

SAP First Guidance

SAP BW 7.3x/7.4

SAP Realtime Database Platform

SAP First Guidance - migrate BW on HANA 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.

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The Best-Run Businesses Run SAP™

SAP First Guidance

SAP BW 7.3x/7.4

SAP Realtime Database Platform

Version 1.62

May 2015



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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 Hostagent 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
1.62	Corrections/Additions - May 2015



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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)

[Note 1813548 - Database Migration Option \(DMO\) of SUM 1.0 up to SP13](#)

[Note 1799545 - Using DMO of SUM for SAP BW systems](#)

 [Database Migration Option \(DMO\) of SUM 1.0 SP13](#)

 [Updating SAP Systems Using Software Update Manager 1.0 SP13](#)

The official SUM/DMO Documentation for SP13, please consult this first!

If the URL isn't working, go to the original location of the official DMO/SUM guide:

<http://service.sap.com/sltoolset>

→ Documentation/Guides

System Maintenance					
			System Maintenance	Database Migration Option (DMO) of SUM 1.0 SP13 	E 29.05.2015
			System Maintenance	Docu: Support Package Manager/SAPAdd-On Installation Tool 	E 02.03.2015
			System Maintenance	Near-Zero Downtime Maintenance 1.0 SP13 Java	E 27.04.2015
			System Maintenance	Updating SAP Systems Using Software Update Manager 1.0 SP13	E 27.04.2015

If you not on the current SP level for your source system released in Q1/2014 the following Notes must be reviewed/considered:

[Note 940679 - DMO error in Phase MAIN_POSTP/RUN_CUBE_INDEX_ADJUST](#)

[Note 1656582 - Query terminations - InfoCubes, DSOs, master data in HANA DB](#)

[Note 1695112 - Activities in BW after migrating to the SAP HANA database](#)

[Note 1937899 - Number range inconsistency after system setup](#)

[Note 1983758 - BW client is incorrectly set in prepare phase of upgrade](#)

1.1 Prerequisites

Prepare the SAPHostAgent and SUM/DMO according to the following Notes:

[Note 1981278 - Central Note - Software Update Manager 1.0 SP12 \[Imt_008\]](#)

[Note 2039311 - Central Note - Software Update Manager 1.0 SP13 \[Imt_004\]](#)

[Note 2084104 - Central Note - Software Update Manager 1.0 SP14 \[Imt_005\]](#)

You also need to do the following:

- For Windows based Systems only:
[Note 1556113 - sapevents.dll in DIR_CT_RUN is locked](#) (rename sapevents.dll before upgrade)
- run saphostexec.exe -install from the extracted SAP Agent 7.20 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 an newer Version (at least ≥ 148):
`/usr/sap/hostctrl/exe/>./saphostexec -upgrade -archive /data/software/SAPHOSTAGENT176_178-20005735.SAR`
- run the command with root user /usr/sap/<SID>/SUM/abap/**SUMSTART confighostagent** to
create the file **sumstart.conf** in the following file (SAPHOSTAGENT ≥ 189):
`/usr/sap/hostctrl/exe/operations.d/sumstart.conf`



- Always check for the latest Version!

Patch 207 for 7.20 available since 27th of April 2015

Patch 03 for 7.21 available since 19th of May 2015

- 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`

- with DMO 1.0 SP11 onwards the URL and the SAPHostAgent Registration has changed:
(please Note that you have to run **SUMSTART confighostagent** again)

<http://<server>.<domain>.<ext>:1128/lms1/sumabap/<SID>/doc/gui>
<https://<server>.<domain>.<ext>:1129/lms1/sumabap/<SID>/doc/gui>

- 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 procpar)
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:

<http://<hostname>.<domain>.<ext>:1128/lms1/sumabap/<SID>/set/procpar>

- Additional DMO/SUM options can be maintained in the file

/usr/sap/<SID>/SUM/bin/SAPup_add.par

/ORA/update_spacestat = 0

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

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

2. DMO - Conceptional Overview

2.1.1 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 an EHP installation/upgrade which includes much more packages and intensive and time consuming additional phases, which are not 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.

2.1.1.1 DMO technical background

[DMO: technical background](#)

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

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

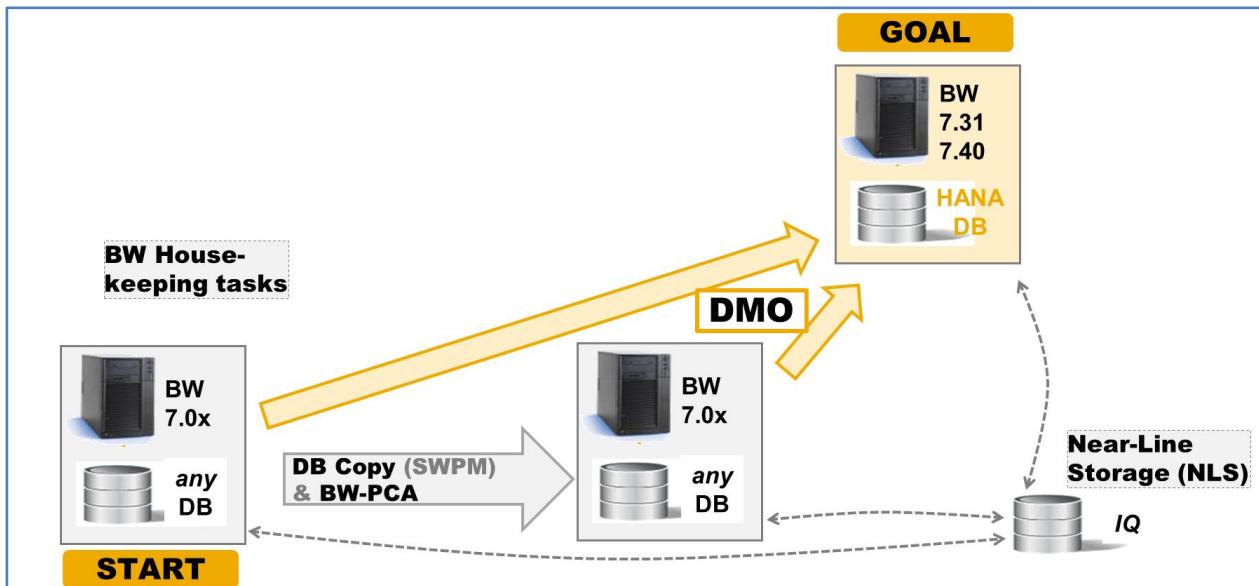
[SUM: introduction to shadow system](#)

SUM: SL Common UI available with SP12

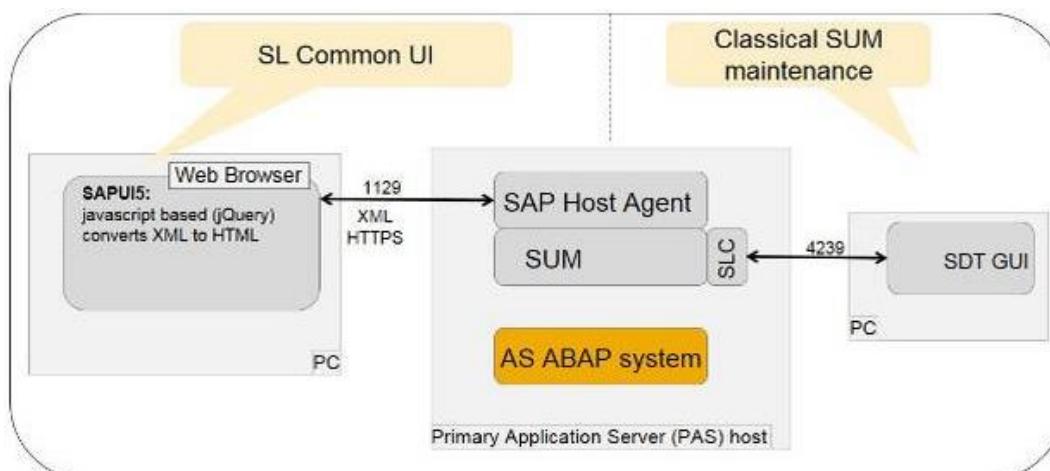
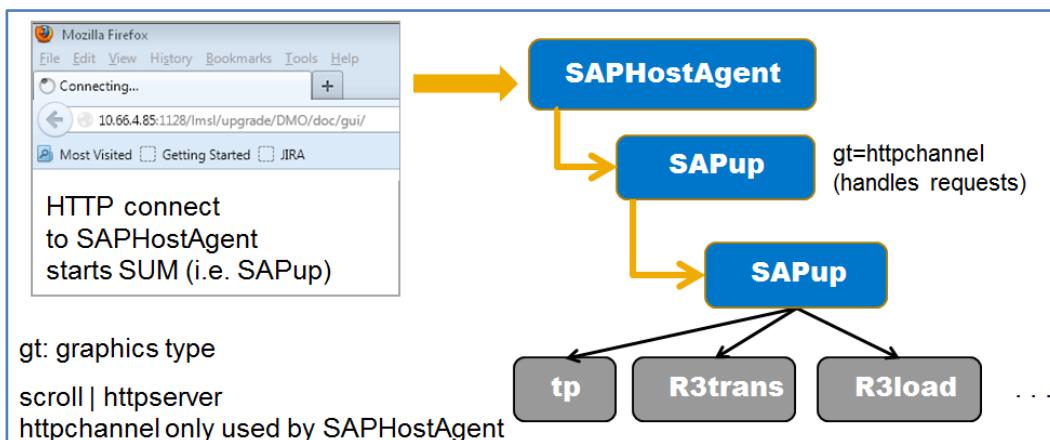
[SUM: New SL Common UI available for AS ABAP scenarios](#)

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

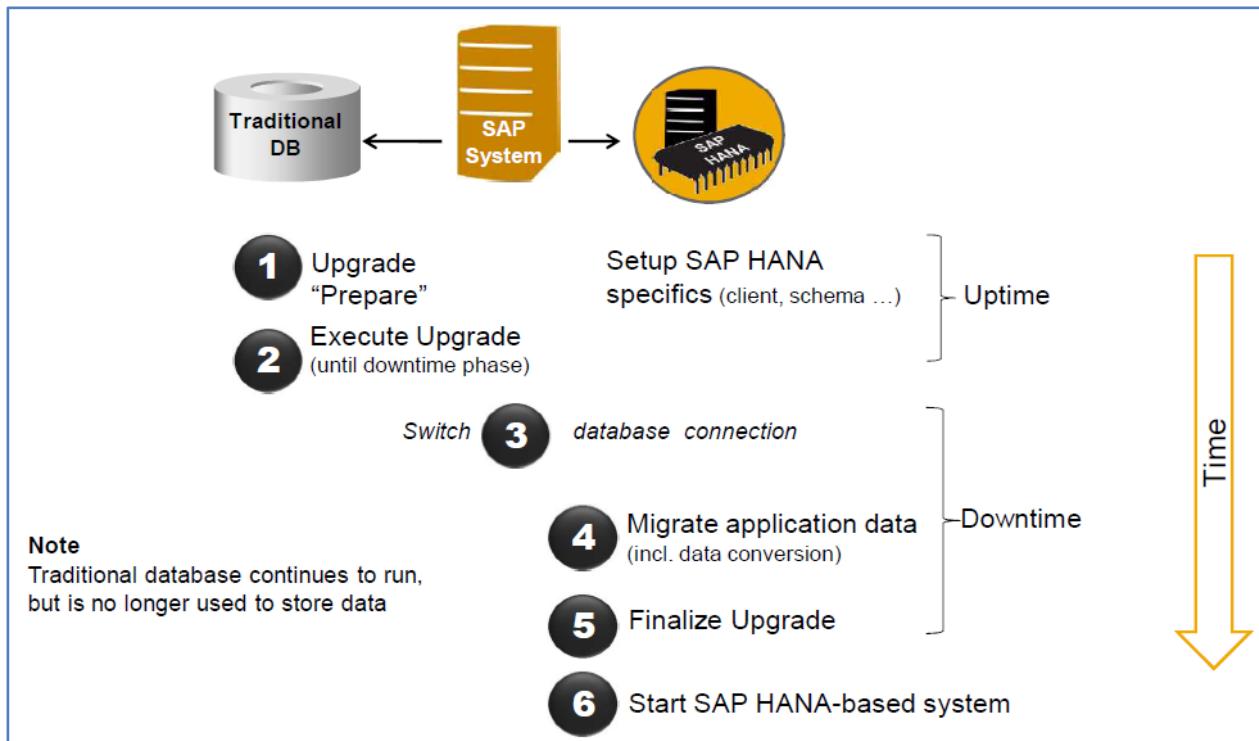
2.1.2 DMO in Interaction with BW-PCA



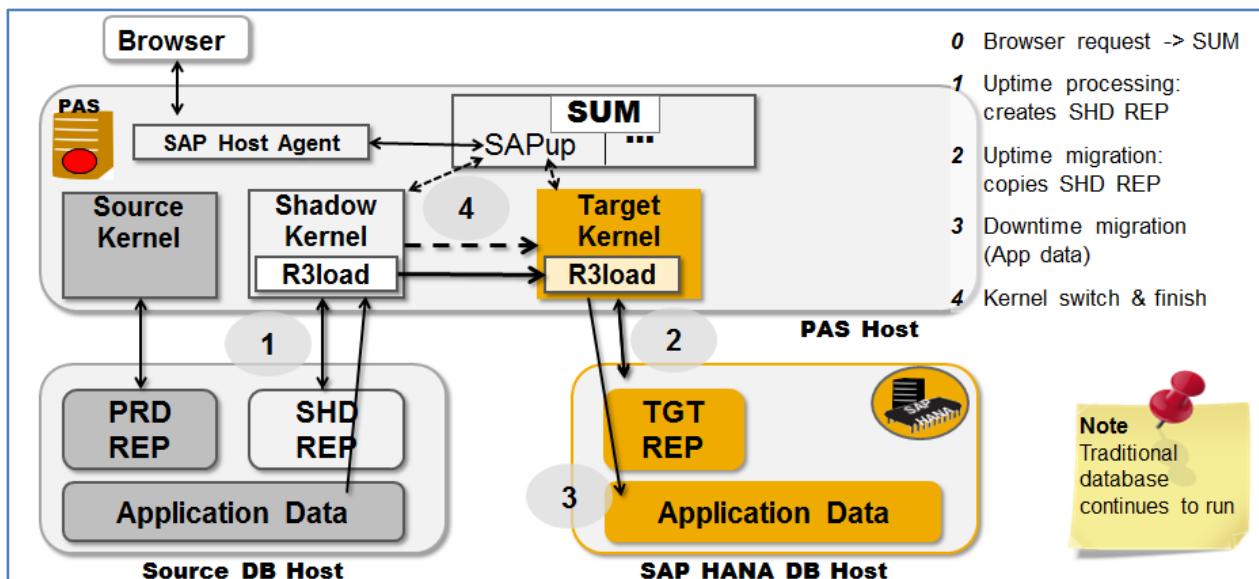
2.1.3 DMO in Interaction with the New SAPHostAgent



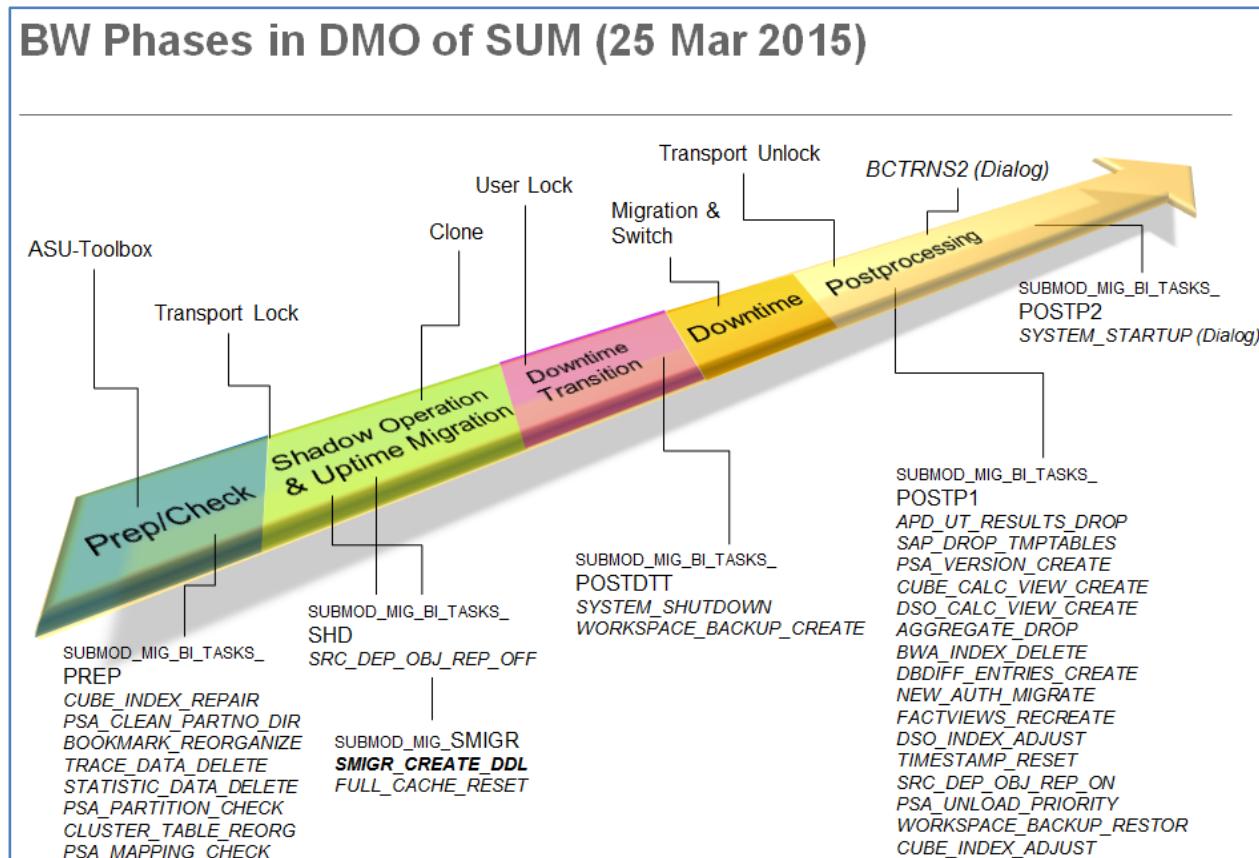
2.1.4 DMO Milestones during the Procedure



