SAP AG Konzern	N4SCLNT000	Client 000 for After Import
001	Produktiver client	N4SCLNT001	BW Client for After Import

After this use the Transaction FINB_TR_DEST to create RFC Destinations for Transport Methods. This will prevent additional errors in the Phase MAIN_NEWBAS/XPRAS_AIMMRG.

Additional Notes for optimizing the phase MAIN_NEWBAS/XPRAS_AIMMRG:

[Note 1649901 - Time-critical processes in BW upgrade/Support Package import](#)

[Note 1668456 - DTP: Error msg RSO851 during upgrade or Content installation](#)

[Note 1701115 - Error in phase XPRA_* during sp update: Job RDDEXECL fails with SYNTAX_ERROR](#)

[Note 1801400 - Error FINB_TR 032 during upgrade in phase XPRAS_AIMMRG](#)

[Note 1813468 - Web Dynpro: Conversion for non-printable chars \(NON-UNICODE\)](#)

[Note 1835882 - Error in XPRAS_AIMMRG phase during EHP installation for BADI Multiple active imp.](#)

[Note 1894463 - Upgrade terminates with error RSO 871 or RSO 876](#)

[Note 1975065 - Termination in XRPA_RS_TCO_ACTIVATION_XPRA in non-SAP-BW systems](#)

[Note 2279019 - Dump SYNTAX_ERROR during MAIN_NEWBAS / XPRAS_AIMMRG phase](#)

[Note 2769345 - "No field was selected from communication structure" occurs during the ERP upgrade](#)

[Note 2890515 - SYNTAX ERROR in MAIN_NEWBAS/XPRAS_AIMMRG phase of upgrade](#)

[Note 2986755 - Activation of BC Set end up in recursion when there are follow on BC Sets](#)

[Note 2997112 - Error reported in XPRAS_AIMMRG during report RSD_XPRA_REPAIR_OTCTIOBJVL_740](#)

3.2 Unicode preparations for the DMO Procedure

[Note 2631098 - Database Migration Option \(DMO\) of SUM 1.0 SP23](#)

[Note 1968508 - Release Change & Single Code Page Conversion to Unicode with DMO](#)

The mentioned SAP Note above contains an unicode conversion guide together with the DMO procedure.

If your Source System based on SAP BW is already on unicode (UC) you can skip this Chapter.

Nevertheless, running the reports mentioned in the following SAP Notes is for your reference.

[Note 1784377 - Checking pool tables and cluster tables](#)

[Note 1807959 - Improved versions of reports SDBI_POOL_CHECK and SDBI_CHECK_BCD_NUMBERS](#)

[Note 2462824 - DMO: "sql error -10802" occurred during phase PARCONV_UPG](#)

[Note 2227432 - How to: Declustering and depooling with NW 7.4 SP03 and higher on databases other than SAP HANA](#)

In all other Systems based on SAP BW 7.0x and BW 7.3x must run the Transaction SPUMG first to prepare the existing data for the unicode conversion. For these Systems, the complete and successful preparation with SPUMG is a mandatory step.

The Transaction SPUMG is a complete set of preparation modules which can run independently from the other preparation steps. SAP BW contains only one Code page and almost all the ABAP coding (might include customer coding) is already UC enabled since NetWeaver Release 6.20 and onwards.

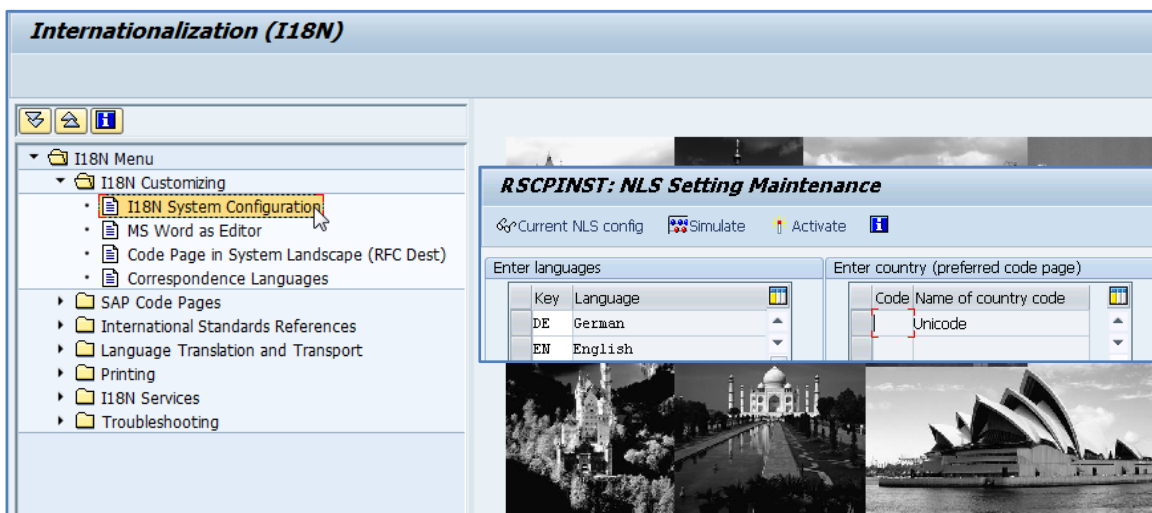
The Reason for this is the fact, that existing data must be prepared for the conversion while the new data which comes with the upgrade process must be merged within the DMO process to enable the UC conversion during the parallel export and import phase with R3load.

The following Notes contains detailed Guides for the usage of SPUMG for every NetWeaver Release based on 7.0x and 7.3x. These guides are optional, as a specific guide for DMO is attached to [SAP Note 1968508](#)
[Note 1051576 - Conversion of Single Code Page Systems to Unicode](#)
[Note 2108396 - SUM DMO with Unicode Conversion: R3load requirements](#)

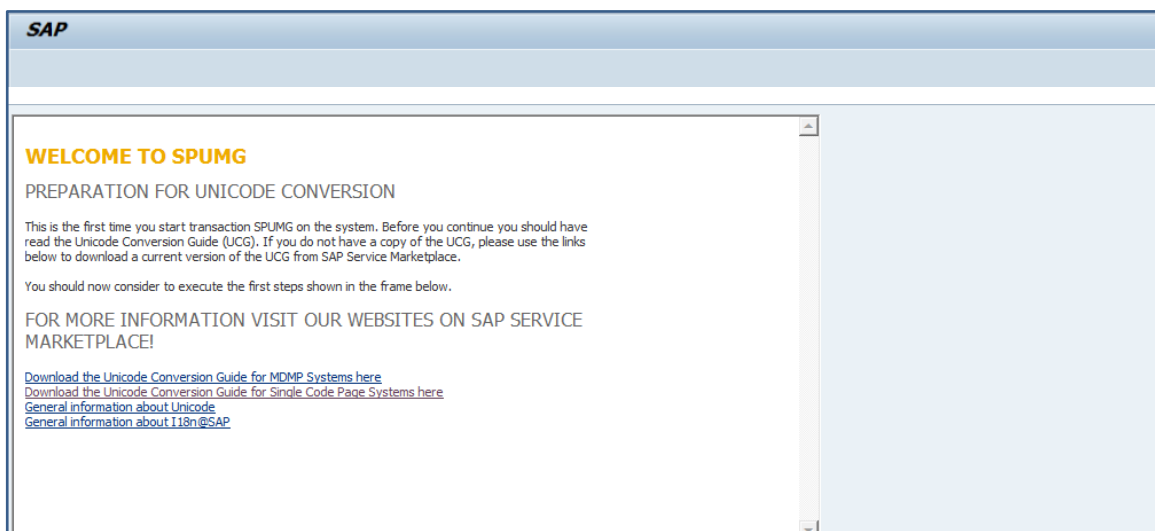
check for corrections of SPUMG and additional preparation steps

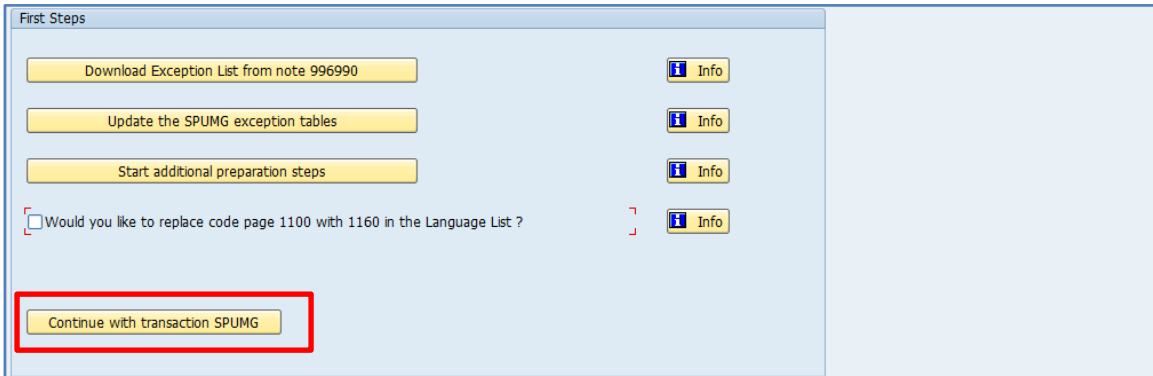
[Note 662215 - SPUMG and SUMG in Basis Release 6.20, 6.40 and 7.0X](#)
[Note 1457258 - Correction instruction for the Additional Preparation Steps](#)
[Note 1319517 - Unicode Collection Note](#)

In addition, check with Transaction I18N the RSCPINST settings

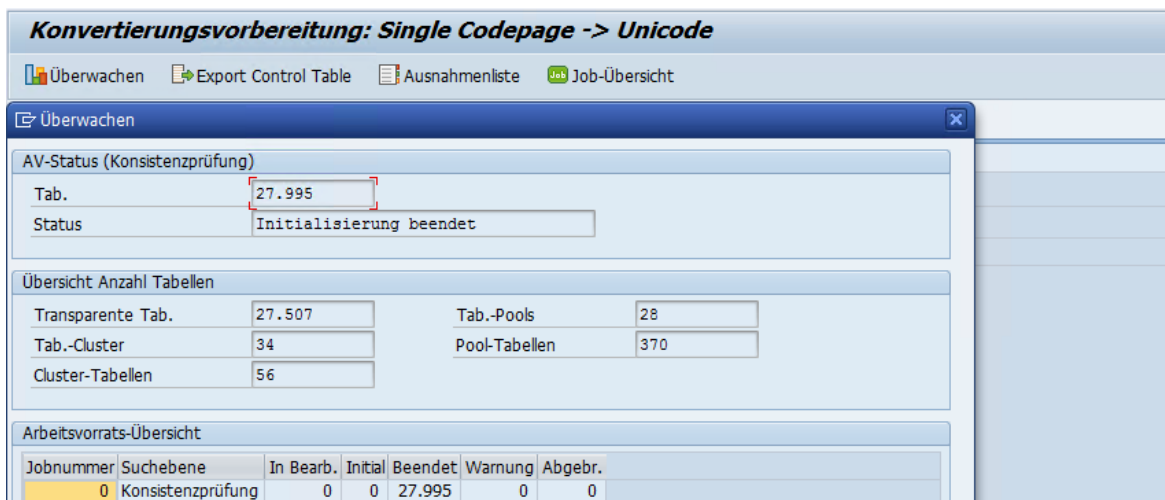
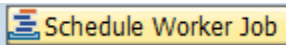


Starting Transaction SPUMG the first time (follow the first steps)

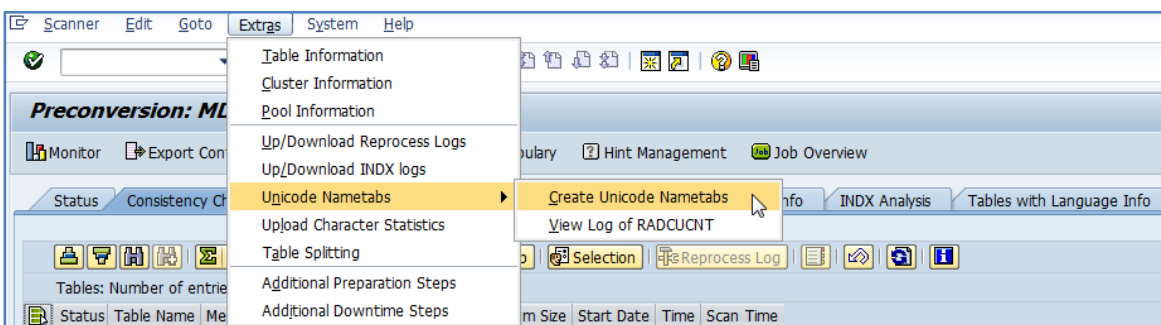




SPUMG after running the pre-checks (UMG-PIMG_WORKER_JOB_1)



Running the "Create Unicode Nametabs" Job (UMG_PMIG_NTAB_JOB)



Additional troubleshooting Notes

[Note 765475 - Unicode Conversion: Troubleshooting](#) (contain a troubleshooting guide)

[Note 837173 - RADUCNT in Unicode Conversion: Collective Note](#)

[Note 932779 - Unicode conversion - analysis of nametab problems](#)


[Note 1933582 - Data has errors after conversion of cluster table or pool table](#)

[Note 2183530 - Extended log of RADUCNT report in SUM DMO with Unicode conversion](#)

3.3 The DMO Procedure in Detail

Phase Extraction (1)

After you start the Software Update Manager (SUM), specify the correct **stack.xml** file.

 **Please note:** the following directories are selected by default.

- SUM root directory: [/usr/sap/<SID>/SUM](#)
- Download directory: [/usr/sap/<SID>/download](#)

If you want to use a different location for the SUM directory, you must specify this in the Instance Parameter **DIR_PUT** and restart the server. Otherwise the Parameter will be set automatically.

If the path to the SUM directory is longer than 25 characters, you can move the SUM directory to a shorter path as well.

The Download Directory is the location where the **stack.xml** is resided including all additional needed files during the SUM/DMO process. On Win64 based systems remain to the default download directory to avoid ACL errors in the phase **EHP_INCLUSION**.

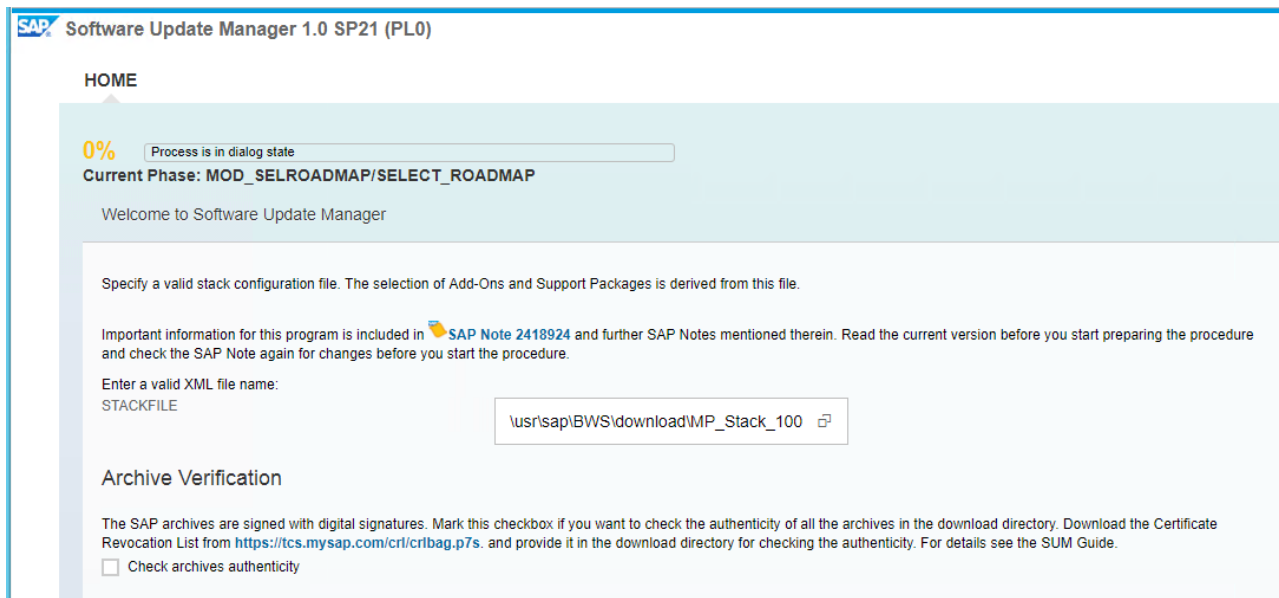
Unpack the SUM 2.0 SP04 or higher file as follows:

```
/usr/sap/<SID>/SAPCAR -xvf SUM20SP04_2-80002456.SAR
```

Start the SUM/DMO UI with the following URL:

Example:

<http://<server>.wdf.sap.corp:1128/lmsl/sumabap/<SID>/doc/slui/>



SAP Software Update Manager 1.0 SP21 (PL0)


HOME

0% Process is in dialog state

Current Phase: MOD_SELROADMAP/SELECT_ROADMAP

Welcome to Software Update Manager

Specify a valid stack configuration file. The selection of Add-Ons and Support Packages is derived from this file.

Important information for this program is included in  [SAP Note 2418924](#) and further SAP Notes mentioned therein. Read the current version before you start preparing the procedure and check the SAP Note again for changes before you start the procedure.

Enter a valid XML file name:
STACKFILE

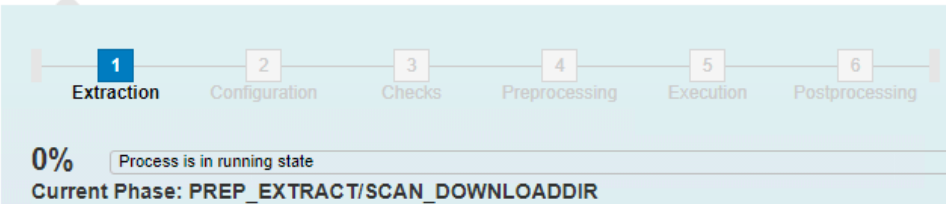
Archive Verification

The SAP archives are signed with digital signatures. Mark this checkbox if you want to check the authenticity of all the archives in the download directory. Download the Certificate Revocation List from <https://tcs.mysap.com/crl/crlbag.p7s>. and provide it in the download directory for checking the authenticity. For details see the SUM Guide.

Check archives authenticity

Software Update Manager 1.0 SP21 (PL0)

HOME



0% Process is in running state
Current Phase: PREP_EXTRACT/SCAN_DOWNLOADDIR

1% Process is in dialog state

Current Phase: PREP_PRE_CHECK/PROFREAD

Required System Passwords

Password for User DDIC

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

OS-Specific Password

Enter the password for the operating system account .\SAPServiceBWS:
OS PASSWORD

Software Update Manager

HOME

66% Process is in dialog state

Current Phase: MOD_SELROADMAP/SELECT_ROADMAP

Stack Configuration File

Specify a valid stack configuration file. The selection of add-ons and Support Packages is derived from this file.
Enter a valid XML file name:
STACKFILE

Phase: 1 0% select STACK CONFIGURATION FILE

Location of the **stack.xml** file:

`/usr/sap/<SID>/download/SMSDXML_<SID>_<date><time>.xxx.xml`

`/usr/sap/HBD/download/SMSDXML_HBD_20150609151427.762.xml` (path valid also for Win64)

By selecting the **stack.xml** you define the download directory, where all necessary files, support packages, updates, etc. can be found for the following phases. The **stack.xml** cannot be loaded from a local destination.

In addition, provide any updated files here as well, e.g. SAPCryptoLib, ST-A/PI, Kernel, etc. which are not collected by the `stack.xml`.

If you already have executed several SUM/DMO runs you can place the existing UPGANA.xml files into the `download` directory as well. This allows the DMO process to calculate the different Phases more precisely, especially the comparison between long and short runtimes Phases (e.g. TABIM_UPG vs. xyz)

Phases marked with "R3trans depending" are directly performance relevant, so make sure that you specified the maximum R3trans process possible, or move the CI (temporary) to the HANA server before you start the DMO process - <http://scn.sap.com/docs/DOC-59250>

<input type="checkbox"/>		UPGANA_WDEUMH.XML Created 4 hours ago by Roland Kramer 597 KB No Description No Tags ☆ Favorite 👍 Like 0 💬 Comment
<input type="checkbox"/>		UPGANA_N4S_jwdf4366.XML Modified 5 hours ago by Roland Kramer 630 KB No Description No Tags ☆ Favorite 👍 Like 0 💬 Comment

0% Process is in dialog state

Current Phase: PREP_EXTRACT/SCAN_DOWNLOADDIR

Welcome to Software Update Manager

Important information for this program is included in [SAP Note 1843776](#) and further SAP Notes mentioned therein. The keyword is included in the relevant product-specific SAP Note. Read the current version before you start preparing the procedure and check the SAP Note again for changes before you start the procedure.

The download directory might contain the following type of files:

- Stack configuration file for enhancement packages or Support Package stacks.
- DVDs.
- ABAP patch archives, for example, Support Packages or ADD-Ons.
- ABAP kernel for your target SAP system.

Your SAP system is HBT with HDB database.

This is SAPup version lmt_005, build SAPup release lmt_005 version 54.000

Download Directory

Enter the path to the download directory. *Note:* You can also use symbolic links in the download directory.

DOWNLOAD DIRECTORY

Phase: 2 0% PREP_EXTRACT/SCAN_DOWNLOADDIR

Software Update Manager

HOME

0% Process is in running state
Current Phase: PREP_EXTRACT/SCAN_DOWNLOADDIR

In this phase the download directory must be already available, as all needed files are extracted to `/usr/sap/trans/EPS/in`

0% Process is in dialog state
Current Phase: PREP_PRE_CHECK/PROFREAD

Required System Passwords

Password for User DDIC

Enter the password for SAP user DDIC in client 000:

DDIC PASSWORD

Phase: 3 0% PREP_PRE_CHECKPROFREAD

For a better overview you can always open the "TASKLIST" on the right side of the UI.

0% Process is in running state
Current Phase: PREP_PRE_CHECK/SCANDIR_EPS0

0% Process is in dialog state
Current Phase: PREP_PRE_CHECK/SPAMCHK_INI

SPAM Version Check

SPAM version 58 intern #3 in your source system is sufficient for this procedure.
Nevertheless, we recommend that you import the latest SPAM update.

The program has not found a SPAM Update for release 730 in the EPS inbox.
SPAM update message: SPAM/SAINT update SAPKD73058 has already been imported successfully

Search for newer SPAM version in \\wdf4368\sapmnt\trans\EPS\in
 Skip SPAM update

Phase: 4 0% PREP_PRE_CHECK/SPAMCHK_INI

In case you didn't apply the latest SAPM update, yet you will be asking to install the latest Version for your NetWeaver Release. Current Version is 0061 (06/2016).

[Note 1828915 - Upgrade stops in MOD_INSTNR_PRE phase](#)

[Note 1933892 - Checks after phase MAIN_NEWBAS/JOB_RSINDCHK were negative!](#)

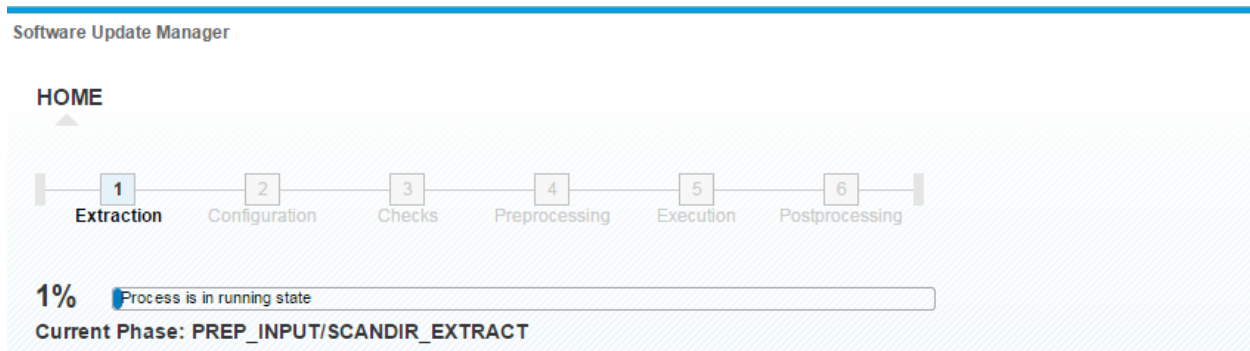
[Note 2144370 - Error in SUM phase MAIN_SHDIMP/SUBMOD_SHDIMP/SHADOW_IMPORT_INC](#)

[Note 2050846 - Error in phase MAIN_SHDINST/SUBMOD_SHDALIASCRE/EU_CLONE_CRE_SHDVIEWES using DMO option of SUM](#)

If there is NetWeaver 7.30 as Start for the DMO procedure, the NetWeaver 7.40 SR1 export DVD must be available in the download location. Please Note, that the MOPz process only selects only the delta files after the availability of the NetWeaver 7.40 SR1. The created stack.xml file will recognize this correctly.

If you are running the DMO procedure between 7.40 SR1 (based on SP05) and 7.40 SR2 (based on SP08) you have to create for the RDBMS Oracle and DB6 an additional table space called PSAP<SID>740X for the exchange of the complete ABAP source. In this context you also have to consider the SAP Note

[Note 1819182 - Tables \(TTREE*\) remain in old exchange table space](#)



Phase: 5 1% PREP_INPUT/SCANDIR_EXTRACT

In this phase the download directory is checked for the Kernel archives. You can also copy newer *.SAR packages to the directory. The SUM/DMO process will always recognize the latest file and, if your source kernel is higher than in the scan directory.

1% Process is in dialog state

Current Phase: PREP_INPUT_CHECK/EXTRACTKRN_PRE

Enter DVD Mount Points

Enter mount points for the DVDs of the kit "NW740SR2" required for the procedure

Add
 Remove

Path	Media description	Error message
D:\usr\sap\CIH\download\ADDON740	Label: D51045590	
D:\usr\sap\CIH\download\BI_CONT_7.5	Label: D51047366	
D:\usr\sap\CIH\download\EXPORT	Label: D51048524_2; NW740SR2:ex...	
D:\usr\sap\CIH\download\KERNEL7.21	Label: D51044253; NW731:kernel	
D:\usr\sap\CIH\download\LANGUAGE	Label: D51048524_3; NW740SR2:la...	

Enter at least the mount point containing Kernel DVD for OS NTAMD64 and Unicode
 The requested data carrier is not mounted on any of the mount points you entered.

Dispose old mount points and rebuild scope

Phase: 6 1% PREP_INPUT/EXTRACTKRN_PRE

In this case the DVD for the Kernel 7.42 is not found in the SUM/download directory.

ZIP [51049350_5](#) SAP Kernel 7.42 Linux on x86_64 64bit [Info](#) 1784364 15.01.2015

Add to Download Basket
Maintain Download Basket
Select All
Deselect All

1% Process is in dialog state

Current Phase: PREP_INPUT_CHECK/EXTRACTKRN_PRE

Enter DVD Mount Points

Enter mount points for the DVDs of the kit "NW740SR2" required for the procedure

Add
 Remove

Path	Media description	Error mess...
D:\usr\sap\CIH\download\SAP_JCE	Label: CD51042720	
D:\usr\sap\CIH\download\KERNEL_742		

Phase: 7 1% PREP_INPUT/EXTRACTKRN_PRE - Kernel 7.42 DVD

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

1% Process is in dialog state

Current Phase: PREP_INPUT/MIG2NDDB_INI

Database Migration Option

Enter the target database type:

DATABASE TYPE

No migration

SAP HANA

SAP Software Update Manager 1.0 SP21 (PL0)

HOME

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

2% Process is in dialog state

Current Phase: PREP_INPUT/MIG2NDDB_INI

Database Migration Option

Enter the target database type:

DATABASE TYPE

No migration

SAP HANA

SAP ASE

Back Next

Task Type	Status	Description
	<input type="checkbox"/>	CHKSYSTYPE
	<input type="checkbox"/>	SSFS_INI
	<input type="checkbox"/>	LC_CHECK
	<input checked="" type="checkbox"/>	MIG2NDDB_INI
	<input type="checkbox"/>	READDATA_ORACLNT
	<input type="checkbox"/>	DBQUERY_PRE
	<input type="checkbox"/>	CONFCHK_IMP
	<input type="checkbox"/>	TOOLCHECKXML_DBCLI_1ST
	<input type="checkbox"/>	ASCS_CHK

SAP Software Update Manager 1.0 SP21 (PL0)

HOME

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

2% Process is in dialog state

Current Phase: PREP_INPUT/MIG2NDDB_INI

Migration Parameters

Provide a valid migration key for installation number "SAP-INTERN".
For a detailed description of generating the key, see [SAP Note 317096](#).

Migration Key

Test cycle

This option will stop the tool after the downtime migration phase, enabling a simple repetition of it to optimize the procedure by tuning the parameters (like R3load processes). You should in no case use this option for a productive run!

Enable Migration Repetition Option

DMO with System Move

The R3load exports the database content to the file system. After you have moved all the content to the target host, you continue the DMO procedure there.

Enable the migration with System Move

Back Next

Phase: 8 1% PREP_INPUT/MIG2NDDB_INI - choose DMO

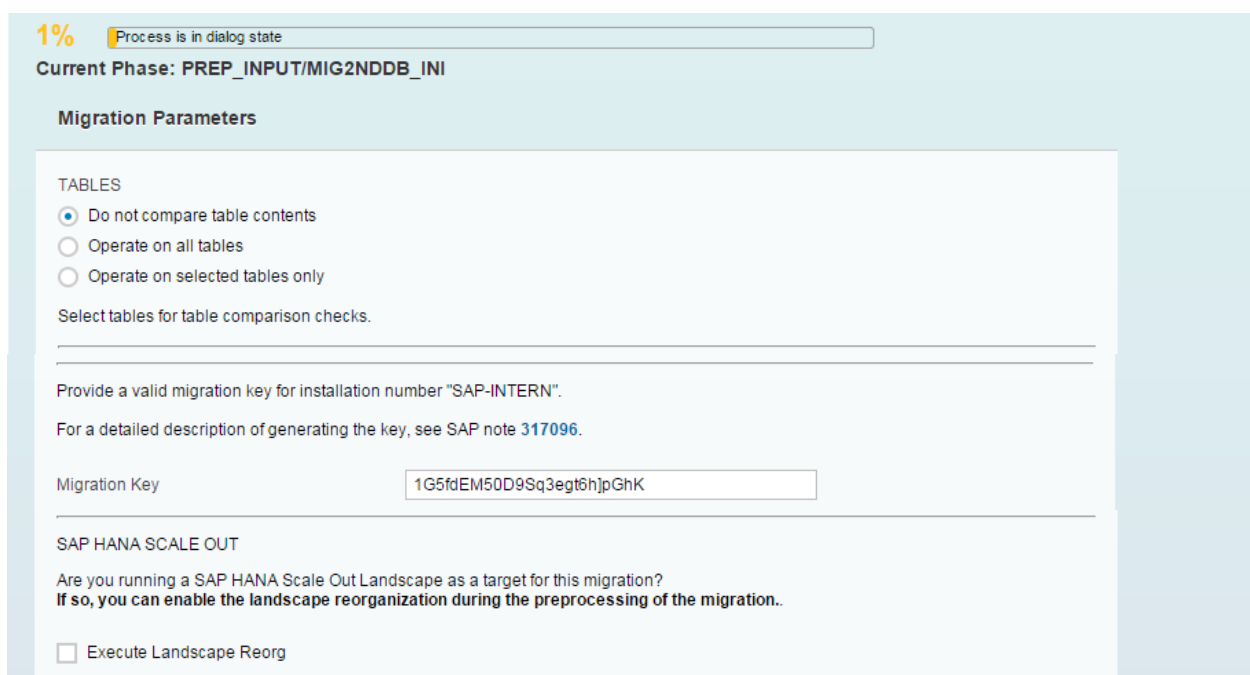
Check the log MIG2NDDB_INI.LOG to make sure your database is supported for the DMO procedure.

[Note 1134948 - ABAP Migration Key for special installation numbers](#)

Migration key **1G5fdEM504qSq3egt6hJpGhK** for instance number **SAP-INTERN** lasts until 2020/12/31

The CHECKS.LOG can be checked by clicking "LOGS" on the right side of the UI.

Leave the Option Execute Landscape Reorg unticked, if you are running on a single HANA node, otherwise allow DMO to prepare the Landscape reorg.



1% Process is in dialog state

Current Phase: PREP_INPUT/MIG2NDDB_INI

Migration Parameters

TABLES

Do not compare table contents

Operate on all tables

Operate on selected tables only

Select tables for table comparison checks.

Provide a valid migration key for installation number "SAP-INTERN".

For a detailed description of generating the key, see SAP note [317096](#).

Migration Key 1G5fdEM50D9Sq3egt6hJpGhK

SAP HANA SCALE OUT

Are you running a SAP HANA Scale Out Landscape as a target for this migration?
If so, you can enable the landscape reorganization during the preprocessing of the migration..

Execute Landscape Reorg

New with SUM SP14 - Introduce Test cycle option



Test cycle

This option will stop the DMO run during downtime, enabling a simple repetition of the downtime migration to optimize the procedure by tuning the parameters (like R3load processes). You should in no case use this option for a productive run!

Optimize Cloning

Phase: 9 1% PREP_INPUT/MIG2NDDB_INI - DMO choose options

By pressing refresh in the Browser, the overlaying CHECKS window will disappear, and you are back in the COCKPIT monitor. This is also suitable, when you have the following Pop-Up due to inactivity of the screen.

6 Infos and 0 Errors

- > PREP_PRE_CHECK/SPAMCHK_INI info
- > PREP_INPUT/READCVERS_DUMP info
- > PREP_INPUT/SCANDIR_COLLECT info
- > PREP_INPUT/CONFCHK_IMP info
- > PREP_INPUT/ASCS_CHK info
- ▼ PREP_INIT/ADDON_INFO info

Phase PREP_INIT/ADDON_INFO

```

INFO: The upgrade strategy for the addon DMIS is described in note 1231203.
INFO: The upgrade strategy for the addon DMIS_CNT is described in note 1231203.
INFO: The upgrade strategy for the addon PI_BASIS is described in note 555060.
INFO: The upgrade strategy for the addon SAP_ABA is described in note 632429.
INFO: The upgrade strategy for the addon SAP_BASIS is described in note 632429.
INFO: The upgrade strategy for the addon SAP_BW is described in note 632429.
INFO: The upgrade strategy for the addon ST-PI is described in note 539977.
            
```

An error in the file CHECKS.log appears as a red flag in the "old UI".

Software Update Manager

HOME

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

3% Process is in running state

Current Phase: PREP_INIT/JOB_RSUPDTEC

Process execution in progress!

Task Type	Status	Description
	■	DBCHK_INI
	■	SQLDB_LIST_AVERS_EXT
	■	SWITCHPARAM_UPGDIR
	■	REQ_J2EEUPG
	■	SETSYNC_PREP_STARTED
	■	VERSCHK_INI
	■	VALCHK_INI
	■	EHP_CHK
	■	UNICODE_CHK_PRE
	▶	SCANDIR_UPG1
	○	TOOLCHECKXML_UPG

Refresh

TASK LIST LOGS BREAKPOINTS

Software Update Manager

HOME

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

3% Process is in running state

Current Phase: PREP_INIT/JOB_RSUPDTEC

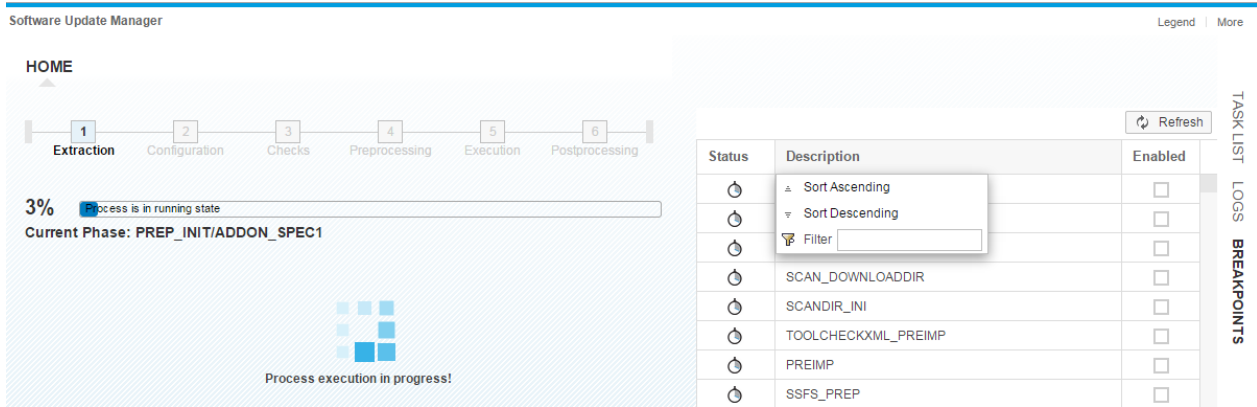
Process execution in progress!

Description	Last Modified On
PSUPDTEC.LOG	2015.04.02 - 14:53:35
SAPup.log	2015.04.02 - 14:52:33
SAPupConsole.log	2015.04.02 - 14:52:33
ULOG15_2	2015.04.02 - 14:52:33
PHASES.LOG	2015.04.02 - 14:52:33
OPENPATCHES.LOG	2015.04.02 - 14:52:33
SQLSTMTSTD.OUT	2015.04.02 - 14:52:32
OPENPATCHES.SAV	2015.04.02 - 14:52:32
PHASES.SAV	2015.04.02 - 14:52:31

Refresh

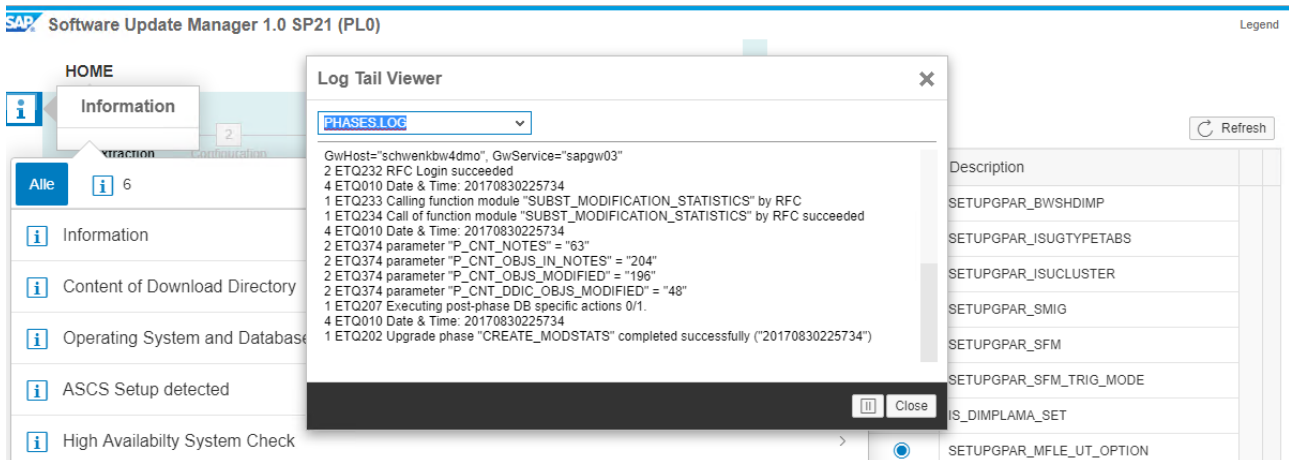
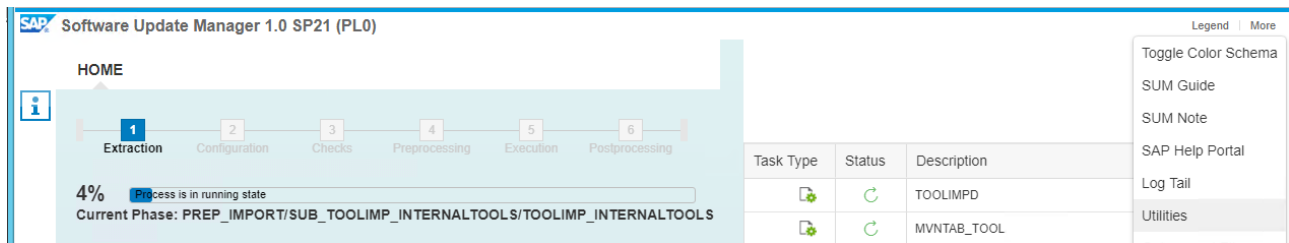
TASK LIST LOGS BREAKPOINTS

Setting explicit Breakpoints can be optimized by clicking into the column header and use the search.