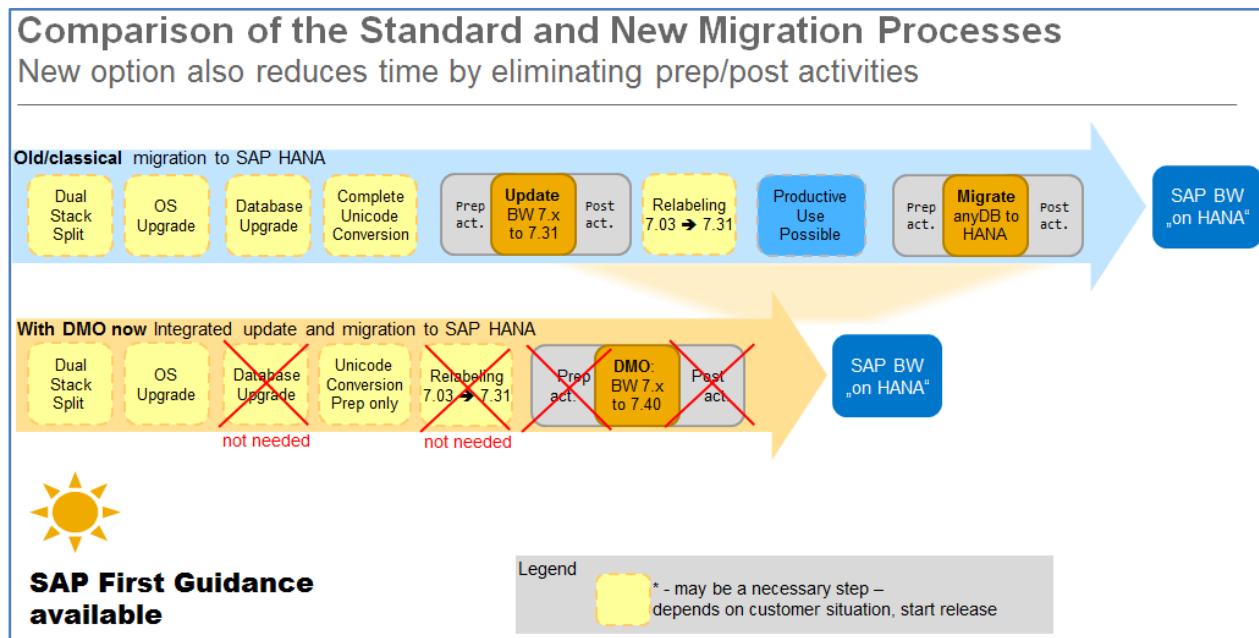
2.1.5 DMO Procedure: In-Place Upgrade and Migration



2.1.6 BW Phases in the Overall DMO Process



2.1.7 DMO - Comparison Standard and New Process



3. Step by Step – DMO Option

3.1 Application Specific Preparation Steps

3.1.1 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.

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

- SAP Netweaver BI
- SAP Netweaver04s B

Scenario: [] Version: [] Description: [] Task List: []

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

ASU Toolbox

Import New ASU Content Definition (F5)

ASU Scenario/Version

- BW Upgrade from 7.0
 - 20140314111111 BW specifics for ... I008817 26.03.2014
- SAP Netweaver BI
- SAP Netweaver04s B

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

Jump to Task List 0-ASU00032

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

3.1.2 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 1609441 - Add.info about the upgrade to SAP NetWeaver 7.3 EHP1](#)

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

[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 an higher)

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

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

[Note 1983758 - BW client is incorrectly set in prepare phase of 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 1994569 - Error during conversion of pooled table or cluster table](#) (if you start release is 7.40 SP07)

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

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

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

! 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](#)

3.1.3 BW Upgrade Task List with DMO Procedure

Together with the BW Housekeeping Task List which is described in detail in the Document - <http://scn.sap.com/docs/DOC-46433>, there are also additional Task Lists available to simplify preparation of the application-specific part. Implement the following SAP Note to enable usage of task list SAP_BW_BEFORE_UPGRADE via transaction STC01.

[Note 1734333 - BW Pre and Post Upgrade and Migration Tasks](#)

(contains manual report ZNOTE_1734333_PRE_70x/ZNOTE_1734333_PRE_73x, and NO automated steps applied with SNOTE)

Display Task List Run SAP_BW BEFORE_UPGRADE_20130531092236						
Task List		SAP_BW_BEFORE_UPGRADE				
Task List Run		SAP_BW_BEFORE_UPGRADE_20130531092236				
E	C...	L...	Phase	Comp.	Task Description	H P... Parameter Description
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Repair	BW	Repairs indices on InfoCube fact table(s) at the Data Dictionary level	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Repair	BW	Re-assign requests written into the incorrect PSA partition	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Repair	BW	Ensure request consistencies throughout the PSA landscape	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Repair	BW	Ensure partitioned tables are correctly indexed for the PSA	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Cleanup	BW	Deletes the entries that are no longer required in table RSDXWWW.	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Cleanup	BW	Reorganize and delete bookmark IDs and view IDs	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Cleanup	BW	This program deletes RSTT traces	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Cleanup	BW	This program deletes BW statistical data	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Repair	BW	Checks BW metadata with regard to the DDIC	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Cleanup	BW	Delete Aggregate data via deactivation	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Prepare	BW	Confirm we are at the User Lock stage of an Upgrade/Migration	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Prepare	BW	Confirm BEX-Request is released and removed from table RSADMINA	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Prepare	BW	Unset flags in order to skip replication and generation or source-dependent objects	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Prepare	BW	Stop RDA Daemons and Process Chains	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Prepare	BW	Deletes temporary/interim data used for Analysis Process Design	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Prepare	BW	Deletes temporary BW tables	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Prepare	BW	Deletes entries from the DDNT and DDNF tables	

You might now find overlapping tasks in the ASU toolbox and in the **SAP_BW BEFORE_UPGRADE** Task List. This is due to the enablement of this new Task List as part of the BW Housekeeping Tasks Lists, and allows you to use one Interface for all necessary upgrade pre and post steps.

Execute the Task List in advance, this will save time during the runtime of the DMO procedure.

The SAP BW Migration Cockpit for SAP HANA also has some additional BW Housekeeping steps in the Section "Housekeep" available.

[Note 1909597 - SAP NetWeaver BW Migration Cockpit for SAP HANA](#)

Task List	Description
SAP_BASIS_COPY_BDLS	Conversion of logical system names (BDLS)
SAP_BASIS_COPY_INITIAL_CONFIG	Initial Copy Use Case - Cleanup and Configuration Tasks
SAP_BASIS_COPY_PREPARE_TMS	Prepare TMS before System Copy
SAP_BASIS_COPY_REFRESH	Refresh Use Case - Export, Cleanup, Import and Configuration Tasks
SAP_BASIS_COPY_REFRESH_EXPORT	Refresh Use Case - Export Tasks
SAP_BASIS_COPY_REFRESH_IMPORT	Refresh Use Case - Cleanup and Import Tasks
SAP_BW_AFTER_MIGRATION	
SAP_BW_AFTER_UPGRADE	
SAP_BW_BASIS_COPY_INITIAL_CONFIG	SAP_BW_BASIS_COPY_INITIAL_CONFIG
SAP_BW_BASIS_COPY_REFRESH_CONFIG	SAP_BW_BASIS_COPY_REFRESH_CONFIG
SAP_BW_BEFORE_MIGRATION	
SAP_BW_BEFORE_UPGRADE	
SAP_BW_COPY_INITIAL_PREPARE	Preparation for Initial Copy of BW System
SAP_BW_HOUSEKEEPING	

Additional Notes to apply:

Note 1845061 - Background user has no authorization for scheduling

[Note 1860274 - SAP HANA adj. for BW Workspaces: Inactive CompositeProviders](#)

[Note 1861585 - RSUMOD20/func sumo_is_adjust: handling for cluster table](#)

Note 1940679 - DMO Abbruch in der Phase MAIN_POSTP/RUN_CUBE_INDEX_ADJUST

Note 2070458 - Conversion: Error when creating dependent views

Note 2064791 - "Migration" of BW Workspaces from BW with BWA to BW 7.4 on HANA

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

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

User without address (mass update)	
Test run (without updates)	<input type="checkbox"/>
Display log	
COMPANY	SAP SE

CIC(2)/000 Create background...	
User	BWREMOTE
New password	*****
Repeat password	*****
<input checked="" type="checkbox"/> <input type="checkbox"/>	

Create Destination in Client for Import Postprocessing

Client	Client 000 (SAP AG Konzern)
Destination	CICCLNT000
User	BWREMOTE
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				
FINB TR: RFC Destination for Transport Methods				
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 support packs 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](#)

3.1.1 Report UMG_ADD_PREP_STEP

This additional report was originally used with UC migrations (which also is valid for the DMO process). It performs additional checks and makes repairs that help to ensure consistency prior to the Upgrade.

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.

Additional Preparation Steps				
Type	Date	Time	Message	
RS_TEST_REPORT_GENERATE_JOB	19.06.2013	18:35:12	Start of report RSSPAM_PREPARE_UC.	
RS_TESTREPORT_DELETE_ONLINE	19.06.2013	18:35:12	Please read note 0889596 for additional information about the report.	
RUTDD07TLA	19.06.2013	18:35:15	Zurücksetzen der Objektlisten in Tabelle OCSCMPLOBJ war erfolgreich	
INDEX_SM_DELETE	19.06.2013	18:35:15	End of report RSSPAM_PREPARE_UC.	
G_CORR_BAJP_IN_SETHEADERT				
RS_TPARA_PARTEXT_CLEAN				
AGR_MASS_STAR_0_PROBLEM				
SAPRSEUG				
ECATT_CONV_XMLDATA2XSTR				
SEO_CLEAN_TYPESRC				
RS_DELETE_VARIANT_SPACE				
HARUT720				

3.2 Unicode preparations for 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](#)

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 on Code page and also almost of 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

[Note 1051576 - Conversion of Single Code Page Systems to Unicode](#)

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

[Note 2108396 - SUM DMO with Unicode Conversion: R3load requirements](#)

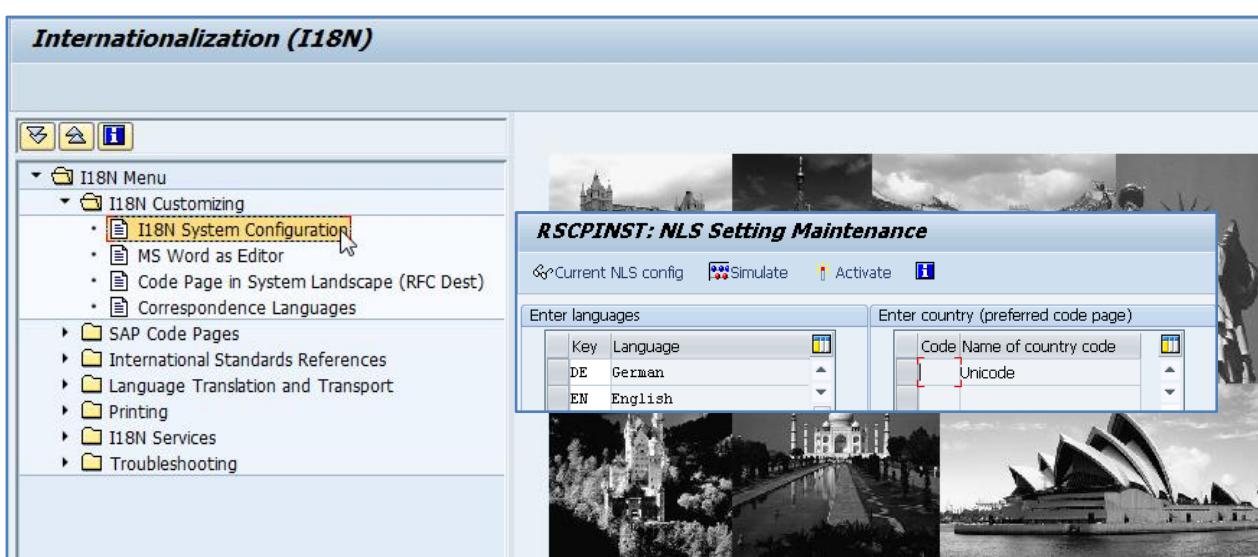
check for corrections of SPUMG and additional preparation steps

[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)

The screenshot shows two overlapping SAP GUI windows. The top window is titled 'WELCOME TO SPUMG' and contains information about preparation for Unicode conversion, links to download guides, and a note about executing first steps. The bottom window is titled 'First Steps' and lists several tasks: 'Download Exception List from note 996990', 'Update the SPUMG exception tables', 'Start additional preparation steps', and a checkbox for replacing code page 1100 with 1160. A 'Continue with transaction SPUMG' button is at the bottom.

SPUMG after running the pre checks

The screenshot shows the SAP 'Preconversion: MD...' screen. The 'Extras' menu is open, and the 'Create Unicode Nametabs' option under the 'Unicode Nametabs' submenu is highlighted with a cursor. Other options in the submenu include 'View Log of RADCUCNT' and 'Additional Preparation Steps'.

Additional troubleshooting Notes

[Note 837173 - RADCUCNT 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](#)

3.3 The DMO Procedure in Detail

3.3.1 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: <\\sapmnt\\<SID>\\SUM>
- Download directory: <\\sapmnt\\<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.

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 1.0 SP13 or higher file as follows:

```
/usr/sap/<SID>/SAPCAR -xvf SUM10SP13_0-20006676.SAR
```

Start the SUM/DMO UI with the following URL:

<http://<server>.<domain>.<ext>:1128/lmsl/sumabap/<SID>/doc/gui>

<http://iwdf4368.wdf.sap.corp:1128/lmsl/sumabap/CIC/doc/gui/>

Phase: 1 0.0% select STACK CONFIGURATION FILE

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

```
/usr/sap/<SID>/download/SMSDXML_<SID>_<date><time>.xxx.xml
/usr/sap/CIC/download/SMSDXML_CIC_20150303165847.773.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>

The screenshot shows a list of files in a web-based interface. There are two entries:

- UPGANAWDEUMH.XML**: Created 4 hours ago by Roland Kramer, 597 KB. It has no description and no tags. There are links for Favorite, Like (0), and Comment.
- UPGANAN4Siwdf4366.XML**: Modified 5 hours ago by Roland Kramer, 630 KB. It has no description and no tags. There are links for Favorite, Like (0), and Comment.

The screenshot shows the SAP DMO process progress bar. Phase 1, Extraction, is highlighted in blue and labeled '1'. The other phases are labeled 2 through 6. A progress bar indicates '0.1 % done (in 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**

The screenshot shows the SAP DMO process progress bar. Phase 1, Extraction, is highlighted in blue and labeled '1'. The other phases are labeled 2 through 6. A progress bar indicates '0.6 % done (in phase: PREP_PRE_CHECK/PROFREAD)'. Below the progress bar, there is a section titled 'Required System Passwords' with fields for 'DDIC PASSWORD' and 'OS PASSWORD'.

Phase: 2 0.6% PREP_PRE_CHECKPROFREAD

For a better overview you can always open the “CURRENT PHASELIST” on the right side of the UI.

The screenshot shows the SAP DMO process progress bar. Phase 1, Extraction, is highlighted in blue and labeled '1'. The other phases are labeled 2 through 6. A progress bar indicates '0.8 % done (in phase: PREP_PRE_CHECK/SCANDIR_EPS0)'.

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

0.9 % done (in phase: PREP_PRE_CHECK/SPAMCHK_INI)

SPAM Version Check

SPAM version 57 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 SAPKD73057 has already been imported successfully

Search for newer SPAM version in \\iwdf4368\sapmnt\trans\EPS\in
 Skip SPAM update

Phase: 3 0.9% PREP_PRE_CHECK/SPAMCHK_INI

In case you didn't applied the latest SAPM update, yet you will be asking to install the latest Version for your NetWeaver Release. Current Version is 0057 (03/2015).

[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_SHDVEWS using DMO option of SUM](#)

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

1.2 % done (in phase: PREP_INPUT/EXTRACTKRN_PRE)

Enter DVD Mount Points

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

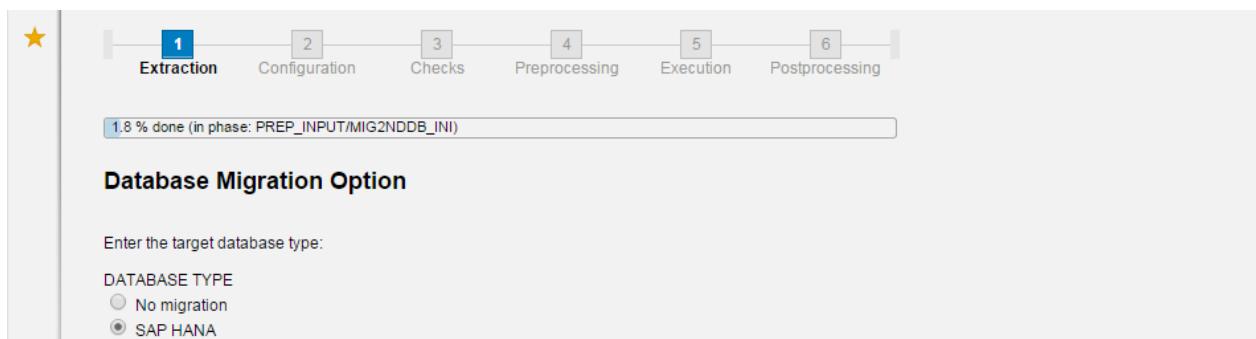
Add Line	Delete Line	Path	Media description	Error messa
		\usr\sap\CIC\download\ADDON740	Label: D51045590	
		\usr\sap\CIC\download\BI_CONT_7.57_incl_Extension	Label: D51047366	
		\usr\sap\CIC\download\EXPORT	Label: D51048524_2; NW740SR2:export	
		\usr\sap\CIC\download\LANGUAGE	Label: D51048524_3; NW740SR2:lang...	
		\usr\sap\CIC\download\SAP_JCE	Label: CD51042720	
		\usr\sap\CIC\download\SAP_HANA_CLIENT_REV.93		
		\usr\sap\CIC\download\KERNEL7.42		

Phase: 4 1.2% PREP_INPUT/EXTRACTKRN_PRE

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.

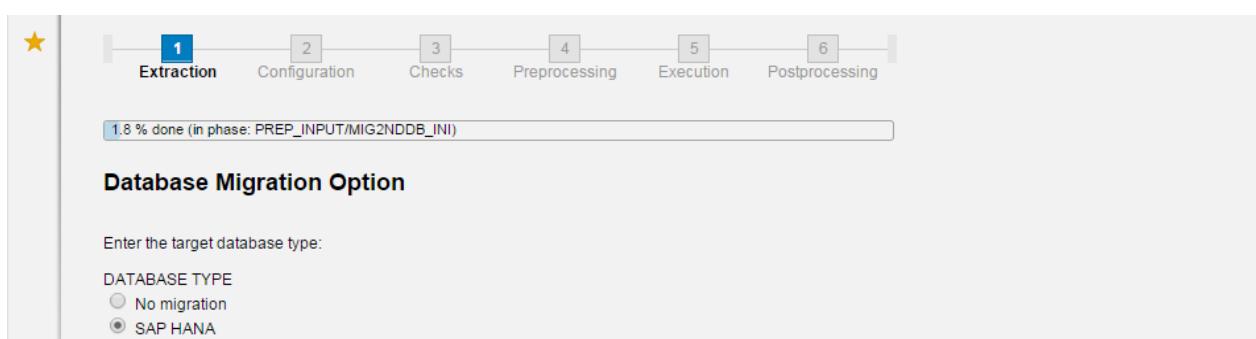
If you are running the DMO procedure between 7.40 SR1 (based on SP05) and 7.40 SR2 (based on SP08) you have to create for the RDBMS Oracle and DB6 an additional table space called PSAP<SID>740X for the exchange of the complete ABAP source. In this context you also have to consider the SAP Note

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



Phase: 5 1.6% 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 also, if your source kernel is higher than in the scan directory.



Check the log MIG2NDBB_INI.LOG to make sure your database is supported for the DMO procedure.

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

Migration key **1G5fdEM50D9Sq3egt6h]pGhK** for instance number **SAP-INTERN** lasts until 2015/12/31

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

The CHECKS.LOG can be checked by clicking the Star on the left side of the UI.

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

1.8 % done (in phase: PREP_INPUT/MIG2NDDB_INI)

Migration Parameters

Select tables for table comparison checks.

TABLES

- Do not compare table contents
- Operate on all tables
- Operate on selected tables only

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

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

Migration Key

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

Phase: 6 1.8% PREP_INPUT/MIG2NDDB_INI

6 Infos and 0 Errors

PREP_PRE_CHECK/SPAMCHK_INI info

Phase PREP_PRE_CHECK/SPAMCHK_INI

SPAM version 57 in your source system is sufficient for this procedure.
Nevertheless, we recommend that you import the latest SPAM update.

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.

Log Files, setting break points or additional settings can be accessed by clicking on UTILITIES.

Examine Log Files

Log File	Date	Size
LB1H900070.CIC	20150303205814	51804
LB1H900079.CIC	20150303205814	154458
QE1H900019.CIC	20150303205814	14362
SAPH731EBW.CIC	20150303205814	14187
ALOG740	20150303205811	1869
SLOG740	20150303205811	3868

Set and Delete Breakpoints

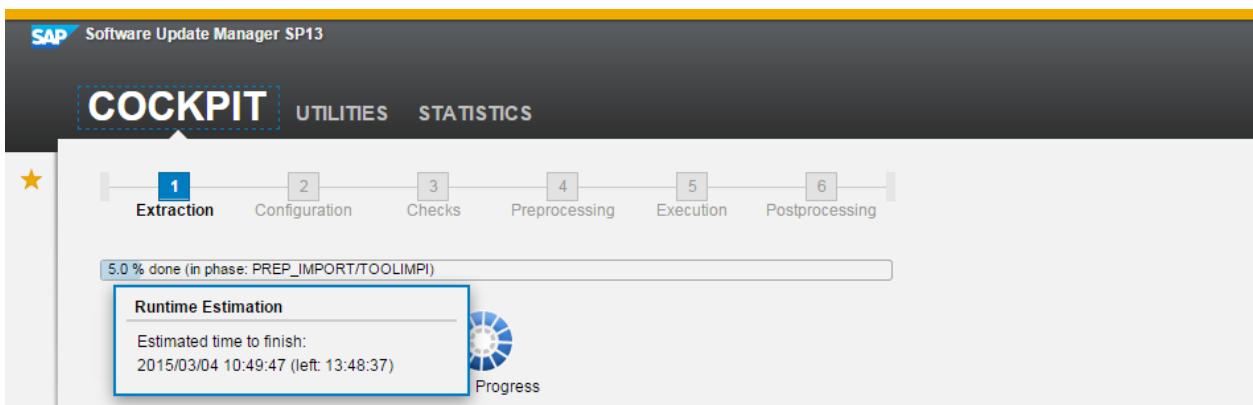
Nr.	Phase Name	Breakpoint
10	Sort Ascending	<input type="checkbox"/>
11	Sort Descending	<input type="checkbox"/>
12	Filter <input type="text"/> IL_UNI	<input type="checkbox"/>
13	PREP_PRE_CHECK/DBCHK_PRE	<input type="checkbox"/>
14	PREP_PRE_CHECK/CHECKSYSSTATUS	<input type="checkbox"/>

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

Upgrade with Software Update Manager on NW system release 740

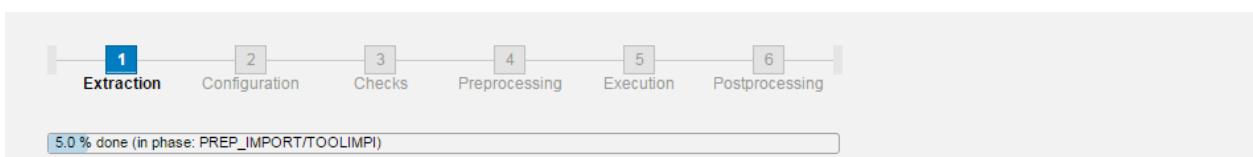
System	Start-Release: 730 SID: CIC DB-Type: MSSQL DB-Version: 11.00.3393.00	Destination-Release: 740 Installation number: OS-Type: Windows NT X86_64 OS-Version: 6.1 SAP-Host: iwdF4368 Batch host: iwdF4368 DB-Host: IWDF4368
Configuration	Strategy: Downtime-minimized Batch processes: 6/6 R3trans processes: 6/6 SGEN processes: 1 Imported Languages: J2EE present: 0	Archiving: Archiving_on Uptime processes: R3load processes: 6/6 CRR processes: 1

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



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.





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

Clicking on the active task opens the current Phase List Log.

6.0 % done (in phase: PREP_PARSESETUP/SPAU_FILL_LEVEL_DEC)

Open actions in transaction SPDD and SPAU

There are open actions in transaction SPDD and SPAU from former upgrades or support package implementations:

Number of obsolete and non-adjusted Notes: 10
Number of non-adjusted modified objects: 0

Summary of non-adjusted modified objects.

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

Non-adjusted objects with active version from SAP.

total number:	0
thereof SPDD-relevant:	0

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 background. 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.

Phase: 7 6.0% - PREP_PARSESETUP/SPAU_FILL_LEVEL_DEC

6.3 % done (in phase:)

Continue with roadmap step "CONFIGURE"

Current status: selected PREP_CONFIGURATION, PREP_SETUP, PREP_EXTENSION, PREP_INTEGRATION, PREP_INSTALL

Previous step finished successfully and the next one will be started.

Please be advised that additional mandatory manual steps may be listed in file "CHECKS.TXT" (plain text) resp. "CHECKS.LOG" (HTML).

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

Phase: 8 6.3% PREP_CONFIGURATION/INITSUBST - END (1)

3.3.2 Phase Configuration (2)

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

6.3 % done (in 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

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

6.3 % done (in 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 upgrade:

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, D:\usr\sap\CIC\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

Automated batch job distribution (system will decide where to run the jobs)
 iwdf4368_CIC_01 (10 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 upgrade.
- 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: 9 6.3% 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.

You may want to change the suggested value for the used SGEN processes.

As with a BW upgrade the "downtime" is not really relevant, 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. So the seen values might not fit to your environment (increase them accordantly).

Furthermore it is technical possible, to reallocate the PAS/CI from the Application Server prior to the start of the DMO procedure. A manual reallocation of the Instance can be done via the SWPM, while the original Application Server can still be accessed by Dialog instance(s). The SUM/DMO run's against the PAS/CI Server. As potentially the HANA server has the most performant hardware resource, you can dramatically increase the amount of R3load and Batch processes.

7.2 % done (in 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: 10 7.2% PREP_CONFIGURATION/SUBMOD_MIG_INSTCLIENT/HDB_INSTCLIENT

SAP HANA 1.0 database client

\\<server>.<domain>.<ext>\sapmnt\<SID>\download\SAP_HANA_CLIENT
\\<server>.<domain>.<ext>\sapmnt\<SID>\download\SAP_HANA_CLIENT_REV.93

If the HANA client is already installed (at the correct place) or already available and accessible in the Download folder, you will not see this input window anymore.

[Note 1825053 - Installation of current SAP HANA client with SWPM](#)

Unpack the archive, for example to /tmp

```
SAPCAR -R /tmp -xvf IMDB_CLIENT100_72-10009664.SAR
```

Generate the file LABEL.ASC in the directory SAP_HANA_CLIENT.

```
echo HDB_CLIENT:10xxx:RDBMS:*:*:* > /tmp/SAP_HANA_CLIENT/LABEL.ASC
```

The DMO procedure looks for the correct LABEL.ASC file in the Directory. In addition see Note 1943235.

Required Migration Specific Passwords

Enter parameters for the Hana database on host "" instance number "".

You are running a migration scenario. To be able to install the Hana Client Software, the cicadm user is required. Enter the password for the user **cicadm**.

cicadm PASSWORD:

Phase: 11 7.2% PREP_CONFIGURATION/SUBMOD_MIG_INSTCLIENT/HDB_INSTCLIENT

7.2 % done (in phase: PREP_CONFIGURATION/SUBMOD_MIG_GETKRNLS/SCANDIR_MIGKERNELS)

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:

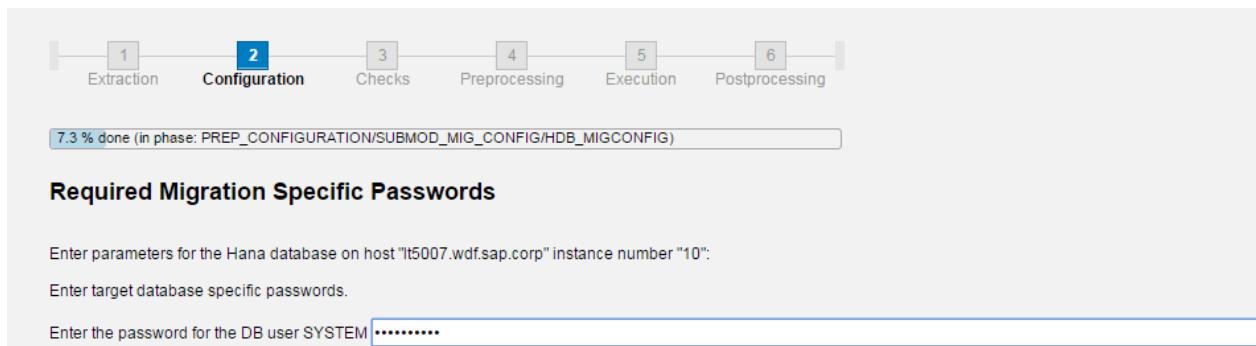
Phase: 12 7.3% PREP_CONFIGURATION/SUBMOD_MIG_CONFIG/HDB_PREPARE

SAP HANA 1.0 License

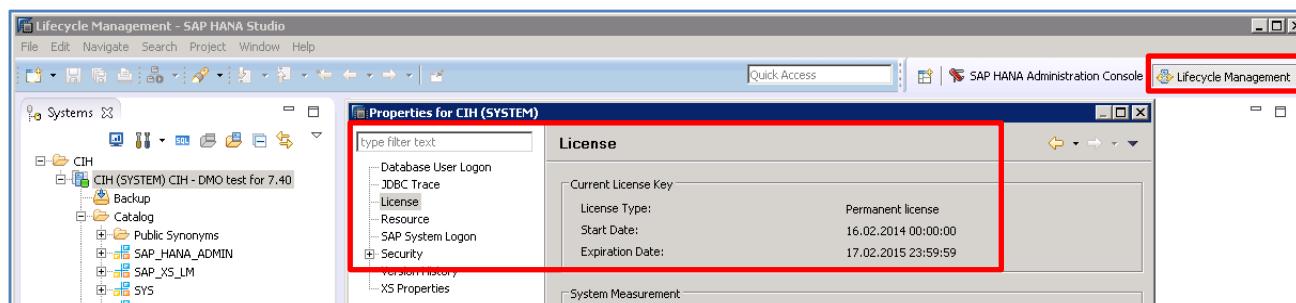
\\.<domain>.<ext>\sapmnt\<SID>\download\<SID>_multiple.txt
\wdf.sap.corp\sapmnt\CIC\download\CIC_Standard_05.03.2016.txt

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

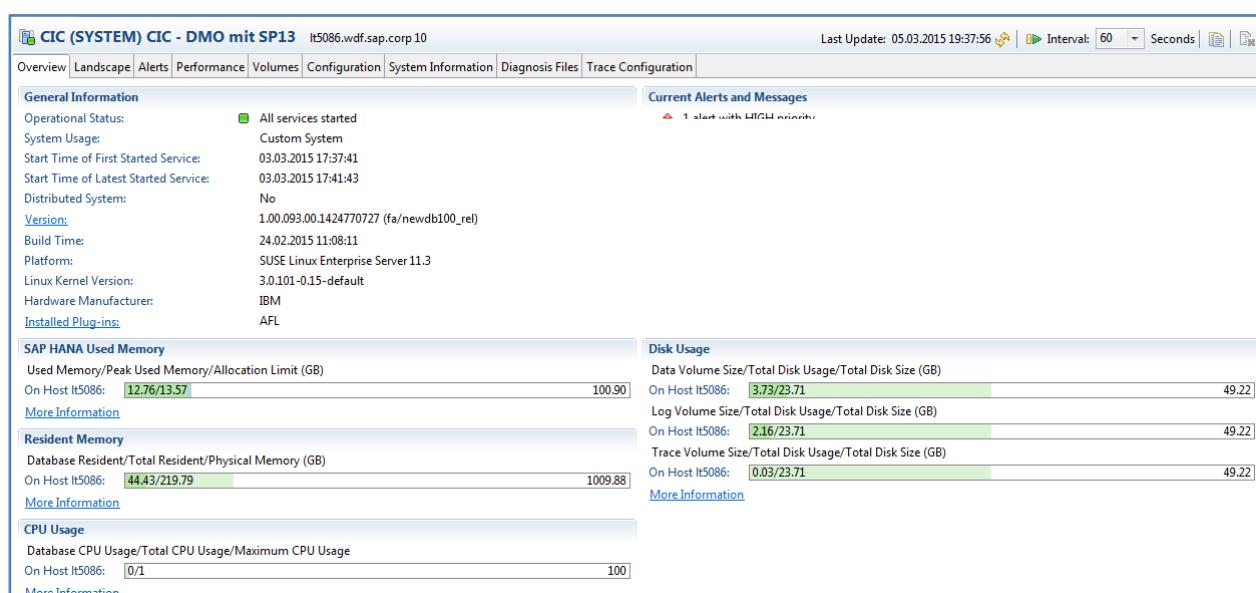
[Note 1134948 - ABAP Migration Key for special installation numbers](#)



Phase: 13 7.3% PREP_CONFIGURATION/SUBMOD_MIG_CONFIG/HDB_MIGCONFIG



Phase: 14 SAP HANA Studio - Lifecycle Management



Phase: 15 SAP HANA Studio - HDB Connection

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

7.4 % done (in phase: PREP_CONFIGURATION/SUBMOD_MIG_CONFIG/HDB_PREPARE)

Required Migration Specific Passwords

Enter parameters for the Hana database on host "lt5007.wdf.sap.corp" instance number "10":

Enter SAP HANA specific passwords.

Enter the password for the DB user DBACOCKPIT (this user will be created):
.....
Input Validation - Enter the password for the DB user DBACOCKPIT (this user will be created):
.....

Phase: 16 7.4% PREP_CONFIGURATION/SUBMOD_MG_CONFIG/HDB_PREPARE - DBACOCKPIT

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

7.4 % done (in phase: PREP_CONFIGURATION/SUBMOD_MIG_CONFIG/HDB_PREPARE)

Required Migration Specific Passwords

Enter parameters for the Hana database on host "lt5007.wdf.sap.corp" instance number "10":

Enter passwords for the target database.

Enter the password for the target database user SAPSID (this user will be created):
.....
Input Validation - Enter the password for the target database user SAPSID (this user will be created):
.....

Phase: 17 7.4% PREP_CONFIGURATION/SUBMOD_MG_CONFIG/HDB_PREPARE - SAPSID

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

8.1 % done (in phase: PREP_CONFIGURATION/RUN_RSTODIRM_CLEAN)

4 Infos and 1 Errors

PREP_CONFIGURATION/SUBMOD_MIG_CHKCONNECT/HDB_MIGCHECKS_TIMEDIFF error

Phase PREP_CONFIGURATION/SUBMOD_MIG_CHKCONNECT/HDB_MIGCHECKS_TIMEDIFF

ERROR: A large time difference between local host and SAP HANA database host lt5007.wdf.sap.corp was detected, please check D:\usr\sap\IC1\SUM\abap\log\CHECKTIMEDIFF.LOG for details!

Errors during the Phases will be shown with a red flag in the left upper corner of the UI. Proceed 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.

[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

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

8.3 % done (in 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"/>	English (standard lan...)	EN	\usr\sap\CIC\downlo...	Update
<input checked="" type="checkbox"/>	German (standard la...)	DE	\usr\sap\CIC\downlo...	Update

Back Next Reset

Phase: 18 8.3% 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.

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

8.3 % done (in phase: PREP_CONFIGURATION/LANG_SELECT)

Language Update/Installation Summary

Following languages will be upgraded.

Name	Iso Name	Location
English (standard language)	EN	\usr\sap\CIC\download\LANGUAGE\ID...
German (standard language)	DE	\usr\sap\CIC\download\LANGUAGE\ID...

Back Next Reset

Phase: 19 8.3% PREP_CONFIGURATION/LANG_SELECT

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

8.4 % done (in phase: PREP_SETUP/TOOLIMP_INTERNALTOOLS)

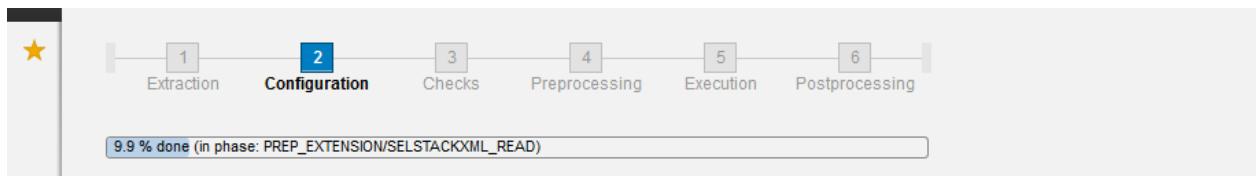
1 Extraction 2 Configuration 3 Checks 4 Preprocessing 5 Execution 6 Postprocessing

8.7 % done (in phase: PREP_SETUP/RUN_RSPTBFL_PREP)

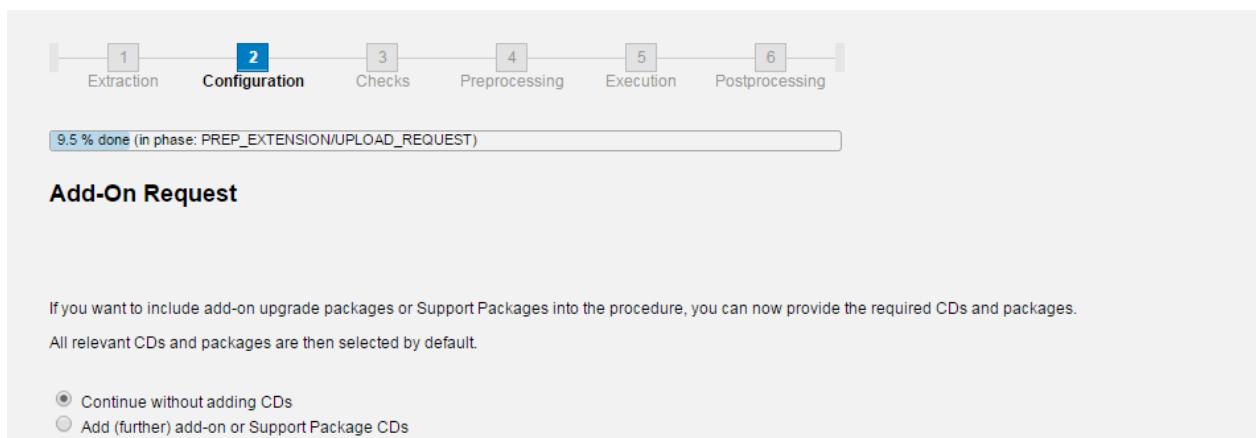
Runtime Estimation

Estimated time to finish:
14:50:16 (left: 2:27:56)

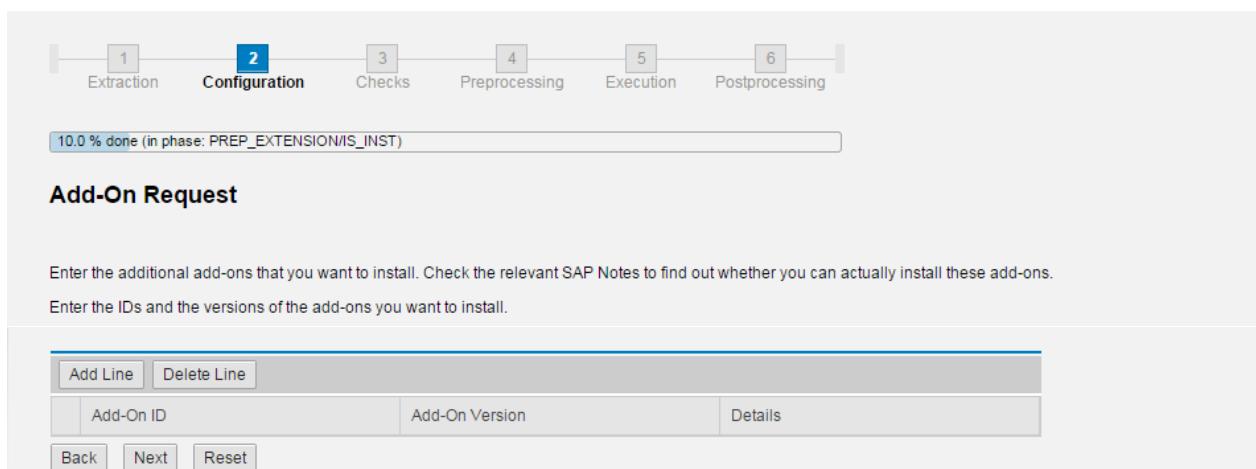
By hoover the Mouse Pointer over the Phase Bar, automatically you will see the overall rumtime estimate of the DMO procedure (file **SAPupStat.log** constantly updated).



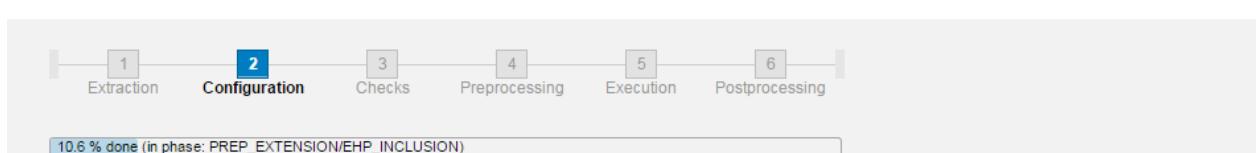
If you run the DMO process on a system based on copy, make sure you applied a valid license; otherwise an error will occur in this phase.



Phase: 20 9.7 % PREP_EXTENSION/UPLOAD_REQUEST



Phase: 21 10.0 % PREP_EXTENSION/IS_INST



Phase: 22 10.6% PREP_EXTENSION/EHP_INCLUSION

Depending on the amount of available files in the download directory this can be a time consuming phase.
 On Win64 based system make sure, that the directory
`\\.<domain>.<ext>\sapmnt\<SID>\SUM` 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 \leq SP08, only the Delta to the latest Support Stack has to be calculated.

Add-On Selection

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

You cannot continue unless you have made a decision about the target release for all add-ons.

Selected	Add-On ID	Source Release	Target Release	Status	Note
<input type="checkbox"/>	ST-PI	2008_1_710	2008_1_710	KEEP VERSION	539977
<input checked="" type="checkbox"/>	PCAI_ENT	100	100	KEEP VERSION	632429
<input checked="" type="checkbox"/>	ST-A/API	01M_BCO720	?	UNDECIDED	69455

Phase: 23 11.1% PREP_EXTENSIONS/IS_SELECT

Addon Keyword

Enter the IS keyword of [SAP Note 1577503](#). (IS "DMIS", version "2011_1_731")

This is SAPUp version lmt_004, build SAPUp release lmt_004 version 58.000

IS keyword

Addon Keyword

Enter the IS keyword of [SAP Note 1577504](#). (IS "DMIS_CNT", version "2011_1_731")

This is SAPUp version lmt_004, build SAPUp release lmt_004 version 58.000

IS keyword

Phase: 24 11.1% PREP_EXTENSION/ADDONKEY_CHECK

done (in phase: PREP_EXTENSION/ADDONKEY_CHK)

Addon Keyword

Enter the IS keyword of [SAP Note 1678780](#). (IS "BI_CONT", version "747")
This is SAPup version lmt_004, build SAPup release lmt_004 version 53.000

IS keyword

[Back](#) [Next](#)

Phase: 25 11.1% PREP_EXTENSION/ADDONKEY_CHECK

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

Password (SUM/DMO): 6855059

[Note 1807738 - Business function / set DATA_PROVIDER_DUN_BRADSTREET](#)

This Note becomes obsolete, as SP04 for BC 7.47 or higher is included in the DMO process.

done (in 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 11.2% PREP_EXTENSIONS/IS_SELECT - 2

Please Note that the MOPZ process is not reflecting the existence of the ST-A/PI Add-On when the stack.xml is created. Copy the necessary file to the download directory.

D:\usr\sap\<SID>\download\KITAB9J.SAR (Installation instead of Exchange-Upgrade)

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

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: 27 11.2% PREP_EXTENSIONS/IS_SELECT - 3

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.

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

11.4 % done (in phase: PREP_EXTENSION/BIND_PATCH)

Select Support Packages You Want to Include

Select the Support Packages that you want to include:
You need this if the current package level can only be retained with equivalent Support Packages of the target release.

Component	Release	Export L...	Minimum...	Equivale...	Maximu...	Calculat...	CurrentL...	Status
SAP_BA...	740	8	10	10	10		10	
SAP_UI	740	9	11	11			11	
SAP_ABA	740	8	10	10	10		10	
SAP_GW...	740	8	10	10			10	
PI_BASIS	740	8	10	10			10	
ST-PI	740	0	1	1			1	
BI_CONT	757		4	4			4	
SAP_BW	740	8	10	10	10		10	
WEBCUIF	747		7	7			7	
SAP_BS...	747		7	7			7	
MDG_FND	747		7	7			7	
FINBASIS	747		7	7			7	
FSCM_C...	617		7	7			7	
DMIS	2011_1...		7	7			7	
SEM-BW	747		7	7			7	
POASBC	100_731		6	6			6	
CPMBPC	810		5	5			5	
DMIS_CNT	2011_1...		7	7			7	
HANABPC	810		5	5			5	

Phase: 28 11.4% PREP_EXTENSIONS/BIND_PATCH

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.

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

11.4 % done (in phase: PREP_EXTENSION/BIND_PATCH)

Include SPAM Update

The program has found the following SPAM Update package:

Request	SAPKD74057	
Version	0057	
Text		SPAM/SAINT Update - Version 7.40/0057

Choose how you want to proceed:

- Include SPAM update SAPKD74057
- Search for newer SPAM update in \\iwdf4368\apmnttrans\EPStin
- Do not include a SPAM update

Phase: 29 11.4% PREP_EXTENSIONS/BIND_PATCH - SPAM update

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

11.4 % done (in 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 Line	Delete Line
Request	Status

Phase: 30 11.4% PREP_EXTENSIONS/BIND_PATCH - include change request

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

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

12.0 % done (in 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

[Back](#) [Next](#) [Reset](#)

Phase: 31 11.5% PREP_EXTENSIONS/ADDON_LANGINC - DMIS Add-On decision



Phase: 32 12.2% 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.

The screenshot shows the same six-step progress bar as above, with segment 2 ('Configuration') highlighted in blue and containing the number '2'. Below the bar, a message says 'done (in phase: PREP_INTEGRATION/ADJUSTPRP)'. The main area is titled 'Modification Adjustment'. It contains a note about maintaining modifications and a redacted transport request file path. There are two input fields for 'SPDD Transport Request' and 'SPAU Transport Request'.

Phase: 33 13.2% 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.

The progress bar shows '14.0 % done (in phase: PREP_INSTALL/INITSHD)'. The main area is titled 'Shadow Instance Numbers'. It contains a note about requiring an unused instance number for the shadow system instance. There is an input field for 'ABAP SHADOW INSTANCE' with the value '03'.

Phase: 34 14.0% PREP_INSTALL/INITSHD - advanced option

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

14.1 % done (in 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 <save>.

Do you want to use the profiles from <save> subdirectory?

Yes
 No

Phase: 35 14.1% PREP_INSTALL/SHD INST_CPY

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

15.1 % done (in phase:)

Continue with roadmap step "CHECK"

Current status: selected PREP_SPACECALC, PREP_GENCHECKS, PREP_SPACECHECKS, PREP_ACTCONVCHECKS, PREP_PREPROC

Previous step finished successfully and the next one will be started.

Please be advised that additional mandatory manual steps may be listed in file "CHECKS.TXT" (plain text) resp. "CHECKS.LOG" (HTML).

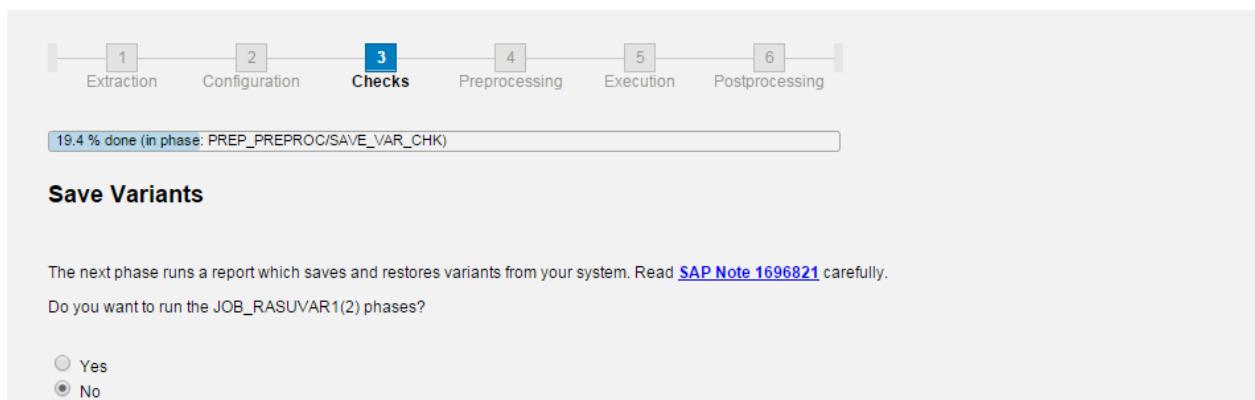
In order to complete the procedure, please process any manual tasks listed there.

Phase: 36 15.1% PREP_INSTALL/JOB_FILL_TPF_CHK_PHASES - END (2)

3.3.3 Phase Checks (3)

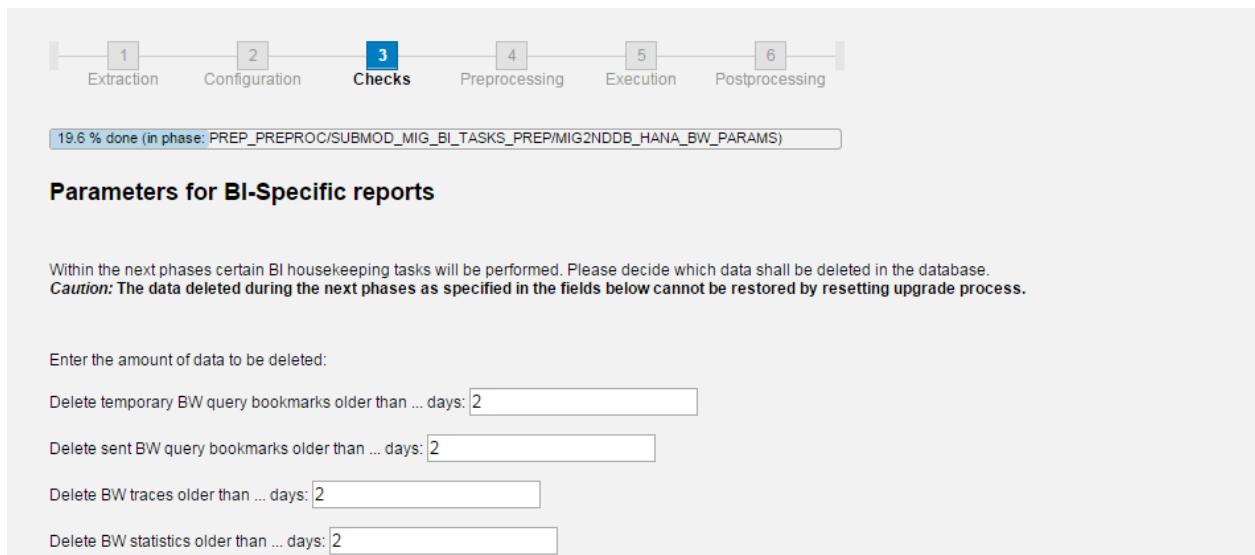


Phase: 37 18.5% PREP_GENCHECKS/JOB_TS_UPG41 - report RSUGRCHECK

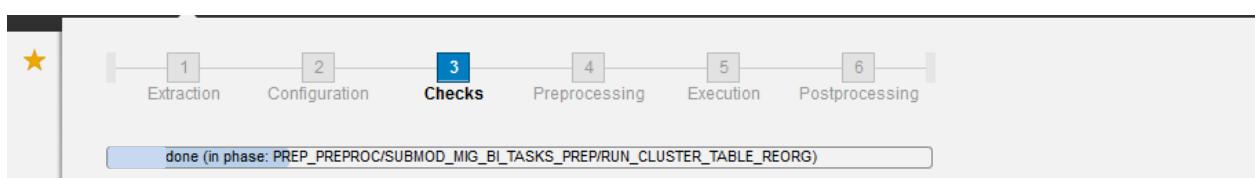
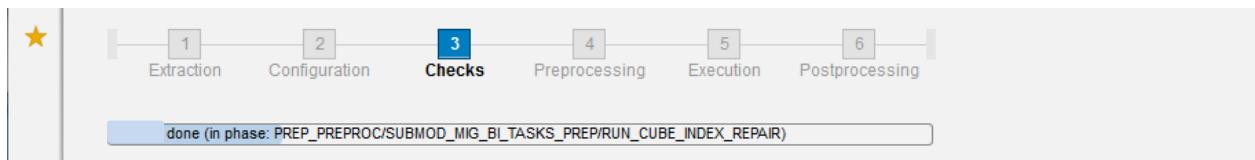


Phase: 38 19.4% PREP_PREPROC/SAVE_VAR_CHK - save variants

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**



Phase: 39 19.6% PREP_PREPROC/SUBMOD_MIG_BI_TASKS_PREP/MIG2NDB_HANA_BW_PARAMS



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.

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: 40 Edit table RSADMINA - select BEX REQUEST to delete

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

done (in 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: 41 20.0% 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
BW Upgrade with DMO • 20140314111111	BW specifics for Upgrade with DMO from BW 7.0x or 7.... I008817	
SAP Netweaver BI		
SAP Netweaver04s BI		

Selected ASU Content Version
 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				
RSMDATASTATE inconsistencies after upgrade from 7.0x to 7.3x		Optional		1633303				
Fully Automated Follow-Up Steps								

Phase: 42 Transaction /ASU/UPGRADE

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

20.1 % done (in phase:)

Continue with roadmap step "PRE-EXECUTE"

Current status: selected MAIN_INIT, MAIN_DTTRANSEUI, MAIN_SHDCRE, MAIN_SHDINST, MAIN_DTTRANSSH, MAIN_SHADOW, MAIN_SHDPREPUT, MAIN_SHDR

Previous step finished successfully and the next one will be started.

Please be advised that additional mandatory manual steps may be listed in file "CHECKS.TXT" (plain text) resp. "CHECKS.LOG" (HTML).

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

Phase: 43 20.1% MAIN_INIT/BEGIN - END (3)

3.3.4 Phase Preprocessing (4)

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

Extraction Configuration Checks **Preprocessing** Execution Postprocessing

21.1 % done (in phase: MAIN_INIT/REPACHK1)

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
CICK900004	I008817	20140206	-	-	-
CICK900004	I008817	20140206	CICK900005	I008817	20150303
CICK900008	I008817	20140206	-	-	-
CICK900008	I008817	20140206	CICK900009	I008817	20150303

You can ignore this error now. The program checks for open repairs again later on.

Ignore and check later
 Check again for open transports

Phase: 44 21.1% MAIN_INIT/REPACHK1 - check open transports

Extraction Configuration Checks **Preprocessing** Execution Postprocessing

22.3 % done (in 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
 Exit program

Phase: 45 22.3% 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.

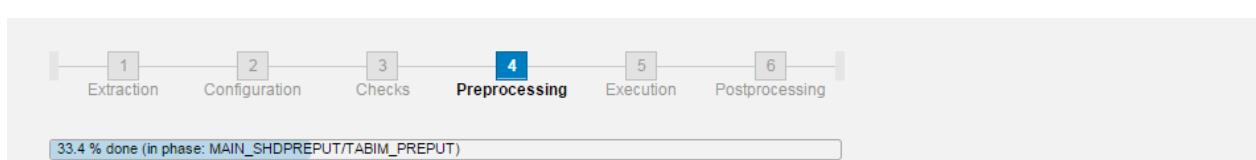
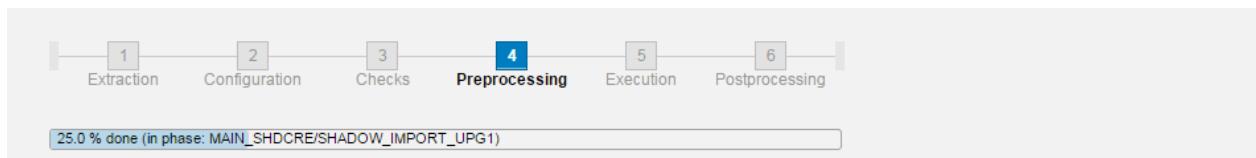
Extraction Configuration Checks **Preprocessing** Execution Postprocessing

24.6 % done (in phase: MAIN_SHDCRE/EU_IMPORT1)

Extraction Configuration Checks **Preprocessing** **Execution** Postprocessing

24.8 % done (in phase: MAIN_SHDCRE/EU_IMPORT2)

Phase: 46 24.8% MAIN_SHDCRE/EU_IMPORT2 - R3trans depending



This is an optional message in case you specified a custom transport in phase PREP_INTERACTION/ADJUSTTPRP

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: 48 35.0% MAIN_SHDRUN/SUBMOD_DIFFEXP/ADJUSTCHK_UPG



Phase: 49 36.1% MAIN_SHDRUN/DDIC_UPG - R3trans depending



Phase: 50 37.0% MAIN_SHDRUN/ACT_UPG - Batch Process depending (SHD)

Phase: 51 40.9% MAIN_SHDRUN/ACT_UPG - use DDIC/000/SHD

Repeat Phase

Checks after phase MAIN_SHDRUN/ACT_UPG were negative!

Last error code set: Detected 3 errors summarized in 'ACTUPG.ELG'
 Calling 'D:\usr\sap\CIC\SUM\abap\exe\tp' failed with return code 8, check D:\usr\sap\CIC\SUM\at shadow connect

ERROR:
Detected the following errors:

```
# D:\usr\sap\CIC\SUM\abap\log\SAPA731ESI.CIC:
1EED0519X "DDL Source" "SACM_CDS_SHOW_SO" could not be activated
1EED0519 "DDL Source" "SEPM_SDDL_LEAVE_REQUESTS" could not be activated
```

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

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
 Exit program

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

Phase: 52 37.0% MAIN_SHDRUN/ACT_UPG - adjustments made, continue with procedure

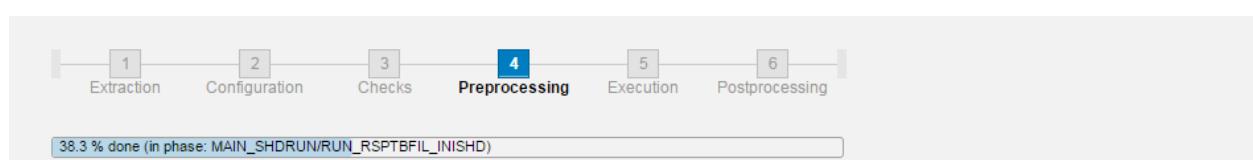
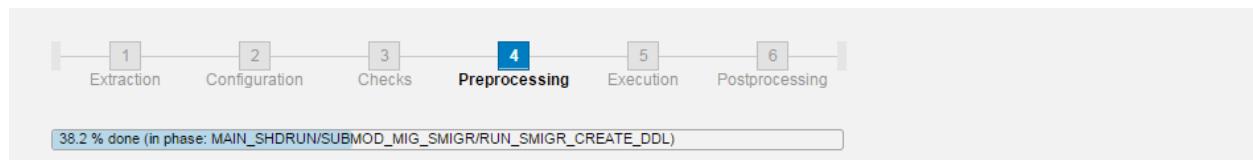
Phase: 53 37.1% MAIN_SHDRUN/ACT_UPG - accept non-severe errors and repeat phase

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

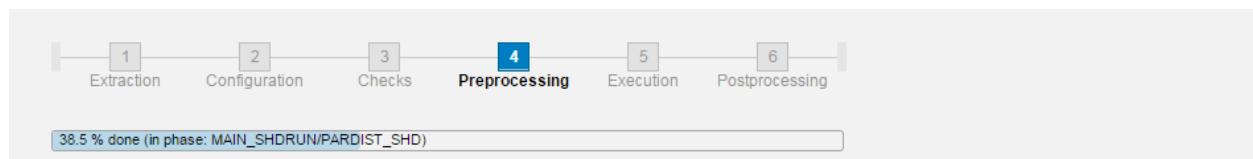
ACTUP.ELG

Repair of InfoObjects was not performed.

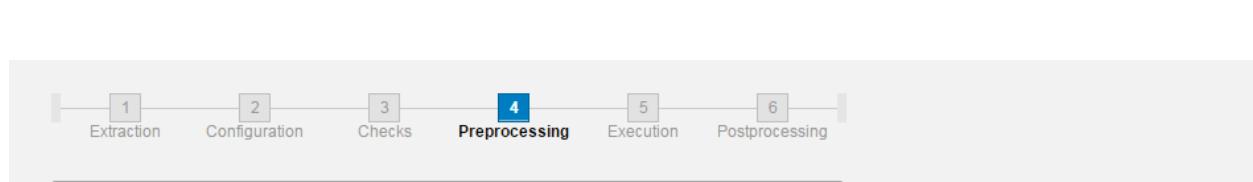
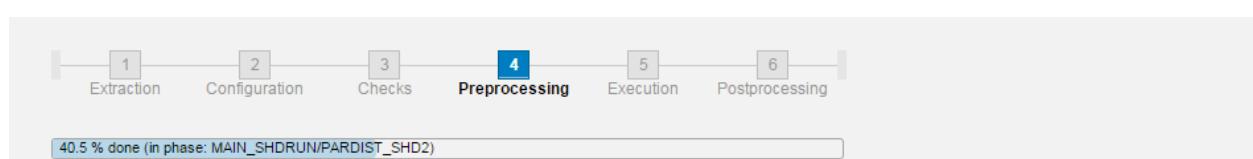
(DDIC is not allowed to activate customer objects, create code or activate BEx standard transports)
In the Preparation phase the repair of InfoObjects must run, to avoid additional errors here.



Phase: 55 38.5% MAIN_SHDRUN/RUN_INDC_UPG - Batch Process depending (SHD)



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





Phase: 60 46.6% MAIN_SHDIMP/SUBMOD_CP2SHD/SUBMOD_DIFFCP2SHD/DIFFEXPABAP_CIGPR



Phase: 61 47.4% MAIN_SHDIMP/SUBMOD_SHDIMP/SHADOW_IMPORT_UPG2 - language import - R3trans depended



Phase: 62 47.5% MAIN_SHDIMP/SUBMOD_SHDIMP/SHADOW_IMPORT_INC - R3trans dependent



Phase: 63 50.0% MAIN_SHDIMP/SUBMOD_SHD2_RUN/XPRAS_SHD_AIMMERGE



Phase: 64 51.3% MAIN_SHDIMP/SUBMODE_SHD2_RUN/RUN_RSGEN - Batch Process depending (SHD)

Repeat Phase

Checks after phase MAIN_SHDIMP/SUBMOD_FATESTS/RUN_RSDB02CK_MOD were negative!

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

ERROR:
Batchjob RSDB02CK failed.
Detected the following errors:

```
# D:\usr\sap\CIC\SUM\abap\log\RSDB02MD.CIC:
4 ETG036 Module name....: "RSDB02CK"
4 ETG038 Log name ..: "RSDB02MD.CIC"
4 ETG040 Start time.....: "10.03.2015" "19:11:35"
4 ETG011 "
4 ETG039 -----
2ETG001 Secondary index "ESH_OM_COTYPNQF-EXT" does not exist in the database
2ETG001 Secondary index "ESH_OM_COTYPNQF-NAV" does not exist in the database
2ETG001 Secondary index "ESH_OM_COTYPNQF-RNF" does not exist in the database
2ETG001 Secondary index "ESH_OM_COTYPNRF-EXT" does not exist in the database
2ETG001 Secondary index "ESH_OM_COTYPNRF-NVP" does not exist in the database
2ETG001 Secondary index "ESH_OM_COTYPNRFU-EXT" does not exist in the database
```

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

Repeat phase MAIN_SHDIMP/SUBMOD_FATESTS/RUN_RSDB02CK_MOD to continue at the point it stopped
 Ignore phase errors and proceed to next phase
 Exit program

Phase: 65 57.4% MAIN_SHDIMP/SUBMOD_FATESTS/RUN_RSDB02CK_MOD

Phase: 66 59.4% MAIN_SHDIMP/SUBMOD_MIG_UPTIME/EU_CLONE_MIG_UT_RUN
 - start uptime migration



Phase: 67 62.0% MAIN_SHDIMP/SUBMOD_MIG_UPTIME_PRP/RUN_SMIGR_CREATE_DDL

63.0 % done (in phase: MAIN_SHDIMP/SUBMOD_MIG BI_TASKS_PREDTT/RUN_WORKSPACE_BACKUP_CREATE)

Repeat Phase

Checks after phase MAIN_SHDIMP/SUBMOD_MIG BI_TASKS_PREDTT/RUN_WORKSPACE_BACKUP_CREATE were negative!

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

ERROR:
Batchjob RS_UPG_TOOL_HMW failed.
Detected the following errors:

```
# D:\usr\sap\CIH\SUM\abap\log\RSUPG_WRKSPC_BACKUP_CRE.CIH:  
A3 ERSLNSP 460 Editing for Workspace "AGSAWSPO2"  
A3 ERSLNSP 457 The data backup function for workspace "AGSAWSPO2" is already active  
A3 ERSLNSP 460 Editing for Workspace "AGSAWSPO3"  
A3 ERSLNSP 457 The data backup function for workspace "AGSAWSPO3" is already active  
A3 ERSLNSP 460 Editing for Workspace "AK_WS01"  
A3EESTREX 005 Error in the RFC communication: " " (" ")  
A3EERSL_BACKUP 015 Error while reading index "0bw:apd:ciih:ak_01_te11:cube~tables:~facts"  
A3EERSL_BACKUP 012 Error while backing up object 'AK_01_TE11'  
A3EESTREX 005 Error in the RFC communication: " " (" ")  
A3EERSL_BACKUP 015 Error while reading index "0bw:apd:ciih:ak_bw1_customer_abc:cube~tables:~facts"  
A3EERSL_BACKUP 012 Error while backing up object 'AK_BW1_CUSTOMER_ABC'  
A3 ERSLNSP 460 Editing for Workspace "DAIMLER"  
A3EESTREX 005 Error in the RFC communication: " " (" ")  
A3EERSL_BACKUP 015 Error while reading index "0bw:apd:ciih:daicustomerranking:cube~tables:~facts"  
... skipped 67 more lines.  
Please see BW\_WRKSPBCKCRE.html for more information.
```

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

Repeat phase MAIN_SHDIMP/SUBMOD_MIG BI_TASKS_PREDTT/RUN_WORKSPACE_BACKUP_CREATE to continue at the point it stopped
 Exit program

[Back](#) [Next](#) [Reset](#)

Phase: 68 63.0%
MAIN_SHDIMP/SUBMOD_MIG BI_TASKS_PREDTT/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.

Report RSL_WSP_CALL_PROGRAMS

BW Workspace Utility Programs

- [Check](#)
- [Evaluate Check Log](#)
- [Search](#)
- [Load Folder](#)
- [Manage Folder Version](#)

Transaction RSWSP (RSWSPW)



MIGRATE_UT_00022_IMP.LOG (Example Import Log from MSS to HDB)