By hoover the Mouse Pointer over the Phase Bar, automatically you will see the overall runtime estimate of the DMO procedure (file **SAPupStat.log** constantly updated).

You can always open the current phase list on the right side of the UI for details.

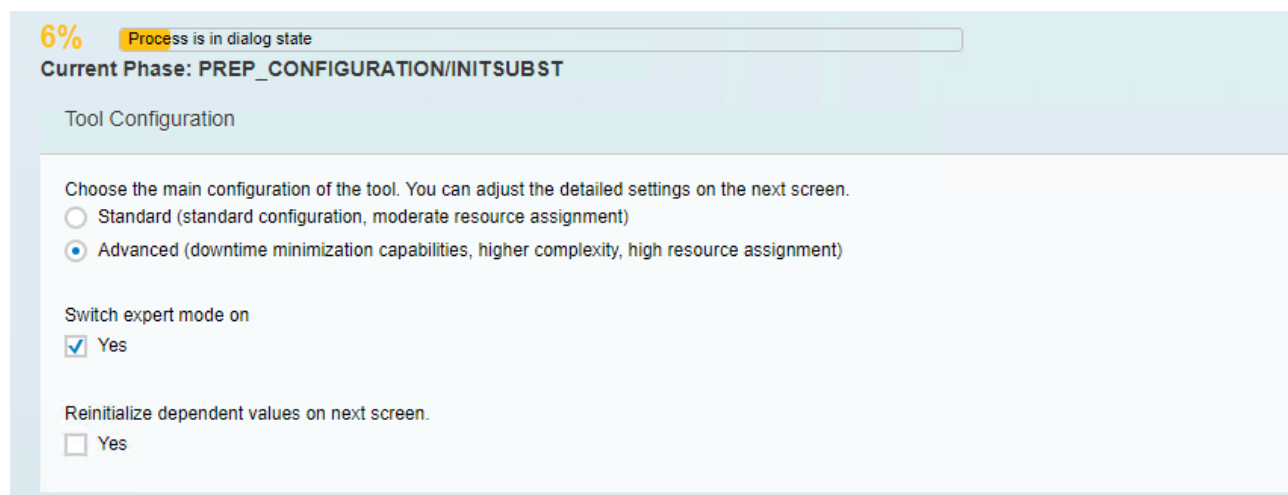


Legend details							
Status Icons		Type Icons		Breakpoint Status Icons		Log Formats	
Icon	Meaning	Icon	Meaning	Icon	Meaning	Icon	Meaning
	Initial Status		Process		Breakpoint is before the current...		CSV
	Running status		Task		Breakpoint is at the current step		Generic Log Format
	Error status		Service		Breakpoint is after the current s...		HTML
	Waiting for user input		Technical Roadmap				Text
	Finished status						XML
	Aborted status						
	Skipped status						
	Action required status						
	Breakpoint status						

The new functionality Log Tail Viewer allows you to watch some important SAPup log permanently. Clicking on the active task opens the current Phase List Log.

PREP_INIT/ADDON_INFO TEXT

INFO: The upgrade strategy for the addon BI_CONT is described in note 1000822.
INFO: The upgrade strategy for the addon BI_CONT_XT is described in note 632429.
INFO: The upgrade strategy for the addon CPMBPC is described in note 1142913.
INFO: The upgrade strategy for the addon CTS_PLUG is described in note 632429.
INFO: The upgrade strategy for the addon DMIS is described in note 1231203.
INFO: The upgrade strategy for the addon FINBASIS is described in note 438520.
INFO: The upgrade strategy for the addon FSAPPL is described in note 983007.
INFO: The upgrade strategy for the addon FSCM_CCD is described in note 632429.
INFO: The upgrade strategy for the addon FSPOT is described in note 632429.
INFO: The upgrade strategy for the addon HANABPC is described in note 632429.
INFO: The upgrade strategy for the addon MDG_FND is described in note 632429.
INFO: The upgrade strategy for the addon PI_BASIS is described in note 555060.
INFO: The upgrade strategy for the addon POASBC is described in note 1511393.
INFO: The upgrade strategy for the addon SAP_ABA is described in note 632429.
INFO: The upgrade strategy for the addon SAP_BASIS is described in note 632429.
INFO: The upgrade strategy for the addon SAP_BS_FND is described in note 632429.
INFO: The upgrade strategy for the addon SAP_BW is described in note 632429.
INFO: The upgrade strategy for the addon SAP_GWFND is described in note 632429.
INFO: The upgrade strategy for the addon SAP_UI is described in note 632429.
INFO: The upgrade strategy for the addon SEM-BW is described in note 186299.
INFO: The upgrade strategy for the addon ST-A/PI is described in note 69455.
INFO: The upgrade strategy for the addon ST-PI is described in note 539977.
INFO: The upgrade strategy for the addon WEBCUIF is described in note 632429.
INFO: The upgrade strategy for the addon PCAI_ENT is described in note 632429.
INFO: The upgrade strategy for the addon



6% Process is in dialog state

Current Phase: PREP_CONFIGURATION/INITSUBST

Tool Configuration

Choose the main configuration of the tool. You can adjust the detailed settings on the next screen.

Standard (standard configuration, moderate resource assignment)

Advanced (downtime minimization capabilities, higher complexity, high resource assignment)

Switch expert mode on

Yes

Reinitialize dependent values on next screen.

Yes

Extraction **Configuration** Checks Preprocessing Execution Postprocessing

6% Process is in dialog state

Current Phase: PREP_CONFIGURATION/INITSUBST

Parameters for procedure

The tool uses strategy Downtime-minimized. Provide further parameters to configure the procedure. To return to the main configuration screen, choose "Back".

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

ABAP PROCESSES (UPTIME)	24
ABAP PROCESSES (DOWNTIME)	24

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

SQL PROCESSES (UPTIME)	16
SQL PROCESSES (DOWNTIME)	16

Enter the maximum number of parallel import processes:

R3TRANS PROCESSES (UPTIME)	24
R3TRANS PROCESSES (DOWNTIME)	24

Enter the maximum number of parallel R3load or table comparison processes: Migration phases doing export + import, half of it are used on either side.

R3LOAD PROCESSES (UPTIME)	48
R3LOAD PROCESSES (DOWNTIME)	48

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

Note: If it is different from the central instance (primary application server instance) host, F:\usr\sap\BWS\SUM\abap must be mounted on the background host.

Also note that during the system downtime, all background jobs are started on your central instance (primary application server instance) while the background server has to down.

Automated batch job distribution (system will decide where to run the jobs)

schwenkbw4dmo_BWS_03 (10 batchprocesses located)

Choose an execution strategy for transaction SGEN.

Execution mode

Do not start ABAP load generation during the update.

Start asynchronously in post downtime.

Back Next

HOME

! 9% Process is in error state

Extraction **Configuration** Checks Preprocessing Execution Postprocessing

Current Phase: PREP_CONFIGURATION/UPDATE_SHAREDINPUT_CONFIG

Continue with roadmap step "Configuration"

Current status: continue with phase PREP_CONFIGURATION/INITSUBST
The step did not complete successfully and will continue at the point it failed.

Note that additional mandatory manual steps might be listed in the file "CHECKS.LOG" (html)
 Identical content, but in TEXT format, can be found in the file "CHECKS.TXT" (plain text)
 It contains entries of the following types:

- error
- info

In order to complete the procedure, please process any manual tasks listed there.

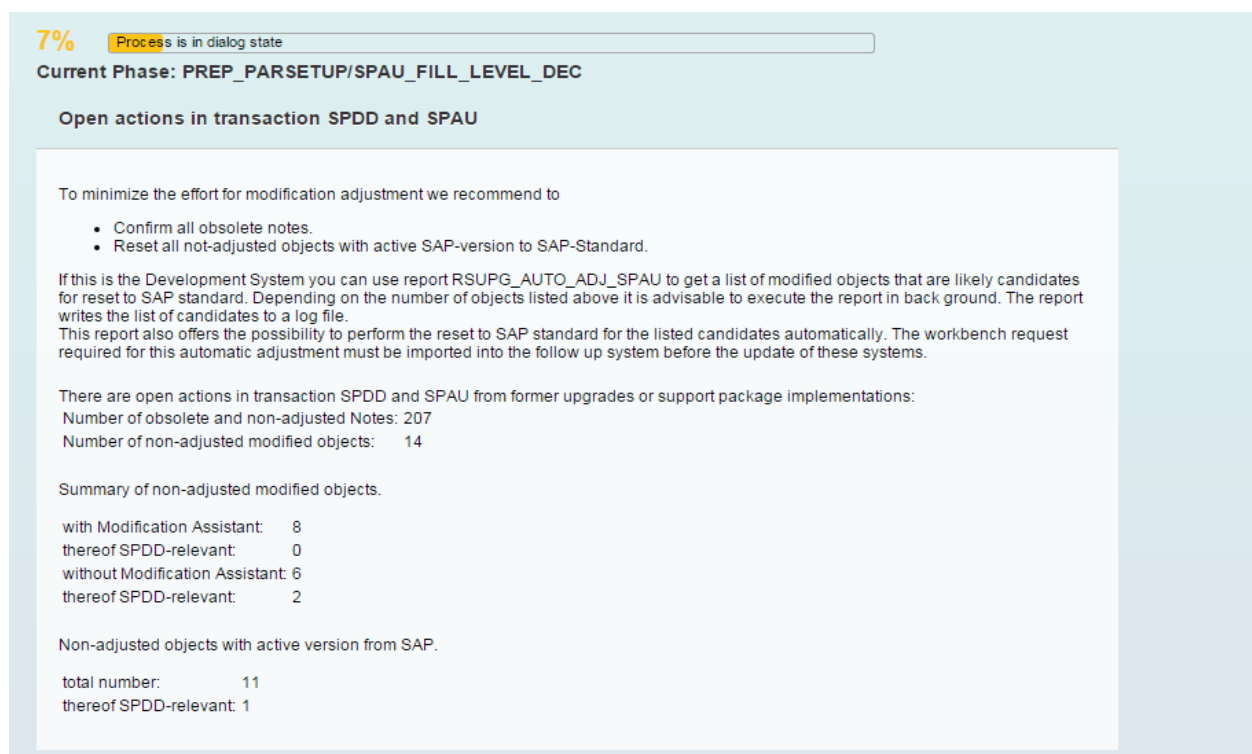
Back Next

Phase 9: PREP_CONFIGURATION/UPDATE_SHAREDINPUT_CONFIG

The SAP Notes listed below contain corrections that are essential for a correct execution of the procedure. You can only continue with the procedure after you have implemented the SAP Notes.

Use the Note Assistant to download the following SAP Notes and implement them if applicable. You can ignore notes that are classified as "cannot be implemented" or "obsolete" by the Note Assistant.

0001488040
0001680583
0001696748
0001797462
0001861585
0002045835
0002294460
0001994245
0002091348
0002311092
0001667685
0002344014
0002408559
0002122333



7% Process is in dialog state

Current Phase: PREP_PARSETUP/SPAU_FILL_LEVEL_DEC

Open actions in transaction SPDD and SPAU

To minimize the effort for modification adjustment we recommend to

- Confirm all obsolete notes.
- Reset all not-adjusted objects with active SAP-version to SAP-Standard.

If this is the Development System you can use report RSUPG_AUTO_ADJ_SPAU to get a list of modified objects that are likely candidates for reset to SAP standard. Depending on the number of objects listed above it is advisable to execute the report in back ground. The report writes the list of candidates to a log file.
This report also offers the possibility to perform the reset to SAP standard for the listed candidates automatically. The workbench request required for this automatic adjustment must be imported into the follow up system before the update of these systems.

There are open actions in transaction SPDD and SPAU from former upgrades or support package implementations:
Number of obsolete and non-adjusted Notes: 207
Number of non-adjusted modified objects: 14

Summary of non-adjusted modified objects.

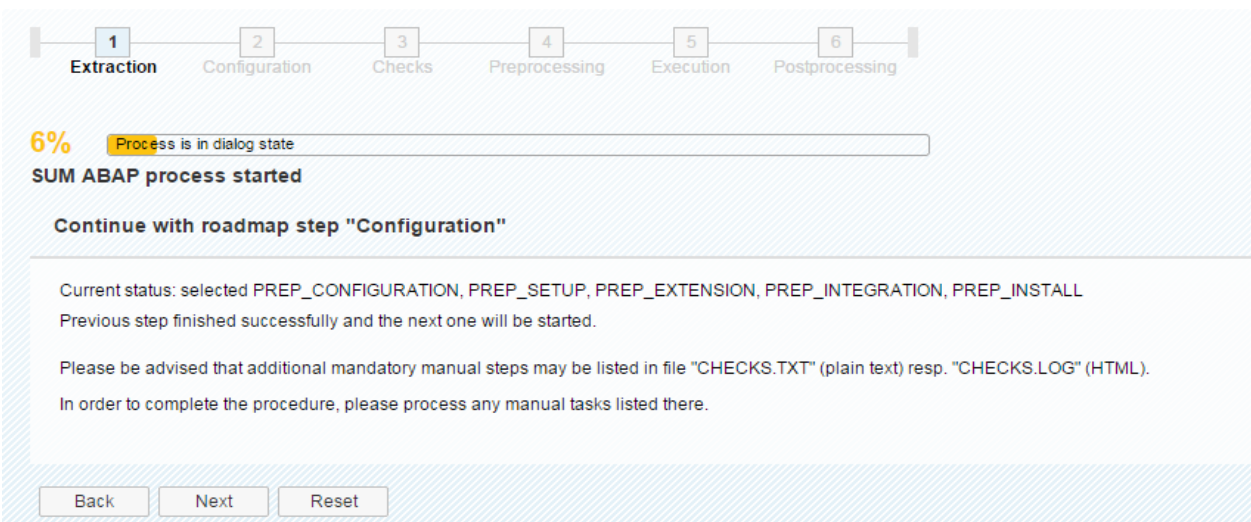
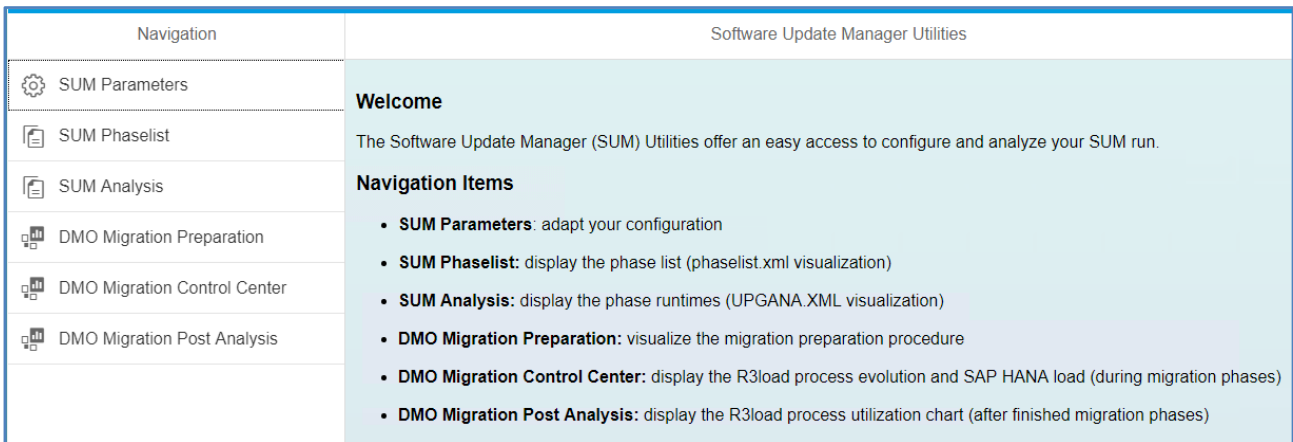
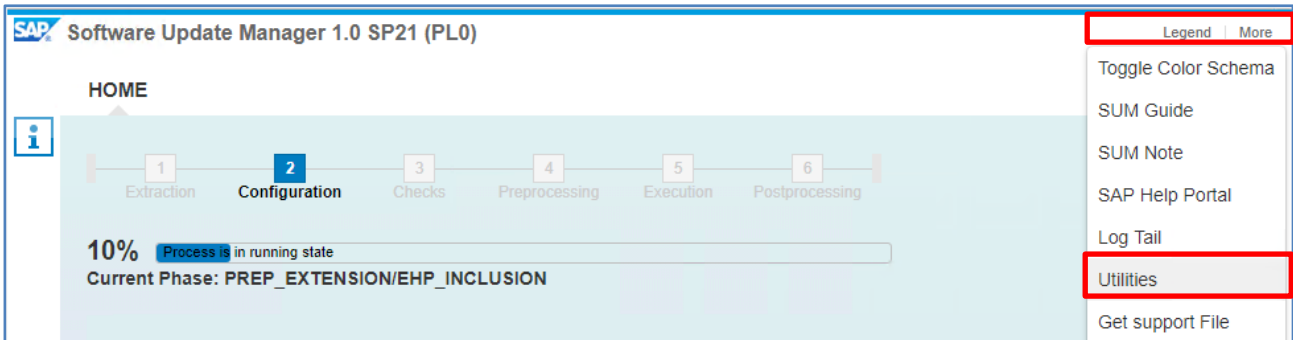
with Modification Assistant:	8
thereof SPDD-relevant:	0
without Modification Assistant:	6
thereof SPDD-relevant:	2

Non-adjusted objects with active version from SAP.

total number:	11
thereof SPDD-relevant:	1

Phase: 10 6% - PREP_PARSETUP/SPAU_FILL_LEVEL_DEC

The SUM utility UI can be opened via the drop-down menu in the upper right corner.



Phase: 11 6% PREP_CONFIGURATION/INITSUBST - END (1)

Phase Configuration (2)

6% Process is in dialog state

Current Phase: PREP_CONFIGURATION/INITSUBST

Tool Configuration

Choose the main configuration of the tool. You can adjust the detailed settings on the next screen.

Standard (standard configuration, moderate resource assignment)
 Advanced (downtime minimization capabilities, higher complexity, high resource assignment)

Keep archiving on during the whole procedure

Yes

Switch expert mode on

Yes



Check here with the latest finding mentioned in the Blog - <http://scn.sap.com/community/bw-hana/blog/2015/03/17/dmo-optimizing-system-downtime>

6% Process is in dialog state

Current Phase: PREP_CONFIGURATION/INITSUBST

Parameters for procedure

The tool uses strategy Downtime-minimized. Provide further parameters to configure the procedure. To return to the main configuration screen, choose "Back".

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

ABAP PROCESSES (UPTIME)

ABAP PROCESSES (DOWNTIME)

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

SQL PROCESSES (UPTIME)

SQL PROCESSES (DOWNTIME)

Enter the maximum number of parallel import processes:

R3TRANS PROCESSES (UPTIME)

R3TRANS PROCESSES (DOWNTIME)

Enter the maximum number of parallel R3load or table comparison processes: Migration phases doing export + import, half of it are used on either side.

R3LOAD PROCESSES (UPTIME)

R3LOAD PROCESSES (DOWNTIME)

Enter the maximum number of parallel phases to run:

PARALLEL PHASES (UPTIME)

PARALLEL PHASES (DOWNTIME)

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

Note: If it is different from the central instance (primary application server instance) host, /db2log/PB0/SUM/abap must be mounted on the background host.

Also note that during the system downtime, all background jobs are started on your central instance (primary application server instance) while the background server has to be shut down.

Automated batch job distribution (system will decide where to run the jobs)
 hdbpoc03_PB0_02 (32 batchprocesses located)

If you use the "Downtime-minimized" strategy, you can run the shadow instance on a different host in your system landscape.

Do you want to use this feature?

Use remote shadow instance

Choose an execution strategy for transaction SGEN.

Execution mode

Do not start ABAP load generation during the update.
 Generate ABAP loads on shadow system during uptime.
 Generate ABAP loads on shadow system during uptime and start asynchronously in post downtime.

Enter the maximum number of processes to be used for load generation.

Note: Generation of ABAP program loads needs high CPU resources. Choosing a number too high might affect productive operation.

SGEN PROCESSES

Phase: 12 6% PREP_CONFIGURATION/INITSUBST - tool configuration

Even if you try to change the settings in the next screen, it will go back to these settings. However, the selected option (Advanced and Switch expert mode on) is the most effective way to get the maximum on the available resources for the Upgrade/DMO process.

As with a BW upgrade the "business downtime" is more relevant than the "technical downtime". The "Downtime-minimized" strategy is not from concern here. So, the Advanced/Standard strategy is the right choice.



Please Note that the Parameters have a massive influence of the time-consuming phase during the SUM/DMO procedure. The seen values might not fit to your environment (increase them accordantly).

7% Process is in dialog state

Current Phase: PREP_CONFIGURATION/SUBMOD_MIG_INSTCLIENT/HDB_INSTCLIENT

Target database client

The tool needs access to the target database client.

Enter the following information:

Path to hdbinst for client installation

Phase: 13 7% PREP_CONFIGURATION/SUBMOD_MIG_INSTCLIENT/HDB_INSTCLIENT

SAP HANA 1.0 database client

Error! Hyperlink reference not valid.

\\[REDACTED].wdf.sap.corp\sapmnt\CIH\download\SAP_HANA_CLIENT

7% Process is in dialog state

Current Phase: PREP_CONFIGURATION/SUBMOD_MIG_CONFIG/HDB_MIGCONFIG

Required Migration Specific Passwords

Enter parameters for the Hana database on host [REDACTED].corp" instance number "02":

Target database SYSTEM password

Enter target database specific passwords.

Enter the password for the DB user SYSTEM

Phase: 14 7% PREP_CONFIGURATION/SUBMOD_MIG_INSTCLIENT/HDB_INSTCLIENT

8% Process is in dialog state

Current Phase: PREP_CONFIGURATION/SUBMOD_MIG_CONFIG/HDB_MIGCONFIG

Database Migration Initialization

You are going to migrate your system to a new database.

Enter the following parameters of the target database:

Target Hostname

Enter the SID and instance number of the target database instance (might be different from your SAP system):

SID of the target database

Target Instance Number

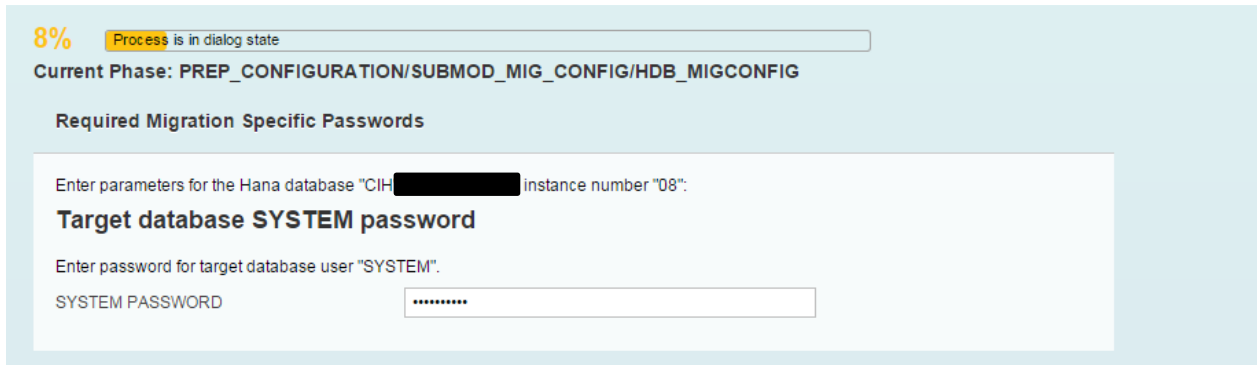
Enter the path of the SAP License file for your migrated SAP system:

Target System License

Additional Information:

Specify the database connectivity data of the target database to be used for the SAP system migration.
 In case you are using a SAP HANA multitenant database container, specify the connectivity data of the target database tenant.
 In case you are using a SAP HANA multitenant database container, and want to create a new database tenant, specify the connectivity data of the database tenant to be created.

Phase: 15 8% PREP_CONFIGURATION/SUBMOD_MIG_CONFIG/HDB_PREPARE



Phase: 16 8% PREP_CONFIGURATION/SUBMOD_MIG_CONFIG/HDB_MIGCONFIG

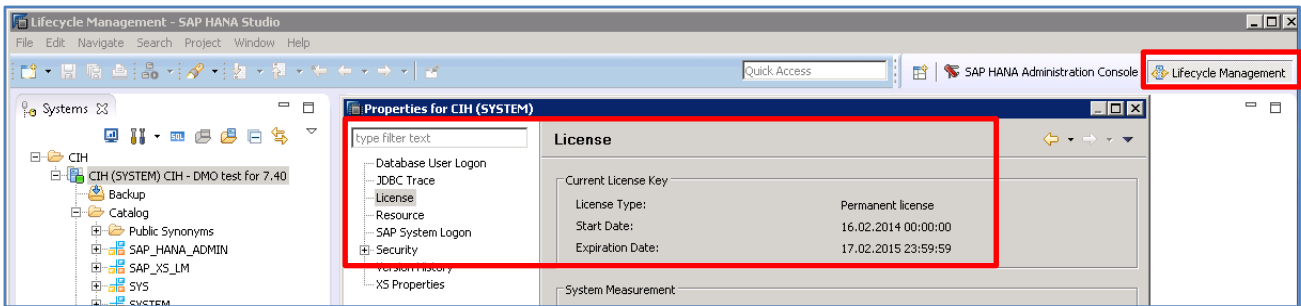
SAP HANA 1.0 License

Error! Hyperlink reference not valid.

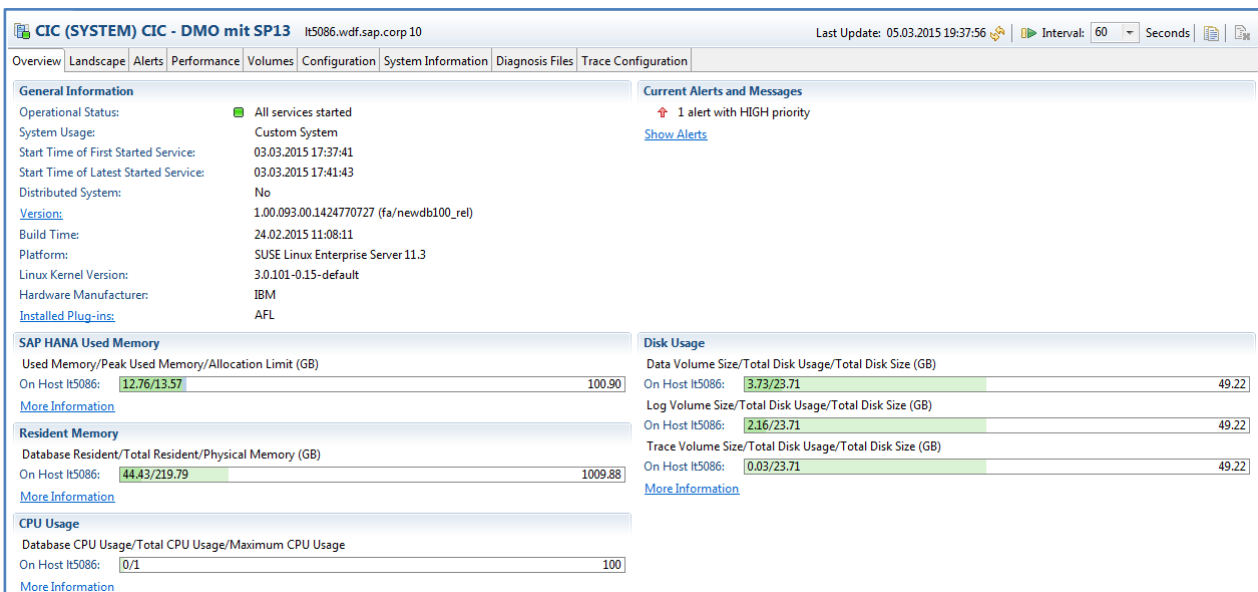
[\\\[REDACTED\].wdf.sap.corp\sapmnt\CIH\download\CIH_Standard_15.06.2016.txt](\\[REDACTED].wdf.sap.corp\sapmnt\CIH\download\CIH_Standard_15.06.2016.txt)

Get a migration key for anyDB to HDB - see internal Note (SAP Employees)

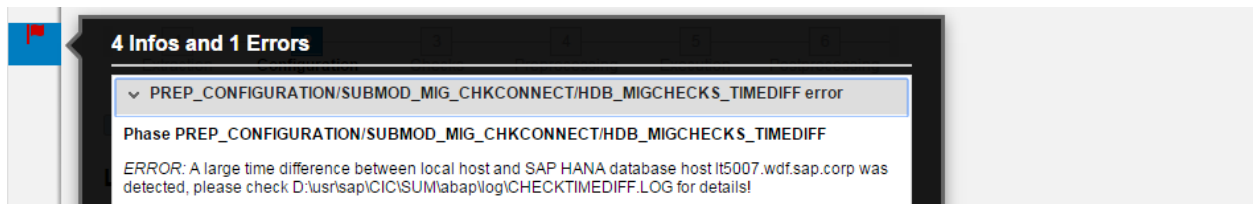
[Note 1134948 - ABAP Migration Key for special installation numbers](#)



Phase: 17 - SAP HANA Studio - Lifecycle Management

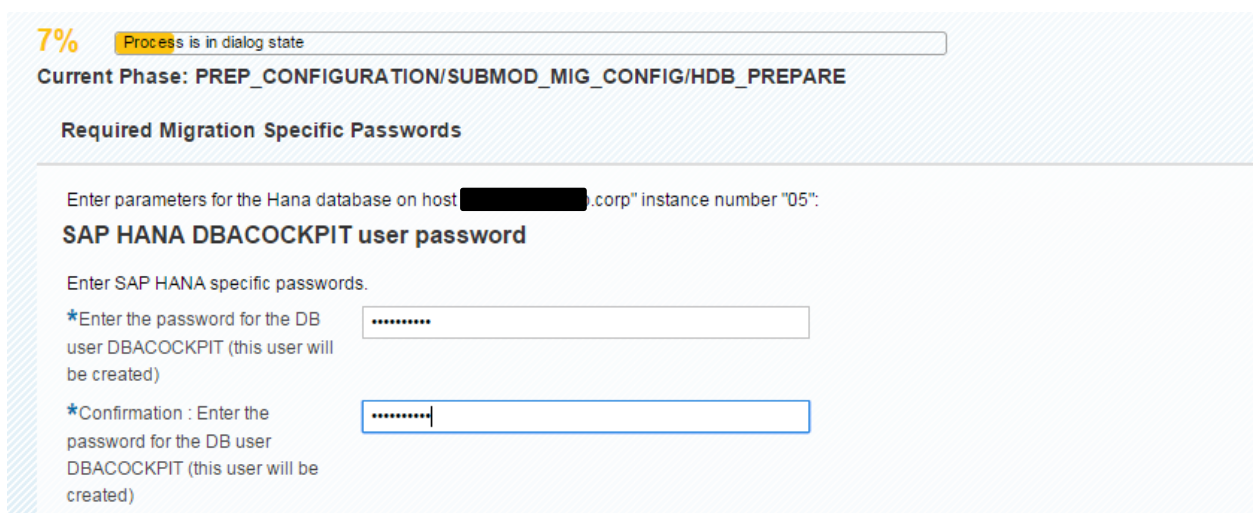


Phase: 18 - SAP HANA Studio - HDB Connection

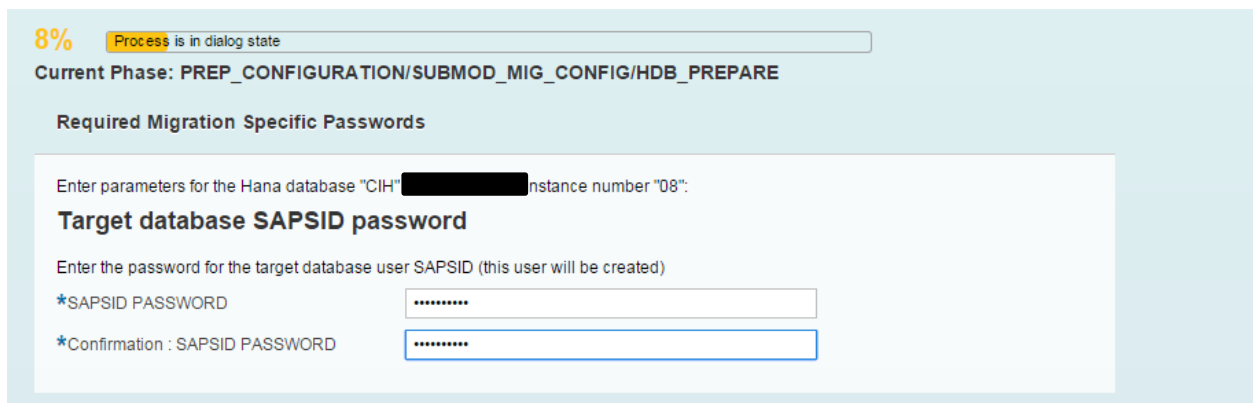


Errors during the Phases will be shown with a red flag in the left upper corner of the UI. Precede with the error messages before the end of the phase is reached.

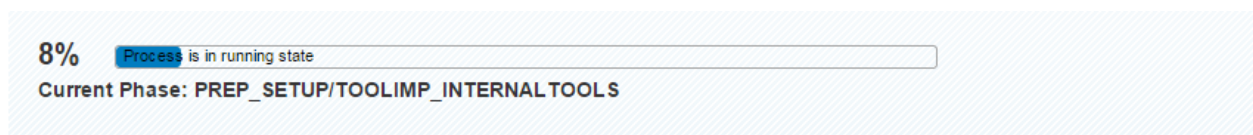
By clicking on the symbol the message become visible, clicking again will go back to the main UI.



Phase: 19 8% PREP_CONFIGURATION/SUBMOD_MG_CONFIG/HDB_PREPARE - DBACOCKPIT



Phase: 20 8% PREP_CONFIGURATION/SUBMOD_MG_CONFIG/HDB_PREPARE - SAPSID



[Note 1551454 - Illegal system time zone - use UTC only](#)

[Note 1932132 - SAP HANA: Large time difference between application server and HANA database](#)

[Note 2086087 - SAP DMO migration HDB_MIGCHECKS_TIMEDIFF](#)

[Note 2137138 - Timezone name incorrect after DST switch](#)


```
indexserver.ini    → use_startup_timezone = false
.sapenv.csh       → set TZ=CET          #add this at the end of the file
```

9% Process is in dialog state

Current Phase: PREP_CONFIGURATION/LANG_SELECT

Language Update/Installation

You need at least DVDs which contain the standard languages for all components.
 You can uninstall existing non-standard languages by de-selecting them.
You cannot uninstall standard languages!

Selected	Name	Iso Name	Location	Status
<input checked="" type="checkbox"/>	Chinese	ZH	D:\usr\sap\CIH\download\LANGUAG...	Update
<input checked="" type="checkbox"/>	Chinese trad.	ZF	D:\usr\sap\CIH\download\LANGUAG...	Update
<input checked="" type="checkbox"/>	Dutch	NL	D:\usr\sap\CIH\download\LANGUAG...	Update
<input checked="" type="checkbox"/>	English (standard language)	EN	D:\usr\sap\CIH\download\LANGUAG...	Update
<input checked="" type="checkbox"/>	French	FR	D:\usr\sap\CIH\download\LANGUAG...	Update

Phase: 21 9% PREP_CONFIGURATION/LANG_SELECT

If you have additional languages installed in your system, the language DVD must also be present in the download directory. You can deinstall additional languages in this phase, but not the default languages which are DE and EN. The language files will also be extracted by default to the DVD 51047454.

9% Process is in dialog state

Current Phase: PREP_CONFIGURATION/LANG_SELECT

Language Update/Installation Summary

Following languages will be upgraded.

Name	Iso Name	Location
Chinese	ZH	D:\usr\sap\CIH\download\LANGUAGE\DATA_UNITS\ZH
Chinese trad.	ZF	D:\usr\sap\CIH\download\LANGUAGE\DATA_UNITS\ZF
Dutch	NL	D:\usr\sap\CIH\download\LANGUAGE\DATA_UNITS\NL
English (standard language)	EN	D:\usr\sap\CIH\download\LANGUAGE\DATA_UNITS\EN
French	FR	D:\usr\sap\CIH\download\LANGUAGE\DATA_UNITS\FR

Phase: 22 9% PREP_CONFIGURATION/LANG_SELECT

By hoover the Mouse Pointer over the Phase Bar, automatically you will see the overall runtime estimate of the DMO procedure (file **SAPupStat.log** constantly updated).

9.9 % done (in phase: PREP_EXTENSION/SELSTACKXML_READ)

If you run the DMO process on a system based on copy, make sure you applied a valid license; otherwise an error will occur in this phase.

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

10% Process is in running state

Current Phase: PREP_EXTENSION/UPLOAD_FIRST

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

10% Process is in dialog state

Current Phase: PREP_EXTENSION/UPLOAD_REQUEST

Add-On Request

Continue without adding CDs
 Add (further) add-on or Support Package CDs

If you want to include add-on upgrade packages or Support Packages into the procedure, you can now provide the required CDs and packages. All relevant CDs and packages are then selected by default.

Phase: 23 10% PREP_EXTENSION/UPLOAD_REQUEST

10% Process is in dialog state

Current Phase: PREP_EXTENSION/UPLOAD_REQUEST

Enter DVD Mount Points

Enter mount points for the DVDs of the kit "NW740SR2" required for the procedure

Path	Media description	Error message
D:\usr\sap\CIH\download\KERNEL7.45	Label: MATNUMBER; NW750:kernel; BS2016:ker...	
D:\usr\sap\CIH\download\LANGUAGE	Label: D51048524_3; NW740SR2:language	
D:\usr\sap\CIH\download\SAP_HANA_CLIENT	Label: CDxxxxxxx	
D:\usr\sap\CIH\download\SAP_JCE	Label: CD51042720	
D:\usr\sap\CIH\download\DMIS_2011		

Enter at least the mount point containing ADD-On DVD

Dispose old mount points and rebuild scope

Phase: 24 10% PREP_EXTENSION/IS_INST

11% Process is in running state

Current Phase: PREP_EXTENSION/EHP_INCLUSION

Phase: 25 11% PREP_EXTENSION/EHP_INCLUSION

11% Process is in dialog state

Current Phase: PREP_EXTENSION/IS_INST

Add-On Request

Enter the additional add-ons that you want to install. Check the relevant SAP Notes to find out whether you can actually install these add-ons.

Enter the IDs and the versions of the add-ons you want to install.

+ Add - Remove

Add-On ID	Add-On Version	Details

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

11% Process is in running state

Current Phase: PREP_EXTENSION/SCANDIR_EPS

[Note 1083365 - Upgrade behavior of Addon ST-A/PI](#)

Password Vendor Key KEEP (SUM/DMO): 2902571

[Note 1678780 - Installation or upgrade of BI_CONT/BI_CONT_XT 7x7](#)

Password (SUM/DMO): 3668936

[Note 1943931 - Installation/Upgrade for the ABAP Add-On BI_CONT / BI_CONT_XT 757](#)

Password (SUM/DMO): 3821837, 5156796

[Note 1577503 - Upgrade to DMIS 2011_1 in the system switch upgrade](#)

Password (SUM/DMO): 4690407

[Note 1577441 - Installation and delta upgrade of DMIS 2011_1_1_731](#)

Password (SUM/DMO): 4690407

[Note 1577504 - Upgrade to DMIS_CNT 2011_1 in the system switch upgrade](#)

Password (SUM/DMO): 6855059

Please Note that the MOPz process is not reflecting the latest Version of the ST-A/PI Add-On when the stack.xml is created. Update to the latest Version first, before you create the stack.xml and start DMO. (Use the Installation instead of Exchange-Upgrade package)

Full Update	Exchange Update	Add-On	Version	
SAPKITAB8M	SAPK-01RB8INSSA	ST-A/PI	01S_710	(until 7.30)
SAPKITAB9Q	SAPK-01RB9INSSA	ST-A/PI	01S_731	(from 7.31 to 7.50)

11% 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 about the target release.