```
D:\usr\sap\CIC\SUM\abap\exe_2nd\R3load.EXE: START OF LOG: 20150310193114

(BLD) INFO: sccsid "@(# $Id: //bas/742_REL/src/R3ld/R3load/R3ldmain.c#7 $ SAP"
(BLD) INFO: kernel release 742 [UNICODE]
(BLD) INFO: data format 1.8
(BLD) INFO: patch number 38
(BLD) INFO: compiled on "Feb 19 2015 19:42:43"
(PRC) INFO: called "D:\usr\sap\CIC\SUM\abap\exe_2nd\R3load.EXE -pipe -decluster
-i D:\usr\sap\CIC\SUM\abap\migrate_ut\MIGRATE_UT_00022_IMP.CMD -datacodepage
4103 -dbcodepage 4103 -l
D:\usr\sap\CIC\SUM\abap\migrate_ut\MIGRATE_UT_00022_IMP.LOG -loadprocedure fast
-table_suffix ~ -k 1G5fdEM50D9Sq3egt6h]pGhK "
(PRC) INFO: process id 3968
(DB) INFO: connected to DB
(DB) INFO: NewDB Kernel version 1.00.093.00.1424770727
          SQLDBC 1.00.093.00.1424770727
(GSI) INFO: dbname      = "CIC/10"
(GSI) INFO: vname       = "HDB"
(GSI) INFO: hostname    =
(GSI) INFO: sysname     = "Windows NT"
(GSI) INFO: nodename   =
(GSI) INFO: release     = "6.1"
(GSI) INFO: version     = "7601 Service Pack 1"
(GSI) INFO: machine     = "4x AMD64 Level 15 (Mod 65 Step 3)"

(RTF) ##### WARNING #####
Without ORDER BY PRIMARY KEY the exported data may be unusable for some
databases

(RDI) INFO: D:\usr\sap\CIC\SUM\abap\migrate_ut\MIGRATE_UT_00022_IMP.STR has
format version 2
(DB) INFO: loading data in table "ECWD_TRACE" with mass loader for LOBs
#20150310193115

(IMP) INFO: import of ECWD_TRACE completed (0 rows) #20150310193115

(DB) INFO: ECWD_TRACE merged #20150310193115

(SQL) INFO: Searching for SQL file SQLFiles.LST
(SQL) INFO: found SQLFiles.LST
(SQL) INFO: Trying to open SQLFiles.LST
(SQL) INFO: SQLFiles.LST opened
(SQL) INFO: Searching for SQL file APPL1.SQL
(SQL) INFO: APPL1.SQL not found

(DB) INFO: loading data in table "GENSETM" with mass loader for LOBs
#20150310193151
```

```
(IMP) INFO: import of GENSETM completed (140664 rows) #20150310193153
...
(DB) INFO: GENSETM merged #20150310193153

(DB) INFO: GENSETM^0 created #20150310193154

(DB) INFO: GENSETM unloaded #20150310193154

(DB) INFO: loading data in table "/BSAM/I_STMACE" with mass loader for LOBs
#20150310193507

(IMP) INFO: import of /BSAM/I_STMACE completed (13 rows) #20150310193507

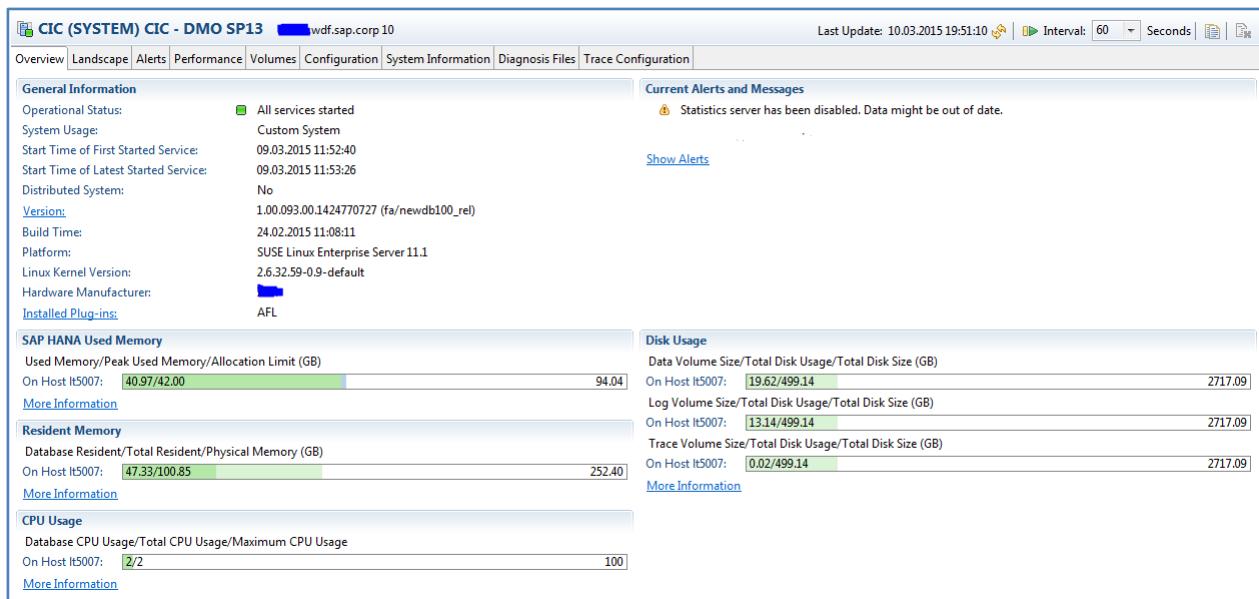
(DB) INFO: /BSAM/I_STMACE merged #20150310193507

(DB) INFO: /BSAM/I_STMACE~0 created #20150310193507

(DB) INFO: /BSAM/I_STMACE unloaded #20150310193507

(DB) INFO: disconnected from DB

D:\usr\sap\CIC\SUM\abap\exe_2nd\R3load.EXE: job completed
D:\usr\sap\CIC\SUM\abap\exe_2nd\R3load.EXE: END OF LOG: 20150310193508
```



3.3.4.1 Details of the export/import process

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

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

EU_CLONE_UP_PRP ➔ creates the directory **migrate_ut_create** "R3ldctl" phase
 EU_CLONE_UP_RUN ➔ creates the directory **migrate_ut** "R3load" phase

EU_CLONE_DT_PRP ➔ creates the directory **migrate_dt_create** "R3ldctl" 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 have to create them beforehand), and reference both files, separated with a comma:

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

Both files are located in the **/usr/sap/<SID>/SUM/abap/htdocs** directory and allow to keep your 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 procpars 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>,...

3.3.4.2 Result from the parallel export/import process

EUMIGRATEUTRUN.LOG

```

1 ETQ000 =====
4 ETQ010 Date & Time: 20140127134020
1 ETQ399 Read 78 tasks from 'MIGRATE_UT.BUC' in directory 'migrate_ut', now running export+import side.
2 ETQ000 =====
2 ETQ100 Executing 147 processes in total - will run 8 in parallel.
3 ETQ121 20140127134022 #1 (1): PID 27216 execute 'D:\usr\sap\N4S\SUM\abap\exe\R3load -e D:\usr\sap\N4S\SUM\abap\migrate_
3 ETQ121 20140127134022 #3 (2): PID 26856 execute 'D:\usr\sap\N4S\SUM\abap\exe\R3load -e D:\usr\sap\N4S\SUM\abap\migrate_
3 ETQ121 20140127134022 #5 (3): PID 23352 execute 'D:\usr\sap\N4S\SUM\abap\exe\R3load -e D:\usr\sap\N4S\SUM\abap\migrate_
3 ETQ121 20140127134022 #7 (4): PID 12484 execute 'D:\usr\sap\N4S\SUM\abap\exe\R3load -e D:\usr\sap\N4S\SUM\abap\migrate_
3 ETQ121 20140127134022 #9 (5): PID 11920 execute 'D:\usr\sap\N4S\SUM\abap\exe\R3load -e D:\usr\sap\N4S\SUM\abap\migrate_
3 ETQ123 20140127134031 (4): PID 26856 exited with status 0 (time 0.000 real)
3 ETQ399 Adjusting TOC file for import of 'migrate_ut\MIGRATE_UT_00002_EXP.STR'
3 ETQ399 ===== 2014/01/27 13:40:31, Progress 16 MB/13726 MB (0.12%) =====
3 ETQ121 20140127134035 #4 (5): PID 28720 execute 'D:\usr\sap\N4S\SUM\abap\exe_2nd\R3load -i D:\usr\sap\N4S\SUM\abap\mig_
3 ETQ121 20140127134035 #11 (6): PID 15464 execute 'D:\usr\sap\N4S\SUM\abap\exe\R3load -e D:\usr\sap\N4S\SUM\abap\migrat_
3 ETQ123 20140127134035 (5): PID 27216 exited with status 0 (time 0.000 real)
3 ETQ399 Adjusting TOC file for import of 'migrate_ut\MIGRATE_UT_00001_EXP.STR'
3 ETQ399 ===== 2014/01/27 13:40:35, Progress 32 MB/13726 MB (0.23%) =====
3 ETQ123 20140127134035 (4): PID 23352 exited with status 0 (time 0.000 real)
4 ETQ399 Removing obsolete file 'MIGRATE_UT_00072_EXP.001' size 218 MB.
4 ETQ399 Cleaning old export TOC 'migrate_ut\MIGRATE_UT_00072_EXP.TOC'.
4 ETQ399 Cleaning old import TOC 'migrate_ut\MIGRATE_UT_00072_IMP.TOC'.
3 ETQ399 ===== 2014/01/27 14:17:24, Progress 13726 MB/13726 MB (100.00%) =====
1 ETQ000 =====
4 ETQ010 Date & Time: 20140127141727
2 ETQ102 Finished execution of 147 process(es).
2 ETQ108 Analyzing logs for errors.
3 ETQ114 Analyzed 147 log files.
1 ETQ399 Finished execution of buckets with rc = 0.
1 ETQ000 =====

```

EUMIGRATEDTRUN.LOG

```

1 ETQ000 =====
4 ETQ010 Date & Time: 20140127151756
3 ETQ399 Export DB type is 'MSSQL' (suffix '~'), import DB type is 'HDB' (suffix '~').
2 ETQ399 Working directory is 'D:\usr\sap\N4S\SUM\abap\migrate_dt'.
1 ETQ000 =====
4 ETQ010 Date & Time: 20140127151756
1 ETQ399 Determining table sizes.
1 ETQ000 =====
4 ETQ010 Date & Time: 20140127151756
1 ETQ399 Total size of tables/views is 5826.1 MB.
2 ETQ399 Decreasing bucket size from 10240 to 364 MB to make use of 8 processes.
1 ETQ000 =====
1 ETQ399 Sorting 31188 tasks for descending sizes.
1 ETQ000 =====
1 ETQ399 Distributing into 8 groups of size 728 MB and reshuffling tasks.
1 ETQ000 =====
1 ETQ399 Command file 'MIGRATE_DT_CNT.BUC': 31188 tables in 80 tasks, size 5826.1 MB (estimated as 36478.3 MB).
1 ETQ000 =====
4 ETQ010 Date & Time: 20140127151757
4 ETQ399 Cleaning up intermediate files..
1 ETQ000 =====
4 ETQ010 Date & Time: 20140127151757
1 ETQ399 Read 81 tasks from 'MIGRATE_DT_CNT.BUC' in directory 'migrate_dt', now running export+import side.
2 ETQ000 =====
1 ETQ000 =====
4 ETQ010 Date & Time: 20140127152241
2 ETQ102 Finished execution of 160 process(es).
2 ETQ108 Analyzing logs for errors.
1 ETQ399 Finished execution of buckets with rc = 0.
1 ETQ000 =====
2 ETQ399 Total import time: 20:51, maximum run time: 0:44.
2 ETQ399 Total export time: 7:30, maximum run time: 0:16.
2 ETQ399 Average exp/imp/total load: 2.0/4.7/6.7 of 8 processes.
2 ETQ399 Summary: time elapsed 4:41, total size 5267 MB, 18.74 MB/sec (67.48 GB/hour).
4 ETQ399 Checking counters from 'MIGRATE_DT_CNT.BUC'.
2 ETQ399 Wrote 31188 successfull counts to 'D:\usr\sap\N4S\SUM\abap\migrate_dt\MIGRATE_DT_COUNTSOK.LST' for next round.
1 ETQ207 Executing post-phase DB specific actions.
4 ETQ010 Date & Time: 20140127152241
1 ETQ202 Upgrade phase "EU_CLONE_MIG_DT_RUN" completed sucessfully ("20140127152241")

```

Size of MSS DB before Export (two examples - transaction DBACOCKPIT)

The image contains two screenshots of the SAP DBACOCKPIT application.

Screenshot 1 (Top): Connected to INSY-VM36. Shows General Info and Database Disk Space. The 'Total Data Size (MB)' field is highlighted with a red box and contains the value 68.740.

Total Data Size (MB)	68.740	Total Log Size (MB)	5.187
Data Free Space (MB)	3.022	Log Free Space (MB)	5.149

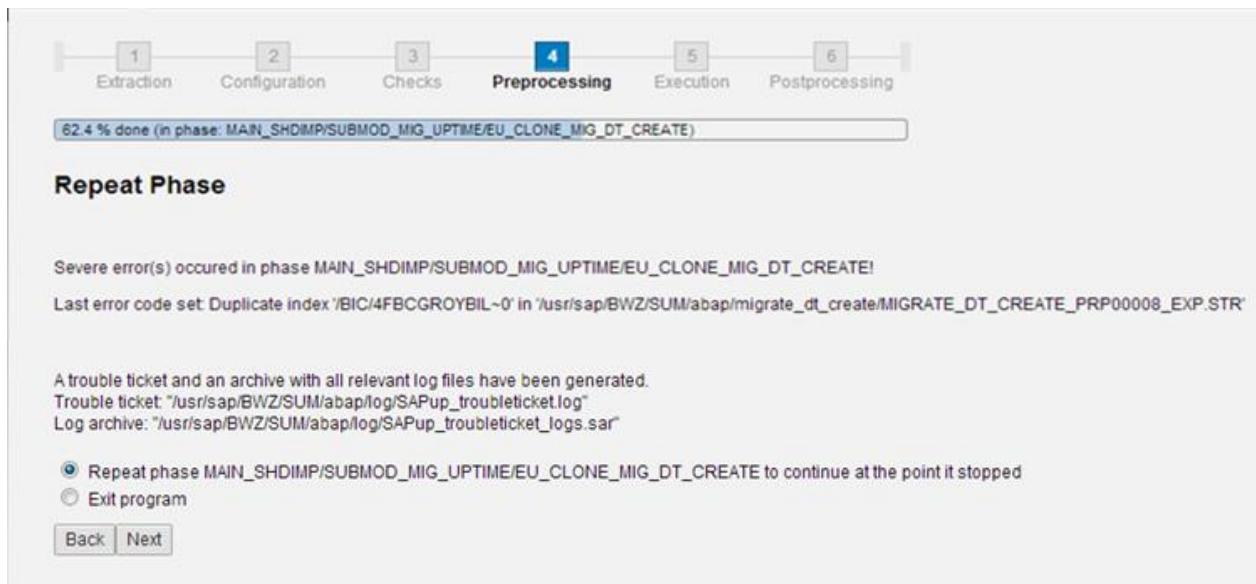
Screenshot 2 (Bottom): Connected to IWDF4366. Shows Database CIH selected. Shows Overview, Files, and Objects tabs. The 'Files' tab is active and displays data about files. The 'Total Size [MB]' field is highlighted with a red box and contains the value 95.200.

Number of files	8
Total Size [MB]	95.200
Allocated [MB]	77.211 = 81,10 %
Free [MB]	17.989 = 18,90 %

Result from Report /SDF/HANA_BW_SIZING