Selected	Add-On ID	Source Release	Target Release	Status	Note
<input type="checkbox"/>	PCAL_ENT	100	100	KEEP VERSION	632429
<input checked="" type="checkbox"/>	ST-A/PI	01M_BC0720	?	UNDECIDED	69455

11% Process is in dialog state

Current Phase: PREP_EXTENSION/IS_SELECT

Decision About Add-On ST-A/PI

Select the operation to be performed

- Upgrade the add-on with SAINT package.
- Upgrade the add-on with CD/DVD.
- Keep the add-on with the current version. Use only if supported by the add-on vendor! A vendor key is required.**
- Delete the add-on with SAINT package actively.
- Delete the add-on passively. Use only if supported by the add-on vendor!

Vendor key for KEEP decision

Phase: 26 11% PREP_EXTENSION/IS_SELECT - ST-A/PI

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

Selected	Add-On ID	Source Release	Target Release	Status	Note
<input type="checkbox"/>	PCAL_ENT	100	100	KEEP VERSION	632429
<input type="checkbox"/>	ST-A/PI	01M_BC0720	01M_BC0720	KEEP VERSION	69455

Enter the IS keyword of **SAP Note 1943931** . (IS "BI_CONT", version "757")

This is SAPup version lmt_005, build SAPup release lmt_005 version 54.000

IS keyword

Phase: 27 11% PREP_EXTENSIONS/IS_SELECT - BW_CONT

Enter the IS keyword of **SAP Note 1943931** . (IS "BI_CONT_XT", version "757")

This is SAPup version lmt_005, build SAPup release lmt_005 version 54.000

IS keyword

Phase: 2811% PREP_EXTENSIONS/IS_SELECT - BW_CONTXT

Enter the IS keyword of **SAP Note 1577441** . (IS "DMIS", version "2011_1_731")
 This is SAPup version lmt_005, build SAPup release lmt_005 version 54.000

IS keyword

Phase: 29 11% PREP_EXTENSIONS/IS_SELECT - DMIS 2011_1_731

11% Process is in error state

Current Phase: PREP_EXTENSION/ADDONSEPARATION

Repeat Phase

Severe error(s) occurred in phase PREP_EXTENSION/ADDONSEPARATION!
 Last error code set: The MOBILE functionality is used but the 'SUPDOE' addon is not included in the xml file

Phase: 30 11% PREP_EXTENSION/ADDONSEPARATION

If you come along this error message, you must add the SPUDOE Add-On (K-731AHINSUPDOE.SAR) to the stack.xml despite if it was in use or not. Update your stack.xml with the additional Add-On needed.

[Note 1651470 - Release strategy for the ABAP add-on SUPDOE](#)

★

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

11.6 % done (in phase: PREP_EXTENSION/IS_SELECT)

Decision About Add-On PCAI_ENT

- Upgrade the add-on with SAINT package.
- Keep the add-on with your version.
- Delete the add-on with SAINT package actively.

Phase: 31 11% PREP_EXTENSIONS/IS_SELECT - PCAI_ENT

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.

Compo...	Release	Export ...	Minimu...	Equival...	Maxim...	Calcula...	Current...	Status
SAP_ABA	740	8	12	12	12		12	
SAP_GW...	740	8	12	12			12	
SAP_UI	740	9	13	13			13	
SAP_BA...	740	8	12	12	12		12	
ST-PI	740	0	2	2			2	

Depending on the number of available files in the download directory this can be a time-consuming phase.

On Win64 based system make sure, that the directory /sapmnt/<SID>/download is read/write accessible from the <sid>adm and SAPService<SID> to prevent errors and switch off the virus scanner during this phase.

With the Advantage of the Service Releases SR2 ≤ SP08, only the Delta to the latest Support Stack must be calculated.

12% 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.

Comp...	Release	Export ...	Minimu...	Equival...	Maxim...	Calcul...	Curren...	Status
SAP_ABA	740	8	12	12	12		12	
SAP_G...	740	8	12	12			12	
SAP_UI	740	9	13	13			13	
SAP_BA...	740	8	12	12	12		12	
ST-PI	740	0	2	2			2	
CTS_PL...	200		15	15			15	
PI_BASIS	740	8	12	12			12	
SAP_BW	740	8	12	12	12		12	
BI_CONT	757		6	6			6	
BI_CON...	757		6	6			6	
SUPDOE	731		0	0			0	
DMIS	2011_1...		6	6			8	
PCAI_ENT	100		0	0			0	
ST-A/PI	01M_B...		0	0			0	

Back Next Reset

Phase: 33 12% PREP_EXTENSIONS/BIND_PATCH

Furthermore, also the current SAPCryptoLib package SAPCRYPTOLIBP_8xxx-200xxxxx.SAR must be added to the download directory (where the stack.xml is provided) manually.

As the PCAI_ENT Add-On (BW-PCA "License") also has a deinstallation option, you should deinstall this Add-On to avoid follow up errors.

In case of additional Support Packages, e.g. ST-PI 2008_1_700/710 you should take over the calculated level. This will include the additional updates.

12% Process is in dialog state

Current Phase: PREP_EXTENSION/BIND_PATCH

Include SPAM Update

The program has found the following SPAM Update package:

Request	SAPKD74058
Version	0058
Text	SPAM/SAINT Update - Version 740/0058

Choose how you want to proceed:

- Include SPAM update SAPKD74058
- Search for newer SPAM update in \\wdf4368\sapmnt\trans\EPS\in
- Do not include a SPAM update

Phase: 34 12% PREP_EXTENSIONS/BIND_PATCH - SPAM update

12% Process is in dialog state

Current Phase: PREP_EXTENSION/BIND_PATCH

Include Change Request

Enter a Customer Change Request that you want to include into the procedure. If you do not want to include a Customer Change Request, leave the field empty.

Add
 Remove

Request	Status

Phase: 35 12% PREP_EXTENSIONS/BIND_PATCH - include change request

The Report SCWN_TRANSPORT_NOTES allow you to add SAP Notes as transports, instead of having this interaction screen. See more details here - [Note 1788379 - Transport of SAP NOTES](#)

12% Process is in dialog state

Current Phase: PREP_EXTENSION/ADDON_LANGINC

AddOn language missing

WARNING: Add-on language inclusion completed but not for all Add-on packages for all selected languages have been included for the selected languages "1MNEFDJ3"

Language packages are missing for the following Add-ons/languages:

Add-on	Language
DMIS	Chinese, Chinese trad., Dutch, Korean

If you want to include (further) Add-on language packages, you need to provide the corresponding package files in the DIR_EPS/in directory and repeat the phase.

Include further packages?

- Include further Add-on language packages
- Do not include further Add-on language packages

Phase: 36 12% PREP_EXTENSIONS/ADDON_LANGINC - DMIS Add-On decision

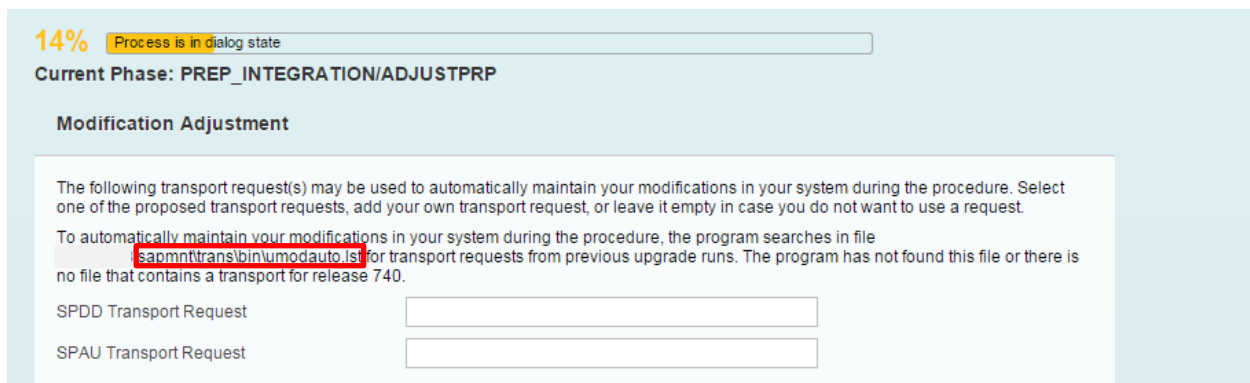
13% Process is in running state

Current Phase: PREP_EXTENSION/CONFLICT_CHECK

Phase: 37 13% PREP_EXTENSIONS/CONFLICT_CHECK - Note 889596

If errors occur, the Report RSSPAM_PREPARE_UC is started by preparation report UMG_ADD_PREP_STEP and its only action is to delete the contents of table OCSCMPLOBJ.

This table is used by the Support Package Manager and by the Add-On Installation Tool to save formatted object lists for add-on conflict verification during the import of Support Packages. Since the contents of the table depend on the type of character encoding used (UNICODE, non-UNICODE), the contents must be deleted prior to a UNICODE conversion.



14% Process is in dialog state

Current Phase: PREP_INTEGRATION/ADJUSTPRP

Modification Adjustment

The following transport request(s) may be used to automatically maintain 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 `\\sapmnt\trans\bin\umodauto.lst` for transport requests from previous upgrade runs. The program has not found this file or there is no file that contains a transport for release 740.

SPDD Transport Request

SPAU Transport Request

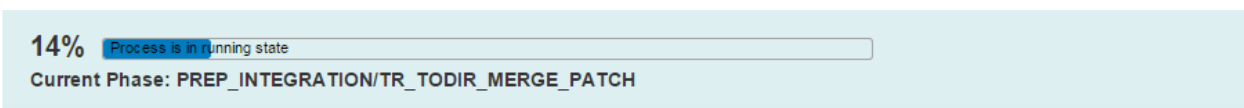
Phase: 38 14% PREP_INTERACTION/ADJUSTTPRP

If you prepare the file `\\server\sapmnt\trans\bin\umodauto.lst` then you have to provide the entries in the following format before you enter the phase.

SPDD/SPAU 740 trcorr, for example

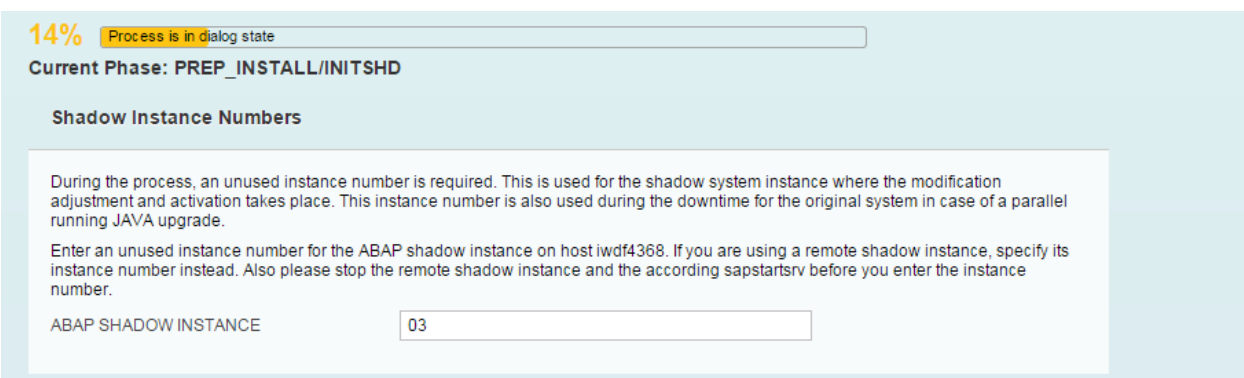
SPAU 740 CIHK900031

If the transport was created for a different SP, you have to tick the option box in addition.



14% Process is in running state

Current Phase: PREP_INTEGRATION/TR_TODIR_MERGE_PATCH



14% Process is in dialog state

Current Phase: PREP_INSTALL/INITSHD

Shadow Instance Numbers

During the process, an unused instance number is required. This is used for the shadow system instance where the modification adjustment and activation takes place. This instance number is also used during the downtime for the original system in case of a parallel running JAVA upgrade.

Enter an unused instance number for the ABAP shadow instance on host iwd4368. If you are using a remote shadow instance, specify its instance number instead. Also please stop the remote shadow instance and the according sapstartsrv before you enter the instance number.

ABAP SHADOW INSTANCE

Phase: 39 14% PREP_INSTALL/INITSHD - advanced option

14% Process is in dialog state

Current Phase: PREP_INSTALL/SHDINST_CPY

Shadow System Profiles

If you have run the procedure before in an identical environment, you can use the profiles generated there for the shadow system. If you want to use this feature, make sure that these profiles are located in the subdirectory <save>.
Do you want to use the profiles from <save> subdirectory?

Yes
 No

Phase: 40 14% PREP_INSTALL/SHD INST_CPY

15% Process is in running state

Current Phase: PREP_SHDTABLES/RUN_DBCLONE_INIT

15% Process is in dialog state

Current Phase: PREP_SPACECALC/INIT_CNTRANS_NEW

Continue with roadmap step "Checks"

Current status: continue with phase PREP_SPACECALC/INIT_CNTRANS_NEW
Previous step finished successfully and the next one will be started.

Note that additional mandatory manual steps might be listed in the file "CHECKS.LOG" (html)
Identical content, but in TEXT format, can be found in the file "CHECKS.TXT" (plain text)
It contains entries of type info.

In order to complete the procedure, please process any manual tasks listed there.

Phase: 41 15% PREP_INSTALL/JOB_FILL_TPF_CHK_PHASES - END (2)

Phase Checks (3)

16% Process is in running state
Current Phase: PREP_SPACECALC/TR_GET_SPCREQ_IMP

16% Process is in running state
Current Phase: PREP_SPACECALC/TR_GET_SPCREQ_ADD

16% Process is in running state
Current Phase: PREP_SPACECALC/TR_GET_SPCREQ_DISC

17% Process is in running state
Current Phase: PREP_GENCHECKS/JOB_STRU_TADIR_GEN_1

Phase: 42 17% PREP_GENCHECKS/JOB_RSUPGRCHECK_PRE

18% Process is in running state
Current Phase: PREP_GENCHECKS/JOB_TS_UPG41

Phase: 43 18% PREP_GENCHECKS/JOB_TS_UGR41 - report RSUGRCHECK

18% Process is in running state
Current Phase: PREP_GENCHECKS/NTACT_CHK

20% Process is in dialog state
Current Phase: PREP_PREPROC/SAVE_VAR_CHK

Save Variants

The next phase runs a report which saves and restores variants from your system. Read [SAP Note 1696821](#) carefully.

Do you want to run the JOB_RASUVAR1(2) phases?

- Yes
 No

Phase: 44 20% PREP_PREPROC/SAVE_VAR_CHK - save variants

20% Process is in running state
Current Phase: PREP_PREPROC/JOB_RASUVAR1

20% Process is in running state

Current Phase: PREP_PREPROC/RUN_RSWBO230_PRE

20% Process is in dialog state

Current Phase: PREP_PREPROC/SUBMOD_MIG_BI_TASKS_PREP/MIG2NDDB_HANA_BW_PARAMS

Parameters for BI-Specific reports

Within the next phases certain BI housekeeping tasks will be performed. Please decide which data shall be deleted in the database.
Caution: The data deleted during the next phases as specified in the fields below cannot be restored by resetting upgrade process.

Enter the amount of data to be deleted:

Delete temporary BW query bookmarks older than ... days:	<input type="text" value="2"/>
Delete sent BW query bookmarks older than ... days:	<input type="text" value="2"/>
Delete BW traces older than ... days:	<input type="text" value="2"/>
Delete BW statistics older than ... days:	<input type="text" value="2"/>

Phase: 45 20% PREP_PREPROC/SUBMOD_MIG_BI_TASKS_PREP/MIG2NDDB_HANA_BW_PARAMS

18% Process is in dialog state

Current Phase: PREP_PREPROC/REQ_ASU_RUN

Start ASU Toolbox

To perform the manual application-specific pre-upgrade steps, start ASU Toolbox now. To do this, logon in English and run transaction /ASU/UPGRADE. For more information, see [SAP Note 1000009](#).

Furthermore in this Phase and in the next Phases additional cleaning Tasks are running, which are part of the pre migration task list - **SAP_BW_BEFORE_MIGRATION**

20% Process is in running state

Current Phase: PREP_PREPROC/SUBMOD_MIG_BI_TASKS_PREP/RUN_PSA_PARTITION_CHECK

20% Process is in running state

Current Phase: PREP_PREPROC/SUBMOD_MIG_BI_TASKS_PREP/RUN_PSA_CLEAN_PARTNO_DIR

Phase: 46 20% SUBMOD_MIG_BI_TASKS_PREP/RUN_PSA_*

[Note 2182306 - 730SP14: PSA Version create step in DMO tool hangs](#)

Depending on the size of the source database these Phases can be very time intensive. Cleaning out the PSA beforehand can save a lot of time in advance, Reports RSAR_PSA_CLEANUP_DIRECTORY and RSAR_PSA_CLEANUP_DEFINITION

[Note 2026343 - SP34: Performance improvement of PSA Housekeeping tasks](#)

[Note 2026853 - PSA: Dump in RSAR_PSA_CLEANUP_DIRECTORY - PSA table are more than 2 billion rec.](#)

[Note 2062928 - SP34: Incorrect behavior during Extraction of data from DataSource \(PSA\) using DTP](#)

[Note 2129477 - 73OSP14: Selection Option unavailable for the report RSAR_PSA_CLEANUP_DEFINITION](#)

[Note 2132264 - SP35: Incorrect error messages shown report 'RSAR_PSA_CLEANUP_DIRECTORY/_MS](#)

[Note 2190948 - 73OSP14: DMO/Housekeeping Task 'PSA_MAPPING_CHECK' inac. older version of PSAs](#)

[KBA Note 1909069 - error DA093 & RSM1156 during PSA/changelog deletion](#)

Table RSADMINA Display	
CUSTOMIZID	BW
BW USER	ALEREMOTE
DEBUG USER	
BEX REQUEST	
DBSYSDEPGLOBL	
DBSYSDEPREAD	
HIERREL	
MONFILLED	
IDOCLASTNBR	93
ISLASTNBR	0
TSLASTNBR	0
MONARCHNBR	0
XPRADONE	
BWMANDT	3
ODSMAXTASKS	0
ODSMINPAKSIZE	0
ODSACTTIMEOUT	0
ENQ PROT ON	
ODSSERVGROUP	
BWMANDTRFC	
TPBWMANDTRFC	CIHCLNT003
MDINSRECBYREC	
TREX RFC DEST	TREX_CIM_003
PAK MD DEL	X
TLOGO EXEC DISAB	

Phase: 47 - Edit table RSADMINA - select BEX REQUEST to delete

Check that the table RSADMINA (transaction SE16) the entry BEX REQUEST is removed.

Later in the process the correct entry TPBWMANDTRFC to logon on will be used as well.

In case of Oracle and DB6 you also must create additional temporary table spaces.

Example for DB6:

```
Create tablespace MIG#ES740DX with 7680 MB
```

```
Create tablespace MIG#ES740IX with 4890 MB
```

```
Create tablespace MIG#EL740DX with 5110 MB
```

```
Create tablespace MIG#EL740IX with 420 MB
```

```
db2 -tvf DB6TBSXT.CLP
```

20% Process is in dialog state

Current Phase: PREP_PREPROC/REQ_ASU_RUN

Start ASU Toolbox

To perform the manual application-specific pre-upgrade steps, start ASU Toolbox now. To do this, use transaction /ASU/UPGRADE. For more information, see SAP Note 1000009.

Phase: 48 20% PREP_PREPROC/REQ_ASU_RUN - start ASU toolbox

Transaction /ASU/UPGRADE (Note 1000009)

ASU Toolbox

Import New ASU Content Definition

ASU Scenario/Version	Description	Created by	Selected ASU Content Version
<ul style="list-style-type: none"> BW Upgrade with DMO <ul style="list-style-type: none"> 20140314111111 SAP Netweaver BI SAP Netweaver04s BI 	BW specifics for Upgrade with DMO from BW 7.0x or 7....	1008817	Scenario: BW Upgrade with DMO Version: 20140314111111 Description: BW specifics for Upgrade with DMO from BW 7.0x or 7.3x Task List: 0-ASU00032

ASU Schedule Manager: Display - BW specifics for Upgrade with DMO from

User Notes On | Display/Change Task List

Task List	Severity	Descript.	Note	Docu.	UserRemark	Status	Spool List	Jo...
Scenario "BW Upgrade with DMO " Version "20140314111111"								
Preparation Steps								
Manual Preparation Steps								
• Check some notes before upgrade	Obligatory							
• Add-On Compatibility of SAP NetWeaver 7.4	Obligatory		1826531					
• Domain RSCHAVL will be changed from CHAR60 to SSTRING 1333.	Obligatory		1879618					
• Check/Repair Status of Info Objects	Optional		458363					
• Check inconsistencies with RSZ* Tables	Optional		792779					
• Activate Info Objects	Optional							
• Clean/delete the messages for error logs	Optional		1095924					
• Check codepage settings.	Optional		42305					
• Check Master Data consistency.	Optional		1033721					
• Cleanup background jobs.	Optional		784969					
Fully Automated Preparation Steps								
Follow-Up Steps								
Manual Follow-Up Steps								
• Initial system check.	Obligatory							
• important notes after upgrade	Obligatory							
• Migration Analysis Authorization	Obligatory							
• Activate BEx history	Optional		744009					
• RSMSTATASATE inconsistencies after upgrade from 7.0x to 7.3x	Optional		1633303					
Fully Automated Follow-Up Steps								

Phase: 49 - Transaction /ASU/UPGRADE

20% Process is in dialog state

SUM ABAP process started

Continue with roadmap step "Checks"

Current status: continue with phase PREP_GENCHECKS/CONFCHK

The step did not complete successfully and will continue at the point it failed.

Please be advised that additional mandatory manual steps might be listed in the file "CHECKS.LOG" (HTML) resp. - in a more human readable form - in "CHECKS.TXT" (plain text)

In order to complete the procedure, please process any manual tasks listed there.

Phase: 50 20% MAIN_INIT/BEGIN - END (3)

Phase Preprocessing (4)

[Note 1764085 - Error Update records still exist - Please process during phase JOB_RSVBCHCK_D](#)

[Note 1705774 - Error in phases MAIN_SWITCH/JOB_RSVBCHCK2 or](#)

[MAIN_SWITCH/JOB_RSVBCHCK_D; Checks after phase MAIN_INIT/JOB_RSVBCHCK* were negative.](#)

[Note 2089122 - SAP HANA DB: CDS view with external view as base object cannot be created in the database](#)

[Note 2519247 - MAIN_NEWBAS/XPRAS_AIMMRG: Invalid objects: 'After Import' terminated](#)

Settings in table RSADMIN to optimize runtime and errors in Phase XPRAS_AIMMRG:

[Note 1629923 - Skip BW technical content objects activation during upgrade](#)

Set the parameter with the Report SAP_RSADMIN_MAINTAIN into table RSADMIN

```
SKIP_TCO_ACTIVATION_XPRA = X
```

You can run the XPRAS_RS_TCO_ACTIVATION_XPRA after the technical upgrade has finished. Make sure the parameter mentioned above is removed from table RSADMIN before executing the XPRAS.

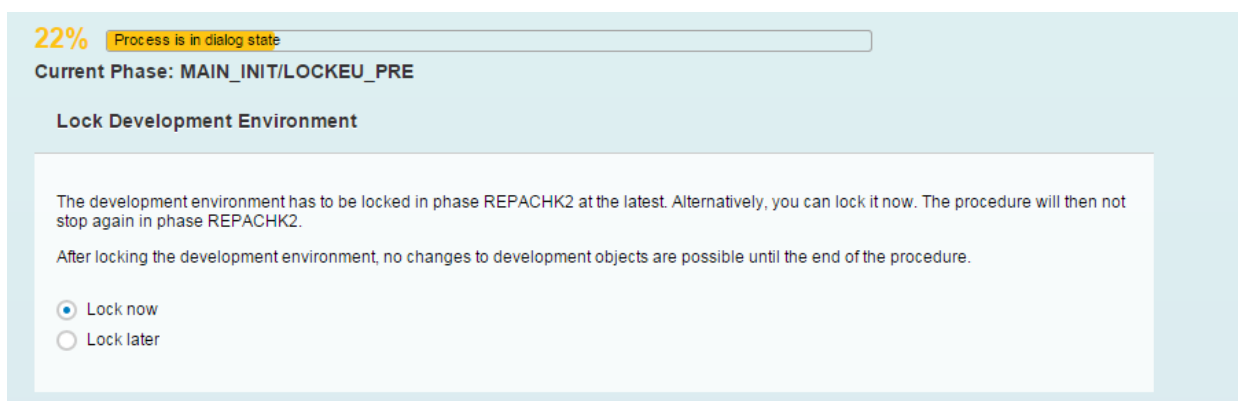
[Note 1649901 - Time-critical processes in BW upgrade/Support Package import](#)

```
PSEUDO_D_AFTER_IMPORT_D = ''
```

```
REPL_D_AFTER_IMPORT_D = X
```

[Note 1934939 - CX_SY_IMPORT_MISMATCH_ERROR dump during XPRAS of a transport during upgrade](#)

```
RSVERS_BI_IMPORT_ALL = ' '
```



22% Process is in dialog state

Current Phase: MAIN_INIT/LOCKEU_PRE

Lock Development Environment

The development environment has to be locked in phase REPACHK2 at the latest. Alternatively, you can lock it now. The procedure will then not stop again in phase REPACHK2.

After locking the development environment, no changes to development objects are possible until the end of the procedure.

Lock now
 Lock later

Phase: 51 22% MAIN_INIT/LOCKEU_PRE - lock development environment



Despite what Information you might have from other sources, from now on you cannot maintain BW objects anymore without doing it on your own risk!

20% Process is in dialog state

Current Phase: MAIN_INIT/REPACHK_EHPI

Open Repairs found

Locked SAP objects have been found in open repairs, corrections, or transport orders. If these orders are not released, you will not be able to adjust these objects if necessary.

The development environment has been unlocked now. Release the repairs and transport orders to ensure that you can adjust the contained objects, if necessary.

Transport Request	User	Date	Repair	User	Date
BWSK900006	KRAMER	20170622	BWSK900007	KRAMER	20170816
BWSK900006	KRAMER	20170622	BWSK900008	BAETZ	20170622
BWSK900009	KRAMER	20170825	BWSK900010	KRAMER	20170825
BWSK900011	KRAMER	20170829	BWSK900012	KRAMER	20170831

Phase: 52 21% MAIN_INIT/REPACHK1 - check open transports

22% Process is in running state

Current Phase: MAIN_SHDCRE/SUBMOD_SHDDBCLONE/DBCLONE

Phase: 53 24% MAIN_SHDRUN/SUBMOD_SHDDBCLONE/DBCLONE

25% Process is in running state

Current Phase: MAIN_SHDCRE/EU_IMPORT1

25% Process is in running state

Current Phase: MAIN_SHDCRE/EU_IMPORT2

Phase: 54 25% MAIN_SHDCRE/EU_IMPORTx - R3trans depending

25% Process is in running state

Current Phase: MAIN_SHDCRE/SHADOW_IMPORT_UPG1

Phase: 55 25% MAIN_SHDCRE/SHADOW_IMPORT_UPG1 - R3trans depending

34% Process is in running state

Current Phase: MAIN_SHDRUN/SUBMOD_DIFFEXP/JOB_RST180

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

34% done (in phase: MAIN_SHDRUN/SUBMOD_DIFFEXP/ADJUSTCHK_UPG)

Decide About Incomplete Modification Transport

CAUTION: The program has found the transport "CIHK900031" for SPAU but it does not contain all objects which need adjustment. Nevertheless you may decide to use this transport. Check the log file for RSUMOD01: UMODPROT.CIH or run transaction SPAU now for a more detailed description. If you use the transport by choosing "Yes" below and later want to use a different one, you have to reset the whole procedure! If you choose "No", be prepared to run transaction SPAU after the procedure. Double checking the result of this import requires running transaction SPAU after the procedure (recommended). Do you want the transport to be imported automatically?

Yes, but do not double check
 Yes, but double check
 No

Phase: 56 34% MAIN_SHDRUN/SUBMOD_DIFFEXP/ADJUSTCHK_UPG

35% Process is in running state

Current Phase: MAIN_SHDRUN/START_SHDI_FIRST

Phase: 57 35% MAIN_SHDRUN/START_SHDI_FIRST

35% Process is in running state

Current Phase: MAIN_SHDRUN/AL TNTAB_FILL

36% Process is in running state

Current Phase: MAIN_SHDRUN/DDIC_UPG

Phase: 58 36% MAIN_SHDRUN/DDIC_UPG - R3trans depending

37% Process is in dialog state

Current Phase: MAIN_SHDRUN/ACT_UPG

Repository Modifications

You must now include your repository modifications in the new SAP import. The program has found 49 modified objects that you need to adjust and 0 objects are automatically maintained by import of an adjustment transport that you have included into this procedure. If you do not have included adjustment transports, please check log file SPDD_RESET_CANDIDATES.CIH for potential candidates to reset to SAP original. You may use report RSUPG_SPDD_RESET_CANDIDATES in the shadow system to automatically perform this reset to SAP original for all identified candidates. To adjust your repository, proceed as follows:

1. Logon to the shadow instance as user DDIC in client 000 on server [redacted]
2. Set the 'System Change' option with transaction SE06.
3. Create users for modification adjustment by copying user DDIC with transaction SU01.
4. Logon to the shadow instance as ordinary user and make adjustments with transaction SPDD. For more information, see the upgrade guide.

CAUTION: If you do not make adjustments now in transaction SPDD, your modifications will be lost. Even if you do not want to keep your modifications, use transaction SPDD to reset these objects to the original version.

Adjustments made, continue with procedure

Phase: 59 37% MAIN_SHDRUN/ACT_UPG - adjustments made, continue with procedure

37% Process is in running state

Current Phase: MAIN_SHDRUN/ACT_UPG

Phase: 60 37% MAIN_SHDRUN/ACT_UPG - Batch Process depending (SHD)

37% Process is in error state

Current Phase: MAIN_SHDRUN/ACT_UPG

Repeat Phase

Checks after phase MAIN_SHDRUN/ACT_UPG were negative!

Last error code set: Detected 167 errors summarized in 'ACTUPG.ELG'
 Calling 'D:\usr\sap\CIH\SUM\abap\exe\tp' failed with return code 8, check D:\usr\sap\CIH\SUM\abap\log\SAPup.ECO
 tp used shadow connect

ERROR:
 Detected the following errors:

```
# D:\usr\sap\CIH\SUM\abap\log\SAPA731ESI.CIH:
1EED0519X"DDL Source" "ACM_DDLSSSTOBVIEW_ONEROW" could not be activated
1EED0519 "DDL Source" "ACM_DT_DEPENDENCIES" could not be activated
1EED0519 "DDL Source" "ACM_USED_AUTHVIEW_OBJECTS" could not be activated
1EED0519 "DDL Source" "SACMAT2RT_VIEW" could not be activated
1EED0519 "DDL Source" "SACMAT_ROLES_AND_ITS_ASPECTS" could not be activated
1EED0519 "DDL Source" "SADL_CDS_RS_SO_ROOT_PARA_ACT" could not be activated
1EED0519 "DDL Source" "SADL_SB_AUNIT_SCARR" could not be activated
1EED0519 "DDL Source" "SADL_SB_AUNIT_SFLIGHT" could not be activated
1EED0519 "DDL Source" "SADL_SB_AUNIT_SPFLI" could not be activated
1EED0519 "DDL Source" "SADL_V_ANNOTATIONS_RT" could not be activated
1EED0519 "DDL Source" "SADL_V_EXP_NAMING" could not be activated
1EED0519 "DDL Source" "SADL_V_EXP_PRODUCT" could not be activated
1EED0519 "DDL Source" "SADL_V_EXP_SEARCH" could not be activated
1EED0519 "DDL Source" "SADL_V_EXP_S0" could not be activated
```

...skipped 249 more lines.
 Please see ACTUPG.html for more information.

System Has Been Unlocked

The shadow system has been unlocked to enable login for non-DDIC users. When you repeat this phase, the system will be locked again.

Repeat phase MAIN_SHDRUN/ACT_UPG to continue at the point it stopped

Initialize phase MAIN_SHDRUN/ACT_UPG to restart it from the beginning

INIT

Accept non-severe errors and repeat phase MAIN_SHDRUN/ACT_UPG

ACCEPT

Back | Next | Reset | Exit

The shadow system has been unlocked to enable login for non-DDIC users. When you repeat this phase, the system will be locked again.

Repeat phase MAIN_SHDRUN/ACT_UPG to continue at the point it stopped

Initialize phase MAIN_SHDRUN/ACT_UPG to restart it from the beginning

INIT

Accept errors and repeat phase MAIN_SHDRUN/ACT_UPG

ACCEPT

Phase: 61 37% MAIN_SHDRUN/ACT_UPG – create CDS views



[Note 2086899 - Upgrade phase MAIN_SHDRUN/ACT_UPG returns error messages](#)

Repeat the activation phase ACT_UPG within the DMO/SUM procedure. Several repetitions might be required.

Unlock the shadow Instance

[http://wiki.scn.sap.com/wiki/display/TechTSG/\(Un\)lock+the+shadow+instance](http://wiki.scn.sap.com/wiki/display/TechTSG/(Un)lock+the+shadow+instance)

./SAPup unlockshd

37% Process is in running state

Current Phase: MAIN_SHDRUN/RUN_RSGENVIEWSTRUC

38% Process is in running state

Current Phase: MAIN_SHDRUN/SUBMOD_MIG_SMIGR/RUN_SMIGR_CREATE_DDL

Phase: 62 38% MAIN_SHDRUN/SUBMOD_MIG_SMIGR/RUN_SMIGR_CREATE_DDL

38% Process is in running state

Current Phase: MAIN_SHDRUN/RUN_RSCPINTS_PREP

38% Process is in running state

Current Phase: MAIN_SHDRUN/JOB_INDC_UPG

Phase: 63 38% MAIN_SHDRUN/RUN_INDC_UPG

38% Process is in running state

Current Phase: MAIN_SHDRUN/PARDIST_SHD

Phase: 64 38% MAIN_SHDRUN/PARDIST_SHD

38% Process is in error state

Current Phase: MAIN_SHDRUN/PARDIST_SHD

Repeat Phase

Checks after phase MAIN_SHDRUN/PARDIST_SHD were negative!
Last error code set: Single errors (code <= 8) found in logfile 'PARDSHD.ELG'

ERROR:

Detected the following errors:

```
# D:\usr\sap\CIH\SUM\abap\log\DS150622.CIH:
2 ED0307 Platform.....: "CUSTOMER"- "CIH"("740")/"MS5QL/WindowsNT/iwdf4368"
2 ED0311 Tool.....: "BATCH"/"LSD58U02"
2 ED0315 Log.....: "F", "D:\usr\sap\CIH\SUM\abap\tmp\DS150622.CIH"
2 ED0302 .....
4 EDA507 -> "ACMAT2RT_V" - - - "iwdf4368_13_17552" "21:52:16" "22.06.2015" - - - - -
A2EESDDL_PARSER_MSG 000 Syntax Errors
2EEDA122 Error generating the program for "ACMAT2RT_V" " "
2EEDA476 Code for creating view "ACMAT2RT_V" could not be generated
2EEDA471 Result "ACMAT2RT_V": Action: "CNV" Mode flag: "E" Return code: "95"
4 EDA507 -> "ACMATDT2RT_NLNKV" - - - "iwdf4368_13_17552" "21:52:16" "22.06.2015" - - - - -
A2EESDDL_PARSER_MSG 000 Syntax Errors
2EEDA122 Error generating the program for "ACMATDT2RT_NLNKV" " "
2EEDA476 Code for creating view "ACMATDT2RT_NLNKV" could not be generated
2EEDA471 Result "ACMATDT2RT_NLNKV": Action: "CNV" Mode flag: "E" Return code: "95"
```

...skipped 118 more lines.
Please see PARDSHD.html for more information.

Trouble Ticket Generation

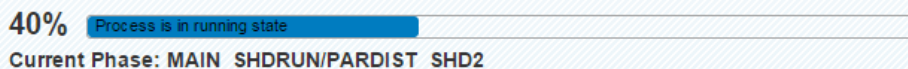
A trouble ticket and an archive with all relevant log files have been generated.
Trouble ticket: "D:\usr\sap\CIH\SUM\abap\log\SAPup_troubleticket.log"
Log archive: "D:\usr\sap\CIH\SUM\abap\log\SAPup_troubleticket_logs.sar"

Repeat phase MAIN_SHDRUN/PARDIST_SHD to continue at the point it stopped

Initialize phase MAIN_SHDRUN/PARDIST_SHD to restart it from the beginning

INIT

Phase: 65 38% MAIN_SHDRUN/PARDIST_SHD

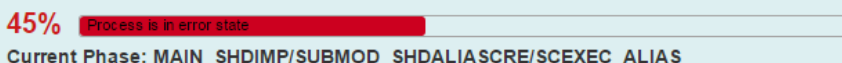
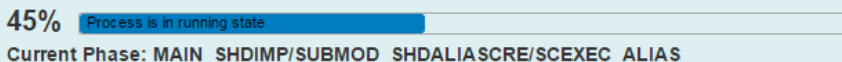


Phase: 66 40% MAIN_SHDRUN/PARDIST_SHD2



Phase: 67 44% MAIN_SHDIMP/PARMVNT_SHD

[Note 589296 - Problems w/ database links during the System Switch Upgrade](#)



Repeat Phase

Severe error(s) occurred in phase MAIN_SHDIMP/SUBMOD_SHDALIASCRE/SCEXEC_ALIAS!
Last error code set: Non single errors (code > 8) found in logfile 'SQLEXEAL.LOG'
3 error during parallel execution of processes, check 'SQLEXEAL.LOG' for details
6 processes failed, check 'SCEXEC_A.*' for details

```

ERROR:
Detected the following errors:

# D:\usr\sap\CIH\SUM\abap\log\PTALDC15.LOG:
3 ETQ398 SQL: DROP VIEW [cih_shd].[TBAC_TENORT]
3 ETQ398 SQL: CREATE VIEW [cih_shd].[TBAC_TENORT] AS SELECT * FROM [cih].[TBAC_TENORT]
3 ETQ398 SQL: DROP VIEW [cih_shd].[TBAT_PRICEQUOT_0]
1 ETQ000 =====
4 ETQ010 Date & Time: 20150711131153
1EETQ008 Error message: DBSL error 99 (db code 3705):
1EETQ009XCannot use DROP VIEW with 'cih_shd.TBAT_PRICEQUOT_0' because
1EETQ009X'cih_shd.TBAT_PRICEQUOT_0' is a table. Use DROP TABLE.
1EETQ003 exit code: "20"
    
```

Trouble Ticket Generation

A trouble ticket and an archive with all relevant log files have been generated.
 Trouble ticket: "D:\usr\sap\CIH\SUM\abap\log\SAPup_troubleticket.log"
 Log archive: "D:\usr\sap\CIH\SUM\abap\log\SAPup_troubleticket_logs.sar"

- Repeat phase MAIN_SHDIMP/SUBMOD_SHDALIASCRE/SCEXEC_ALIAS to continue at the point it stopped

Phase: 68 45% MAIN_SHDIMP/SUBMOD_SHDALIASCRE/PSCRGEN_ALIAS

[Note 1844436 - ORA-00955: name is already used by an existing object](#)

SQLXEAL.LOG → DROP TABLE <sid>_shd.TBAT_PRICE_FWD

46% Process is in error state

Current Phase: MAIN_SHDIMP/SUBMOD_SHDVIEWCRE/EU_CLONE_CRE_SHDVIEW

Repeat Phase

Severe error(s) occurred in phase MAIN_SHDIMP/SUBMOD_SHDVIEWCRE/EU_CLONE_CRE_SHDVIEW!
 Last error code set: Cannot open 'D:\usr\sap\CIH\SUM\abap\shdviews\DUMMY.LST': The system cannot find the path spe...

Trouble Ticket Generation

A trouble ticket and an archive with all relevant log files have been generated.
 Trouble ticket: "D:\usr\sap\CIH\SUM\abap\log\SAPup_troubleticket.log"
 Log archive: "D:\usr\sap\CIH\SUM\abap\log\SAPup_troubleticket_logs.sar"

- Repeat phase MAIN_SHDIMP/SUBMOD_SHDVIEWCRE/EU_CLONE_CRE_SHDVIEW to continue at the point it stopped

Initialize phase MAIN_SHDIMP/SUBMOD_SHDVIEWCRE/EU_CLONE_CRE_SHDVIEW to restart it from the be...

INIT

Phase: 69 46% MAIN_SHDIMP/SUBMOD_SHDVIEWCRE/EU_CLONE_CRE_SHDVIEW

Read/Write permissions in /SUM/abap

46% Process is in running state

Current Phase: MAIN_SHDIMP/SUBMOD_CP2SHD/SHADOW_NTACT_REC

46% Process is in running state

Current Phase: MAIN_SHDIMP/SUBMOD_CP2SHD/SUBMOD_DIFFCP2SHD/DIFFEXPABAP_CIGPR

Phase: 70 46% MAIN_SHDIMP/SUBMOD_CP2SHD/SUBMOD_DIFFCP2SHD/DIFFEXPABAP_CIGPR

47% Process is in running state

Current Phase: MAIN_SHDIMP/SUBMOD_SHDIMP/SHADOW_IMPORT_UPG2


Phase: 71 47% MAIN_SHDIMP/SUBMOD_SHDIMP/SHADOW_IMPORT_UPG2 - R3trans depended

47% Process is in running state

Current Phase: MAIN_SHDIMP/SUBMOD_SHDIMP/SHADOW_IMPORT_INC

Process is in running state

Current Phase: MAIN_SHDIMP/SUBMOD_SHDIMP/SHADOW_IMPORT_INC



Process execution in progress

4% Task is in running state

Executing phase
 MAIN_SHDIMP/SUBMOD_SHDIMP/SHADOW_IMPORT_INC:
 Imports included Add-on and Support Packages
 into the shadow tables and the new tables

Phase: 72 47% MAIN_SHDIMP/SUBMOD_SHDIMP/SHADOW_IMPORT_INC - R3trans dependent

47% Process is in running state

Current Phase: MAIN_SHDIMP/SUBMOD_SHDIMP/TABIM_REDUCE

47% Process is in running state

Current Phase: MAIN_SHDIMP/SUBMOD_SHD2_RUN/NTACT_ALTNT

Phase: 73 47% MAIN_SHDIMP/SUBMOD_SHD2_RUN/NTACT_ALTNT

49% Process is in running state

Current Phase: MAIN_SHDIMP/SUBMOD_SHD2_RUN/RUN_RSAIMMERGE_UPG_SHD

49% Process is in running state

Current Phase: MAIN_SHDIMP/SUBMOD_SHD2_RUN/XPRAS_SHD_AIMMERGE

Phase: 74 49% MAIN_SHDIMP/SUBMOD_SHD2_RUN/XPRAS_SHD_AIMMERGE

Process is in error state

Current Phase: MAIN_SHDIMP/SUBMOD_SHD2_RUN/SUBMOD_MIG_UC/RUN_RADCUCNT_DMOORIG

```
4 ETG039 -----
2EETG012 "UC-Nametab does not exist for: /BIC/F100033" " "
2EETG012 "UC-Nametab does not exist for: /BIC/F100034" " "
2EETG012 "UC-Nametab does not exist for: /BIC/F100261" " "
2EETG012 "UC-Nametab does not exist for: /BIC/F100346" " "
2EETG012 "UC-Nametab does not exist for: /BIC/F100352" " "
2EETG012 "UC-Nametab does not exist for: /BIC/F100354" " "
```

```
### Phase MAIN_SHDIMP/SUBMOD_SHD2_RUN/SUBMOD_MIG_UC/JOB_UCMIG_TO_DDYTT1:
### Phase MAIN_SHDIMP/SUBMOD_SHD2_RUN/SUBMOD_MIG_UC/JOB_UCMIG_TO_DDYTT1:
### Phase MAIN_SHDIMP/SUBMOD_SHD2_RUN/SUBMOD_MIG_UC/JOB_UCMIG_TO_DDYTT1:
### Phase MAIN_SHDIMP/SUBMOD_SHD2_RUN/SUBMOD_MIG_UC/JOB_UCMIG_TO_DDYTT1:
```

Phase: 75 50% MAIN_SHDIMP/SUBMOD_SHD2_RUN/SUBMOD_MIG_UC/JOB_UCMIG_TO_DDYTT1

Check table DDYTT in case of DMO problems with DDNTT_CONV_UC and Phase JOB_UCMIG_TO_DDYTT1 and follow the suggestion from [SAP Note 1307982](#)

[Note 1426513 - Unicode Conversion: check nametab tables](#)

[Note 2463053 - DD source table <table name> could not be read \[collection note\]](#)

Process is in error state

Current Phase: MAIN_SHDIMP/SUBMOD_SHD2_RUN/SUBMOD_MIG_UC/RUN_RADCUCNT_DMOSHD

```
1EED0538 DD sources table "/BIC/F100354" could not be read
1 ED0314 Convert object: /BIC/F100352
1EED0538 DD sources table "/BIC/F100352" could not be read
1 ED0314 Convert object: /BIC/F100346
1EED0538 DD sources table "/BIC/F100346" could not be read
1 ED0314 Convert object: /BIC/F100261
1EED0538 DD sources table "/BIC/F100261" could not be read
 Repeat phase MAIN_SHDIMP/SUBMOD_SHD2_RUN/SUBMOD_MIG_UC/RUN_RADCUCNT_DMOSHD to continue at the point it stop...
 Ignore phase errors and proceed to next phase
```

Back Next

Phase: 76 50% MAIN_SHDIMP/SUBMOD_SHD2_RUN/SUBMOD_MIG_UC/RUN_RADCUCNT_DMOSHD

51% Process is in running state

Current Phase: MAIN_SHDIMP/SUBMOD_SHD2_RUN/RUN_RSGEN

Phase: 77 51% MAIN_SHDIMP/SUBMODE_SHD2_RUN/RUN_RSGEN - Batch Process depending

51% Process is in running state

Current Phase: MAIN_SHDIMP/SUBMOD_SHD2_RUN/SUBMOD_MIG_DIST/NTACT_ALTNT_PREPMIG

Phase: 78 51% MAIN_SHDIMP/SUBMOD_SHD2_RUN/SUBMOD_MIG_DIST/NTACT_ALTNT_PREPMIG

Process is in running state

Current Phase: MAIN_SHDIMP/SUBMOD_SHD2_RUN/SUBMOD_MIG_DIST/PARDIST_MIG

Phase: 79 51% MAIN_SHDIMP/SUBMOD_SHD2_RUN/SUBMOD_MIG_DIST/PARDIST_MIG

55% Process is in running state

Current Phase: MAIN_SHDIMP/SUBMOD_SHDDEL2/PSCRGEN_DROP_SHD_TABLE2

Phase: 80 55% MAIN_SHDIMP/SUBMOD_SHDDEL2/PSCRGEN_DROP_SHD_TABLE2

57% Process is in running state

Current Phase: MAIN_SHDIMP/SUBMOD_FATESTS/RUN_RSDB02CK_MOD

Phase: 81 57% MAIN_SHDIMP/SUBMOD_FATESTS/RUN_RSDB02CK_MOD

Process is in running state

Current Phase: MAIN_SHDIMP/SUBMOD_MIG_SETUP/EU_CLONE_MIG_UT_SIZES

Process is in running state

Current Phase: MAIN_SHDIMP/SUBMOD_MIG_SETUP/EU_CLONE_MIG_DT_SIZES

Phase: 82 57% MAIN_SHDIMP/SUBMOD_MIG_SETUP/EU_CLONE_MIG_DT_SIZES

58% Process is in running state

Current Phase: MAIN_SHDIMP/SUBMOD_MIG_PREPARE/EU_CLONE_MIG_UT_PRP

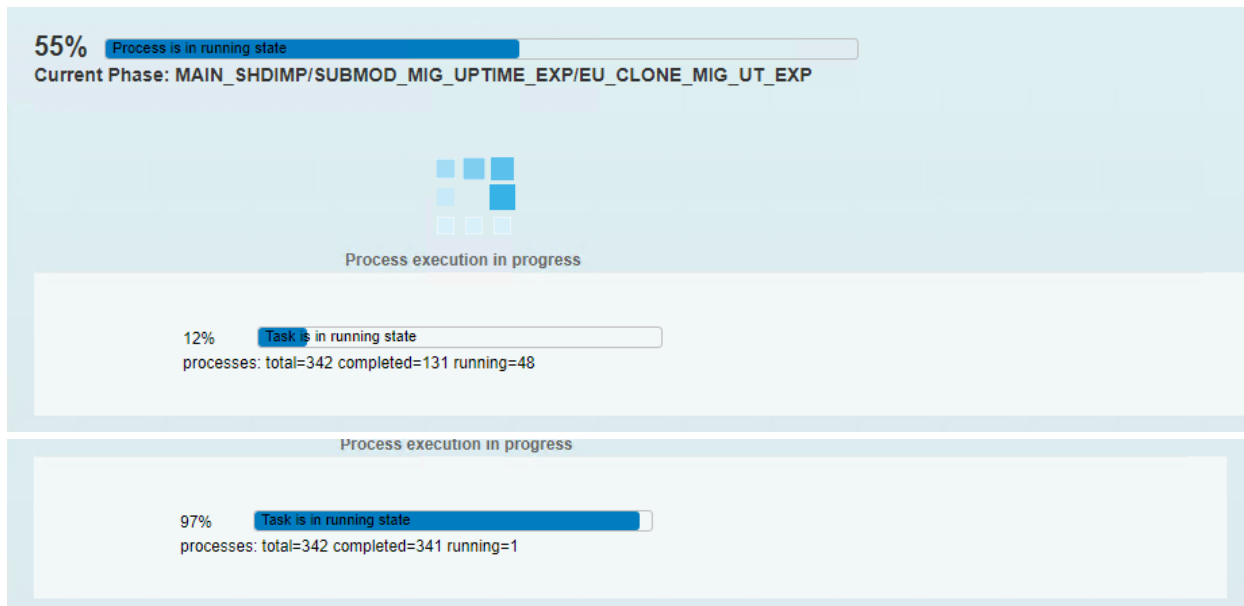
Process is in running state

Current Phase: MAIN_SHDIMP/SUBMOD_MIG_PREPARE/EU_CLONE_MIG_DT_PRP

Phase: 83 58% MAIN_SHDIMP/SUBMOD_MIG_PREPARE/EU_CLONE_MIG_DT_PRP

59% Process is in running state

Current Phase: MAIN_SHDIMP/SUBMOD_MIG_UPTIME_RUN/EU_CLONE_MIG_UT_CREATE



57% Process is in dialog state
 Current Phase: MAIN_MIGSERIALSETUP/HOSTCHANGE_MOVE

DMO with System Move: Data Transfer

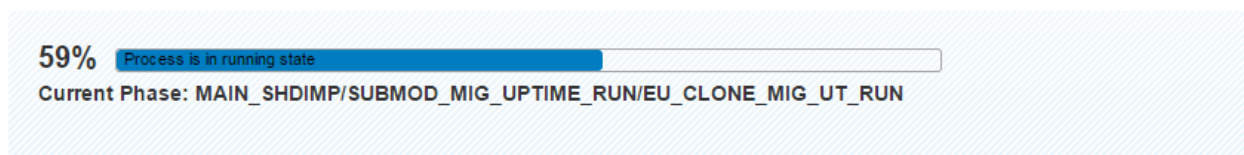
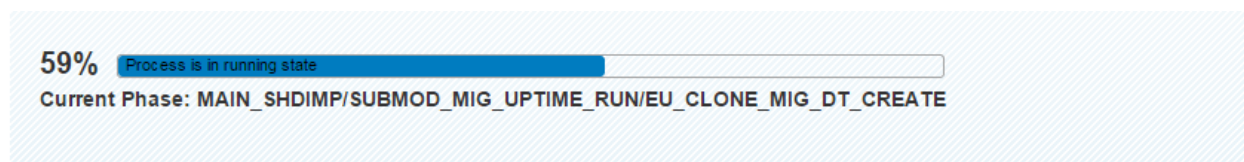
The tool is running on host "schwenkbw4dmo" in phase "MAIN_MIGSERIALSETUP/HOSTCHANGE_MOVE".
 You can choose between two options for synchronization:

- 1. Serial mode:**
 You only transfer the SUM directory once, in later phase "HOSTCHANGE_STOP". There is no action required now.
- 2. Parallel mode:**
 The parallel mode is based on a continuous synchronization of files and on a parallel DMO run on source and target host.

Required Actions:

1. Transfer the complete SUM directory now
2. Continue this run on the current host
3. Start the DMO run on the target host (parallel to this DMO run)
4. Synchronize the following directories continuously with the target host until phase "HOSTCHANGE_STOP":
 - "F:\usr\sap\BWS\SUM\abap\mig"
 - "F:\usr\sap\BWS\SUM\abap\migrate_dt"
 - "F:\usr\sap\BWS\SUM\abap\migrate_dt_cp2shd"
 - "F:\usr\sap\BWS\SUM\abap\migrate_dt_crc" (optional)
 - "F:\usr\sap\BWS\SUM\abap\migrate_dt_crclst" (optional)

Phase: 84 57% MAIN_MIGSERIALSETUP/HOSTCHANGE_MOVE



Phase: 85 59% MAIN_SHDIMP/SUBMOD_MIG_UPTIME/EU_CLONE_MIG_UT_RUN
 - start of Preprocessing

59% Process is in error state

Current Phase: MAIN_SHDIMP/SUBMOD_MIG_UPTIME_RUN/EU_CLONE_MIG_DT_CREATE

Repeat Phase

Checks after phase MAIN_SHDIMP/SUBMOD_MIG_UPTIME_RUN/EU_CLONE_MIG_DT_CREATE were negative!
 Last error code set: Found 2 aborted processes/errors in log files.
 Found 1 failed import processes

Trouble Ticket Generation

A trouble ticket and an archive with all relevant log files have been generated.
 Trouble ticket: "D:\usr\sap\CIH\SUM\labap\log\SAPup_troubleticket.log"
 Log archive: "D:\usr\sap\CIH\SUM\labap\log\SAPup_troubleticket_logs.sar"

Repeat phase MAIN_SHDIMP/SUBMOD_MIG_UPTIME_RUN/EU_CLONE_MIG_DT_CREATE to continue at the point it stopped

Initialize phase MAIN_SHDIMP/SUBMOD_MIG_UPTIME_RUN/EU_CLONE_MIG_DT_CREATE to restart it from the...

INIT

In this Case check the existence of any additional inconsistencies with shadow indexes which were left from unsuccessful BW Table Repartitioning

[Note 1741015 - Repartitioning of BW tables](#) (contains Report RSDU_REPART_UI)



Please Note that currently DSO objects with a partition number higher than 1000 are not supported by HANA. So, you must repartition the objects accordantly beforehand.

Repartitioning of InfoProviders

Ensure that you read the corresponding documentation and SAP Note 1008833

Repartitioning of InfoProviders

InfoCube

DataStore Object

Processing Options

Attaching Partitions

Merging Partitions

Complete Repartitioning

Repartitioning Request

Furthermore, there are the following Repair Reports available:

Report **DDIF_OBJECT_DELETE** to clean database entries and nametab

Report **RSDU_REPART_UI** to check inconsistencies with shadow indexes

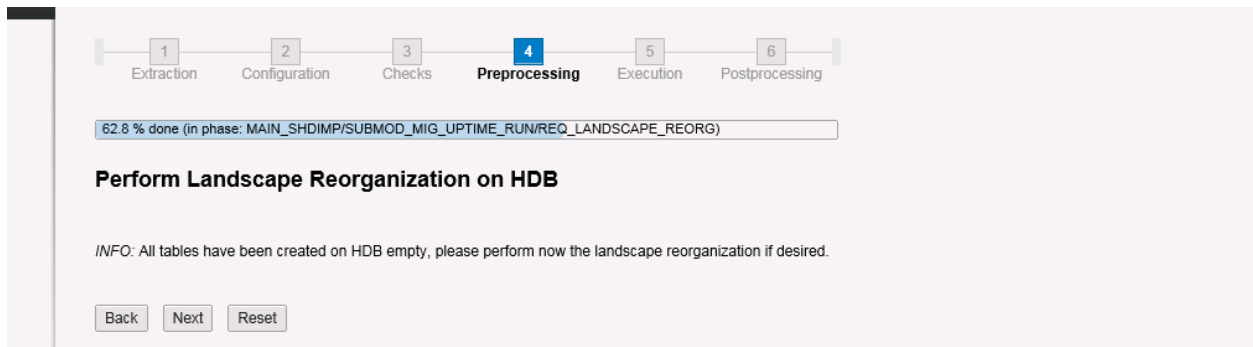


Optional: if you encounter any import problems which are not critical, use the suggestion from [Chapter 3.3.5.1](#)

59% Process is in running state

Current Phase: MAIN_SHDIMP/SUBMOD_MIG_UPTIME_RUN/EU_CLONE_MIG_DT_CREATE

Phase: 86 59% MAIN_SHDIMP/SUBMOD_MIG_UPTIME/EU_CLONE_MIG_DT_CREATE



62.8 % done (in phase: MAIN_SHDIMP/SUBMOD_MIG_UPTIME_RUN/REQ_LANDSCAPE_REORG)

Perform Landscape Reorganization on HDB

INFO: All tables have been created on HDB empty, please perform now the landscape reorganization if desired.

Back Next Reset

Phase: 87 62% MAIN_SHDIMP/SUBMOD_MIG_UPTIME/REQ_LANDSCAPE_REORG

This Phase is very important, so please make sure you have the latest info's about the correct procedure. For a correct Landscape Reorg, at least HANA 1.0 Rev. 68 or higher is needed. For SAP BW 7.40 SP07 and higher HANA 1.0 SP08 Rev 81 and higher is needed.

[Note 1815547 - Row/ColumnStore check without rowstorelist.txt](#)

[Note 1883487 - SMIGR: Row store Tables Without file access needed](#)

[Note 1908075 - BW on HANA SP6: Landscape Redistribution](#)

[Note 1908073 - BW on HANA Scale Out: Tabellenverteilung / -partitionierung](#)

[Note 1891393 - Automated Configuration scripts for HANA Landscape](#) (contains HDB script for reorg)

For more details see also the following Blog:

<http://scn.sap.com/community/hana-in-memory/blog/2013/09/03/sap-hana-landscape-redistribution-with-sp6>

62% Process is in running state

Current Phase: MAIN_DTTRANS/SUBMOD_MIG_BI_TASKS_POSTDTT/RUN_FULL_CACHE_RESET

Phase: 88 62% MAIN_DTTRANS/SUBMOD_MIG_BI_TASKS_POSTDTT/RUN_FULL_CACHE_RESET

62% Process is in running state

Current Phase: MAIN_DTTRANS/STOPSAP_DTTRANS_RTO_DFRDRPL

Phase: 89 62% MAIN_DTTRANS/STOPSAP_DTTRANS_RTO_DFRDRPL

62% Process is in running state

Current Phase: MAIN_DTTRANS/SQLDB_DELDDBCON_DEFAULT

Phase: 90 62% MAIN_DTTRANS/SQLDB_DELDDBCON_DEFAULT

62% Process is in dialog state

Current Phase: MAIN_DTTRANS/DOWNCONF_DTTRANS

Preparations for Downtime

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

Perform the following actions:

- Stop all production activities now
- 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 central instance (primary application server instance) as described in the SUM Guide

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

WARNING: You enabled option "Testcycle", so the tool will stop in the downtime(!) after the phase EU_CLONE_MIG_DT_EXP and EU_CLONE_MIG_DT_IMP and allow to repeat the migration to further optimize the parameter settings.

You should in no case use this option for a productive run! Check the DMO Guide on how to disable this option at this point in time, if required.

- Actions completed
- Exit program

Phase: 91 62% MAIN_DTTRANS/DOWNCONF_DTTRANS - preparations for downtime

62% Process is in running state

Current Phase: MAIN_DTTRANS/SUBMOD_MIG_BI_TASKS_POSTDTT/RUN_WORKSPACE_BACKUP_CREATE

62% Process is in error state

Current Phase: MAIN_DTTRANS/SUBMOD_MIG_BI_TASKS_POSTDTT/RUN_WORKSPACE_BACKUP_CREATE

Repeat Phase

Checks after phase MAIN_DTTRANS/SUBMOD_MIG_BI_TASKS_POSTDTT/RUN_WORKSPACE_BACKUP_CREATE were negative!

Last error code set: Single errors (code <= 8) found in logfile 'BW_WRKSPBCKCRE.ELG'

...skipped 56 more lines.

Please see [BW_WRKSPBCKCRE.html](#) for more information.

Trouble Ticket Generation

A trouble ticket and an archive with all relevant log files have been generated.

Trouble ticket: "D:\usr\sap\CIH\SUM\abap\log\SAPup_troubleticket.log"

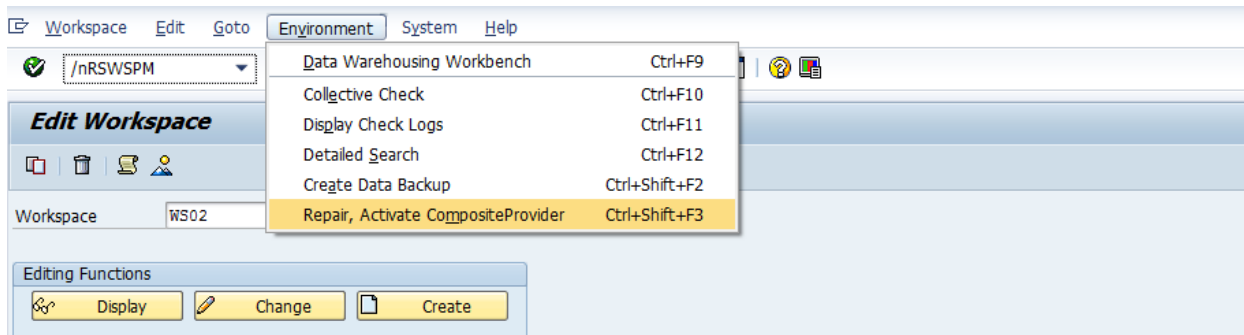
Log archive: "D:\usr\sap\CIH\SUM\abap\log\SAPup_troubleticket_logs.sar"

- Repeat phase MAIN_DTTRANS/SUBMOD_MIG_BI_TASKS_POSTDTT/RUN_WORKSPACE_BACKUP_CREATE to continue at the pair

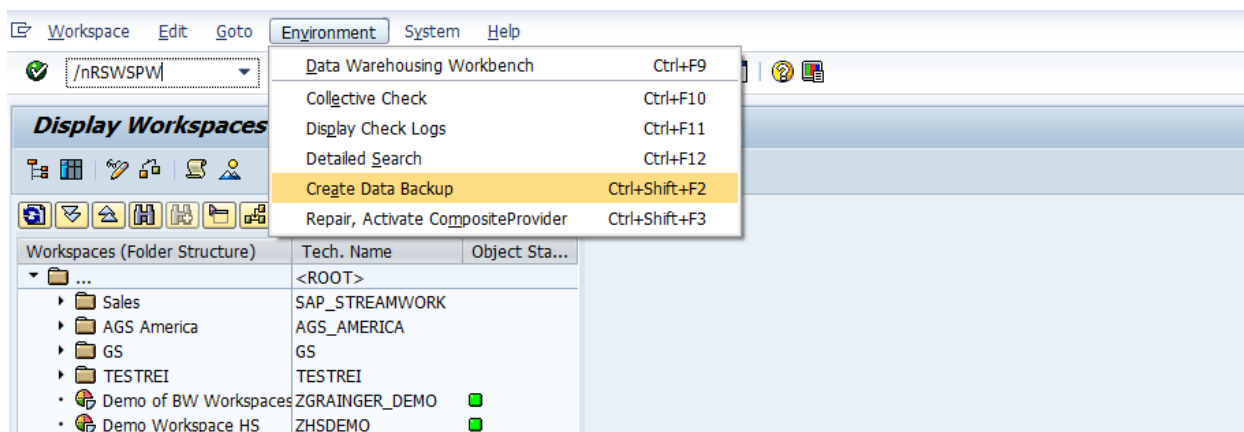
Phase: 92 62% MAIN_DTTRANS/SUBMOD_MIG_BI_TASKS_POSTDTT/
RUN_WORKSPACE_BACKUP_CREATE

To avoid errors in this phase, make sure that you have a working connection to a BWA server, as the backup program check the existence. If there are BW Workspaces which either not used anymore or can be deleted for various reasons, you can use the following option for it. Check the existence and/or the backup of the existing BW Workspaces

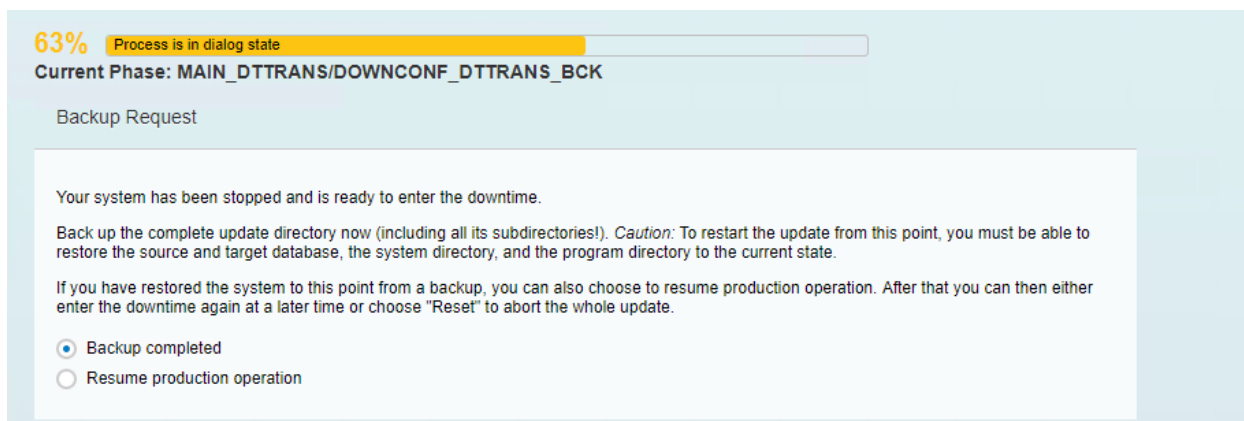
Transaction RSWSP (single WS maintenance)



Transaction RSWSPW (mass WS maintenance)



[Note 2130519 - BW on HANA upgrade and migration with DMO tool fails in phase EU_CLONE_MIG_DT_RUN with error Invalid object name '/BIC/D100XXXX'.](#)



62% Process is in dialog state

Current Phase: MAIN_DTTRANS/DOWNCONF_DTTRANS_BCK

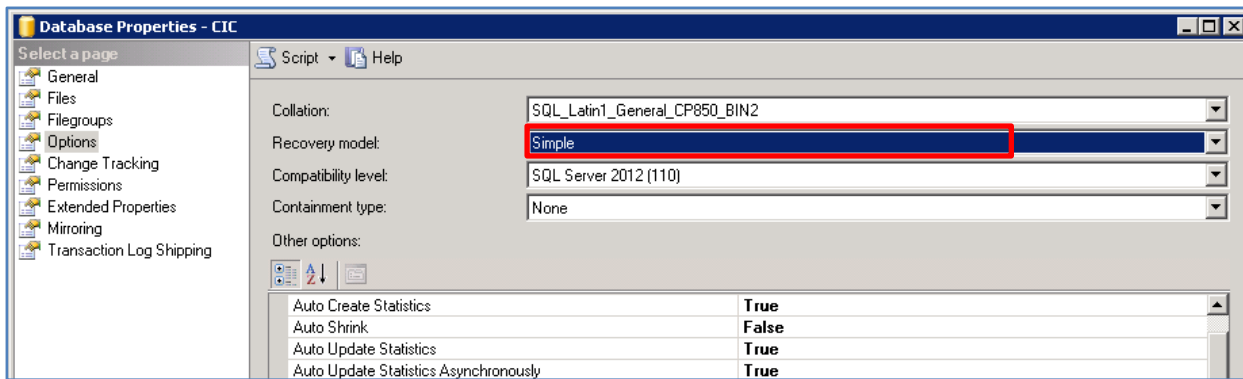
Disable Archiving

You must be able to restore the database status to this point in time. Proceed as follows:

- Manually back up the transaction log.
- Deschedule the job for the automatic backup of the transaction log in the SQL Server Management Studio.
- Switch the recovery model to 'Simple' using the SQL Server Management Studio.

Have you switched the recovery model?

Phase: 93 63% MAIN_DTTRANS/DOWNCONF_DTTRANS_BCK - backup request



Phase: 94 - switch archive mode on MSSQL (Example)

63% Process is in dialog state

Current Phase: MAIN_DTTRANS/SETSYNC_PREUP_DT_CONFIRM

Continue with roadmap step "Execution"

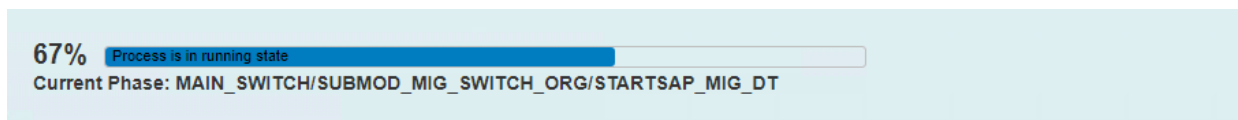
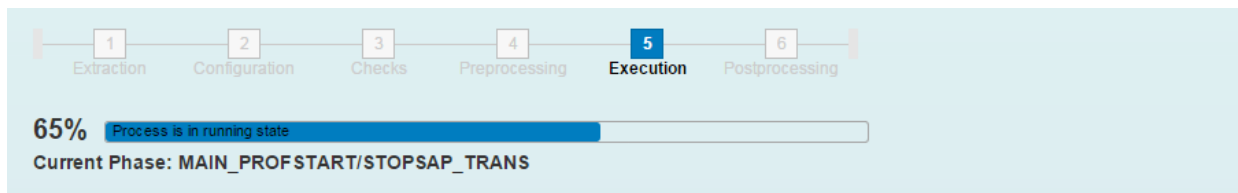
Current status: continue with phase MAIN_BRISSETUP/RUN_RSVBCHCK_BRI_SETUP
Previous step finished successfully and the next one will be started.

Note that additional mandatory manual steps might be listed in the file "CHECKS.LOG"

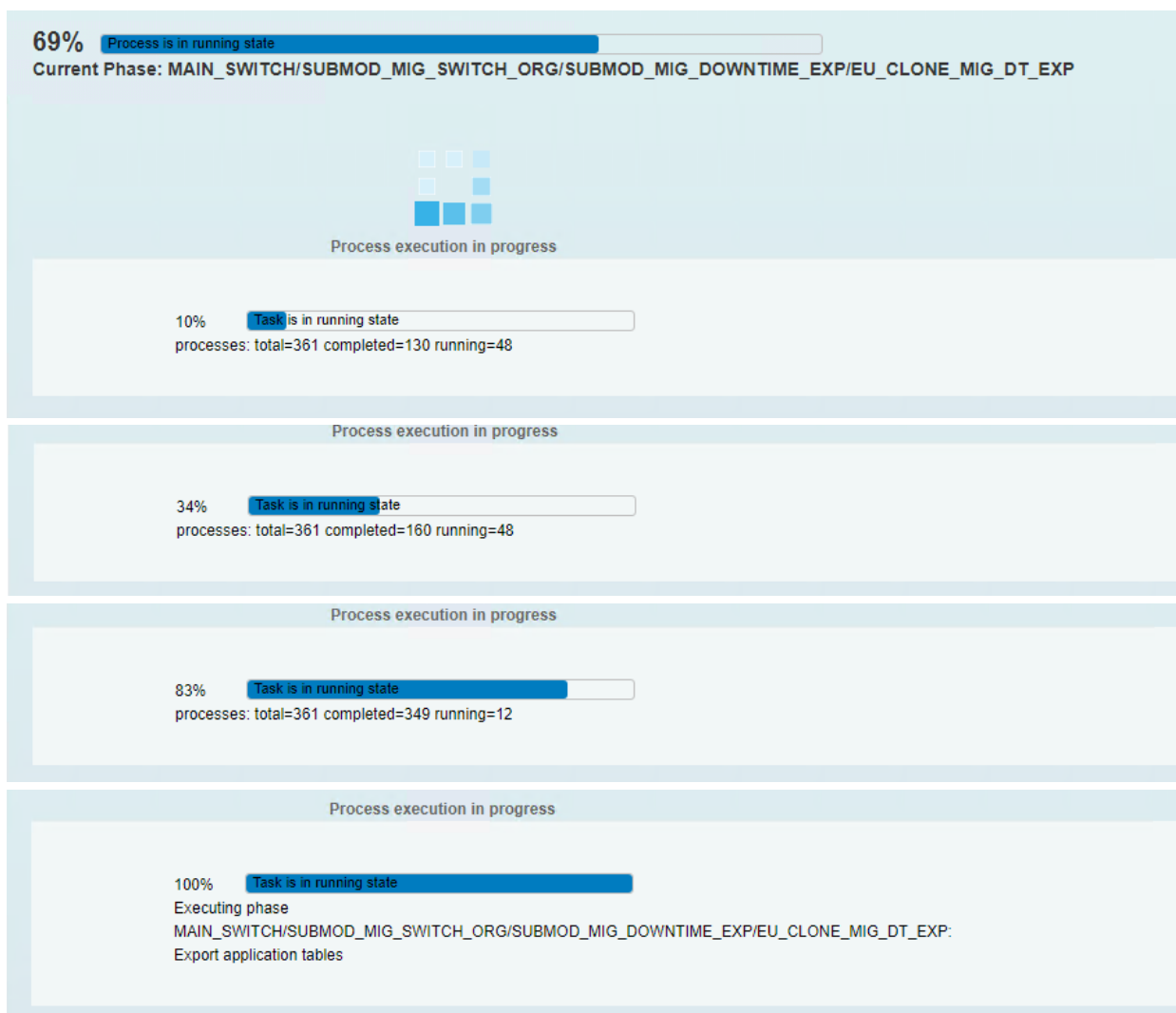
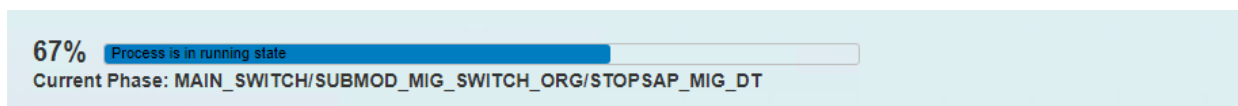
In order to complete the procedure, please process any manual tasks listed there.

Phase: 95 63% MAIN_DTTRANS/SETSYNC_PREUP_DT_CONFIRM - END (4)

Phase Execution (5)



Phase: 96 66% MAIN_SWITCH/SUBMOD_MIG_SWITCH_ORG/STARTSAP_MIG_DT



Phase: 97 69% MAIN_SWITCH/SUBMOD_MIG_SWITCH_ORG/SUBMOD_MIG_DOWNTIME_EXP/
EU_CLONE_MIG_DT_EXP

69% Process is in running state

Current Phase: MAIN_SWITCH/SUBMOD_MIG_SWITCH_ORG/SUBMOD_MIG_DOWNTIME_EXP/EU_CLONE_MIG_DT_EXP

Process execution in progress

61% Task is in running state

processes: total=105 completed=58 running=16

67% Process is in error state

Current Phase: MAIN_SWITCH/SUBMOD_MIG_SWITCH_ORG/SUBMOD_MIG_DOWNTIME_RUN/EU_CLONE_MIG_DT_RUN

Repeat Phase

Checks after phase MAIN_SWITCH/SUBMOD_MIG_SWITCH_ORG/SUBMOD_MIG_DOWNTIME_RUN/EU_CLONE_MIG_DT_RUN were negative!

Last error code set: Found 4 aborted processes/errors in log files.
Found 2 failed import processes

Trouble Ticket Generation

A trouble ticket and an archive with all relevant log files have been generated.
Trouble ticket: "D:\usr\sap\CIH\SUM\abap\log\SAPup_troubleticket.log"
Log archive: "D:\usr\sap\CIH\SUM\abap\log\SAPup_troubleticket_logs.sar"

Repeat phase MAIN_SWITCH/SUBMOD_MIG_SWITCH_ORG/SUBMOD_MIG_DOWNTIME_RUN/EU_CLONE_MIG_DT_RUN to continue

Initialize phase MAIN_SWITCH/SUBMOD_MIG_SWITCH_ORG/SUBMOD_MIG_DOWNTIME_RUN/EU_CLONE...

INIT

Phase: 98 67% EU_CLONE_MIG_DT_RUN - error

If you encounter problems with tables/views/match codes/cluster tables you don't want to consider during the migration use the file `/usr/sap/<SID>/SUM/abap/bin/EUCLONEDEFS_ADD.LST` (create the file if it is not available) and specify a custom procedure for these objects, e.g.

Example:

```
/BIC/AZSPOB10300 noclone
```

69% Process is in dialog state

Current Phase: MAIN_SWITCH/SUBMOD_MIG_SWITCH_ORG/SUBMOD_MIG_DOWNTIME_EXP/EU_CLONE_MIG_DT_EXP

Testcycle

Downtime migration finished successfully.

Do you want to repeat the downtime migration phase?

Yes, initialize the downtime migration phase and repeat

No, continue with next phase

Phase: 99 69% MAIN_SWITCH/SUBMOD_MIG_SWITCH_ORG/SUBMOD_MIG_DOWNTIME_EXP/
EU_CLONE_MIG_DT_EXP

69% Process is in dialog state

Current Phase: MAIN_SWITCH/SUBMOD_MIG_SWITCH_ORG/HOSTCHANGE_STOP

DMO with System Move: Data Transfer

The tool is running on host "schwenkbw4dmo" in phase "MAIN_SWITCH/SUBMOD_MIG_SWITCH_ORG/HOSTCHANGE_STOP".

Action required depending on the chosen option for synchronization:

1. **Serial mode:**
You did not yet synchronize any files or directories. Copy the complete SUM directory to the target host now.
2. **Parallel mode:**
You already transferred the complete SUM directory in phase "HOSTCHANGE_MOVE", and you synchronized the mig* directories continuously until now. Wait for the synchronization to complete.

After pressing "Next" the procedure is complete on this host and will stop. Continue the procedure on the target host.

Phase: 100 69% MAIN_SWITCH/SUBMOD_MIG_SWITCH_ORG/HOSTCHANGE_STOP

100% Process is in finished state

Current Phase: MAIN_SWITCH/SUBMOD_MIG_SWITCH_NEW/SUBMOD_MIG_SER_IMP/SETEXECSTAT_UTMIG_SERIAL

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.

You can clean up the tool directory and start a new run

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

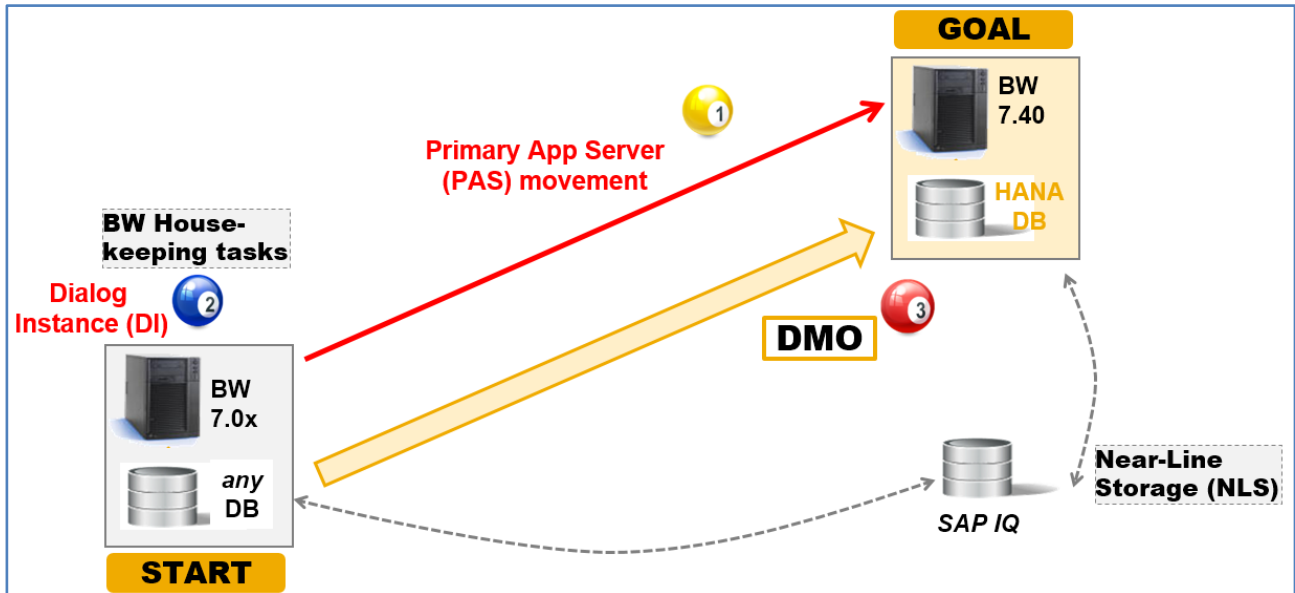
Phase: 101 70% MAIN_SWITCH/SUBMOD_MIG_SWITCH_NEW/SUBMOD_MIG_SER_IMP/
SETEXECSTAT_UTMIG_SERIAL

As the "serial option" was selected follow the Instruction on the screen and copy the SUM directory to the server where the HANA database resides.

Switching the PAS to the HANA server

Since [SUM/DMO 1.0 SP20](#) you have the possibility to switch the PAS to the SAP HANA server during the DMO procedure. This is also helpful, if you plan to move your server in your on-premise Network to a Cloud based environment like Azure or AWS.

However, a few steps are necessary to continue with the DMO procedure. For details refer to the current [DMO of SUM 1.0 SP20 Guide \(SAP HANA\)](#).



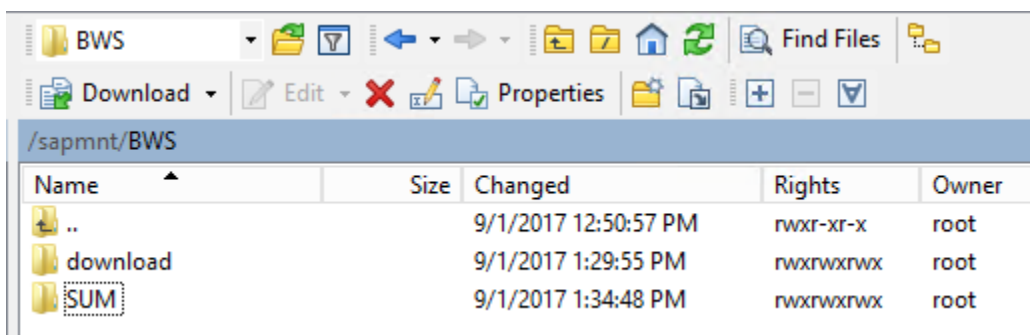
Copy the SUM directory

To continue, you must now copy the complete SUM directory to the new server to the same location as it was on the original server. If you not yet created the directory structure, you must manually create the /sapmnt/<SID> structure.

The SUM directory might be large, as it also contains all support packages, Kernel Versions, etc. So, copying the download directory is not necessary.

Provide the SAP Kernel of the target OS

Create the directory /sapmnt/<SID>/download and copy the target Kernel of the SAP HANA server to the directory. You will also need the files when you install the target dummy system



Name	Size	Changed	Rights	Owner
..		9/1/2017 12:50:57 PM	rwxr-xr-x	root
download		9/1/2017 1:29:55 PM	rw-rw-rw-	root
SUM		9/1/2017 1:34:48 PM	rw-rw-rw-	root

Provide the SUM/DMO executables of the target OS

As you possibly move from the existing OS e.g. Windows to Linux, you also must provide the correct SUM executables for the target OS.

During the DMO procedure including system move, SUM asks you for a directory that contains the kernel files for the target system. To meet this request, proceed as follows before you start the procedure

Items Available to Download (8)							
Selected Items (1)							
<input type="checkbox"/>	Name	Patch Level	File Type	File Size	Release Date	Change Date	Related Info
<input checked="" type="checkbox"/>	SUM10SP21_0-20006543.SAR Patch 0 for SOFTWARE UPDATE MANAGER 1.0 SP21 (*)	0		470940 KB		01.09.2017	

Create a download folder on the target system host, such as `\usr\sap\<SID>\download`.

Copy the two kernel files for the target into this directory. One kernel file is database independent, the other is database dependent for the target database type. Both files are for the target product version.

As all created files are written to new files, it is save to unpack now the correct SUM/DMO executables to the new structure as follows

```
server:bwsadm 55> pwd
/sapmnt/BWS
server:bwsadm 56> SAPCAR -xvf /sapmnt/software/SUM10SP21_0-20006543.SAR
```

Install a fresh PAS of the target OS

The SUM controls the entire procedure, from checking the system requirements and importing the necessary programs through stopping production operation until production operation is resumed. The procedure is divided up into several different roadmap steps. The roadmap steps are in turn divided into individual steps. The successful completion of a step is a precondition for the success of all subsequent steps.

To install the target PAS, download the latest Version of the SWPM and the necessary files, e.g. for the target release of NetWeaver 7.40, this would be the export of NetWeaver 7.40 SRO2 for HANA

Available Options		Description	
<ul style="list-style-type: none"> Installation <ul style="list-style-type: none"> Application Server ABAP <ul style="list-style-type: none"> Standard System <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Standard System <input type="checkbox"/> Distributed System <input type="checkbox"/> High-Availability System <input type="checkbox"/> Application Server Java <input type="checkbox"/> Standalone Engines 	<p>Installs an SAP NetWeaver 7.4 Support Release 2 ABAP system with all instances except the database instance on one host</p> <p>You can also install SAP systems on the same host as the SAP HANA database, without applying additional environment settings when using a SAP System ID (SAPSID) that is different from the Database ID (DBSID) of the SAP HANA database. For more information and prerequisites, see SAP Note 1953429.</p> <p>SAP System Instances</p> <p>Mandatory instances of an SAP NetWeaver 7.4 Support Release 2 ABAP system are:</p> <ul style="list-style-type: none"> • ABAP central services instance (ASCS instance) • Database instance 		
<input type="checkbox"/> 51050819_1 NW 7.4 SR2 Installation Export	ZIP	2817307 KB	04.10.2016 04.10.2016



Please Note that for the fresh Installation of SAP HANA the Installation Package with the correct Labels is necessary.

51052383_1	<input type="checkbox"/>	SAP HANA Platf.Ed.1.0 SPS12 DSP(SAP HANA DB 1.00.122.11) 1/3	EXE	3906250 KB	18.08.2017	18.08.2017
51052383_2	<input type="checkbox"/>	SAP HANA Platf.Ed.1.0 SPS12 DSP(SAP HANA DB 1.00.122.11) 2/3	RAR	3906250 KB	18.08.2017	18.08.2017
51052383_3	<input type="checkbox"/>	SAP HANA Platf.Ed.1.0 SPS12 DSP(SAP HANA DB 1.00.122.11) 3/3	RAR	2644635 KB	18.08.2017	18.08.2017

Current Documentation of the SWPM tool

<https://support.sap.com/en/tools/software-logistics-tools.html>

[Installation Guides](#) - Application Server Systems

Install the target SAP HANA database

The SWPM tool also installs the target SAP HANA database. If you have trouble during the Installation, provide the correct file directory structure as seen in the following example.

```
server:/hana # dir
total 0
lrwxrwxrwx 1 root root 16 Sep  1 20:02 data -> /sapmnt/BSH/data
lrwxrwxrwx 1 root root 15 Sep  1 19:52 log -> /sapmnt/BSH/log
lrwxrwxrwx 1 root root  7 Sep  1 18:13 shared -> /sapmnt
server:/hana #
```

57% Process is in error state

Current Phase: MAIN_MIGSERIALSETUP/HOSTCHANGE_MOVE

Continue with roadmap step "Preprocessing"

Current status: stopped in MAIN_MIGSERIALSETUP/HOSTCHANGE_MOVE
The step did not complete successfully and will continue at the point it failed.

Note that additional mandatory manual steps might be listed in the file "CHECKS.LOG"

In order to complete the procedure, please process any manual tasks listed there.

57% Process is in dialog state

Current Phase: MAIN_MIGSERIALSETUP/HOSTCHANGE_MOVE

DMO with System Move: Data Transfer

The tool is running on host "saps4hsrv" in phase "MAIN_MIGSERIALSETUP/HOSTCHANGE_MOVE".

The SUM detected a host change and assumes this is now the *target* host for the DMO with System Move procedure.

Note: If you have chosen the "parallel mode" and continuously synchronize the directories, the procedure on this host will remain active in phases "EU_CLONE_MIG_DT_*IMP" and is ready for the downtime import. The import processes will be started immediately as soon as packages of the synchronized directories are available.

57% Process is in dialog state

Current Phase: MAIN_MIGSERIALSETUP/HOSTCHANGE_MOVE

Host Name and Instance Number

Enter the host name of your central instance (primary application server instance) and its instance number:

SAP SYSTEM HOST

INSTANCE NUMBER

Phase: 102 57% MAIN_MIGSERIALSETUP/HOSTCHANGE_MOVE

57% Process is in dialog state

Current Phase: MAIN_MIGSERIALSETUP/HOSTCHANGE_MOVE

Profiles of the Central Instance (Primary Application Server Instance)

Enter the file names (without path) of the following profiles:

INSTANCE PROFILE

57% Process is in dialog state

Current Phase: MAIN_MIGSERIALSETUP/HOSTCHANGE_MOVE

Path to SAP Start Procedure, DB SID, and Host

Start Procedure

Enter the path to the SAP start procedure:

STARTSAP PATH

57% Process is in dialog state

Current Phase: MAIN_MIGSERIALSETUP/HOSTCHANGE_MOVE

Database Migration Initialization

You are going to migrate your system to a new database.

Enter the following parameters of the target database:

Target DB hostname

Enter the SID and instance number of the target database instance.
Enter the TENANT SID in case of running on a multiple container database.
This might be different from your SAP system.

Target DB SID

Target DB instance number

Enter the path of the SAP License file for your migrated SAP system:

Target System License

57% Process is in dialog state

Current Phase: MAIN_MIGSERIALSETUP/HOSTCHANGE_MOVE

Required Migration Specific Passwords

Enter parameters for the Hana database "BSH" on host "saps4hsrv" instance number "06":

Target database SYSTEM password

Enter password for target database user "SYSTEM".
SYSTEM PASSWORD

57% Process is in dialog state

Current Phase: MAIN_MIGSERIALSETUP/HOSTCHANGE_MOVE

Welcome to Software Update Manager

You have to provide the target release kernel for the target database now in the download directory.

Download Directory

Enter the path to the download directory.

The download directory might contain the following type of files:

- Stack configuration file for enhancement packages or Support Package stacks.
- DVDs.
- ABAP patch archives, for example, Support Packages or Add-Ons.
- ABAP kernel for your target SAP system.

Note: You can also use symbolic links in the download directory.

DOWNLOAD DIRECTORY

Archive Verification

The SAP archives are signed with digital signatures. Mark this checkbox if you want to check the authenticity of all the archives in the download directory. Download the Certificate Revocation List from <https://tcs.mysap.com/crl/crlbag.p7s>. and provide it in the download directory for checking the authenticity. For details see the SUM Guide.

Check archives authenticity

Phase: 103 57% MAIN_MIGSERIALSETUP/HOSTCHANGE_MOVE - continue on new server

57% Process is in running state

Current Phase: MAIN_MIGSERIALSETUP/SCANDIR_TRGTKRNL

57% Process is in dialog state

Current Phase: MAIN_MIGSERIALSETUP/SUBMOD_MIG_CONFIG/HDB_MIGCONFIG

SAP HANA Migration Parameters

SAP HANA AUTOMATIC LOAD OF TABLE PLACEMENT

Do you want to enable the automatic load of table placement statements during the preprocessing of the migration according to

- [SAP Note 1908075](#)
- [SAP Note 1958346](#)
- [SAP Note 1899817](#)

Automatic load of Table Placement Statements

Phase: 104 57% MAIN_MIGSERIALSETUP/SUBMOD_MIG_CONFIG/HDB_MIGCONFIG

57% Process is in dialog state

Current Phase: MAIN_MIGSERIALSETUP/SUBMOD_MIG_CONFIG/HDB_PREPARE

Required Migration Specific Passwords

Enter parameters for the Hana database "BSH" on host "saps4hsrv" instance number "06":

Target database SCHEMA password

Enter the password for the target database user "SAPBWS" (this user will be created)

*SAPBWS PASSWORD

*Confirmation : SAPBWS PASSWORD

Phase: 105 57% MAIN_MIGSERIALSETUP/SUBMOD_MIG_CONFIG/HDB_PREPARE

57% Process is in running state

Current Phase: MAIN_MIGSERIALSETUP/SUBMOD_MIG_CONFIG/HDB_PREPARE

58% Process is in dialog state

Current Phase: MAIN_MIGOPT/WINSRV_INST_CRR

Continue with roadmap step "Execution"

Current status: continue with phase MAIN_BRISETUP/RUN_RSVCHECK_BRI_SETUP
Previous step finished successfully and the next one will be started.

Note that additional mandatory manual steps might be listed in the file "CHECKS.LOG" (html)
Identical content, but in TEXT format, can be found in the file "CHECKS.TXT" (plain text)
It contains entries of type info.

In order to complete the procedure, please process any manual tasks listed there.

Phase: 106 58% MAIN_MIGOPT/WINSRV_INST_CRR - End of Phase Host Change

69% Process is in dialog state

Current Phase: MAIN_SWITCH/SUBMOD_MIG_SWITCH_NEW/SUBMOD_MIG_SER_IMP/SUBMOD_MIG_SCALEUP_PREREQ/REQ_SCAI

Perform Scale Up (Single Node) Prerequisite on SAP HANA if necessary

Action Required (if condition is met):

You decided to NOT run the SAP HANA Landscape Reorganization.
However, if you run an SAP HANA Single-Node system with scale-up, you must manually import a file with specific SQL-information to enable the optimal table partition.

Carry out the following procedure:

1. Download the appropriate file that is in the attachment of the following SAP Notes:
 - For SAP Business Warehouse on SAP HANA, see [SAP Note 1908075](#). From the attachment TABLE_PLACEMENT.zip, select the suitable SQL-file.
 - For SAP Business Suite on SAP HANA or SAP S/4HANA, see [SAP Note 1899817](#). Choose the attachment: TABLE_PLACEMENT_ERP_* or TABLE_PLACEMENT_S4H_* according to the version and SP level of the target system.
2. Edit the downloaded file by replacing all occurrences of \$\$PLACEHOLDER with your SAP<sid>.
3. Import the edited files to SAP HANA using one of the following commands on OS level of the managed system:
/usr/sap/BWS/hdbclient/hdbsql -U SUPER -I <filename> -E 1
4. After the import, continue with the migration procedure.

Phase: 107 69% MAIN_SWITCH/SUBMOD_MIG_SWITCH_NEW/SUBMOD_MIG_SER_IMP/
SUBMOD_MIG_SCALEUP_PREREQ/REQ_SCALEUP_PREREQ

./hdbsql -U SUPER -I HdbTablePlacementParameters_BWS.SQL -E 1

69% Process is in running state

Current Phase: MAIN_SWITCH/SUBMOD_MIG_SWITCH_NEW/SUBMOD_MIG_SER_IMP/EU_CLONE_MIG_DT_CREATE_RUN

69% Process is in error state

Current Phase: MAIN_SWITCH/SUBMOD_MIG_SWITCH_NEW/SUBMOD_MIG_SER_IMP/EU_CLONE_MIG_UT_IMP

Repeat Phase

Severe error(s) occurred in phase MAIN_SWITCH/SUBMOD_MIG_SWITCH_NEW/SUBMOD_MIG_SER_IMP/EU_CLONE_MIG_UT_IMP!

Last error code set:
Syntax error in
'/sapmnt/BWS/SUM/abap/migrate_ut/MIGRATE_UT_00001_DDNTT_CONV_UC_EXP.CMD' line
'dat: ".\" bs=1k fs=2047M'
Cannot read 1.2 'MIGRATE_UT.BUC'

Trouble Ticket Generation

A trouble ticket and an archive with all relevant log files have been generated.

Trouble ticket: "/sapmnt/BWS/SUM/abap/log/SAPup_troubleticket.log"

Log archive: "/sapmnt/BWS/SUM/abap/log/SAPup_troubleticket_logs.sar"

 Repeat phase MAIN_SWITCH/SUBMOD_MIG_SWITCH_NEW/SUBMOD_MIG_SER_IMP/EU_CLONE_MIG_UT_IMP to continue at the point it sto...

 Initialize phase MAIN_SWITCH/SUBMOD_MIG_SWITCH_NEW/SUBMOD_MIG_SER_IMP/EU_CLONE_MIG_UT_IMP to res...

 INIT
70% Process is in running state

Current Phase: MAIN_SWITCH/SUBMOD_MIG_SWITCH_NEW/SUBMOD_MIG_SER_IMP/EU_CLONE_MIG_UT_IMP







Phase: 108 70% MAIN_SWITCH/SUBMOD_MIG_SWITCH_NEW/SUBMOD_MIG_SER_IMP/
EU_CLONE_MIG_UT_IMP

Details of the export/import process

[Note 1904239 - SUM options to change parameters entered in INITPUT and INITSUBST phases](#)

[Phases behind DMO R3load parallel export/import during UPTIME and DOWNTIME to target HANA DB](#)

During the main phases for the uptime and downtime migration there are several directories created which you can link to the following phases:

 migrate_dt	10.03.2015 19:22	File folder
 migrate_dt_crc	10.03.2015 19:22	File folder
 migrate_dt_create	10.03.2015 19:25	File folder
 migrate_ut	10.03.2015 19:49	File folder
 migrate_ut_crc	10.03.2015 19:57	File folder
 migrate_ut_create	10.03.2015 19:23	File folder

The following Phases

EU_CLONE_UP_PRP	→ creates the directory	migrate_ut_create	"R3ldct1" phase
EU_CLONE_UP_RUN	→ creates the directory	migrate_ut	"R3load" phase
EU_CLONE_DT_PRP	→ creates the directory	migrate_dt_create	"R3ldct1" phase
EU_CLONE_DT_RUN	→ creates the directory	migrate_dt	"R3load" phase

If you want to optimize the different phases, it is not possible with a Breakpoint to stop between this phases. There will be additional files created during the first complete DMO run called

MIGRATION_UT_DUR.XML* for details of the uptime migration

MIGRATION_DT_DUR.XML* for details of the downtime migration

* From SUM/DMO 1.0 SP13 the extension of the files changed from **.LST** to **.XML**

You can specify this file within **SAPup_add.par** as follows (you must create them beforehand), and reference both files, separated with a comma:

```
/clonepar/clonedurations = /usr/sap/<SID>/SUM/abap/htdoc/MIGRATE_UT_DUR.<ext>,  
/usr/sap/<SID>/SUM/abap/htdoc/MIGRATE_DT_DUR.<ext>
```

Both files are in the **/usr/sap/<SID>/SUM/abap/htdoc** directory and allow to keep you own settings in separate files while you can exchange the existing files by a newer SAR file of the same SUM Support Package.

The command **SAPup set procpa gt=scroll** allows you from SUM 1.0 SP10 onwards dynamically change the main load parameters during the phase for optimization.

To completely initialize the uptime/downtime migration process you have to remove all the mentioned directories. This will restart the migration process from the beginning.

If you encounter problems with tables/views/match codes/cluster tables you don't want to consider during the migration use the file **/usr/sap/<SID>/SUM/abap/bin/EUCLONEDEFS_ADD.LST/XML** (create the file if it is not available) and specify a custom procedure for these objects, e.g.

Table name Option

```
TABLE      nocontent/noclone/ignlargercount/igncount/rowstore/columnstore  
TABLE      split segmentsize/splitindex=<indname>/splitfields=<fld>,<fld>,...
```


Result from the parallel export/import process

EUMIGRATEUTRUN.LOG

```

1 ETQ201 Entering upgrade-phase "MAIN_SHDIMP/SUBMOD_MIG_UPTIME_RUN/EU_CLONE_MIG_UT_RUN" ("20150712100003")
2 ETQ367 Connect variables are set for standard instance access
4 ETQ399 System-nr = '01', GwService = 'sapgw01' Client = '000'
4 ETQ399 Environment variables:
4 ETQ399   dbs_mss_schema=cih
1 ETQ206 Executing pre-phase DB specific actions.
1 ETQ200 Executing actual phase 'MAIN_SHDIMP/SUBMOD_MIG_UPTIME_RUN/EU_CLONE_MIG_UT_RUN'.
1 ETQ399 Phase arguments:
2 ETQ399 Arg[0] = 'EUCLONEDEFS.LST'
2 ETQ399 Arg[1] = 'MIGRATE_UPTIME'
2 ETQ399 Arg[2] = 'migrate_ut'
2 ETQ399 Arg[3] = 'RUN_ONLY;DEST_NOCREATE;DESTSECONDDB;CHECKCOUNTS'
1 ETQ399 Using error summary log 'EUMIGRATEUTRUN.ELG'.
1 ETQ399 Getting all tables/views supposed to be cloned.
1 ETQ399 Enabling table declustering flag.
4 ETQ399 Mapping SCR class 'MIGRATE_UPTIME' to actual condition.
3 ETQ399 Selecting from 'PUTTB_SHD' with condition '( ( CLONE == "U" and ( SRCTYPE == "J" or SRCTYPE == "T" or SRCTYPE == "I
3 ETQ399 4883 entries matched.
3 ETQ399 ===== 2015/07/12 10:35:58, Progress 12571 MB/12583 MB (99.91%) =====
3 ETQ123 20150712103558 (1): PID 27252 exited with status 0 (time 0.000 real)
3 ETQ399 ===== 2015/07/12 10:35:58, Progress 12573 MB/12583 MB (99.92%) =====
3 ETQ123 20150712103600 (0): PID 27808 exited with status 0 (time 0.000 real)
3 ETQ399 ===== 2015/07/12 10:36:00, Progress 12583 MB/12583 MB (100.00%) =====
1 ETQ000 =====
4 ETQ010 Date & Time: 20150712103601
2 ETQ102 Finished execution of 47 process(es).
2 ETQ108 Analyzing logs for errors.
1 ETQ124 Scanned file 'migrate_ut\MIGRATE_UT_CNT_00023_IMP.LOG' from offset 114 to 298 for errors.
1 ETQ124 Scanned file 'migrate_ut\MIGRATE_UT_CNT_00024_EXP.LOG' from offset 114 to 296 for errors.
1 ETQ124 Scanned file 'migrate_ut\MIGRATE_UT_CNT_00024_IMP.LOG' from offset 114 to 296 for errors.
3 ETQ114 Analyzed 47 log files.
1 ETQ399 Finished execution of buckets with rc = 0.
1 ETQ000 =====
4 ETQ010 Date & Time: 20150712103604
3 ETQ399 Checking counters/checksums from 'MIGRATE_UT_CNT.BUC'.
3 ETQ399 Skipped 8 export-only counts (declustered tables and tables without content transfer).
1 ETQ207 Executing post-phase DB specific actions.
4 ETQ010 Date & Time: 20150712103604
1 ETQ202 Upgrade phase "EU_CLONE_MIG_UT_RUN" completed successfully ("20150712103604")

```

EUMIGRATEDTRUN.LOG

```

1 ETQ201 Entering upgrade-phase "MAIN_SWITCH/SUBMOD_MIG_SWITCH_ORG/SUBMOD_MIG_DOWNTIME_RUN/EU_CLONE_MIG_DT_RUN" ("2015071311
2 ETQ367 Connect variables are set for standard instance access
4 ETQ399 System-nr = '01', GwService = 'sapgw01' Client = '000'
4 ETQ399 Environment variables:
4 ETQ399   dbs_mss_schema=cih
1 ETQ206 Executing pre-phase DB specific actions.
1 ETQ200 Executing actual phase 'MAIN_SWITCH/SUBMOD_MIG_SWITCH_ORG/SUBMOD_MIG_DOWNTIME_RUN/EU_CLONE_MIG_DT_RUN'.
1 ETQ399 Phase arguments:
2 ETQ399 Arg[0] = 'EUCLONEDEFS.LST'
2 ETQ399 Arg[1] = 'MIGRATE_DOWNTIME_NOMIGTRIG'
2 ETQ399 Arg[2] = 'migrate_dt'
2 ETQ399 Arg[3] = 'RUN_ONLY;DEST_NOCREATE;DESTSECONDDB;SEL4DOWNTIME;CHECKCOUNTS;INDEXSUPPRESSIONS;OPTIMIZE_CLONING'
1 ETQ399 Using error summary log 'EUMIGRATEDTRUN.ELG'.
1 ETQ399 Getting all tables/views supposed to be cloned.
1 ETQ399 Enabling table declustering flag.
4 ETQ399 Mapping SCR class 'MIGRATE_DOWNTIME_NOMIGTRIG' to actual condition.
3 ETQ399 Selecting from 'PUTTB_SHD' with condition '( ( CLONE == "D" or CLONE == "C" or CLONE == "G" or CLONE == "T" or CL
3 ETQ399 62570 entries matched.
2 ETQ399 Read 10 entries from 'D:\usr\sap\CIH\SUM\abap\bin\EUCLONEDEFS.LST'.
4 ETQ399 Remove /BIC/AZSPOB10300 from clone list.
3 ETQ123 20150713120739 (0): PID 27216 exited with status 0 (time 0.000 real)
3 ETQ399 ===== 2015/07/13 12:07:39, Progress 33398 MB/33398 MB (100.00%) =====
1 ETQ000 =====
4 ETQ010 Date & Time: 20150713120739
2 ETQ102 Finished execution of 330 process(es).
2 ETQ108 Analyzing logs for errors.
3 ETQ114 Analyzed 330 log files.
1 ETQ399 Finished execution of buckets with rc = 0.
1 ETQ000 =====
4 ETQ010 Date & Time: 20150713120748
3 ETQ399 Checking counters/checksums from 'MIGRATE_DT_CNT.BUC'.
3 ETQ399 Skipped 335 export-only counts (declustered tables and tables without content transfer).
4 ETQ399 Starting dialog 'MigOptimizeCloning' at 20150713120751.
4 ETQ399 Dialog finished at 20150713145653.
1 ETQ207 Executing post-phase DB specific actions.
4 ETQ010 Date & Time: 20150713145653
1 ETQ202 Upgrade phase "EU_CLONE_MIG_DT_RUN" completed successfully ("20150713145653")

```

SUM ABAP Extended SL UI (with SP14 onwards)

You can access the area either via the Menu out of the SL UI GUI or via the URL
 Error! Hyperlink reference not valid.

Software Update Manager 1.0 SP14 (PL0)

HOME

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

90% Process is in running state

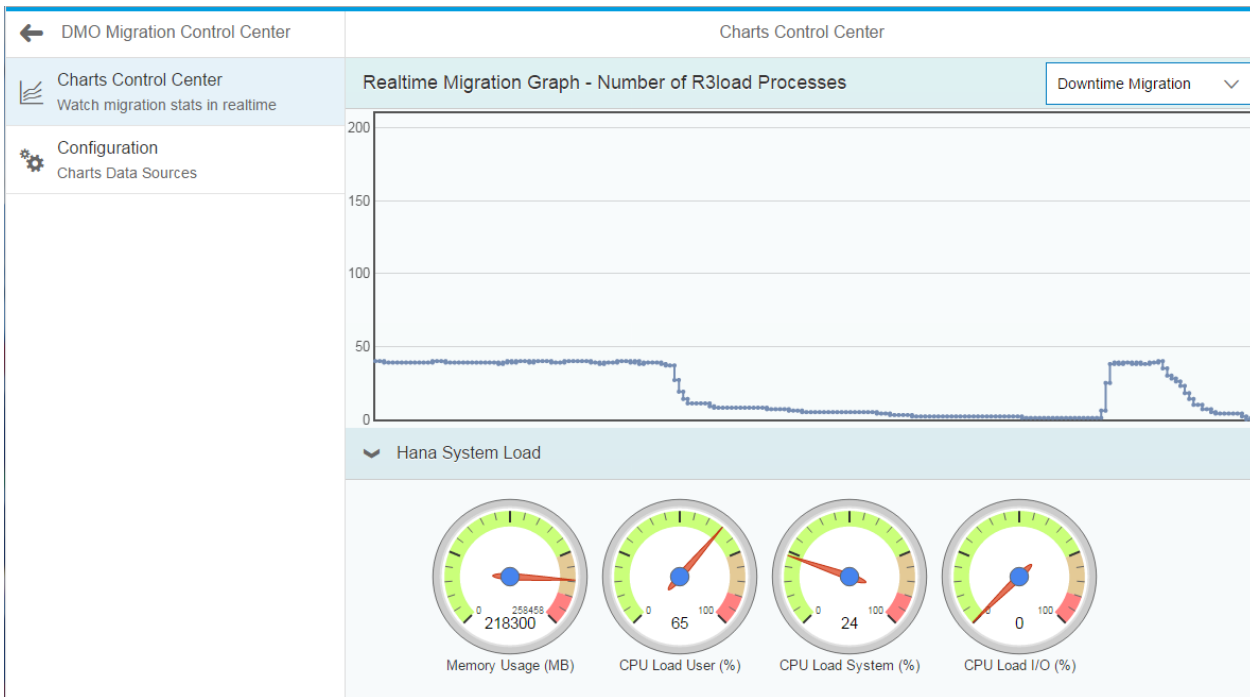
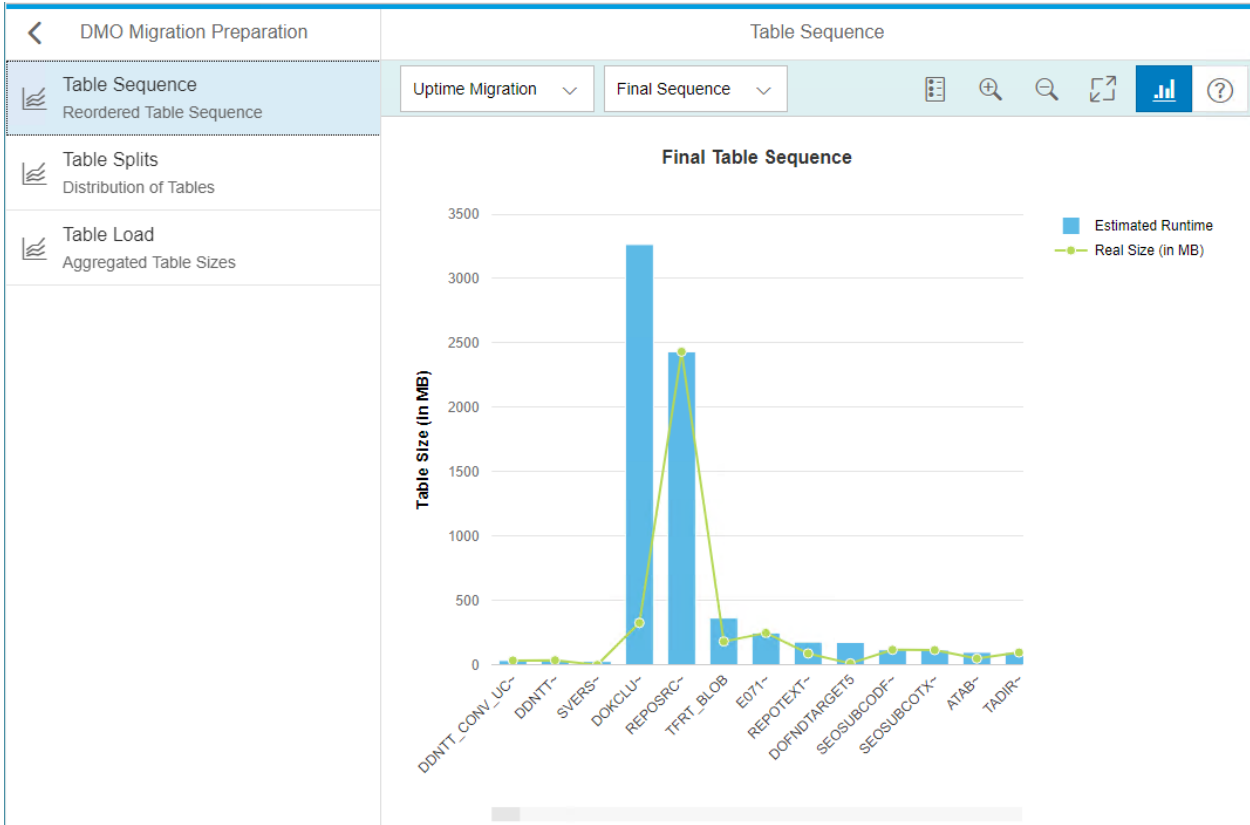
Current Phase: MAIN_POSTPROC/SUBMOD_MIG_BI_TASKS_POSTP1/RUN_CUBE_CALC_VIEW_CREATE

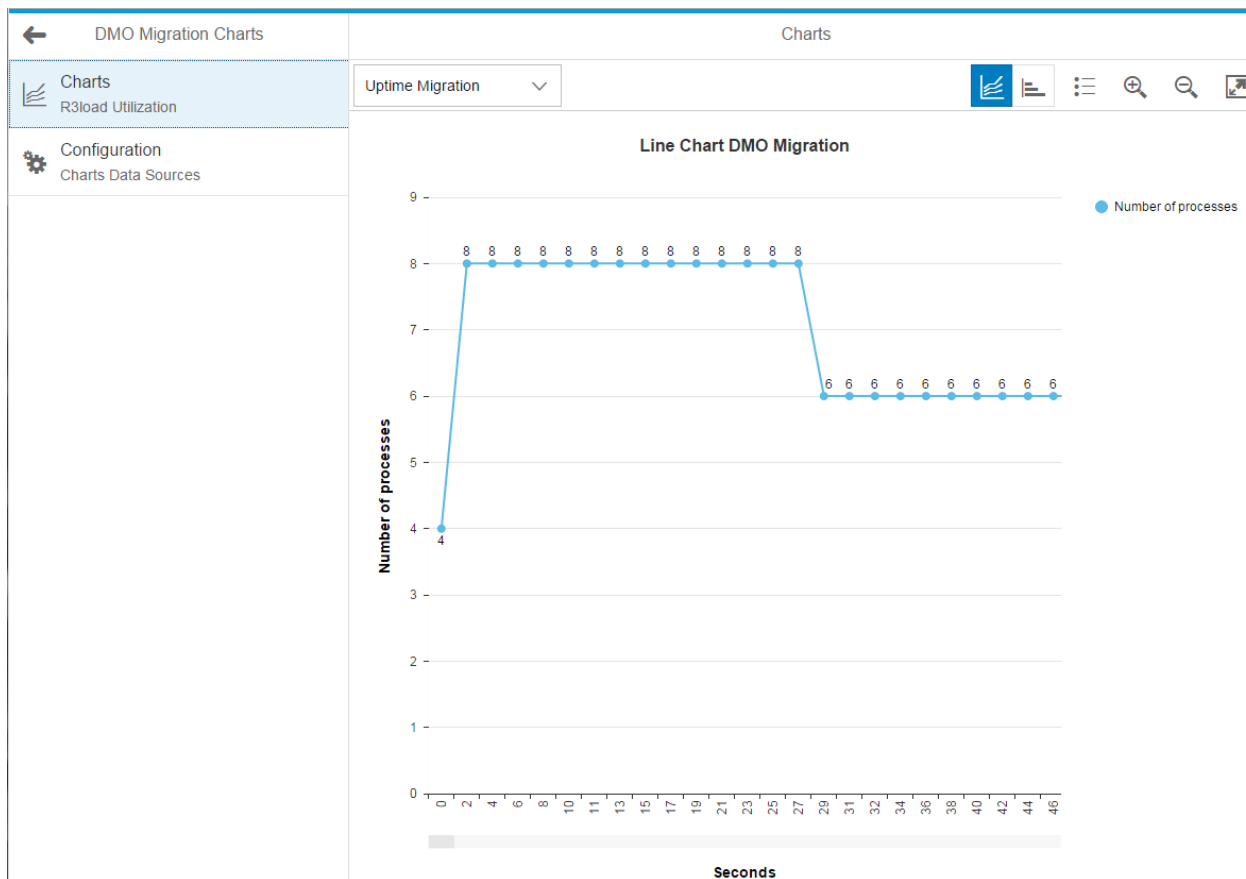
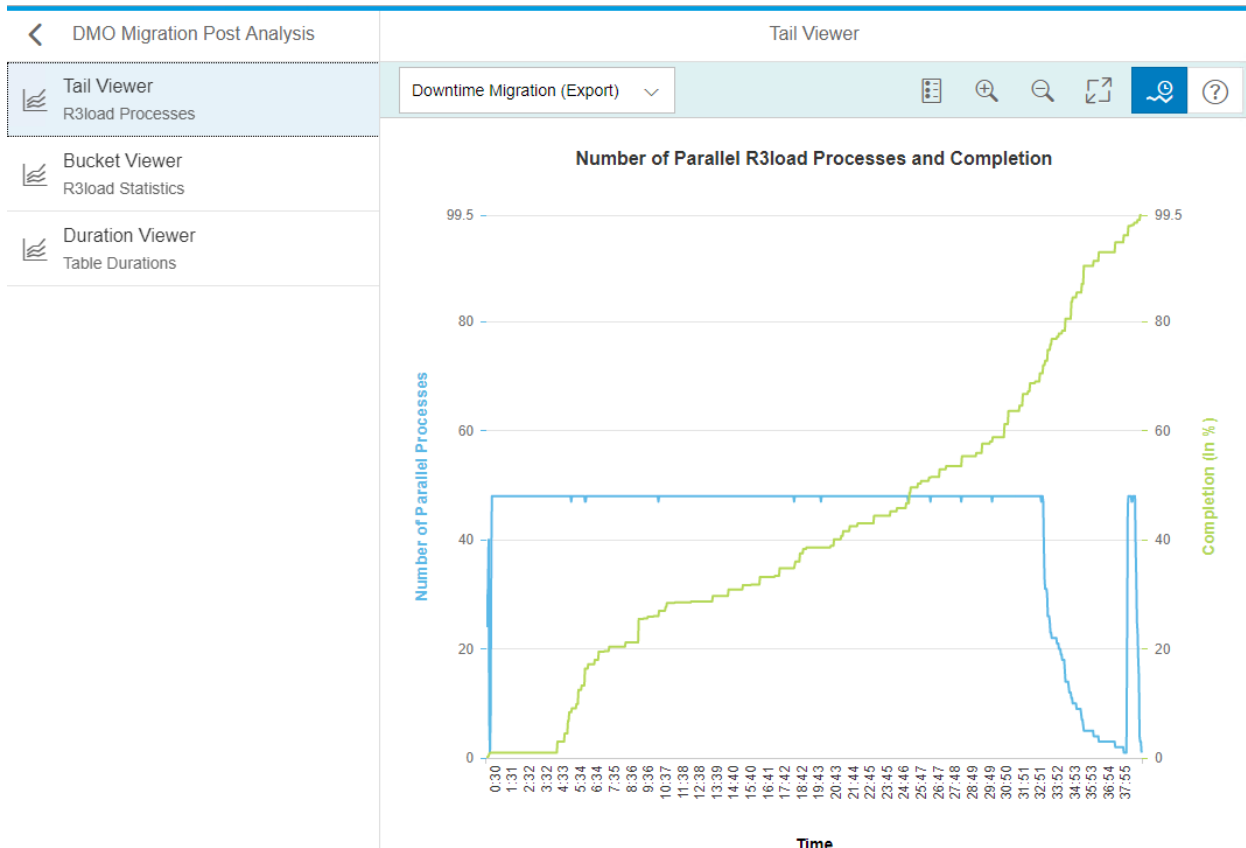
Process execution in progress

- Logout
- Toggle Color Schema
- SUM Guide
- SUM Note
- SAP Help Portal
- Log Tail
- SUM Extended UI
- Debug
- Get support File
- About

Navigation	Software Update Manager Extended UI
<ul style="list-style-type: none"> SUM Parameters SUM Phaselist SUM Analysis DMO Migration Control Center DMO Migration Charts 	<p>Welcome</p> <p>SUM ABAP Extended SL UI</p> <p>Bringing full throttle to your maintenance procedures.</p> <p>Awesome!!</p> <p>Technology</p> <p>Pure SAPUI5 and jQuery Magic</p>


Navigation	SUM Parameters
<ul style="list-style-type: none"> SUM Parameters SUM Phaselist SUM Analysis DMO Migration Control Center DMO Migration Charts 	<div style="display: grid; grid-template-columns: repeat(3, 1fr); gap: 10px;"> <div style="border: 1px solid #ccc; padding: 10px; text-align: center;"> <p>Standard Parameters</p> </div> <div style="border: 1px solid #ccc; padding: 10px; text-align: center;"> <p>Process Parameters</p> </div> <div style="border: 1px solid #ccc; padding: 10px; text-align: center;"> <p>Shadow System Parameters</p> </div> <div style="border: 1px solid #ccc; padding: 10px; text-align: center;"> <p>Migration Parameters</p> </div> <div style="border: 1px solid #ccc; padding: 10px; text-align: center;"> <p>DDIC Password</p> </div> <div style="border: 1px solid #ccc; padding: 10px; text-align: center;"> <p>Shadow DDIC Password</p> </div> </div>





70% Process is in running state

Current Phase: MAIN_SWITCH/SUBMOD_MIG_SWITCH_NEW/SUBMOD_MIG_SER_IMP/EU_CLONE_MIG_UT_IMP



Process execution in progress

11% Task is in running state


processes: total=356 completed=129 running=47

70% Process is in running state

Current Phase: MAIN_SWITCH/SUBMOD_MIG_SWITCH_NEW/SUBMOD_MIG_SER_IMP/EU_CLONE_MIG_DT_IMP

70% Process is in running state

Current Phase: MAIN_SWITCH/SUBMOD_MIG_SWITCH_NEW/SUBMOD_MIG_SER_IMP/EU_CLONE_MIG_DT_IMP



Process execution in progress

20% Task is in running state

processes: total=375 completed=143 running=47

Phase: 109 70% MAIN_SWITCH/SUBMOD_MIG_SWITCH_NEW/SUBMOD_MIG_SER_IMP/
EU_CLONE_MIG_DT_IMP

70% Process is in dialog state

Current Phase: MAIN_SWITCH/SUBMOD_MIG_SWITCH_NEW/SUBMOD_MIG_SER_IMP/EU_CLONE_MIG_DT_IMP

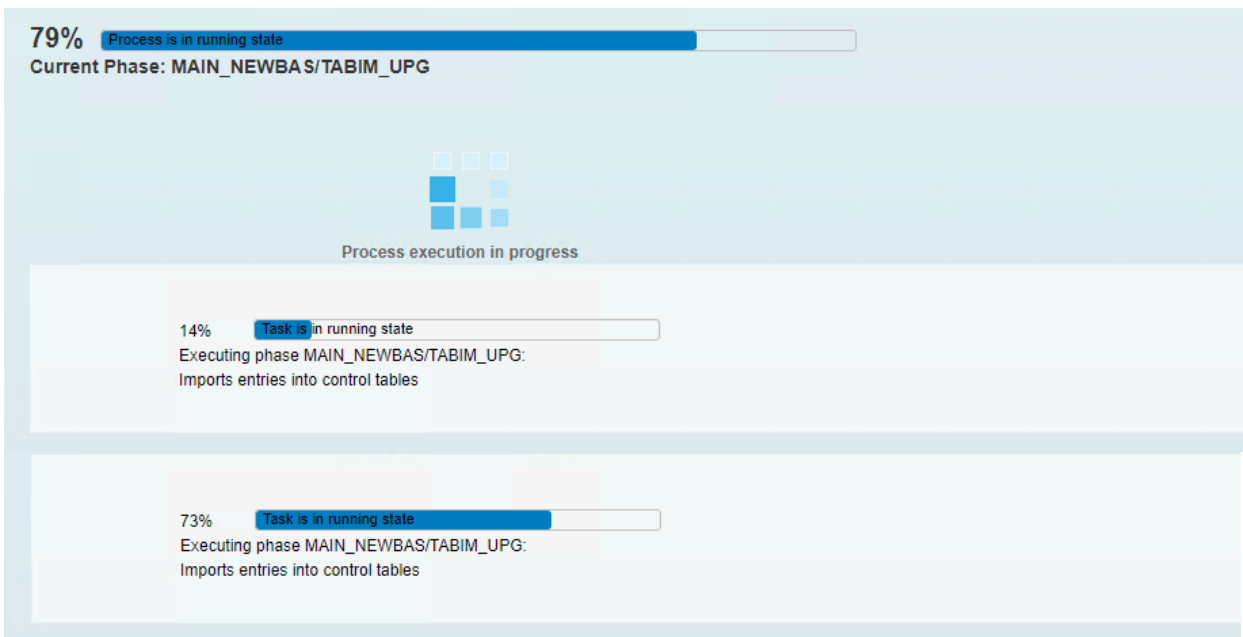
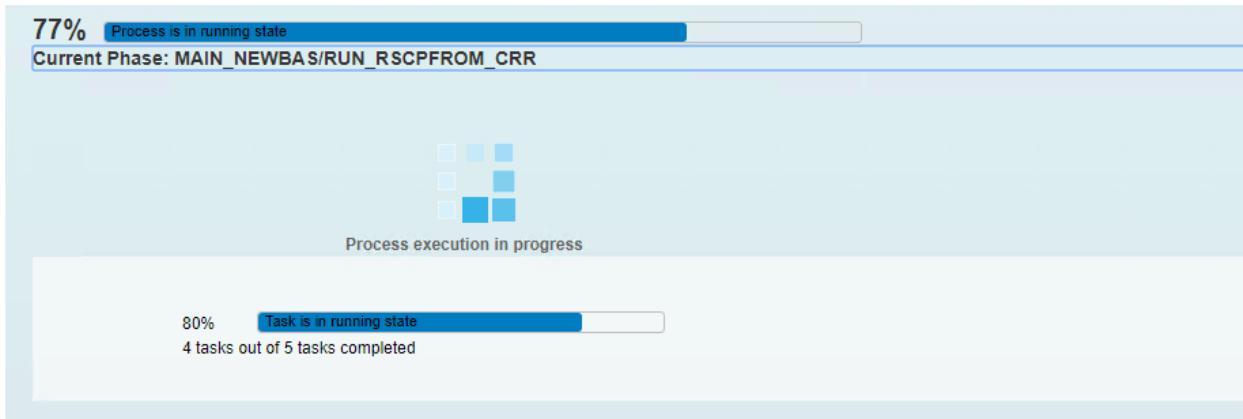
Testcycle

Downtime migration finished successfully.

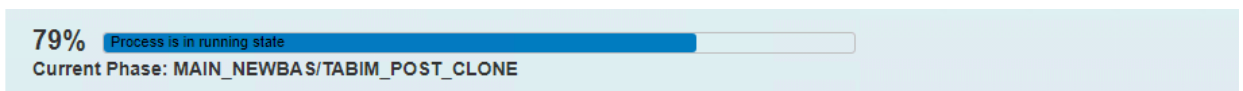
Do you want to repeat the downtime migration phase?

Yes, initialize the downtime migration phase and repeat

No, continue with next phase



Phase: 110 79% MAIN_NEWBAS/TABIM_UPG - long runtime phase 4



Phase: 111 80% MAIN_NEWBAS/XPRAS_AIMMRG - Batch processing

If the following errors occur in SAPR750XPRA90000105.HBT make sure, that the Notes mentioned in [Chapter 3.3.4](#) have been applied:

```
~~~~~
XPRAS ERRORS and RETURN CODE in SAPR750XPRA90000105.HBT
~~~~~
```

```
A4 ERSAA 555 Routines were successfully indicated as SAP objects
A4 ERSAA 555 Routines were successfully indicated as SAP objects
A4 ERSAA 555 Routines were successfully indicated as SAP objects
A4 ERSAA 555 Routines were successfully indicated as SAP objects
A4 ERSAA 555 Routines were successfully indicated as SAP objects
1AETR012XProgram canceled (job "RDDEXECL", number "20051100")
1AEPU320 See job log"RDDEXECL""20051100""HBT"
1 ETP111 exit code : "12"
```

Additional troubleshooting SAP Notes

[Note 1839664 - IMPORT All buffer reset. error a781\(rso\)](#)

[Note 2042755 - Prerequisites: ABAP DD enh. messages. and report texts for SAP Note 2036310](#)

[Note 2036310 - Incorrect AIM execution: No repeated activation of successfully processed objects: technical enhancement](#)

[Note 2042927 - Incorrect AIM execution: No repeated activation of successfully processed objects](#)

[Note 2244827 - SUM or SAPup in an execution phase - Upgrade still running: Logon not possible](#)

[Note 2279019 - Dump SYNTAX_ERROR during MAIN_NEWBAS / XPRAS_AIMMRG phase](#)

[Note 2350730 - Additional Info - SAP BW 7.50 SPO4 Implementation](#)

80% Process is in error state

Current Phase: MAIN_NEWBAS/XPRAS_AIMMRG

Repeat Phase

Checks after phase MAIN_NEWBAS/XPRAS_AIMMRG were negative!

Last error code set:
 Detected 3 aborted activities in 'XPRASUPG.ELG'
 Calling '/usr/sap/BWS/DVEBMGS07/exe/tp' failed with return code 222, check
 /sapmnt/BWS/SUM/abap/log/SAPup_NEW.ECO for details

ERROR:
 Detected the following errors:

```
# /sapmnt/BWS/SUM/abap/log/SAPR740XPRA90000096.BWS:
2 EPU126XPost-import methods for change/transport request: "SAPK740XPRA90000096"
4 EPU111 on the application server: "saps4hsrv"
2 EPU122XPost-import method "FINB_TR_AFTER_IMP_METHOD" started for "FINB_LOCAL_CONTENT" "T", date and time:
"20170904155141"
A2 EFINB_TR 096 Postprocessing of client cascade was skipped for client "000"
A2 EFINB_TR 097 Transport tool FINBASIS: Client cascade for client "100" started
A2EEFINB_TR 042 RFC error with destination "BWSCLNT100" -> see long text"Error when opening an RFC connection (CPIC-
CALL:""ThSAPOCMINIT", communication rc: CM_RESOURCE_FAIL"
A2EEFINB_TR 032 No suitable RFC destination could be found"100"
A2 EFINB_TR 098 Transport tool FINBASIS: Client cascade for client "100" finished
2EPU133 Errors occurred during post-handling "FINB_TR_AFTER_IMP_METHOD" for "FINB_LOCAL_CONTENT" "T"
3 EPU135 "FINB_TR_AFTER_IMP_METHOD" belongs to package "FINB_TRANSPORT_TOOL"
2EPU136 The errors affect the following components:
2EPU137 "FIN-FB" ("Financials Basis")
# /sapmnt/BWS/SUM/abap/log/SAPR740XPRA90000045.BWS:
1 ETP109 version and release : "380.69.55" "749"

...skipped 6 more lines.
Please see XPRASUPG.html for more information.
```

Trouble Ticket Generation

A trouble ticket and an archive with all relevant log files have been generated.
 Trouble ticket: "/sapmnt/BWS/SUM/abap/log/SAPup_troubleticket.log"
 Log archive: "/sapmnt/BWS/SUM/abap/log/SAPup_troubleticket_logs.sar"

Repeat phase MAIN_NEWBAS/XPRAS_AIMMRG to continue at the point it stopped

Initialize phase MAIN_NEWBAS/XPRAS_AIMMRG to restart it from the beginning

INIT

Accept errors and repeat phase MAIN_NEWBAS/XPRAS_AIMMRG

ACCEPT

[Note 912369 - FINB_TR_DEST, after import failures, transport errors](#)

[Note 1564964 - Source system XYZ does not exist](#)

Category	ABAP Programming Error
Runtime Errors	SAPSQL_PARSE_ERROR
Except.	CX_SY_DYNAMIC_OSQI_SEMANTICS
ABAP Program	SAPLRSDO
Application Component	BW-WHM-MTD
Date and Time	05.09.2017 10:55:33

[Note 1962421 - FHP Upgrade failed, issues with InfoObject ORTYPE2](#)

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 should be enabled now. Make a full backup of your database after archiving is enabled again.

Phase: 112 89% MAIN_UPTRANS/STARTSAP_PUPG - 2nd backup request

89% Process is in error state

Current Phase: MAIN_UPTRANS/STARTSAP_PUPG

Repeat Phase

Checks after phase MAIN_UPTRANS/STARTSAP_PUPG were negative!

Last error code set: Process D:\usr\sap\CIH\DVEBMGS01\exe\sapcontrol.exe exited with 2, see 'D:\usr\sap\CIH\SUM\abap\:
 System start failed
 Earlier, validating the profile failed, see INSTANCE.OUT

Trouble Ticket Generation

A trouble ticket and an archive with all relevant log files have been generated.
 Trouble ticket: "D:\usr\sap\CIH\SUM\abap\log\SAPup_troubleticket.log"
 Log archive: "D:\usr\sap\CIH\SUM\abap\log\SAPup_troubleticket_logs.sar"

Repeat phase MAIN_UPTRANS/STARTSAP_PUPG to continue at the point it stopped

Initialize phase MAIN_UPTRANS/STARTSAP_PUPG to restart it from the beginning

INIT

Phase: 113 89% MAIN_UPTRANS/STARTSAP_PUPG

If there is a failure in the start of the new Application Server Instance check the memory settings, as the new SAP Kernel might have other memory recommendations, or simply start the SAP Instance manually.

90% Process is in running state
Current Phase: MAIN_UPTRANS/STARTSAP_PUPG

90% 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.

Phase: 114 89% MAIN_UPTRANS/UPCONF - end of downtime

90% Process is in dialog state
SUM ABAP process started

Continue with roadmap step "Postprocessing"

Current status: continue with phase MAIN_POSTPROC/SETUPGPARG_UPG_POST
Previous step finished successfully and the next one will be started.

Please be advised that additional mandatory manual steps might be listed in the file "CHECKS.LOG"
In order to complete the procedure, please process any manual tasks listed there.

Phase: 115 90% MAIN_UPTRANS/MAIN_POSTP - END (5)

Phase Postprocessing (6)

90% Process is in running state

Current Phase: MAIN_POSTPROC/TOOLIMP_TOOLDEL

90% Process is in dialog state

Current Phase: MAIN_POSTPROC/SUBMOD_MIG_BI_TASKS_POSTP1/REQPOSTMIG_BWHANA_NOTE

Apply SAP Note 1908075

INFO: If you are using a BW system on a *distributed* SAP HANA database, you have to apply the SAP Note **1908075** before continuing.

Phase: 116 90% MAIN_POSTPROC/SUBMOD_MIG_BI_TASKS_POSTP1/REQPOSTMIG_BWHANA_NOTE

[Note 1908075 - BW on SAP HANA SP6: Landscape redistribution](#) (at least Rev. ≥ 60 for HANA needed)

[Note 2334091 - BW/4HANA: Table Placement and Landscape Redistribution](#)

90% Process is in error state

Current Phase: MAIN_POSTPROC/SUBMOD_MIG_BI_TASKS_POSTP1/RUN_PSA_VERSION_CREATE

Repeat Phase

Checks after phase MAIN_POSTPROC/SUBMOD_MIG_BI_TASKS_POSTP1/RUN_PSA_VERSION_CREATE were negative!

Last error code set: Batchjob 'RS_UPG_TOOL_HMW' with id '00232500' is aborted

Trouble Ticket Generation

A trouble ticket and an archive with all relevant log files have been generated.

Trouble ticket: "D:\usr\sap\CIH\SUM\abap\log\SAPup_troubleticket.log"

Log archive: "D:\usr\sap\CIH\SUM\abap\log\SAPup_troubleticket_logs.sar"

- Repeat phase MAIN_POSTPROC/SUBMOD_MIG_BI_TASKS_POSTP1/RUN_PSA_VERSION_CREATE to continue at the point it stopped
- Ignore phase errors and proceed to next phase

Initialize phase MAIN_POSTPROC/SUBMOD_MIG_BI_TASKS_POSTP1/RUN_PSA_VERSION_CREATE to restart i...

INIT

Phase: 117 90% MAIN_POSTPROC/SUBMOD_MIG_BI_TASKS_POSTP1/RUN_PSA_VERSION_CREATE

This error indicates access or similar problems with inactive source systems connected to BW.

[Note 2182306 - 730SP14: PSA Version create step in DMO tool hangs](#)

90% Process is in running state

Current Phase: MAIN_POSTPROC/SUBMOD_MIG_BI_TASKS_POSTP1/RUN_CUBE_CALC_VIEW_CREATE

Phase: 118 90% MAIN_POSTPROC/SUBMOD_MIG_BI_TASKS_POSTP1/
RUN_CUBE_CALC_VIEW_CREATE

[Note 2188433 - Runtime error MOVE_TO_LIT_NOTALLOWED_NODATA](#)

[Note 2161094 - BW on HANA: Upgrade BW 7.3x -> 7.4x: Column Views missing after running RS_BW_POST_MIGRATION](#)

[Note 2228812 - 730SP15: DMO Task 'PSA_PARTITION_CHECK' executed even if not relevant](#)

91% Process is in error state

Current Phase: MAIN_POSTPROC/SUBMOD_MIG_BI_TASKS_POSTP1/RUN_CUBE_CALC_VIEW_CREATE

Repeat Phase

Checks after phase MAIN_POSTPROC/SUBMOD_MIG_BI_TASKS_POSTP1/RUN_CUBE_CALC_VIEW_CREATE were negative!

Last error code set:
Single errors (code <= 8) found in logfile 'PHASES_NEW.ELG'

ERROR:
Batchjob RS_UPG_TOOL_HMW failed.
Detected the following errors:

```
# /sapmnt/BWS/SUM/abap/log/RSUPG_CUBE_CALC_VIEW_CREATE.BWS:
A3 ERSDD_HDB_INDEX 008 Column view activated for object "0REF_DOC_IT"
A3 ERSDD_HDB_INDEX 007 Creating column view of type "MDF" for object "0RSPL_CNTER"...
A3 ERSDD_HDB_INDEX 008 Column view activated for object "0RSPL_CNTER"
A3 ERSDD_HDB_INDEX 007 Creating column view of type "MDF" for object "0RSTT_CELLY"...
A3 ERSDD_HDB_INDEX 008 Column view activated for object "0RSTT_CELLY"
3EER7245 InfoObject "0RSTT_TID" does not exist in version "A"
A3EERS_EXCEPTION 111 Object "0RSTT_CVERS" " " not found
```

...skipped 67 more lines.
Please see [PHASES_NEW.html](#) for more information.

Trouble Ticket Generation

A trouble ticket and an archive with all relevant log files have been generated.
Trouble ticket: "/sapmnt/BWS/SUM/abap/log/SAPup_troubleticket.log"
Log archive: "/sapmnt/BWS/SUM/abap/log/SAPup_troubleticket_logs.sar"

Repeat phase MAIN_POSTPROC/SUBMOD_MIG_BI_TASKS_POSTP1/RUN_CUBE_CALC_VIEW_CREATE to continue at the point it stopped

Ignore phase errors and proceed to next phase

Initialize phase MAIN_POSTPROC/SUBMOD_MIG_BI_TASKS_POSTP1/RUN_CUBE_CALC_VIEW_CREATE to restart it f...

INIT

Phase: 119 91% MAIN_POSTPROC/SUBMOD_MIG_BI_TASKS_POSTP1/
RUN_CUBE_CALC_VIEW_CREATE

91% Process is in error state

Current Phase: MAIN_POSTPROC/SUBMOD_MIG_BI_TASKS_POSTP1/RUN_SRC_DEP_OBJ_REP_ON

Repeat Phase

Checks after phase MAIN_POSTPROC/SUBMOD_MIG_BI_TASKS_POSTP1/RUN_NEW_AUTH_MIGRATE were negative!

Last error code set:
Single errors (code <= 8) found in logfile 'BW_NAUTHMIG_NEW.ELG'

ERROR:
Batchjob RS_UPG_TOOL_HMW failed.
Detected the following errors:

```
# /sapmnt/BWS/SUM/abap/log/RSUPG_NEW_AUTH_MIGRATE.BWS:
A3 ERS_UPG_TOOL 673 Migration of Authorization concepts possible
A3 ERS_UPG_TOOL 674 Authorization will be automatically migrated
A3EERSEC 666 Database error; migration terminated and database restored
A3EERS_UPG_TOOL 715 Task NEW_AUTH_MIGRATE: Read long text for task documentation"NEW_AUTH_MIGRATE"
```

Trouble Ticket Generation

A trouble ticket and an archive with all relevant log files have been generated.
 Trouble ticket: "/sapmnt/BWS/SUM/abap/log/SAPup_troubleticket.log"
 Log archive: "/sapmnt/BWS/SUM/abap/log/SAPup_troubleticket_logs.sar"

Repeat phase MAIN_POSTPROC/SUBMOD_MIG_BI_TASKS_POSTP1/RUN_NEW_AUTH_MIGRATE to continue at the point it stopped
 Ignore phase errors and proceed to next phase

Phase: 120 91% MAIN_POSTPROC/SUBMOD_MIG_BI_TASKS_POSTP1/RUN_SRC_DEP_OBJ_REP_ON

91% Process is in error state

Current Phase: MAIN_POSTPROC/SUBMOD_MIG_BI_TASKS_POSTP1/RUN_DBDIFF_ENTRIES_CREATE

Repeat Phase

Checks after phase MAIN_POSTPROC/SUBMOD_MIG_BI_TASKS_POSTP1/RUN_BWA_INDEX_DELETE were negative!
 Last error code set: Single errors (code <= 8) found in logfile 'BW_INNDEL.ELG'

...skipped 2 more lines.
 Please see [BW_INNDEL.html](#) for more information.

Trouble Ticket Generation

A trouble ticket and an archive with all relevant log files have been generated.
 Trouble ticket: "D:\usr\sap\CIH\SUM\abap\log\SAPup_troubleticket.log"
 Log archive: "D:\usr\sap\CIH\SUM\abap\log\SAPup_troubleticket_logs.sar"

Repeat phase MAIN_POSTPROC/SUBMOD_MIG_BI_TASKS_POSTP1/RUN_BWA_INDEX_DELETE to continue at the point it stopped
 Ignore phase errors and proceed to next phase

Phase: 121 91% MAIN_POSTPROC/SUBMOD_MIG_BI_TASKS_POSTP1/
 RUN_DBDIFF_ENTRIES_CREATE - BIA related

92% Process is in dialog state

Current Phase: MAIN_POSTPROC/SPAUINFO

Procedure Complete

Besides the modification and enhancement adjustments the procedure is completed now and you can resume production operation. You can call transactions SPAU and SPAU_ENH and check for any open adjustments.

All SPAU activities can be performed without object registration key (SSCR) for a period of 14 days after you first entered this phase.

If you have registered a SPAU transport, it will be exported when choosing "Continue" below. Such a transport is needed to perform automatic adjustments in subsequent SAP systems.

In that case, exit the program now and continue after SPAU has been finished.

Continue

No SPAU transport imported

There are 2117 development objects that have been imported by the procedure, that you have also modified previously in your system CIH.

Phase: 122 92% MAIN_POSTPROC/SPAUINFO

You can call transactions SPAU and SPAU_ENH and check for any open adjustments.
 All SPAU activities can be performed without object registration key (SSCR) for a period of 14 days after you first entered this phase.
 If you have registered a SPAU transport, it will be exported when choosing "Continue" below.

Such a transport is needed to perform automatic adjustments in subsequent SAP systems. In that case, exit the program now and continue after SPAU has been finished.

96% Process is in error state

Current Phase: MAIN_POSTPROC/RUN_RSDB02CK_END_DMO

Repeat Phase

Checks after phase MAIN_POSTPROC/RUN_RSDB02CK_END_DMO were negative!

Last error code set:
Single errors (code <= 8) found in logfile 'RSDB02CK.ELG'

ERROR:
Batchjob RSDB02CK failed.
Detected the following errors:

```
# /sapmnt/BWS/SUM/abap/log/RSDB02EN.BWS:
4 ETG036 Module name....: "RSDB02CK"
4 ETG038 Log name .: "RSDB02EN.BWS"
4 ETG040 Start time.....: "05.09.2017" "11:59:28"
4 ETG011 " "
4 ETG039 -----
2EETG001 Secondary index "/BIC/B0000704001-KEY" does not exist in the database
2EETG001 Secondary index "/BIC/B0000706001-KEY" does not exist in the database
```

Trouble Ticket Generation

A trouble ticket and an archive with all relevant log files have been generated.
Trouble ticket: "/sapmnt/BWS/SUM/abap/log/SAPup_troubleticket.log"
Log archive: "/sapmnt/BWS/SUM/abap/log/SAPup_troubleticket_logs.sar"

Repeat phase MAIN_POSTPROC/RUN_RSDB02CK_END_DMO to continue at the point it stopped

Ignore phase errors and proceed to next phase

Phase: 123 96% MAIN_POSTPROC/RUN_RSDB02CK_END_DMO

You can repair any of these errors after the technical DMO procedure with the Report RSDU_TABLE_CONSISTENCY

[Note 2074714 - SUM:RUN_RSDB02CK_END_DMO: Primary indexes missing](#)

[Note 2077953 - How to remove unwanted secondary Indexes after a BW on HANA Database migration](#)

96% 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.

Phase: 124 96% MAIN_POSTPROC/REQUPFINAL

96% Process is in running state

Current Phase: MAIN_POSTCLEAN/RUN_RSAIMMERGE_TRANSFER

97% Process is in running state

Current Phase: MAIN_POSTCLEAN/TOOLIMP_DELETE_ABAP

99% Process is in error state

Current Phase: MAIN_POSTCLEAN/RUN_DMO_DEPOOLING_CHECK

Repeat Phase

Checks after phase MAIN_POSTCLEAN/RUN_DMO_DEPOOLING_CHECK were negative!

Last error code set:
Single errors (code <= 8) found in logfile 'DMO_DEPOOLING_CHECK_PH_NEW.ELG'

ERROR:
Batchjob RSUPGJOB failed.
Detected the following errors:

```
# /sapmnt/BWS/SUM/abap/log/DMO_DEPOOLING_CHECK.BWS:
4 ETG011 " "
4 EETG012 "Job:" "CL_DMO_EARLY_DEPOOLING_CHECK"
4 ETG040 Start time.....: "05.09.2017" "12:04:40"
4 ETG011 " "
4 ETG039 -----
2EETG011 "DB table ARCH_NUM :: DD02L entry missing."
2EETG011 "DB table AT30 :: DD02L entry missing."
2EETG011 "DB table AT40 :: DD02L entry missing."
2EETG011 "DB table AT40T :: DD02L entry missing."
2EETG011 "DB table BC325V00 :: DD02L entry missing."
2EETG011 "DB table BC325V10 :: DD02L entry missing."
2EETG011 "DB table BC325X00 :: DD02L entry missing."
2EETG011 "DB table BC325X01 :: DD02L entry missing."
2EETG011 "DB table BC325X02 :: DD02L entry missing."
...skipped 316 more lines.
Please see DMO_DEPOOLING_CHECK_PH_NEW.html for more information.
```

Trouble Ticket Generation

A trouble ticket and an archive with all relevant log files have been generated.
 Trouble ticket: "/sapmnt/BWS/SUM/abap/log/SAPup_troubleticket.log"
 Log archive: "/sapmnt/BWS/SUM/abap/log/SAPup_troubleticket_logs.sar"

Repeat phase MAIN_POSTCLEAN/RUN_DMO_DEPOOLING_CHECK to continue at the point it stopped

Initialize phase MAIN_POSTCLEAN/RUN_DMO_DEPOOLING_CHECK to restart it from the beginning

INIT

Phase: 125 99% MAIN_POSTCLEAN/RUN_DMO_DEPOOLING_CHECK

99% Process is in running state

Current Phase: MAIN_POSTCLEAN/TOOLIMP_DELETE_ZDM_CRR

Phase: 126 99% MAIN_POSTCLEAN/TOOLIMP_DELETE_ZDM_CRR

99% Process is in running state

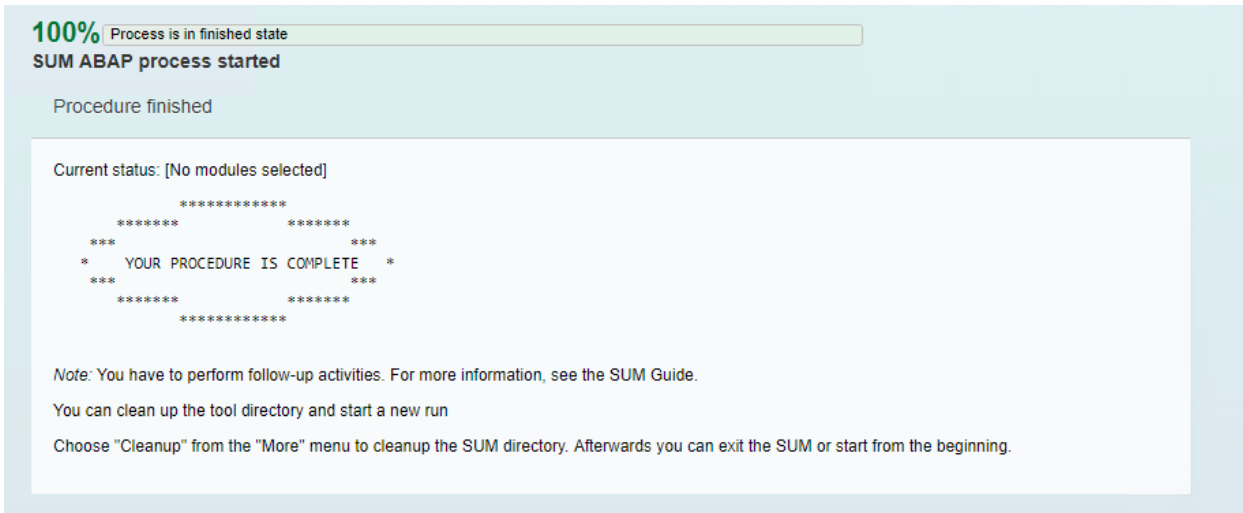
Current Phase: MAIN_POSTCLEAN/SUBMOD_EVALUATE/CREATE_UPGEVAL

Phase: 127 99% MAIN_POSTCLEAN/SUBMOD_EVALUATE/CREATE_UPGEVAL

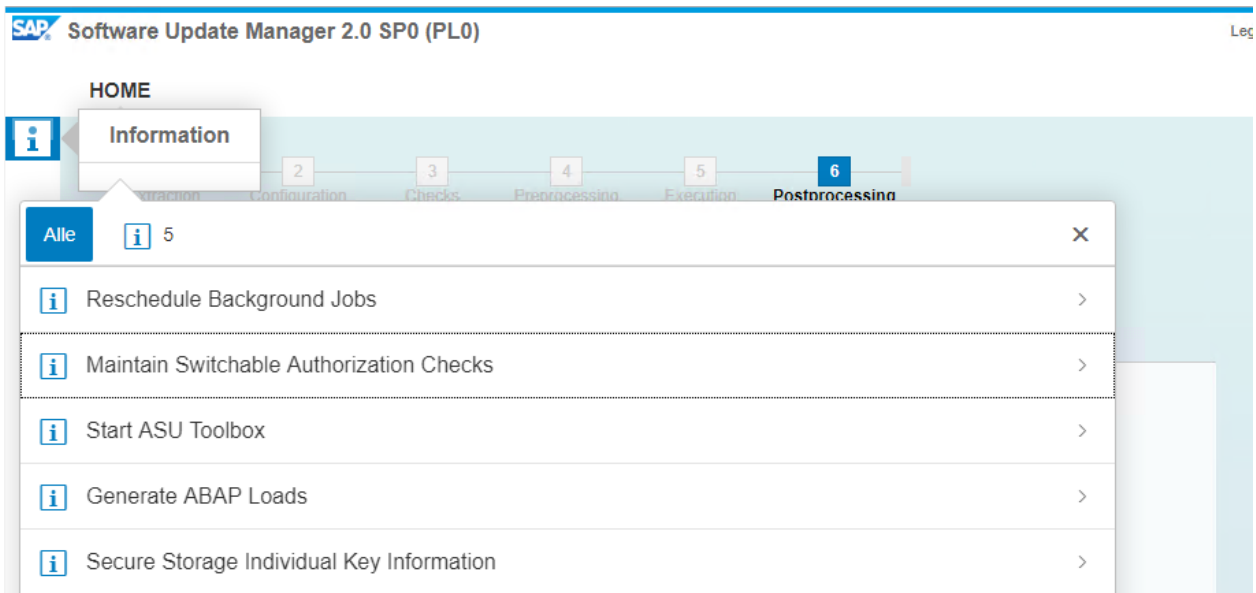
99% Process is in running state

Current Phase: MAIN_POSTCLEAN/SAVELOGS

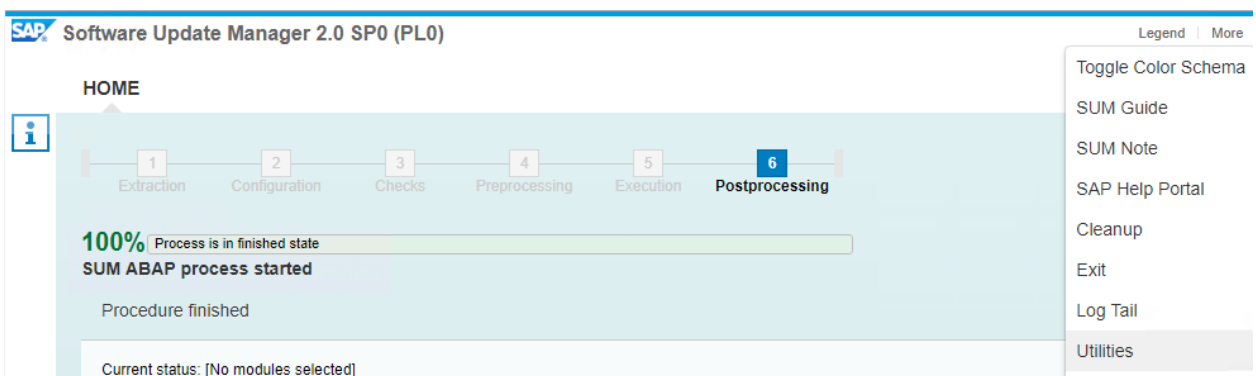
Phase: 128 99% MAIN_POSTP/SAVELOGS



Phase: 129 100% YOUR UPGRADE IS COMPLETE - END (6)



Phase: 130 - MAIN_POSTPROC Information's



Phase: 131 - Software Update Manager - Utilities

[Note 824971 - Message ETG447 for /1SAP1/CCE_RUN01 in LONGPOST.LOG](#)

[Note 2022173 - Errors in LONGPOST.LOG after upgrade related to technical BW objects](#)

Phase MAIN_POSTPROC/REQJOBRES

/INFO: The upgrade has descheduled all background jobs at the beginning of downtime. As the right time to reschedule these background jobs depends on your requirements, the program does not automatically reschedule the jobs.

Moreover, you must revise all background jobs and ensure that they are still applicable for the new release. Then, you can reschedule the system's periodic batch jobs. To do this, start the report

```
*****
*  BTCTRNS2  *
*****
```

As user DDIC in Transaction SE38. Refer also to SAP Note [37425](#)

Phase MAIN_POSTPROC/SUBMOD_MIG_BI_TASKS_POSTP2/REQRSRDA

/INFO: The upgrade has stopped all RDA daemons at the beginning of downtime.

As the right time to restart these daemons depends on your requirements, the program does not automatically restart them. You must restart the RDA daemons manually. To do this, use the transaction

```
*****
*  RSRDA    *
*****
```

Phase MAIN_POSTPROC/REQNOTE1951685

/INFO: The settings in table HTTPURLLOC should be checked.

Please read SAP Note [1951685](#) carefully and perform the described corrections if applicable.

Phase MAIN_POSTPROC/REQ_SPLIT_ASCS

As of NetWeaver 7.30 there is an additional option available for Splitting off a central services instance for ABAP (ASCS instance) from an existing primary application server instance: With the option Split Off ASCS Instance from Existing Primary Application Server Instance, you can split off a central services instance for ABAP (ASCS instance) from the primary application server instance of an existing ABAP system or ABAP+Java (dual-stack) system. For details, you may refer to the corresponding installation guide.

Phase MAIN_POSTPROC/CHK_POSTUP

we strongly recommend to solve the below problems before you resume the production operation of your SAP system.

For more information, see log file 'D:\usr\sap\CIC\SUM\abap\log\LONGPOST.LOG'. You can use the message class and the message number to search relevant SAP Notes on SAP Service Marketplace (for example, search for 'TG123').

If mentioned explicitly in the LONGPOST.LOG you may have to run the following XPRAS again:

COM_PRODUCT_UPGRADE

RSD_XPRA_REPAIR_OTCTIOBJVL_740

RSD_XPRA_REPAIR_RSCHAVL_740

3.4 Software Update Manager Evaluation

<http://<server>.<domain>.<ext>:1128/lmsl/sumabap/<SID>/doc/eval/index.html>

SUM Evaluation ✕

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:

- 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.
- 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.
- 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.

SEND TO SAP

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
 Actual system
 Test on copy of the system

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

Yes
 No

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

Did the process documentation meet your needs?

Yes
 Partly
 No

Can we contact you in case of questions? If yes, please enter an e-mail address:

Contact Email Address:

roland.kramer@sap.com

Do you have any comments on the tool or process?

Process XML:

```

<![CDATA[###FILENAME:UPGANA###]]><![CDATA[<?xml version="1.0"?>
<?xml-stylesheet type="text/xsl" href="UpgAnalysis.xsl"?>

<!-- File generated with SAPup version 58.000 date 2015/03/11 13:19:59 -->

<analysis SID="CIC" instnumber="SAP-INTERN" startdate="20150303200925"
enddate="20150311122952">
  <title>Upgrade with Software Update Manager on NW system release
740</title>
  <configuration group="System">
        
```

SEND TO SAP

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.

Phase: 132 - DMO Process XML - Details

Navigation

- SUM Parameters
- SUM Phaselist
- SUM Analysis
- DMO Migration Preparation
- DMO Migration Control Center
- DMO Migration Post Analysis

SUM Analysis

EhP Installation with Software Update Manager on NW system release 740 (with DMO)

[Open All](#) [Close All](#) >> Component Versions >> PREPARE >> MAIN >> XPRAs >> After Import Methods >> After Import Methods during Uptime >> Conversions >> SQLs >> Transports >> Migration Uptime >> Migration Downtime >> Process Statistics

System

Start-Release:	700
Destination-Release:	740
SID:	BWS
Installation number:	SAP-INTERN
OS-Type:	Linux X86_64
OS-Version:	2.22
SAP-Host:	saps4hsrv
Batch host:	saps4hsrv
NR-Clients (productive):	1 (0)

DB-Information

DB-Type Old:	MSSQL
DB-Type New:	HDB
DB-Version:	1.00.122.11.1499758750
DB size (initial):	82.08/91.41 GB
DB size (final):	0.00/0.00 GB
DB-Host:	saps4hsrv

Configuration

Strategy:	Downtime-minimized	Archiving:	Archiving_on
Batch processes:	24/24	Used nZDM capabilities:	no
R3trans processes:	24/24	SGEN processes:	3
R3load processes:	48/48		
J2EE present:	no		

Times

Start date:	2017/08/30 22:27:24	End date:	2017/09/06 08:00:00
Minimum downtime:	4:39:31	Runtime:	19:59:19
Since	13:07:45	Since DB_CLONE:	13:30:42
START_SHDL_FIRST:			

Phase: 133 - SUM/DMO Analysis - Details

Upgrade with Software Update Manager on NW system release 750

[Open All](#) [Close All](#) >> Component Versions >> PREPARE >> MAIN >> After Import Methods >> Conversions >> Transports >> Process Statistics

System

Start-Release:	740
Destination-Release:	750
SID:	BWS
Installation number:	SAP-INTERN
OS-Type:	Linux X86_64
OS-Version:	2.22
SAP-Host:	saps4hsrv
Batch host:	saps4hsrv
NR-Clients (productive):	1 (0)

DB-Information

DB-Type New:	HDB
DB-Version:	1.00.122.11.1499758750
DB size (initial):	47.94/56.62 GB
DB size (final):	58.83/66.88 GB
DB-Host:	saps4hsrv

3.5 Post Activities after the main DMO Procedure

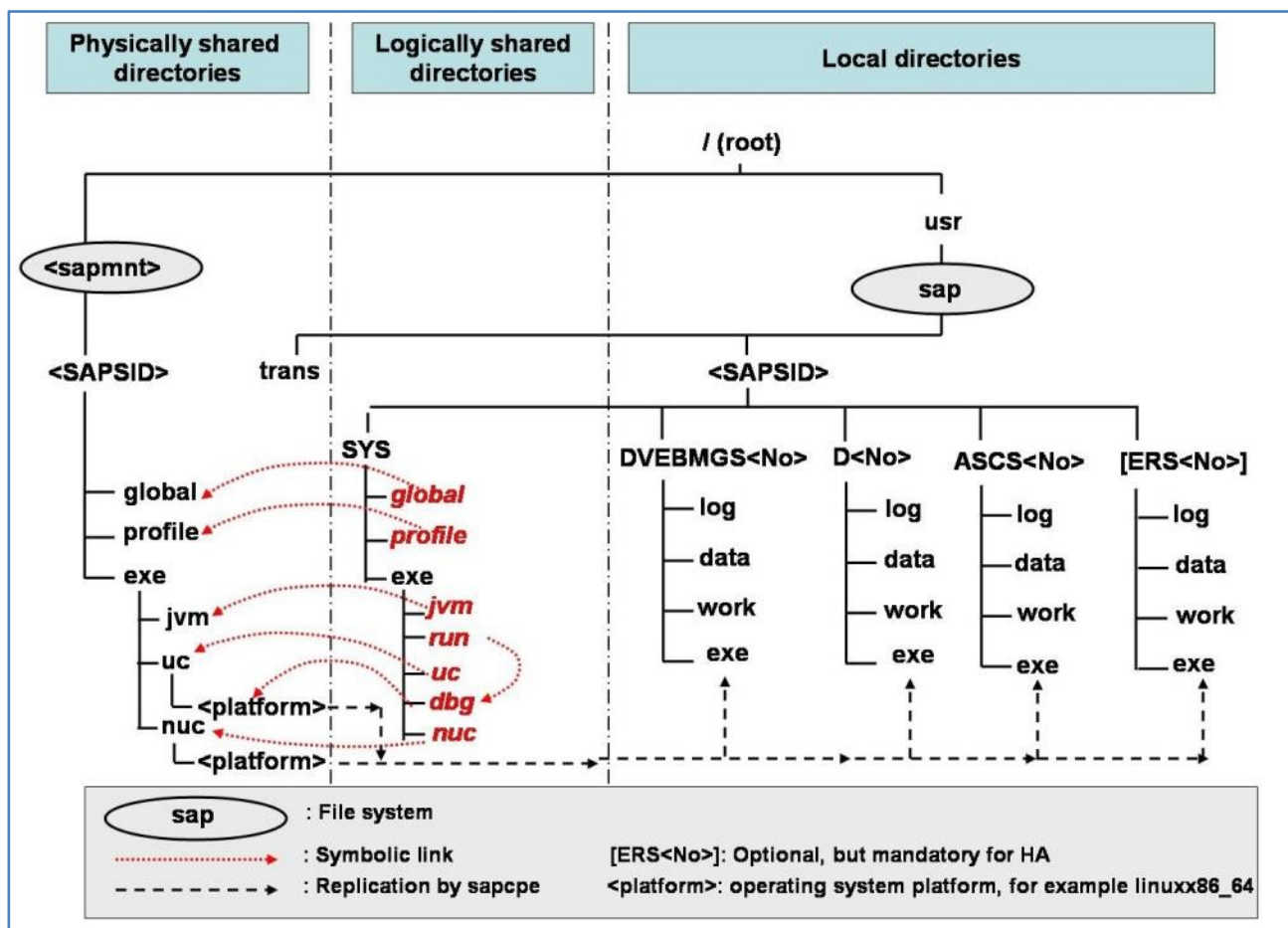
Split off ASCS Instance from Existing Server

In case the Source System was based on non-unicode (NUC) or was already upgraded from a previous release, you must check the file structure of your SAP Instance manually. See the following Notes for details:

Windows → Note 919046 - Upgrade to the New Instance-Specific Directory Structure

UNIX → Note 1104735 - Upgrade to new instance-specific directory on UNIX

The following graphic illustrates the new structure on UNIX based systems (since NetWeaver 7.0 UC):



Phase: 134 - new structure on UNIX based systems

The structure for Win64 based systems looks similar, except the symbolic links as they are not exist on Win64 in the SAP context.

Furthermore, you must Split off ASCS Instance from the Primary Application Server Instance to follow the new Guideline from 7.30 onwards.

This can be done via a software provisioning manager (SWPM) option. See the following pages for details.

The software provisioning manager can be downloaded either from <http://service.sap.com/patches> or <http://service.sap.com/sltoolset>

SAPInst n4sadm@iwdf4366

File SAPInst Help

SAP NetWeaver
SOFTWARE DELIVERY TOOL

1 Choose Option 2 Define Parameters 3 Summary 4 Execute 5 Completed

Welcome to SAP Installation

Before you start the installation, make sure that you have identified the required capabilities as described in the Master Guide.

Go to the option you want to execute. To display relevant help information in the right-hand panel, select an option or folder.

SAP Installation Master

- ▶ SAP NetWeaver 7.4
- ▶ SAP Enhancement Package 1 for SAP NetWeaver 7.3
 - ▶ IBM DB2 for i5/OS
 - ▶ IBM DB2 for Linux, UNIX, and Windows
 - ▶ IBM DB2 for z/OS
 - ▶ MaxDB
 - ▶ MS SQL Server
 - ▶ Oracle
 - ▶ SAP HANA Database
 - ▶ Preparations
 - ▶ SAP Systems
 - ▶ Additional SAP System Instances
 - ▶ Additional Application Server Instance
 - ▶ Enqueue Replication Server Instance
 - ▶ **Split Off ASCS Instance from Existing Primary Application Server Instance**
 - ▶ System Copy
 - ▶ SAP Sybase ASE
- ▶ SAP NetWeaver 7.3
 - ▶ SAP NetWeaver Composition Environment (CE) 7.2
 - ▶ SAP EHP1 for SAP NetWeaver Composition Environment (CE) 7.1
 - ▶ SAP NetWeaver Composition Environment (CE) 7.1

Description

Splits off a central services instance for ABAP (ASCS instance) from the primary application server instance of an existing ABAP system or ABAP+Java (dual-stack) system.

Optionally installs an enqueue replication server instance (ERS instance) for the ASCS instance.

The existing system of the primary application server instance must meet the following prerequisites:

- It was upgraded to SAP Enhancement Package 1 for SAP NetWeaver 7.3
- It does not yet have an ASCS instance

ASCS Instance

The ASCS instance is the main point of communication and synchronization for the ABAP application server instances. It consists of the message server and the enqueue server for the ABAP stack.

ERS Instance

Next >

SAPInst n4sadm@iwdf4366: SAP Enhancement Package 1 for SAP NetWeaver 7.3 > SAP HANA Database > Additional SAP System Instances > Split Off A...

File SAPInst Help

SAP NetWeaver
SOFTWARE DELIVERY TOOL

1 Choose Option 2 Define Parameters 3 Summary 4 Execute 5 Completed

Hosts for Adaptive Setup

Enter the required host names to use the adaptive environment. In addition, you can install an enqueue replication server (ERS) for the ABAP central services (ASCS) instance.

Adaptive Setup Hosts

Host for the ASCS instance * iwdf4366

Install an ERS instance

Host for the ERS instance * iwdf4366

Start Instances at the End of the Installation

Start the primary application server instance

Start other local instances

SAPinst n4sadm@iwdf4366: SAP Enhancement Package 1 for SAP NetWeaver 7.3 > SAP HANA Database > Additional SAP System Instances > Split Off A...

File SAPInst Help

SAP NetWeaver

SOFTWARE DELIVERY TOOL

1 Choose Option 2 Define Parameters 3 Summary 4 Execute 5 Completed

ASCS Instance

Enter the parameters for the central services instance for ABAP (ASCS instance). In addition, you can install an enqueue replication server instance (ERS instance).

ASCS Instance

The following SAP system instances already exist on this host:

SAP System ID	Instance Name	Instance Number
N4S	DVEBM6501	01

Instance Number*

Install ERS for this Instance

Host name for the ERS Instance*

Additional Information

- The ASCS instance requires an *Instance number* as a technical identifier for internal processes, such as assigned memory. This number must be unique for this installation host.
- If you intend to install the ERS instance on the **same** physical host as the ASCS instance, select the *Install ERS for this Instance* checkbox and enter the physical host name or a virtual host name in the *Host Name for the ERS Instance* field. In this case, you must **not** run installation option *Enqueue Replication Server Instance* after you have finished this installation option.
- If you intend to install the ERS instance on a physical host that is **different** from the physical host of the ASCS instance, do **not** select the *Install ERS for this Instance* checkbox. In this case, you have to run installation option *Enqueue Replication Server Instance* after you have finished this installation option.

Back Next

SAPinst n4sadm@iwdf4366: SAP Enhancement Package 1 for SAP NetWeaver 7.3 > SAP HANA Database > Additional SAP System Instances > Split Off A...

File SAPInst Help

SAP NetWeaver

SOFTWARE DELIVERY TOOL

1 Choose Option 2 Define Parameters 3 Summary 4 Execute 5 Completed

ABAP Message Server Ports

Enter the required message server ports.

ABAP Message Server Ports

ABAP message server port

Internal ABAP message server port

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.

SAPInst n4sadm@iwdf4366: SAP Enhancement Package 1 for SAP NetWeaver 7.3 > SAP HANA Database > Additional SAP System Instances > Split Off A...

File SAPInst Help

SAP NetWeaver

SOFTWARE DELIVERY TOOL

1 Choose Option 2 Define Parameters **3 Summary** 4 Execute 5 Completed

Enqueue Replication Server Instance

Enter the parameters for the SAP Enqueue Replication Server (ERS) instance.

ERS Instance

Detected Instances

SAP System ID	Instance	Number
N4S	DVEBM6S01	01
N4S	ASC02	02

Name of the Central Services Instance to be Replicated:

Number of the Central Services Instance to be Replicated:

Number of the ERS Instance*:

Additional Information
The ERS instance requires an *Instance number* as a technical identifier for internal processes. This number must be unique for this installation host.

Task Progress

The task has completed.

All phases completed

- ✔ Split Off ASCS Instance from Existing Primary Application Server Instance
- ✔ Update system dlls
- ✔ Stop system
- ✔ Install ASCS instance
- ✔ Install instance basics of ASC02
- ✔ Install ERS instance
- ✔ Install instance basics of ERS12
- ✔ Start ERS instance
- ✔ Start central services instance
- ✔ Restart instance services
- ✔ Start primary application server
- ✔ Start other instances

Execution of Service SAP Enhancement Package 1 for SAP NetWeaver 7.3 > SAP HANA Database > Additional SAP System Instances > Split Off ASCS Instance from Existing Primary Application Server Instance has been completed successfully.
Choose OK to close the installer.

sapmmc - [Console Root\SAP Systems\N4S\iwdf4366 1\Process List]

File Action View Favorites Window Help

Console Root

- SAP Systems
 - N4S
 - iwdf4366 1
 - Process List**
 - Current Status
 - Open Alerts
 - Syslog
 - Queue Statistic
 - Access Points
 - AS ABAP WP Table
 - ICM
 - iwdf4366 2
 - Process List
 - Syslog
 - Access Points
 - Enqueue Locks
 - Enqueue Statistic
 - iwdf4366 12

Process List (2 entries)

Process	Description	Pid	Status	Start time	Elapsed time
dsp+work.EXE	Dispatcher	19636	Running, Message Server connecti...	2013 07 03 16:38:44	0:02:31
igs wd.EXE	IGS Watchdog	14960	Running	2013 07 03 16:38:44	0:02:31

HANA Specific Post Steps

Activate new HANA server functions

To work with the new SAP BW 7.40 Functionality together with SAP HANA 1.0 SP07 and above, you must activate the following components on your HANA server.

[Note 1650957 - SAP HANA Database: Starting the Script Server](#)

Name	Default	System	Host - It5086
daemon.ini		◆	◆
[] scriptserver		◆	◆
arguments			
executable	hdbscriptserver		
flags	COMPRESSBACKUP		
instances	0	● 1	● 1

[Note 1917938 - Migration des Statistics Server mit dem Upgrade auf SPS 7 → Rev. 71](#)

[Note 1925684 - ABAP adjustments for SAP HANA SPS 7](#)

Name	Default	System	Host - It5086
daemon.ini		◆	◆
[] statisticsserver			
arguments			
executable	hdbstatisticsserver		
flags	COMPRESSBACKUP		
instances	0		● 1
nameserver.ini		◆	◆
[] statisticsserver		◆	◆
active	false	● true	◆

[Note 2147247 - FAQ: SAP HANA Statistics Server](#)

[Note 2081135 - Enable "Dynamic Range Partitioning" feature for DataStore objects \(advanced\)](#)

HBW (SYSTEM) HBW System It5006.wdf.sap.corp 10 Last Update: 20.10.2014 14:24:54 Interval: 60 Seconds

Overview Landscape Alerts Performance Volumes Configuration System Information Diagnosis Files Trace Configuration

Filter:

Name	Default	System	Host - It5006
[] communication			◆
[] debugging_backend			◆
[] distribution			◆
[] global			◆
[] graph_engine			◆
[] indexing			◆
merge			◆
parameters			◆
usage			◆
[] joins			◆
[] livecache			◆
[] merged			◆
[] olap			◆
[] optimization			◆
[] parallel			◆

[] partitioning		◆	◆
allow_dynamic_range_partitioning		● true	◆
bulk_load_threads	4		◆
dynamic_range_check_time_interval_sec		● 9000000	◆
dynamic_range_default_threshold		● 10000000	◆
split_threads	16		◆

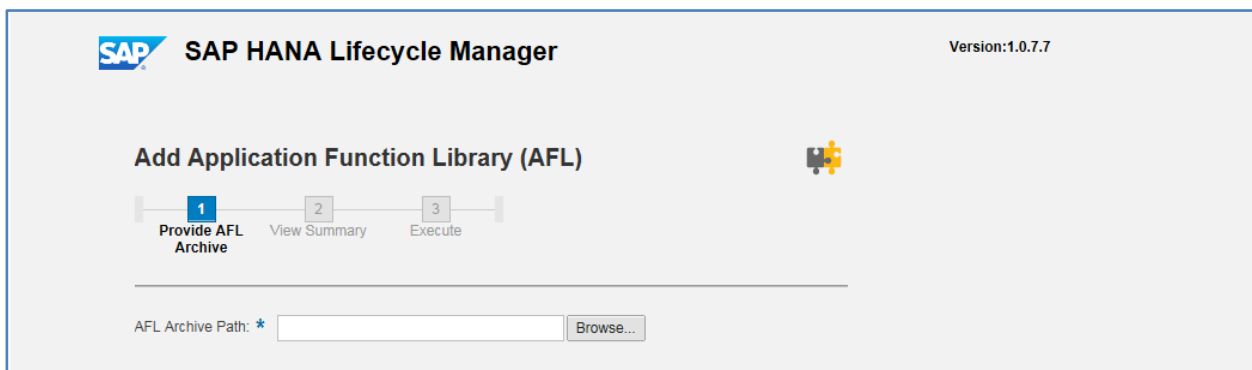
Add the following Parameters to the HANA 1.0 Rev. 83 configuration after you updated the binaries:

```
indexserver.ini > partitioning >
allow_dynamic_range_partitioning = true
dynamic_range_check_time_interval_sec = 900
dynamic_range_default_threshold = 10000000
```

Install Application Function Library (AFL)

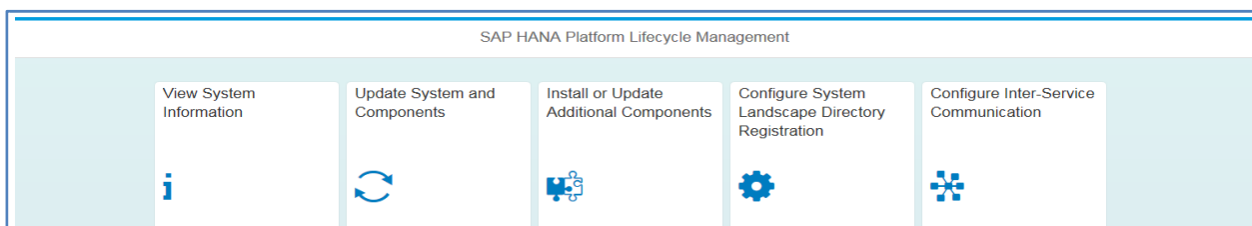
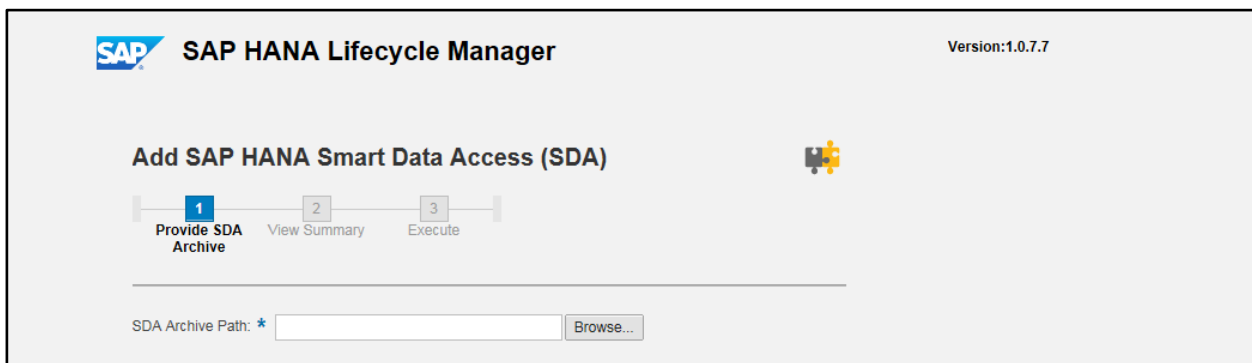
The HANA Analysis Process (HAP) uses the AFL content for SAP HANA. Therefore, you must import the correct Version of the AFL assign to your HANA Revision. If you are Updating HANA with AFL content applied, you must update the AFL content first, or apply a complete HANA stack. You can use the HANA Lifecycle Management via the HANA Studio.

Refer to the SAP First Guidance Document - [SAP First Guidance - Business Warehouse on SAP HANA Installation](#) for more Details.



Install the smart data access (SDA) drivers

The SDA drivers can be applied with the same tool (HLM) as mentioned above.



Configuring DBMS User Man. for SAP HANA

[Note 1559592 - Valid User Names for DBMS User](#)

[Note 2073847 - Support for new fields for DBMS user in SQL back-end interface](#)

To enable the usage of the Analysis Capabilities together with SAP BW and HANA, you must map the existing ABAP User to an existing HANA User.

With the Transaction DBCO create a connection with the SAP<SID> to the underlying HANA database and assign this connection in the User DBMS System View (SM30 → Table USR_DBMS_SYSTEM). After this, you can assign the user in the Transaction SU01 via an additional Tab Strip as follows:

Display View "Description of Database Connections": Overview

Database Con...	DBS	Pe...	User Name	Conn.Li...	Opt. Conns	Connection information
DBACOCKPIT	HDB	<input type="checkbox"/>	DBACOCKPIT	1	1	wdf.sap.corp:30115
HBDCLNT001	HDB	<input checked="" type="checkbox"/>	SAPHBD	1	1	wdf.sap.corp:30115
SAPIQDB	SYB	<input type="checkbox"/>	SAPNLSIQDB	1	1	SYBASE_SERVER=wdf.sap.corp SYBASE_PORT=2640 SYBAS

Change View "System Settings for User Administration in DBMS": Overvie

DB Connection Name	Client
HBDCLNT001	001

It is suitable to use a similar notation as for the creation of logical source systems as known for SAP BW.

Maintain Users

User: I008817
 Changed By: I008817 | 11.03.2015 14:35:58 | Status: Saved

Documentation | Address | Logon Data | **DBMS** | SNC | Defaults | Parameters | Roles | Profiles | Groups | Personalization | Lic. Data

DBMS User

DBMS User: **KRAMER** IMS user exists
 Valid from: 11.03.2015
 Valid through:
 E-Mail Address:
Authentication
 Password
 New Password: *****
 Repeat Password: *****
 Kerberos
 External Identity:
 SAML
 X509
 SAP Logon Ticket
 SAP Assertion Ticket

Assigned DBMS Roles

Database Management System Role	Assigned By
ABAP_ADMIN	SYSTEM
ABAP_SYS_REPO	SYSTEM
CONTENT_ADMIN	SYSTEM
DBA_COCKPIT	SYSTEM

The Assignment of the Analytical Privilege `_SYS_BI_CP_ALL` is helpful as well. See also

[Note 1956963 - Creating roles from BW in SAP HANA not possible](#)

[Note 1881935 - Access privileges required for SAP Lumira from SAP HANA](#)

[Note 1823771 - SAP Lumira 1.0 - Insufficient rights: Unable to connect to HANA server, or Not enough rights to open view \(HDB 02074\).](#)

[Note 2086725 - HANA HALM is not working with error- 403 Forbidden](#)

Additional Information can also be found in the SAP Help Portal:

http://help.sap.com/saphelp_nw74/helpdata/en/74/3ef0e24417493a8bf2b50fb0199d64/content.htm?frameset=/en/74/3ef0e24417493a8bf2b50fb0199d64/frameset.htm¤t_toc=/en/06/371640b7b6dd5fe1000000a155106/plain.htm&node_id=217&show_children=false

Transaction RS2HANA_VIEW

Settings for external SAP HANA view for BW objects

SAP HANA Package	system-local.bw.bw2hana
Assignment Type	D
SAP HANA User Mapping	D

Additional Information for the details of the Transaction can be found in the SAP First Guidance Document - <https://scn.sap.com/docs/DOC-52790>

Furthermore, the additional SAP Notes corrections must be applied (Component BW-WHM-MTD-HMOD):

[Note 2057532 - Error "User has no authorization" after rep. of BW authorizations for a specific BW user](#)

[Note 2040167 - Replication of CP * authorizations and correction in the key of BW filter tables](#)

If you are not yet on SAP BW Support Package Stack 08, these SAP Notes are also relevant:

[Note 2038892 - Prerequisite SAP Note for SAP Note 2038865](#)

[Note 2038865 - External SAP HANA view: Assignment of SAP HANA authorizations without roles](#)

Data Warehousing Workbench: BI Content



Switch (Business Functions)

All Objects According to Type	Technical Name	S.	User	URL
▶ InfoSet	ISET			
▶ HybridProvider	HYBR			
▶ Semantically Partitioned Object	LPOA			
▼ InfoCube	CUBE			
• Select Objects				
• Change Document Analysis Authorization	0TCA_HIE			
• Change Document Authorizations	0TCA_UA			
• Change Document Analysis Authorization	0TCA_VAL			
▶ DataStore Object (Advanced)	ADSO			
▼ InfoObject	IOBJ			
• Select Objects				
• Activity in Analysis Authorizations	0TCAACTVT			
• Number of Authorization Records	0TCACOUNT			
• InfoArea for Analysis Authorizations	0TCAIFAREA			
• Authorizations for InfoProvider	0TCAIPROV			
• Key Figure in Analysis Authorizations	0TCAKYFNM			
• Authorizations Language	0TCALANG			
• Language of Authorization Texts	0TCALANGU			
• Change Type Analysis Authorizations	0TCARECMODE			
• Texts Load Authorizations	0TCATXTLG			
• Texts Load Authorizations	0TCATXTMD			
• Texts Load Authorizations	0TCATXTSH			
• Validity of an Authorization	0TCAVALID			





Mass Maintenance of DBMS User

For the Mass Maintenance of the DBMS Users you can use the Program RSUSR_DBMS_USERS:
(Component BC-SEC-USR-ADM)

DBMS user: Mass processing





User Selection

User	<input type="text" value="KRAMER"/>		
User Type	<input type="text" value="A"/>		
User Group	<input type="text" value="SUPER"/>		
By ABAP Role Assignment	<input type="text"/>		

Show only unmapped users

DBMS Role Selection

DBMS Role	<input type="text"/>		<input type="button" value="Select DBMS Role"/>
User to Copy DBMS Roles From	<input type="text"/>		

Function Selection

- Display users
- Remove mappings to DBMS users
- Create and map DBMS users
- Assign DBMS roles
- Remove DBMS roles

Options

- Generate passwords when creating DBMS users
- Show only error messages

Details about the usage can be found in the following Notes:

[Note 1927767 - Mass DBMS User Management](#)

[Note 1836006 - Requirements for DBMS User for DB connection](#)

Additional Information can also be found in the SAP Help Portal:

http://help.sap.com/saphelp_nw74/helpdata/en/69/faccbf575c4f79b61e1b38af757a2c/content.htm?frameset=/en/82/25d779272c40b2867137374af77017/frameset.htm¤t_toc=/en/06/371640b7b6dd5fe1000000a155106/plain.htm&node_id=223

 Tip:

Create with SE93 a Transaction to call the program RSUSR_DBMS_USERS directly.



See also the Blog from Posted by [Matthias Buehl](#) in [Security](#) on Oct 21, 2014
[DBMS Users in SAP NetWeaver AS ABAP 7.40](#)

Transaction RS2HANA_CHECK/ADMIN

With the Transactions RS2HANA_ADMIN and RS2HANA_CHECK you can maintain the correct creation of the external HANA Views. The Functionality will be final delivered with 7.40 SP09, so apply the following

[Note 2031522 - Transactions RS2HANA_ADMIN and RS2HANA_CHECK](#)

[Note 2135108 - Error "user not authorized" with database user longer than 12 records](#)

[Note 2174750 - RS2HANA_CHECK enhancement: Check for system privileges REPO.MODIFY_* \(SAP HANA change recording management\)](#)

Check Consistency of SAP HANA Model Generation Framework

Concerned Objects

Object(s): Is Query

BW User:

DB Connection for BW User:

Include SAP<SID> user (SAPHBD)

Performed Checks

- General SAP HANA Privileges (SELECT, EXECUTE on Schema & Package)
- Check Privileges of SAP<SID> (SAPHBD) User
- Existence and Assignment of SAP HANA Procedure(s)
- Existence and Assignment of SAP HANA Privilege(s)
- Existence and Assignment of SAP HANA Role(s)
- Existence of Filter String(s)
- Existence of SAP HANA View(s)
- Run Example SQL Select on SAP HANA View(s)
- Session Client of SAP HANA User(s)

Displayed Results

- General SAP HANA Model Generation Settings
- Include Successful Checks
- Filter String(s) via Direct Table Access and via SAP HANA Procedure Call
- Time stamp(s) when authorizations last generated

Miscellaneous Options

Check Secondary DB Connection

Generate SAP HANA Authorization(s)

Run RSRV Check

Display Authorization Information

Transaction to call the Report directly: RS2HANA_AUTH_RUN

Run BW2HANA authorization generation

List of InfoProviders:

All avail. InfoProviders

List of users:

All avail. users

Force generation

Simulation mode

Display user messages

Create objects

Delete objects

Create CDS views after migration

[Note 2081053 - Cannot create CDS views: Missing base objects](#)

[Note 2084716 - Upgr phase RUN_RUTDDLSCREATE: Prompt for error handling no errors are present](#)

[Note 2086902 - Cannot create CDS views: Missing base objects](#)

[Note 2089122 - SAP HANA DB: CDS view w. external view as base object can't be created in the database](#)

[Note 2150018 - CDS views missing from database](#)

[Note 2153150 - DDL source is not active due to missing base table include fields](#)

[Note 2160038 - Error message during activation: View cannot be deleted from the database](#)

[Note 2179450 - Activation errors for CDS views if feature is missing from database](#)

CDS views are defined and activated using DDL sources in ABAP in Eclipse (AIE). When you activate the DDL source, the CDS view and a corresponding SQL view are generated from it.

There is no editor in the workbench (transaction SE80).

If an error occurs here during the activation, correct the error in AIE and check or activate the DDL source again. You can edit the DDL sources in the target system using AIE and activate them directly if necessary. Otherwise you must correct the DDL sources in the original system and carry out a new transport.

In the upgrade, errors can occur with DDL sources in different phases, for example in the activation phase, in one of the PARDIST phases, or finally during the creation of the generated SQL views in the database. Check the corresponding action log. If the error appears to be temporary, you can repeat this phase. Using the program does not make sense here. The back-end system might not even be available depending on the upgrade phase.

Overview of Logs					
Log name	User	Date	Time	Length	Severity
MVNTABS20150623180228	KRAMER	23.06.2015	18:02:28	8.800	W
DDLSACT120150623175824	KRAMER	23.06.2015	17:58:24	8.540	E



For general Information's about the correct HANA settings and performance Problems see also the KBA's

[Note 2000003 - FAQ: SAP HANA](#)

[Note 2186744 - FAQ: SAP HANA Parameters](#)

BW Specific Post Steps

With the following SAP Notes, you can elaborate the recommended SAP ABAP Backend Version with the assigned SAP HANA Revision. If your "Matrix" differs towards to an actual SAP HANA Revision, but you SAP BW Release is still 7.30, then you cannot benefit from the current possibilities based on BW on HANA, such as embedded BPC planning or BW-MT together with Advanced DSO (BW-aDSO)

[Note 1850327 - SP Equivalence for update/upgrade to SAP NW 7.4](#)

[Note 1914052 - NetWeaver 7.40 Database Dependencies](#)

Check for updates for SNOTE/SPAU corrections

[Note 1668882 - Note Assistant: Important notes for SAP_BASIS 730,731,740](#)

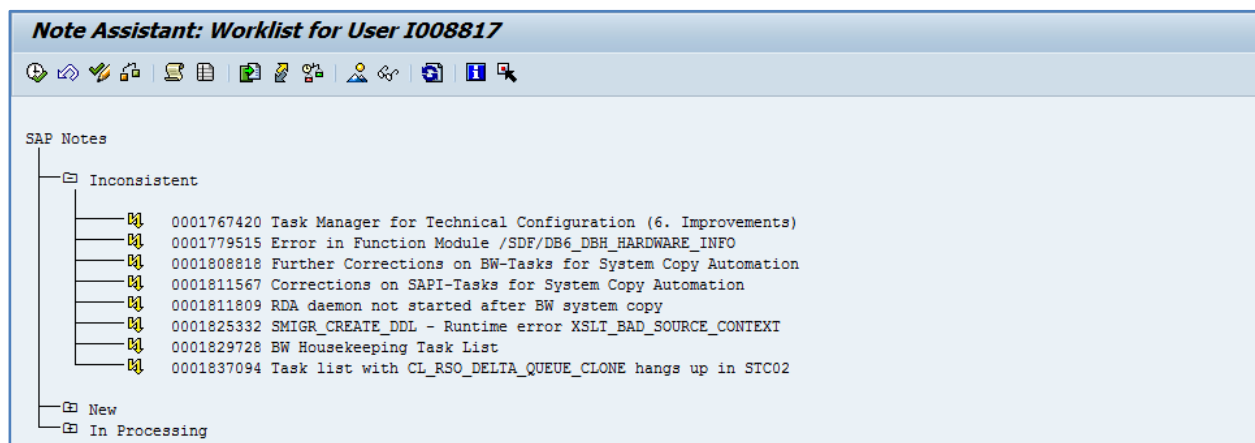
[Note 2077553 - Obsolete version imp. notes - Automatic adjustment for manual activities in SPAU](#)

Search for SAPKB740xx (where xx can be 10, 11, and 12) and in the Application Area for

SNOTE → BC-EIM-ESH

SPAU → BC-DWB-CEX

Transaction SNOTE

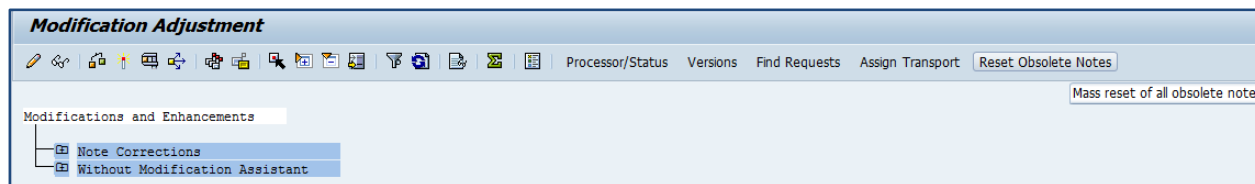


Note Assistant: Worklist for User 1008817

SAP Notes

- Inconsistent
 - 0001767420 Task Manager for Technical Configuration (6. Improvements)
 - 0001779515 Error in Function Module /SDF/DB6_DBH_HARDWARE_INFO
 - 0001808818 Further Corrections on BW-Tasks for System Copy Automation
 - 0001811567 Corrections on SAPI-Tasks for System Copy Automation
 - 0001811809 RDA daemon not started after BW system copy
 - 0001825332 SMIGR_CREATE_DDL - Runtime error XSLI_BAD_SOURCE_CONTEXT
 - 0001829728 BW Housekeeping Task List
 - 0001837094 Task list with CL_RSO_DELTA_QUEUE_CLONE hangs up in STC02
- New
- In Processing

Transaction SPAU



Modification Adjustment

Processor/Status Versions Find Requests Assign Transport Mass reset of all obsolete notes

Modifications and Enhancements

- Note Corrections
- Without Modification Assistant

[Note 1975910 - Mass reset of obsolete notes in SPAU](#)

[Note 1972294 - SPAU: Resetting of obsolete SAP Notes](#)

[Note 2166955 - Deletion and reactivation of ABAP Dictionary object generates deadlock on DDFTX](#)

[Note 2122333 - DD_INT_UPDATE_DDFTX hangs without end](#)

[Note 2028598 - SAP GUI 7.40: Front-end printing with access method 'F' no longer works](#)

Important SAP Notes after 7.40 SP08 and higher

This is a collection of SAP Note correction for various topics after the Upgrade of SAP BW 7.40 SP08 and higher

[Note 1709947 - SP29:Field length wrong in source and target of TRF](#)

[Note 2036310 - Incorrect AIM execution: No repeated activation of successfully processed objects: technical enhancement](#)

[Note 2076059 - After upgrade to later BW releases, key figure values are not displayed correctly](#)

[Note 2077976 - Table pool deletion incorrectly handled](#)

[Note 2086899 - Upgrade phase MAIN_SHDRUN/ACT_UPG returns error messages](#)

[Note 2091348 - CD: No call of BAdI on shadow instance during upgrade](#)

[Note 2120719 - RC = 12 during script-based Inhouse transport, error RSO 781](#)

[Note 2136898 - Missing Database Index after Upgrade from SAP Business Warehouse 7.40 SP8 to 7.40 SP 10 or lower on non-SAP HANA database systems](#)

[Note 2146347 - Planning DSO: Error RSDODSO 256 after upgrade from BW 7.3X](#)

[Note 2125844 - Automatic upload of profiles after an upgrade](#)

Regenerate Technical Content

Run the transaction RSTCT_INST_BIAC or RSTCO_ADMIN.

Run the transaction RS_PERS_ACTIVATE.




Make sure that the background user BWREMOTE is correctly configured - [BW 7.x Basis Customizing](#)

RowStore to Column conversion after 7.40 SP08

[Note 2044047 - Pre-BW7.4 SP08 RowStore-to-ColumnStore conversion](#)

Program RSDU_MOVE_TO_COLUMN

Moves tables to Column Store

<input checked="" type="radio"/> Check only
<input type="radio"/> Convert Tables locally
<input type="radio"/> Convert and Transport

Moves tables to Column Store			
Table Name	Record Count	Size in Bytes	
D010TAB	16.375.345	1.099.634,632	
D010INC	6.664.546	553.246,192	
SEOCOMPODF	1.423.389	398.461,312	
VARI	463.215	186.111,848	
EUDB	11.530	21.771,896	
INDX_HIER	325	607,888	
EUFUNC	550	500,464	

With BW7.40 SP08 the number of RowStore tables is again significantly reduced by approximately 1000 tables as they are moved to the ColumnStore. This has several positive impacts on the system, most prominently a shorter re-start time since ColumnStore tables are loaded in lazy mode and a better overall system compression rate – without a negative impact on the system performance and stability. Check HANA DB with transaction DBACOCKPIT

From the technical perspective your database migration process (DMO) including the upgrade to SAP BW 7.31/7.40 is complete.

Check HANA DB with transaction DBACOCKPIT

From the technical perspective, your database migration process including the upgrade to SAP BW 7.31/7.40 is complete.

[KBA Note 2077953 - How to remove unwanted sec Indexes after a BW on HANA Database migration](#)

The screenshot shows the SAP HANA Overview page for system N4S. The interface includes a navigation tree on the left and several monitoring panels. The 'General System Information' panel shows the operational state as 'OK' and lists service start times. The 'Database Memory and CPU' panel features progress bars for memory usage (136,34 GB / 227,16 GB) and CPU usage (32). The 'Database Disk Usage' panel shows progress bars for data volume (352,90 GB / 2.741,57 GB), log volume (18,27 GB / 2.741,57 GB), and trace files (0,57 GB / 2.741,57 GB). The 'Host #5006' panel shows host-level memory and CPU usage. The 'Disks' panel displays disk usage for data, log, and trace files. A status bar at the bottom indicates 'Database connection DEFAULT established successfully'.

Diagnostics: Missing Tables and Indexes

System N4S

Last Check: 00:00:00

DB Name: HDB/01 | DB Server: lt5006 | Started: 28.06.2013 14:11:04 | DB Release: 1.00.53.37..

Results of Consistency Check	Summary	Info	Act...
Objects missing in the database	✓	!	
Unknown objects in ABAP Dictionary	✓	!	
Inconsistent objects	✓	!	
Other checks	✓	!	
Optional indexes	✓	!	

Database Connections

Total Number: 2 | Via RFC Destination: []

Display | Test | Edit | Delete | Add | Change User Credentials

Remote Database Connection	D...	DB Host	DB ...	User Name	Permanent	Ma...	O...
SAP HANA database							
• CIHCLNTDBA		lt5007.wdf.sap.corp		DBACOCKPIT	<input type="checkbox"/>	0	0
• CIHCLNTHDB		lt5007.wdf.sap.corp		SYSTEM	<input type="checkbox"/>	0	0

You must manually create the DBCON entry for the HDB connection with the user DBACOCKPIT.

The automatic created local connection (<SID>) is not visible in this view or in transaction DBCO

Please Note that the DMO process includes also all post activity steps after the Upgrade and Migration as well. Depending on the needed corrections, there is a need to run the Report RS_BW_POST_MIGRATION separately. The usage of the ASU toolbox is already mentioned before.

In case of running the Report RS_BW_POST_MIGRATION again, apply the following Notes first

[Note 2103428 - HANA: Performance improvement of function module TREX_EXT_LIST_INDEXES](#)

[Note 2161094 - BW on HANA: Upgrade BW 7.3x -> 7.4x: Column Views missing after running RS_BW_POST_MIGRATION](#)

[Note 2103428 - HANA: Performance improvement of function module TREX_EXT_LIST_INDEXES](#)

Optionally it might be necessary to re-run certain steps in interaction with the program RSDU_TABLE_CONSISTENCY and/or RSDDB_INDEX_CREATE_MASS, like the recreation of the calc views. This depends on the skipped phases in the DMP procedure beforehand.

Follow the procedure in the following SAP Note to activate the Web based access to the DBACOCKPIT.

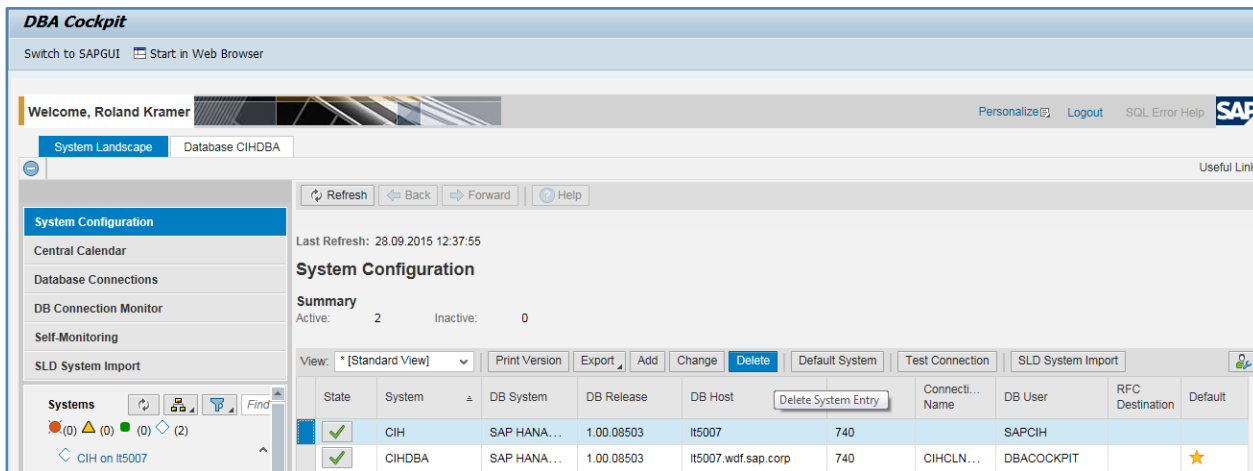
[Note 1245200 - DBA: ICF Service-Activation for WebDynpro DBA Cockpit](#)

[Note 2058283 - DDIC/DB consistency check: Unknown objects in ABAP/4 Dictionary](#)

[Note 2049571 - SAP BW 7.40 \(SP09\) DB migration](#)

[Note 2074695 - SAP BW 7.40 \(SP10\) Migration](#)

[Note 2153496 - Enhancements and problem solutions with SAP BW 7.40 SP12 \(SAPBW74012\)](#)



[Note 2136898 - Missing Database Index after Upgrade from SAP Business Warehouse 7.40 SP8 to 7.40 SP.12 or lower](#)

```
DROP FULLTEXT INDEX "SAP<SID>". "RSOS_RSLTIPT_DESCRIPTION";
```

Migration Check - SHDB_MIGRATION_CHECK

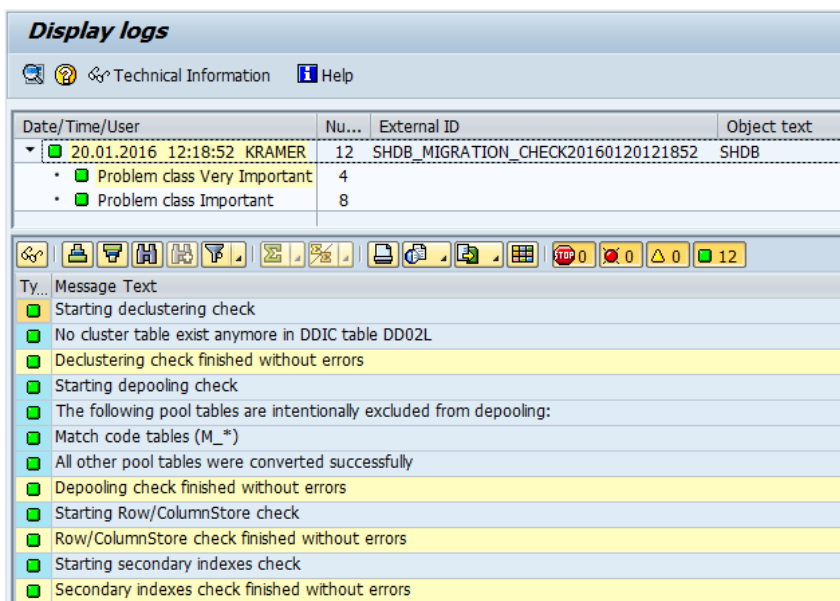
[Note 1785060 - Recommendations for performing the migration to SAP HANA](#)

[Note 2163556 - Secondary indexes check detected errors when running SHDB_MIGRATION_CHECK](#)

[Note 2227432 - Declustering and depooling with NW 7.4 SP03 on databases other than SAP HANA](#)

Run the Report SHDB_MIGRATION_CHECK and check for Errors in the Areas of:

- Declustering
- Depooling
- Row/ColumnStore
- Secondary Indexes



Errors can be repaired within Transactions SE11 and SE14 (Extras → Change Table Type)

Application Check - RSDU_TABLE_CONSISTENCY

[Note 1977584 - Technical Consistency Checks for SAP HANA Databases](#)

[Note 2110539 - Error using RSDU_TABLE_CONSISTENCY repair](#)

[Note 2110993 - Program RSDU_TABLE_CONSISTENCY can repair emp. incorrectly partitioned InfoCubes](#)

[KBA Note 2098436 - RSDS243 „Request &1 in PSA has zero records” in a HANA system](#)

Before you run the Report RSDU_TABLE_CONSISTENCY make sure the following corrections or the equivalent Service Pack is applied:

[Note 1937062 - Usage of RSDU_TABLE_CONSISTENCY](#) (apply in sequence 1953984 and 1953493)

[Note 2093836 - SHDB: tools for HANA integration \(7.30 SP13; 7.31 SP15; 7.40 SP10\)](#)

[Note 2099114 - RSHDB: HANA tools for BW \(7.30 SP13; 7.31 SP15; 7.40 SP10\)](#)

[Note 2025241 - SHDB: Tool classes for NW 7.30 SP13](#)

[Note 2025271 - RSHDB: RSDU_TABLE_CONSISTENCY NW7.30 SP13](#)

[Note 1953493 - RSHDB: RSDU_TABLE_CONSISTENCY NW7.30 SP12](#)

[Note 1953984 - SHDB: Development tool classes NW 7.30 SP12](#)

[Note 1888511 - RSHDB: Dev. RSDU_TABLE_CONSISTENCY NW 7.30 SP11](#)

[Note 1892492 - SHDB: Development Tool-Classes NW7.30 SP11](#)

Program RSDU_TABLE_CONSISTENCY

Data selection

Table names to

Operational modes

Show issues in GUI Store issues

Available Consistency Checks

<input checked="" type="checkbox"/> CL_SCEN_DEAD_TABLES	Find tables in DDIC as well in DB, which are inaccessible by BW
<input checked="" type="checkbox"/> CL_SCEN_SEC_INDEX	Find fact tables with a secondary index
<input checked="" type="checkbox"/> CL_SCEN_PRIMARY_KEY	Check the Primary Keys of tables according their type
<input checked="" type="checkbox"/> CL_SCEN_PARTITION_SPEC	Check the Partition Specification of tables
<input checked="" type="checkbox"/> CL_SCEN_STORAGE_TYPE	Check tables to be in RowStore or ColumnStore
<input checked="" type="checkbox"/> CL_SCEN_TABLE_LOCATION	Check tables are located on certain servers
<input checked="" type="checkbox"/> CL_SCEN_TAB_CLASSIFICATION	Check tables are classified correctly
<input checked="" type="checkbox"/> CL_SCEN_COMPRESSION	Check tables auto merge and compression

Data selection

Table names to

Issues from previous checks

issues: 348 selected: 0

Operational modes

Show issues in GUI Store issues Repair

After the first run (either for or background) with option „Store issues“ you will an additional operation mode “Repair” and the section “Issues from previous checks”

DoubleClick on the selected Line in the Log list (1)

Results of BW Table Consistency Check			
Exce...	No.	Message text	Context of message
⊗	1	Issues checked by I008817 at 28.08.2013 17:30:43	class: CL_ISSUE_PRIMARY_KEY; key: 051M70wo7kE3}jca8mJmPG
⊗	2	Issues checked by I008817 at 28.08.2013 17:30:43	class: CL_ISSUE_PART_SPEC; key: 051M70wo7kE3}jca8mKGPG
⊗	3	Issues checked by I008817 at 28.08.2013 17:30:43	class: CL_ISSUE_PART_SPEC; key: 051M70wo7kE3}jca8mKMPG
⊗	4	Issues checked by I008817 at 28.08.2013 17:30:43	class: CL_ISSUE_STORAGE_TYPE; key: 051M70wo7kE3}jca8mLGPG
⊗	5	Issues checked by I008817 at 28.08.2013 17:30:43	class: CL_ISSUE_TAB_CLASSIFICATION; key: 051M70wo7kE3}jca8mLmPG
⊗	6	Issues checked by I008817 at 28.08.2013 17:30:44	class: CL_ISSUE_COMPRESSION; key: 051M70wo7kE3}jca8mMGP

Press the Save Button (2)

Partition Spec Issues								
Exce...	Status	Type	Reason	Table	PK	Row Count	BW Object	Expected Spec.
⊗	REPAIRABLE	ODS	difference BW/DB found	/BI0/AGAE_APLG00		0,000	OGAE_APLG	HASH %NUM_SERVERS% REQUES
⊗	REPAIRABLE	ODS	difference BW/DB found	/BI0/AGAE_ARAT00		0,000	OGAE_ARAT	HASH %NUM_SERVERS% REQUES
⊗	REPAIRABLE	ODS	difference BW/DB found	/BI0/AGAE_ARHS00		0,000	OGAE_ARHS	HASH %NUM_SERVERS% REQUES
⊗	REPAIRABLE	ODS	difference BW/DB found	/BI0/AGAE_ATCH00		0,000	OGAE_ATCH	HASH %NUM_SERVERS% REQUES
⊗	REPAIRABLE	ODS	difference BW/DB found	/BI0/AGAE_CFVL00		0,000	OGAE_CFVL	HASH %NUM_SERVERS% REQUES
⊗	REPAIRABLE	ODS	difference BW/DB found	/BI0/AGAE_EMTP00		0,000	OGAE_EMTP	HASH %NUM_SERVERS% REQUES
⊗	REPAIRABLE	ODS	difference BW/DB found	/BI0/AGAE_HST00		0,000	OGAE_HST	HASH %NUM_SERVERS% REQUES
⊗	REPAIRABLE	ODS	difference BW/DB found	/BI0/AGCC_CPRO0		0,000	OGCC_CPR	HASH %NUM_SERVERS% REQUES

Continue with these Steps (1-2) for the other entries in the Log List as well.

Go back to the main entry screen and start the “Repair” option with “Execute in Background”

Program Edit Goto System Help

- Execute F8
- Execute and Print Ctrl+P
- Execute in Background F9**
- Exit Shift+F3

Table names: [] to []

Issues from previous checks: [Show] [Delete]

Operational modes:

 Show issues in GUI

 Store issues

 Repair

The Repair Job is now running as background job. Check either with SM50 or SM37.

Repair inconsistent PSA tables

[Note 1979867 - Program for repairing inconsistent partitioning of PSA tables](#)


The Note contains the program RSDU_PSA_PARTNO_CHECK.

The usage of the program is identical with the program RSDU_TABLE_CONSISTENCY.

Report RSDU_PSA_PARTNO_CHECK

↳



Data selection

Table names to 

Operational modes

Show issues in GUI Store issues

Results of PSA PARTNO Check

Exception	No.	Message text	Ctx.
	1	Checked 6866 tables without range partitioning:	
	2	Found 1232 problematic PSA tables (double click for details)	

Regenerate all Transformations

With the existing Report RSDG_TRFN_ACTIVATE you should re-activate all Transformations again after the migration. Within this step the HANA optimization takes place, as far as the existing Transformation is capable to handle this.

Corrections for Report RSDG_TRFN_ACTIVATE

[Note 1823174 - BW 7.4 changes and customer-specific programs](#)

[Note 1928753 - Syntax error in start / end routine of a transformation](#)


[Note 1927521 - SP32: Report 'RSDG_TRFN_ACTIVATE' with check option](#)

[Note 2108561 - Runtime object of transformation in RTO case, standard as of BW 7.40, no singleton instance/RSTRAN333](#)








[Note 2191288 - Transformation runtime program created without routines or formulas in rare cases](#)

Report RSDG_TRFN_ACTIVATE

RSDG_TRFN_ACTIVATE




Transformation Selection

Transformation ID	<input type="text"/>	to	<input type="text"/>	
Object Status	<input type="text" value="INA"/>			
Source Type	<input type="text"/>	to	<input type="text"/>	
Source Name	<input type="text"/>	to	<input type="text"/>	
Target Type	<input type="text"/>	to	<input type="text"/>	
Target Name	<input type="text"/>	to	<input type="text"/>	
Type of Main Object	<input type="text"/>	to	<input type="text"/>	
Name of Main Object	<input type="text"/>	to	<input type="text"/>	

Settings

- Check Only
- Set erroneous objects to INA
- Use M Version of DTP (If Available)
- Transport recording for TRFN / DTP



Technical Restrictions

Last changed by	<input type="text"/>	to	<input type="text"/>	
UTC Time Stamp in Short Form (<input type="text"/>	to	<input type="text"/>	

Migrate existing BW Workspaces

Report RS_BW_POST_MIGRATION

Heterogenous BW Migration, Invalidation of Generated Routines

HANA database specific tasks

09) Drop BWA indexes	<input type="checkbox"/>	
10) Drop aggregates	<input type="checkbox"/>	
11) Drop temp. hierarchy tables	<input type="checkbox"/>	
12) Create views for InfoProvider	<input checked="" type="checkbox"/>	
max. workprocesses (0 = 80% of WPs)	<input type="text" value="30"/>	
13) Recreate calc views changelog	<input checked="" type="checkbox"/>	
14) Set Unload Priority	<input checked="" type="checkbox"/>	
15) Adjust Snapshots and AnalyticalIndexe	<input checked="" type="checkbox"/>	

Corrections for Report RS_BW_POST_MIGRATION

[Note 1953480 - Column view generation after upgrade to SAP BW 7.40 SP5 or above](#)

[Note 2084404 - BW Workspaces: upgrade 730/731 SAP HANA -> 740 SAP HANA](#)

[Note 2161094 - BW on HANA: Upgrade BW 7.3x -> 7.4x: Column Views m. RS_BW_POST_MIGRATION](#)

Report RSDDDB_INDEX_CREATE_MASS

Program RSDDDB_INDEX_CREATE_MASS

↳

Mass Creation for InfoProvider Views

↗ Selection of InfoProvider for creation (regardless of selection below)

Create Views for all Local Providers

Skip object if it already exists?

Display Log at the end?

Execute in parallel (by TLOGO type)?

Max. number of work processes (0 = 80% of WPs)

Start Mass Creation

Mass Deletion for InfoProvider Views

↗ Selection of InfoProvider for deletion (regardless of selection below)

Display Log at the end?

Delete in parallel (by TLOGO type)?

Max. number of work processes (0 = 80% of WPs)

Start Mass Deletion

Corrections for Report RSDDDB_INDEX_CREATE_MASS

[Note 2106851 - Column Store Error 2048 when executing RSDDDB_LOGINDEX_CREATE on MultiProvider](#)

[Note 2130664 - Termination CX_RSR_X_MESSAGE when characteristic activated](#)

[Note 2153017 - olap:merging multi value dicts is not implemented](#)

If you had a BWA in use, and with BW 7.30 the new BW workspaces you can now also adjust these areas for the usage on BW on HANA.

After the [SAP Note 2060342](#) has been implemented with the latest version, please execute step 12 of the post migration report (RS_BW_POST_MIGRATION) which also adjusts the xmls of the CompositeProviders. Afterwards please execute report SET_COPR4REPAIR_MPRO

[Note 2047732 - After system copy the query execution ends with error 2048 using a SAP HANA database](#)

[Note 2131803 - Workspaces: General corrections to BW Workspace Designer - requirements](#)

Execution of the Report RS_UDO_NOTE_2131803

[Note 2122367 - Workspaces: General corrections to BW Workspace Designer](#)

In General, you can always save for the latest corrections for the BW Workspaces in the Application Area "BW-BEX-OT-WSP" together with the Support Package you are looking for, e.g. SAPKW74010.

[Note 2152359 - BW search/input help for InfoObjects returns no results](#)

This Report fills the metadata cache for the SAP search help, e.g. F4 RSOSN_INIT_DATA_74008 or Transaction RSOSM

BW Search on SAP HANA Maintenance

Search Metadata | Search Where Used

General Information

Overall Status: ✔ BW Search is Active

Shared Buffer Status: ✔ Buffer is fully available

SAP HANA Package: system-local.bw.bwsearch.SAPINJ

TLOGO Objects Maintained:	25		
TLOGO Objects Active:	25		

	Required		Available	
Total Number of Views:	266		266	
Metadata Views:	98		98	
Where-Used Views:	168		168	

Configure BW Search Configure TLOGO Object
 Configure Association Type

[Note 2064791 - "Migration" of BW Workspaces from BW7.3 with BWA to BW 7.4 on HANA](#)

Refer to the attached Graphic [Note_2064791.jpg](#) for details of using the SAP Note.

(Before) Transaction RSWSP or Report RSL_WSP_BACKUP_CREATE

The screenshot shows the SAP menu for workspace management. The 'Create Data Backup' option is highlighted in yellow. Other visible options include 'Data Warehousing Workbench', 'Collective Check', 'Display Check Logs', 'Detailed Search', 'Repair, activate CompositeProvider', and 'Display BW InfoObject Impact Logs'. The workspace name is shown as '/nRSWSP' and the current workspace is 'DEMO_PB'.

(After - 1) Report RSL_WSP_ADJUSTMENT_AINX

BW Workspaces: Adjustment for HANA

Display Logs

Workspace:


Log

External ID	Adjustment of BW Workspaces Local Providers
Retention Period (in Days)	30

(After - 2) Report RSL_WSP_ADJUSTMENT_COMPLETE

BW Workspaces: Adjustment for HANA

Display Logs Help on...

Workspace * to 










Log


External ID	HANA Adjustment of BW Workspaces
Retention Period (in Days)	<input type="text" value="0"/>

BW Migration Post Task List with DMO procedure

The call of the Post Migration Task List is optional in case not all steps ran successfully with the DMO procedure. However, this Task List is implemented with the DMO procedure as well.

Task Manager for Technical Configuration

      With Variant  Variants  Variant  Variants


Task List 

[Note 2017638 - Corrections to SAP_UPDATE_DBDIFF and RS_BW_POST_MIGRATION](#)




Convert InfoCubes into in-memory optimized

Use Transaction RSMIGRHANADB to convert InfoCubes on demand, DSO objects remains unchanged.

Optimize Conversion of Standard Objects to SAP HANA-Optimized Objects



Objects to be Converted

<input checked="" type="radio"/> Standard InfoCube	<input type="text"/>	
<input type="radio"/> Standard DataStore Object	<input type="text"/>	
<input type="radio"/> Semantically Partitioned Obj.	<input type="text"/>	
<input checked="" type="radio"/> Rebuild MPRO directly		
<input type="radio"/> Rebuild MPRO at end of list		
<input type="radio"/> Invalidate MPRO (Cache only) – manual rebuild necessary (expert only)		

Options for DataStore Conversion

<input checked="" type="radio"/> Without Change Log
<input type="radio"/> Reconstruct Change Log

General Settings

Show Log after each conversion

[Note 1731569 - SAP HANA DB: Check for correct InfoCube migration](#)

[Note 1925571 - BW on SAP HANA: Conversion of an InfoCube terminates](#)

[Note 1926112 - BW on SAP HANA: Merge after InfoCube compression](#)

[Note 1952076 - Report BW_POST_MIGRATION causes ABAP memory shortage](#)

If you have inconsistencies with the BW-PCA or the BW Housekeeping Task Lists, reset the NOTES implementation for these Notes, as they are Part of the SPO8 for 7.31 and higher now.

The new created Document - [SAP First Guidance - Implementing BW-MT for BW-aDSO](#) contains a comprehensive list of SAP Notes to apply after 7.40 SPO8 (SR2) and higher to enable the BW system also for the latest enhancements, including BW-MT, BW-HAP and BW-aDSO.

See also the Blog: Converting DataStore Objects and InfoCubes into advanced DSO

<http://scn.sap.com/docs/DOC-64718>

Additional SAP Notes to check/repair inconsistencies on lower releases:

[Note 1827854 - Enqueue/Lock during parallel data loads](#)

[Note 1839792 - Consolidated note on check and repair report for the request administration in BW](#)

[Note 1903072 - Error "Could not create logical index" occurred when activating InfoObject](#)

[Note 1977218 - How to handle HANA Alert 52 'Check for new crash dump files'](#)

[Note 1977231 - DBMAN099: View or Procedure Invalidated; table or view name = OBW:BIA:xxx:<ABC>](#)

[Note 2074801 - Dumps and Issues with special InfoObjects](#)

[Note 2147247 - FAQ: SAP HANA Statistics Server](#)

Notes to stay compatible with MS IE 9/10/11

[Note 1989718 - Use of "Edge" and "Compatibility" mode for HTTP system logon page](#)

[Note 1970427 - SAP GUI for HTML: Rendering problems in Enterprise Portal \(EP\)](#)

[Note 1753544 - Web Dynpro - HTML standards mode](#)

[Note 1814711 - SAP applications iViews in EP: Rendering Modes](#)

[Note 2000082 - Runtime Exception when trying to add new user agent string](#)

[Note 2008196 - SAP NWBC ABAP Runtime Patch 38](#)

[Note 1353538 - NWBC -Patch Collection- SERVER SIDE \(ABAP\)+NWBC for HTML](#)

You can always look for the latest corrections in certain areas at <http://support.sap.com/notes> with the keywords like:

Example: find all HANA DSO related SAP Note corrections after NetWeaver 7.31 SP10

SAPKW73111 HANA DSO

Example: find all advanced DSO related SAP Note corrections after NetWeaver 7.40 SP09

SAPKW74011 HANA aDSO BW-aDSO

Convert MultiProvider to CompositeProvider

This functionality is available with SAP BW 7.40 SP10 or higher.

[Note 2080851 - Conversion of MultiProvider to CompositeProvider](#)

In transaction SA38, execute the program RSO_CONVERT_IPRO_TO_HCPR

Copy an existing InfoProvider to a CompositeProvider(incl. Queries)	
InfoProvider	<input checked="" type="checkbox"/>
CompositeProvider(HCPR)	<input checked="" type="checkbox"/>
<input type="checkbox"/> Overwrite Existing HCPR	
Backup InfoProvider	<input type="text"/>
MODE	Simulate

The following actions are possible (with 7.40 SP10/11):

- Conversion of a MultiProvider to a CompositeProvider
- Conversion of a MultiProvider to a CompositeProvider with the same name
 - This is only possible:
 - If no name conversion is required
 - If no content version of the MultiProvider exists
 - If no transformation uses the MultiProvider as a source
- Conversion of an old CompositeProvider to a new CompositeProvider
- Copying of queries to the new CompositeProvider considering the InfoObject mapping
- Creation of a backup for a MultiProvider
- Recovery of a MultiProvider from the backup

Activate ABAP WebDynpro in BW 7.40

The implementation in Web Dynpro ABAP enables you to make master data editing available as a Web-based application to business users. To be able to use the WebDynpro based master data maintenance, the following services must be active in transaction SICF:

Use Transaction SICF_INST also to activate the DBACOCKIT web dynpro´s.

/default_host/sap/bc/webdynpro/sap/RSDMDM_MD_NEW_APP

/default_host/sap/bc/webdynpro/sap/RSDMDM_MD_MAINTENANCE_APP

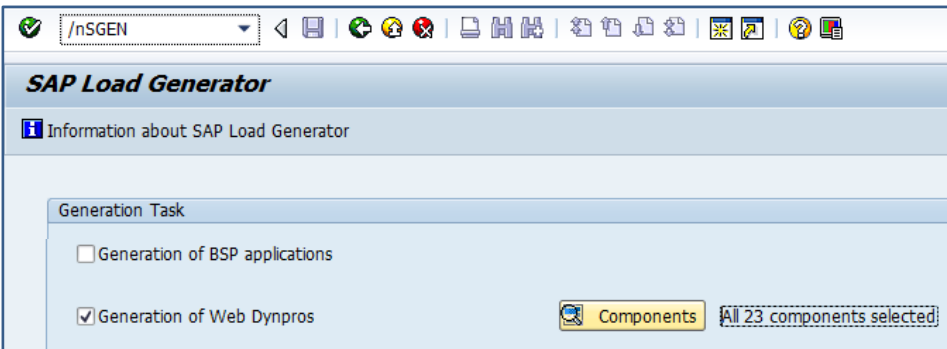
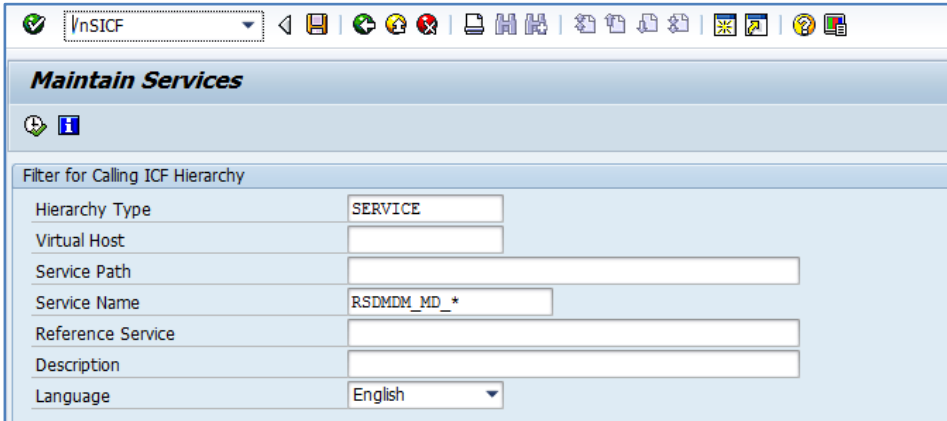
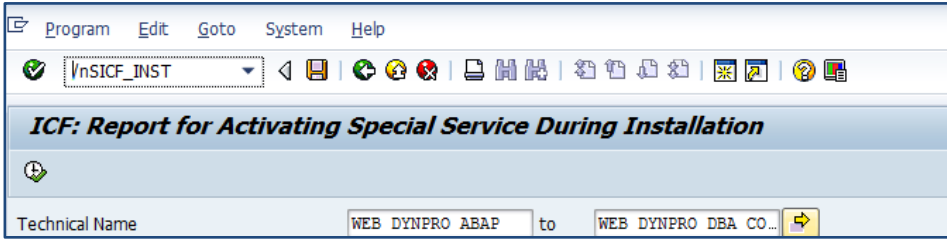
/default_host/sap/bc/webdynpro/sap/RSO_METADATA_REPOSITORY

[Note 1969105 - Master data maintenance for InfoObjects does not start](#)

[Note 1088717 - Active services for Web Dynpro ABAP in transaction SICF](#)

[Note 1769139 - Metadata Repository: This program cannot display the webpage](#)

[Note 2224765 - Internal navigation from Eclipse to DWB](#)



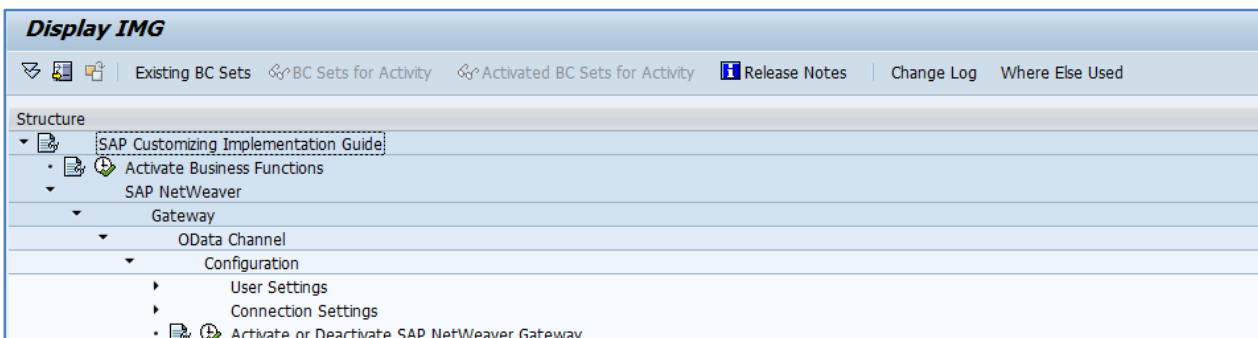
Activate the UI5 Process Monitor

Configuring the App for Process Chain Monitoring

[Note 2113675 - RSPCM_WEB transaction error with 403 Forbidden](http://help.sap.com/saphelp_nw74/helpdata/en/49/917b48b0904d1eaf6d1bd5a3824bf2/content.htm)

http://help.sap.com/saphelp_nw74/helpdata/en/49/917b48b0904d1eaf6d1bd5a3824bf2/content.htm

RSPCM_GW_SERVICE_SRV



SAP

SAP NetWeaver Gateway is active.

- Manage RFC Destinations
- Define Trust for SAP Business Systems
- **Manage SAP System Aliases**
- Maintain Context Based SAP System Aliases
- Activate or Deactivate SAP NetWeaver Gateway

Change View "Manage SAP System Aliases": Overview

New Entries

SAP System Alias	Description	Local GW	For Local App	RFC Destination	Software Version	System ID	Client	WS Provider System
IWF_UNIT_TEST_1	Unit Test System Alias - Do not modify	<input type="checkbox"/>	<input type="checkbox"/>	U3D_000	DEFAULT			PS_U3D_000
LOCAL	Local System Alias	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NONE	DEFAULT			

- Administration
 - General Settings
 - Activate and Maintain Services**
 - Assign Data Provider to Data Model
 - Assign SAP System Aliases to OData Service
 - Define Virus Scan Profiles
 - Enable or Disable Soft State

Activate and Maintain Services

Service Catalog

Filter

Add Service

Add Selected Services

Get Services

Filter

System Alias: LOCAL

Technical Service Name: RSPCM_GW_SERVICE_SRV

Version:

External Service Name:

External Mapping ID:

BEP	ZRSPCM_GW_SERVICE_SRV	1	Monitor daily process chains	RSPCM_GW_SERVICE_SRV
RFP	S_FPM_SADI_GW_DEV_SCFN_RO_SRV	1	FPM-SADI-based GW-Service "NW 2013 Dev. Sc...	S_FPM_SADI_GW_DEV_SCFN_RO_SRV

ICF Node

- Activate
- Deactivate
- Delete
- Configure (SICF)

Session Time-out Soft State	Description
00:00:00	Standard Mode

System Aliases

SAP System Alias	Description
LOCAL	Local System Alias

Transaction SICF_INST

ICF: Report for Activating Special Service During Installation

Technical Name: SAP-ICONS to DYNPRO DBA COCKPIT

SAP-ICONS	BC-BSP
SAPJ2EE	BC-MID-ICF
WEB DYNPRO ABAP	BC-MID-ICF
WEB DYNPRO ABAP DESIGN TIME	BC-XI-IS-IEN
WEB DYNPRO ABAP TEST APPS	BC-XI-IS-IEN
WEB DYNPRO DBA COCKPIT	BC-WD-ABA
WEBDISPATCHER-LOADBALANCING	BC-WD-ABA
XI-RUNTIME	BC-WD-ABA
XI-RUNTIME-INSECURE	BC-DB-DB6-CCM

Transaction SICF → RSPCM*

Maintain service

Create Host/Service External Aliases System Monitor Inactive

Filter Details

Virtual Host: Service Path: ServiceName: RSPCM* Description: Lang.: English Ref.Service: Apply Reset Fine-Tune

Virtuelle Hosts / Services	Documentation	Referenz Service
default_host	VIRTUAL DEFAULT HOST	
sap	SAP NAMESPACE; SAP IS OBLIGED NOT T...	
bc	BASIS TREE (BASIS FUNCTIONS)	
bsp	BUSINESS SERVER PAGES (BSP) RUNTIME	
sap	NAMESPACE SAP	
rspcm_web	Process Chain Monitoring for mobile devices	
ui5_ui5	SAPUI5 Application Handler SAPUI5 Applic...	
sap	sap Namespace for SAPUI5 Applications	
rspcm_web	Process Chain Monitoring for mobile devices	
opu		
odata		
sap		
rspcm_gw		E_SRV

Context Menu: New Sub-Element, Display Service, Delete Service, Rename Service, Activate Service

Transaction RSPCM

Monitor List KRAMER of Periodical Process Chains

Yellow All Compress Includes

Sta...	Chain	Name	Time	Time Monitoring	Runtime	Runtime
	0TCT_C0_FULL_P01	OLAP Cache Statistics - Full	2015 01:00:37	<input type="checkbox"/>		
	0TCT_C2_INIT_P02	RDA status	11.03.2015 16:02:38	<input type="checkbox"/>		
	0TCT_C3_INIT_DELTA_P01	SAP Netweaver BI Accelerator Statistics	11.03.2015 01:00:37	<input type="checkbox"/>		

Select Include: #ALL, #SCHEDULED

Transaction RSPCM_WEB

Process Chains

Search ...

39 Chains | Failed: 10 | Delayed: 0 | Active: 0

S	Process Chain (Last Run)	Date	Runtime	Next Start
■	Repair Process Chain for DTP_00A0185ZPDRXBXSFHENGGS060 7RRZFPL20140926100219	Sep 26, 2014, 12:03:40 PM	Runtime OK (01:01:15)	No Delay
■	Repair Process Chain for DTP_00A0185ZPDRX8LZB3ZB7XWQA4 7RRYEPMS0520140716130931	Jul 16, 2014, 3:10:12 PM	Runtime OK (00:12:57)	No Delay
▲	Sales Order Extraction YSHEPM_SO	Jul 23, 2014, 9:15:27 AM	Runtime Too Long (00:12:53)	No Delay
▲	Database Volume Statistics 0TCT_C25_FULL_P01	Mar 5, 2015, 11:02:17 PM	Runtime OK (00:07:04)	No Delay (12.03.2015 23:01:20)

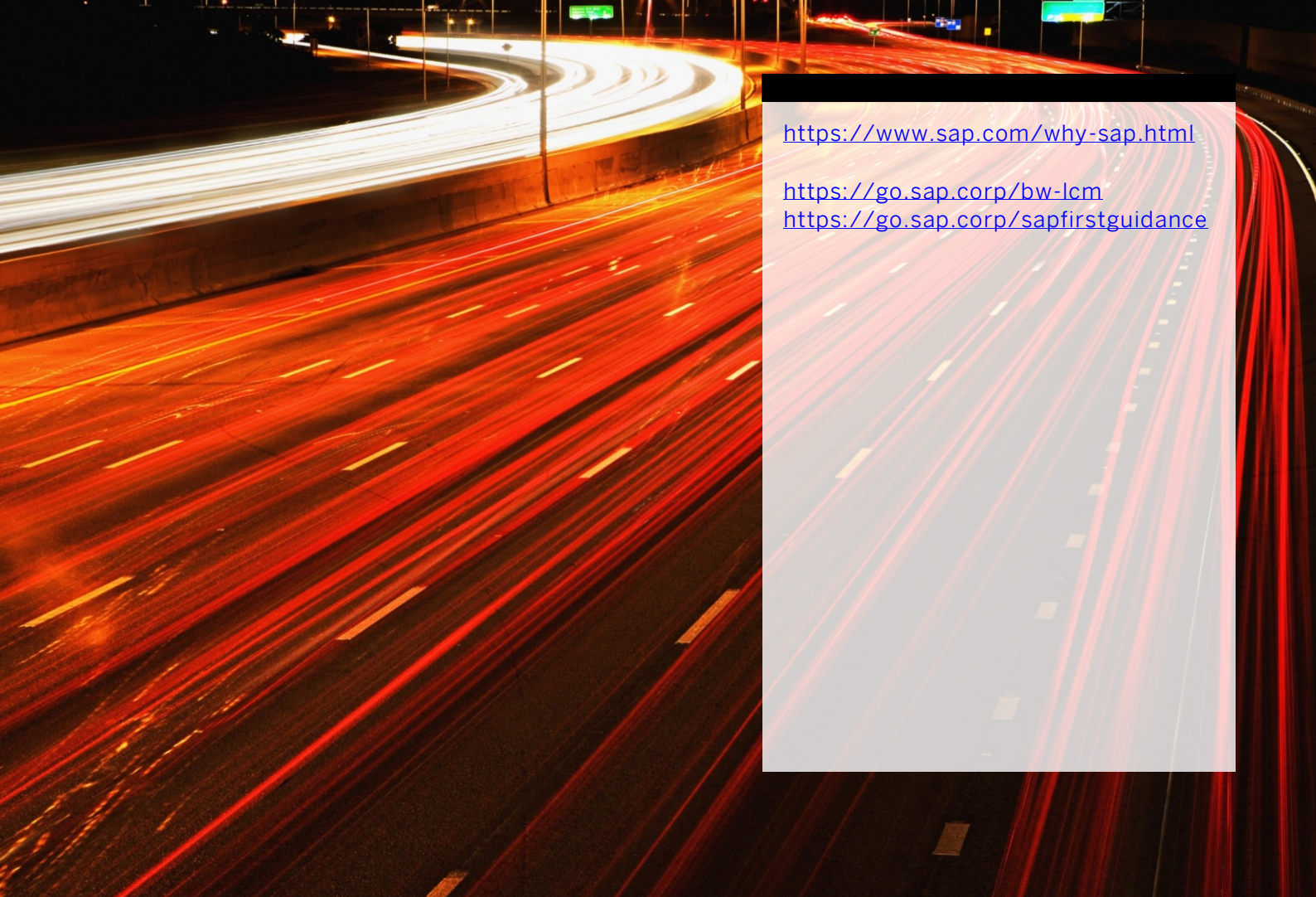
3.6 List of manual Interactions with the DMO procedure

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0% PREP_PRE_CHECKPROFREAD	22
0% PREP_PRE_CHECK/SPAMCHK_INI.....	22
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1% PREP_INPUT/EXTRACTKRN_PRE.....	24
1% PREP_INPUT/EXTRACTKRN_PRE - Kernel 7.42 DVD	24
1% PREP_INPUT/MIG2NDDDB_INI - choose DMO.....	25
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