```

SUMMARY
=====
|
| ABAP Size Row Store:    14.9 GB.    No. of tables:    1575
|
| ABAP Size Column Store:  5.4 GB.     No. of tables:    31960
=====
HANA DB size          20.3 GB.           33725
=====
```



Phase: 69 62.4% MAIN_SHDIMP/SUBMOD_MIG_UPTIME/EU_CLONE_MIG_DT_CREATE

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 have to repartition the objects accordantly beforehand.

Repartitioning of InfoProviders

Ensure that you read the corresponding documentation and SAP Note 1008833

Repartitioning of InfoProviders

- InfoCube 2+
- DataStore Object

Processing Options

- Attaching Partitions
- Merging Partitions
- Complete Repartitioning

Repartitioning Request

Initialize Monitor **Unlock**

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

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

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

Repeat Phase

Severe error(s) occurred in phase MAIN_SHDIMP/SUBMOD_MIG_UPTIME_RUN/EU_CLONE_MIG_DT_CREATE!

Last error code set: Found 2 aborted processes
Found 1 failed import processes

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_MIG_UPTIME_RUN/EU_CLONE_MIG_DT_CREATE to continue at the point it stopped
 Exit program

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

INIT

[Back](#) [Next](#) [Reset](#)

Optional: if you encounter any import problems which are not critical, the quickest approach is to use the guidance from the following note: [Note 885441 - Common Migration Errors](#)

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

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: 70 62.8% 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: Rowstore 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>

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

62.0 % done (in 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 guide

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

Actions completed
 Exit program

Phase: 71 62.0% MAIN_DTTRANS/DOWNCONF_DTTRANS - preparations for downtime

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

62.7 % done (in phase: MAIN_DTTRANS/DOWNCONF_DTTRANS_BCK)

Backup Request

Your system has been stopped and is ready to enter the downtime.

Back up the complete upgrade directory now (including subdirectory "sdt"). Caution: To restart the upgrade from this point, you must be able to restore the database, the system directory, and the program directory to the current state.

If you have restored the system to this point from a backup, you can also choose to resume production operation. After that you can then either enter the downtime again at a later time or choose "Reset" to abort the whole upgrade.

Note: You are running DMO, so make sure you backup *both* the source as well as the target database!

Backup completed
 Resume production operation
 Exit program

Phase: 72 62.7% MAIN_DTTRANS/DOWNCONF_DTTRANS_BCK - backup request

Database Properties - CIC

Select a page: General, Files, Filegroups, Options, Change Tracking, Permissions, Extended Properties, Mirroring, Transaction Log Shipping

Script Help

Collation:	SQL_Latin1_General_CI_AS
Recovery model:	Simple
Compatibility level:	SQL Server 2012 (110)
Containment type:	None
Other options:	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Auto Create Statistics	True
Auto Shrink	False
Auto Update Statistics	True
Auto Update Statistics Asynchronously	True

Phase: 73 - switch archive mode on MSSQL (Example)

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

62.7 % done (in 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: 74 66.0% MAIN_DTTRANS/DOWNCONF_DTTRANS_BCK - disable archive mode

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

62.8 % done (in phase:)

Continue with roadmap step "EXECUTE"

Current status: selected MAIN_BRITRANS, MAIN_PROFSTART, MAIN_SWITCH, MAIN_NEWBAS, MAIN_TRANSEXEC, MAIN_PROFEND, MAIN_UPTRANS
Previous step finished successfully and the next one will be started.

Please be advised that additional mandatory manual steps may be listed in file "CHECKS.TXT" (plain text) resp. "CHECKS.LOG" (HTML).
In order to complete the procedure, please process any manual tasks listed there.

Phase: 75 62.8% MAIN_DTTRANS/SETSYNC_PREUP_DT_CONFIRM - END (4)

3.3.5 Phase Execution (5)



Phase: 76 67.1% MAIN_SWITCH/SUBMOD_MIG_DOWNTIME/EU_CLONE_MIG_DT_RUN
- R3load dependent



Phase: 77 72.0% MAIN_SWITCH/PARMVNT_XCNV

In case of duplicated Indexes/Tables use the SAP HANA Studio and remove the affected objects in the SAP<SID> Schema.



Phase: 78 79.1% MAIN_NEWBAS/TABIM_UPG - long runtime phase 4

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

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

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 = ''

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

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

[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](#)

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

In Addition check the table INDX for the following inconsistent entry and remove it accordantly.

Data Browser: Table INDX: Selection Screen

Number of Entries

RELID	XY	to	
SRTFD	RSVERS_BI_IMPORT_...	to	[]
SRTF2	0	to	[]

[Note 1543092 - Upgrade of BP_BIADMIN 1.0 to BP_BIADMIN 3.0\(BP BW ADMINISTRATION\)](#)

Run the transaction RSTCT_INST_BIAC when the upgrade has finished.

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

79.1 % done (in phase: MAIN_NEWBAS/XPRAS_AIMMRG)

Repeat Phase

Checks after phase MAIN_NEWBAS/XPRAS_AIMMRG were negative!

Last error code set: Detected 4 errors summarized in 'XPRASUPG.ELG'
 Calling 'D:\usr\sap\CIC\SUM\abap\log\SAPR740XPR90000150.CIC' failed with return code 8, check D:\usr\sap\CIC\SUM\abap\log\SAUp.PCO for details

ERROR:
Detected the following errors:

```
# D:\usr\sap\CIC\SUM\abap\log\SAPR740XPR90000150.CIC:
2 EPU126XPost-import methods for change/transport request: "SAPK740XPR90000150"
4 EPU111 on the application server: "iwdf4368"
2 EPU122XPost-import method "FINB_TR_AFTER_IMP_METHOD" started for "FINB_LOCAL_CONTENT" "T", date and time: "20150311032610"
A2 EFINB_TR 096 Postprocessing of client cascade was skipped for client "000"
A2 EFINB_TR 097 Transport tool FINBASIS: Client cascade for client "001" started
A2 EFINB_TR 032 No suitable RFC destination could be found"001"
A2 EFINB_TR 098 Transport tool FINBASIS: Client cascade for client "001" finished
2EPPU133 Errors occurred during post-handling "FINB_TR_AFTER_IMP_METHOD" for "FINB_LOCAL_CONTENT" "T"
3 EPPU135 "FINB_TR_AFTER_IMP_METHOD" belongs to package "FINB_TRANSPORT_TOOL"
2EPPU136 The errors affect the following components:
2EPPU137 "FIN-FB" ("Financials Basis")
```

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

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

Initialize phase MAIN_NEWBAS/XPRAS_AIMMRG to restart it from the beginning

INIT

Accept non-severe errors and repeat phase MAIN_NEWBAS/XPRAS_AIMMRG

ACCEPT

Phase: 79 81.1% MAIN_NEWBAS/XPRAS_AIMMRG - RSADMIN table parameter

Create Destination in Client 001 for Import Postprocessing in transaction RSTPRFC

Create Destination in Client for Import Postprocessing

Client	BW Client 001 (SAP AG Konzern)
Destination	CICCLNT001
User	BWREMOTE
Password	*****

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

89.2 % done (in phase: MAIN_UPTRANS/STARTSAP_PUPG)

Backup Request

Note: The database log mode should be enabled now. Make a full backup of your database after archiving is enabled again.

Make a full backup of your database.

- Actions completed
- Exit program

Phase: 80 89.2% MAIN_UPTRANS/STARTSAP_PUPG - 2nd backup request

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

89.2 % done (in 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. In case you are running a High Availability environment, the switch-over capability can be re-enabled now.

Phase: 81 89.2% MAIN_UPTRANS/UPCONF - end of downtime

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

89.4 % done (in phase:)

Continue with roadmap step "POST-EXECUTE"

Current status: selected MAIN_POSTPROC, MAIN_POSTCLEAN

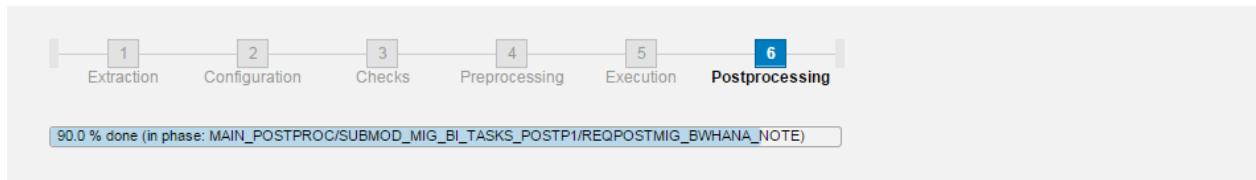
Previous step finished successfully and the next one will be started.

Please be advised that additional mandatory manual steps may be listed in file "CHECKS.TXT" (plain text) resp. "CHECKS.LOG" (HTML).

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

Phase: 82 90.5% MAIN_UPTRANS/MAIN_POSTP - END (5)

3.3.6 Phase Postprocessing (6)

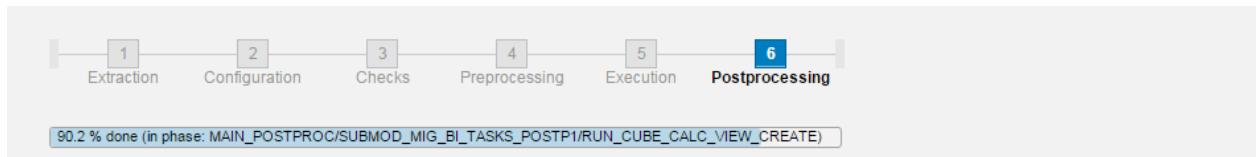


Apply SAP Note 1908075

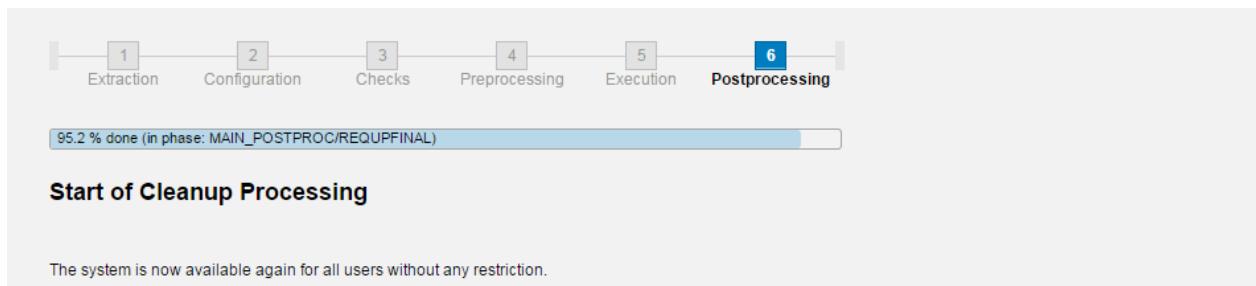
INFO: If you are using a BW system on a *distributed* SAP HANA database, you have to apply the SAP Note [1908075](#) before continuing.

Phase: 83 90.0%

MAIN_POSTPROC/SUBMOD_MIG BI_TASKS_POSTP1/REQPOSTMIG_BWHANA_NOTE



In the phases between 90 and 95%, mainly the BW post migration task list will be fulfilled.



Phase: 84 95.2% MAIN_POSTPROC/REQUPFINAL



5 Infos and 0 Errors

- > MAIN_POSTPROC/REQJOBRES info
- > MAIN_POSTPROC/SUBMOD_MIG BI_TASKS_POSTP2/REQRSRDA info
- > MAIN_POSTPROC/REQNOTE1951685 info
- > MAIN_POSTPROC/REQ_SPLIT_ASCS info
- ▼ MAIN_POSTPROC/CHK_POSTUP info

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').

Phase name	Number of problems
RUN_RUTDDLSCREATE	2
XPRAS_AIMMRG	1
XPRAS_AIMMRG	4
XPRAS_AIMMRG	3
XPRAS_AIMMRG	4

Phase: 85 MAIN_POSTPROC Informations

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

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 have to 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').

Phase Name	Number of Problems
RUN_RUTDDLSCREATE	2
XPRAS_AIMMRG	1
XPRAS_AIMMRG	4
XPRAS_AIMMRG	3
XPRAS_AIMMRG	4

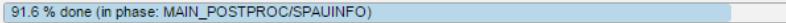
Command to analyze the R3load runtimes after the migration:

```
D:\usr\sap\<SID>\SUM\abap\bin\SAPup.exe r3load logstat
D:\usr\sap\<SID>\SUM\abap\log\MIGRATE_DT_RUN.LOG
```

Command to analyze the R3load runtimes constantly as graphic:

```
D:\usr\sap\<SID>\SUM\abap\bin\SAPup.exe r3load logstat
D:\usr\sap\<SID>\SUM\abap\log\migrate_dt\*.log
```

ASU Schedule Manager: Display - BW specifics for Upgrade from BW 7.0x							
User Notes On	Display/Change Task List						
		Severity	Descript.	Note	Docu.	UserRemark	Status
Task List							Last run
Scenario "SAP Netweaver BW 73x" Version "2012080312" <ul style="list-style-type: none"> Preparation Steps <ul style="list-style-type: none"> Manual Preparation Steps Fully Automated Preparation Steps Follow-Up Steps <ul style="list-style-type: none"> Manual Follow-Up Steps <ul style="list-style-type: none"> Initial system check. Important notes after upgrade Migration Analysis Authorization Start RDA Deamon Set the SAP BI Menu. Activate the source systems again. Repair InfoObjects Activate BEX history RSMDATASTATE inconsistencies after upgrade Checking compounding consistency in MultiPro ALE: Generating and reading change pointers Program for transformation activation Check RSZ* Tables Repair errors in RSZ* tables. Migration of variants Problem with a hierarchy with remaining nodes Create dropped factviews again. Activation of MultiProviders TADIR entries for factviews. DataSource problems after BW upgrade from Fully Automated Follow-Up Steps 							



Procedure Complete

There are 177 development objects that have been imported by the procedure, that you have also modified previously in your system CIC.

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
 Exit program

Phase: 86 98.2% MAIN_POSTP/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.



Repeat Phase

Checks after phase MAIN_POSTP/RUN_RSDB02CK_END were negative!

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

ERROR:
 Batchjob RSDB02CK failed.
 Detected the following errors:

```

# D:\usr\sap\CIH\SUM\abap\log\RSDB02EN.CIH:
4 ETG036 Module name.....: "RSDB02CK"
4 ETG038 Log name .: "RSDB02EN.CIH"
4 ETG040 Start time.....: "03.03.2014" "21:26:12"
4 ETG011 "
4 ETG039 -----
2EETG001 Secondary index "/BIO/KCUSTOMER1-001" does not exist in the database
2EETG001 Secondary index "/BIO/KD_CUSTOME1-001" does not exist in the database
2EETG001 Secondary index "/BIO/KD_SOLD_T01-001" does not exist in the database
2EETG001 Secondary index "/BIO/SCUSTOMER1-001" does not exist in the database
2EETG001 Secondary index "/BIO/SD_CUSTOME1-001" does not exist in the database
2EETG001 Secondary index "/BIO/SD_SOLD_T01-001" does not exist in the database
2EETG001 Secondary index "/BIC/AAUTOD540-001" does not exist in the database
2EETG001 Secondary index "/BIC/KPM_MATER1-001" does not exist in the database
2EETG001 Secondary index "/BIC/KR_CUSTOM1-001" does not exist in the database
...skipped 5 more lines.
Please see RSDB02CK.html for more information.
  
```

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

Repeat phase MAIN_POSTP/RUN_RSDB02CK_END to continue at the point it stopped
 Ignore phase errors and proceed to next phase
 Exit program

[Back](#) [Next](#) [Reset](#)

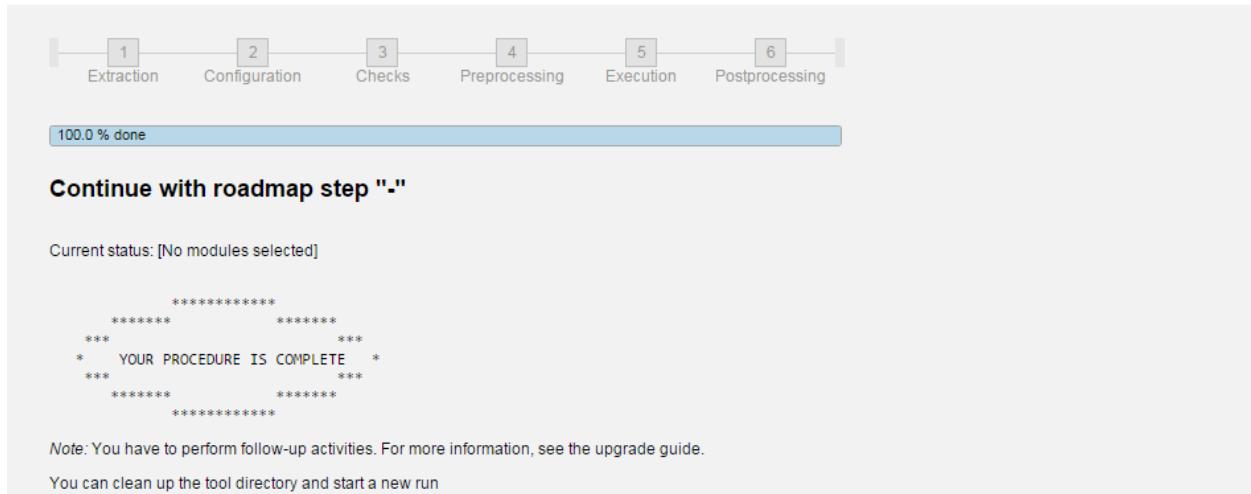
Phase: 87 98.7% MAIN_POSTP/RUN_RSDB02CHK_END - repair with RSDU_TABLE_CONSISTENCY



Phase: 88 99.7% MAIN_POSTCLEAN/SUBMOD_EVALUATE/CREATE_UPGEVAL



Phase: 89 99.9% MAIN_POSTP/SAVELOGS



Phase: 90 100% YOUR UPGRADE IS COMPLETE - END (6)



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:

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

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

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

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?

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

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

Did the process downtime meet your expectations?

Did the process documentation meet your needs?

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

Do you have any comments on the tool or process?

Process XML:

```
<![CDATA[###FILENAME:UPGANAS##]]><![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">
```

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.

DMO Process XML

<http://<server>.<domain>.<ext>:1128/lmsl/sumabap/<SID>/doc/UPGANAXML>

Upgrade with Software Update Manager on NW system release 740			
OPEN ALL	CLOSE ALL	>>Components	>>PREPARE
>>XPRAS		>>AFTER-IMPORT-METHODS	>>MAIN
>>TRANSPORTS		>>Process statistics	>>CONVERSIONS
-System			
Start-Release:	730	Destination-Release:	740
SID:	CIC	Installation number:	SAP-INTERN
DB-Type:	HDB	OS-Type:	Windows NT X86_64
DB-Version:	1.00.093.00.1424770727	OS-Version:	6.1
DB size (initial):	0.00/0.00 GB	SAP-Host:	iwdf4368
DB size (final):	33.74/36.84 GB	Batch host:	iwdf4368
NR-Clients (productive):	1 (0)	DB-Host:	lt5007.wdf.sap.corp
-Configuration			
Strategy:	Downtime-minimized	Archiving:	STOPSAP_TRANS
Batch processes:	12/12	Uptime processes:	
R3trans processes:	12/12	R3load processes:	12/8
SGEN processes:	10	CRR processes:	3
Imported Languages:	ED	Used nZDM capabilities:	no
J2EE present:	0		
-Times			
Start date:	2015/03/03 20:09:25	End date:	2015/03/11 12:29:52
Minimum downtime:	6:05:53	Runtime:	27:12:54
Since START_SHDI_FIRST:	22:38:55	Since EU_IMPORT:	23:29:12
-Versions			
SAPup	lmt_004 Version: 58.000 UNICODE	Misc:	Fri Aug 29 23:52:00 CEST 2014
Export:	Fri Aug 29 23:49:27 CEST 2014	Kernel:	Feb 19 2015 20:24:15
Control:	Fri Aug 29 23:52:00 CEST 2014		
-Tool versions			
Tool	Source	Destination	
disp+work	Rel	PL/Date	Rel
	721	418 /Mar 1 2015 19:03:18	742
tp			39 /Feb 19 2015 20:24:15
	721	416	38
R3trans			
	721	418 /25.02.15	742
R3load			38 /11.02.15
	721	413 /Mar 1 2015 14:52:26	742
			38 /Feb 19 2015 19:42:43
-Component versions			
Main Component	Source	Export	
DMIS	Rel	PL	Rel
	2011_1_730	0006	2011_1_731
DMIS_CNT			0007
	2011_1_730	0006	2011_1_731
PI_BASIS			0007
SAP_ABA	730	0011	740
SAP_BASIC			0000000008
SAP_BW	730	0011	740
ST-PI	2008_1_710	0008	740
SAP_GWFND			0000000008
SAP_UI	-		740
BI_CONT			0000000009
CPMBPC	-		757
FINBASIS			0004
FSCM_CCD	-		810
HANABPC			0005
MDG_FND	-		747
POASBC			0007
SAP_BS_FND	-		617
SEM-BW			810
WEBCUIF	-		0005
			747
			747
			100_731
			0006
			747
			0007
			747
			0007
			747
			0007
			747
			0007

3.5 Post Activities after the main DMO Procedure

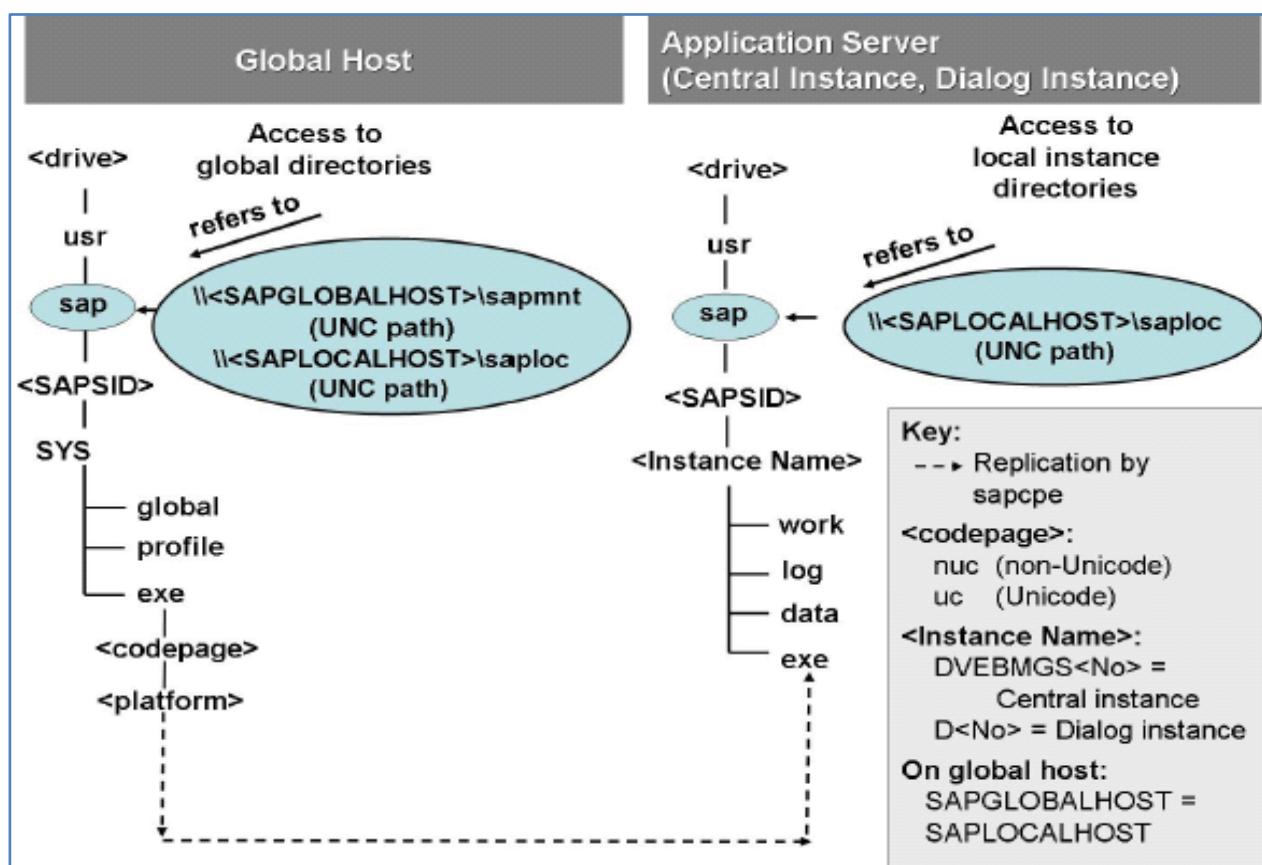
3.5.1 Split off ASCS Instance from Existing Server

In case the Source System was based on non-unicode (NUC) or was already upgraded from a previous release, you have to 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

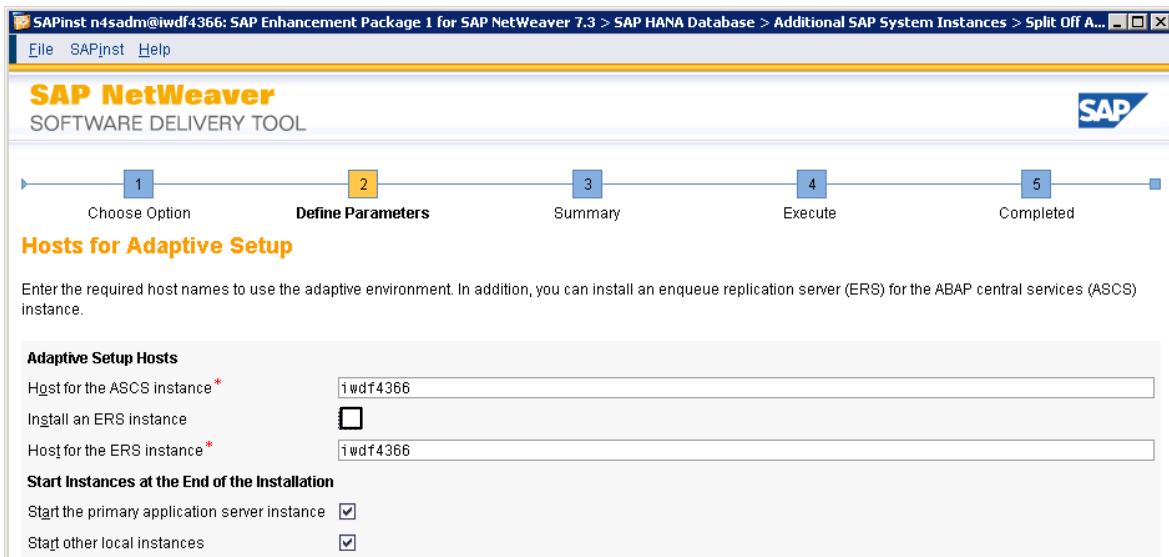
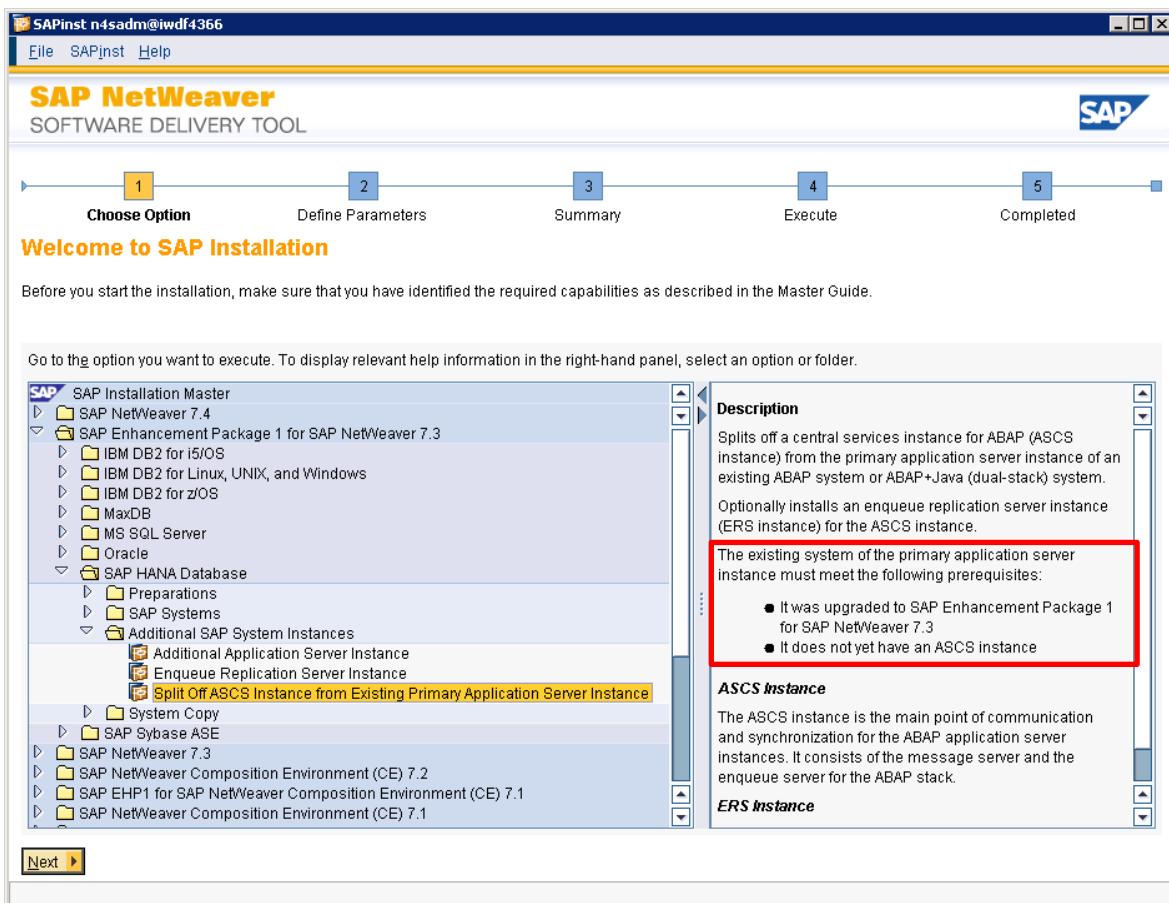
The following graphic illustrates the new structure (since NetWeaver 7.0 UC):



Furthermore you have to 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/sitoolset>



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	DVEBMGS01	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	DVEBMGS01	01
N4S	ASCS02	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.

[Back](#) [Next](#)

Task Progress

The task has completed.

All phases completed

- ✓ Split Off ASCS Instance from Existing Primary Application Server Instance
- ✓ Update system dls
- ✓ Stop system
- ✓ Install ASCS instance
- ✓ Install instance basics of ASCS02
- ✓ 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
disp+work.EXE	Dispatcher	19636	Running, Message Server connecti...	2013 07 03 16:38:44	0:02:31
igswd.EXE	IGS Watchdog	14960	Running	2013 07 03 16:38:44	0:02:31

3.5.2 HANA Specific Post Steps

3.5.2.1 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 have to 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		◆	◆
statisticserver			
arguments			
executable	hdbstatisticsserver		
flags	COMPRESSBACKUP		
instances	0	● 1	—
nameserver.ini		◆	—
statisticserver			
active	false	● true	—

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

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

```
allow_dynamic_range_partitioning = true
dynamic_range_check_time_interval_sec = 9000000
dynamic_range_default_threshold = 10000000
```

HBW (SYSTEM) HBW System lt5006.wdf.sap.corp 10			
Last Update: 20.10.2014 14:24:54			
Overview Landscape Alerts Performance Volumes Configuration System Information Diagnosis Files Trace Configuration			
Filter: <input type="text"/> ×			
Name	Default	System	Host - It5006
communication		—	—
debugging_backend		—	—
distribution		—	—
global		—	—
graph_engine		—	—
indexing		—	—
merges	Add Section...	10	—
parameters	Add Parameter...		—
uses	Delete...		—
joins	Expand		—
livecach	Collapse		—
merged	Collapse All		—
olap			—
optimiz			—
parallel	Configure Table...		—

<input checked="" type="checkbox"/> [] partitioning				
allow_dynamic_range_partitioning				
bulk_load_threads	4			
dynamic_range_check_time_interval_sec		● true		
dynamic_range_default_threshold		● 9000000		
split_threads	16	● 10000000		

3.5.2.2 Install Application Function Library (AFL)

The HANA Analysis Process (HAP) uses the AFL content for SAP HANA. Therefore you have to import the correct Version of the AFL assign to your HANA Revision. If you are Updating HANA with AFL content applied, you have to 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.

SAP HANA Lifecycle Manager

Version:1.0.7.7

Add Application Function Library (AFL)

1 Provide AFL Archive 2 View Summary 3 Execute

AFL Archive Path: *

3.5.2.3 Install the smart data access (SDA) drivers

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

SAP HANA Lifecycle Manager

Version:1.0.7.7

Add SAP HANA Smart Data Access (SDA)

1 Provide SDA Archive 2 View Summary 3 Execute

SDA Archive Path: *

SAP HANA Platform Lifecycle Management

View System Information 	Update System and Components 	Install or Update Additional Components 	Configure System Landscape Directory Registration 	Configure Inter-Service Communication
-----------------------------	----------------------------------	---	---	---

3.5.2.4 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 have to 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	lt5086.wdf.sap.corp:30115
HBDCLNT001	HDB	<input checked="" type="checkbox"/>	SAPHBD	1	1	lt5086.wdf.sap.corp:30115
SAPIQDB	SYB	<input type="checkbox"/>	SAPNLSIQDB	1	1	SYBASE_SERVER=lt5086.wdf.sap.corp SYBASE_PORT=2640 SYBAS

Change View "System Settings for User Administration in DBMS": Overview						
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
Valid from	11.03.2015
Valid through	
E-Mail Address	
Authentication	
<input checked="" type="checkbox"/> Password	<input type="checkbox"/> SAML
New Password	*****
Repeat Password	*****
<input type="checkbox"/> Kerberos	<input type="checkbox"/> X509
External Identity	<input type="checkbox"/> SAP Logon Ticket
	<input checked="" type="checkbox"/> SAP Assertion Ticket
Assigned DBMS Roles	
<input checked="" type="checkbox"/> Database Management System Role ABAP_ADMIN ABAP_SYS_REPO CONTENT_ADMIN DBA_COCKPIT	
Assigned By SYSTEM SYSTEM SYSTEM SYSTEM	

The screenshot shows the SAP Fiori User Parameters interface for a user named 'KRAMER'. The left sidebar lists various SAP modules: CIC, CIC (SAPCIC), CIC - DMO SP13, Backup, Catalog, Provisioning, Content, Security, Users (DBACOCKPIT, KRAMER, SAPCIC, SYS, SYSTEM, _SYS_AFL, _SYS_EPM, _SYS_REPO, _SYS_STATISTICS), and Roles. The main panel displays user parameters for 'KRAMER', including authentication methods (Password, Kerberos), session details (Valid From, Valid Until, Session Client), and a list of granted roles and privileges.

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](#)

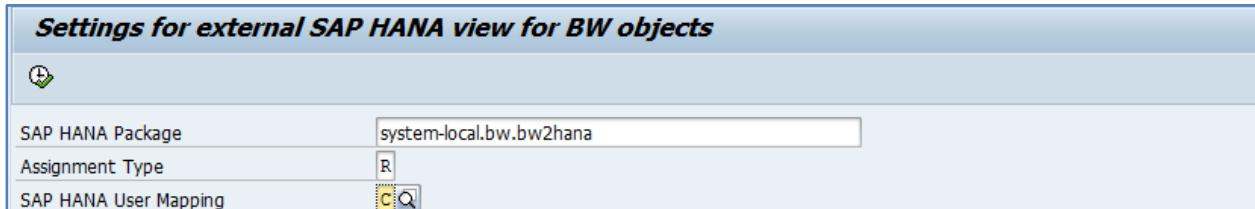
The image contains three separate screenshots of SAP HANA system administration interfaces:

- Screenshot 1:** Shows the 'Granted Roles' tab for two roles: 'sap.hana.admin.roles::Administrator' and 'sap.hana.xs.lm.roles::Administrator', both assigned to the grantor '_SYS_REPO'.
- Screenshot 2:** Shows the configuration for user 'SAPHBD'. It includes sections for Authentication (Password, Kerberos), Session Client, and various privilege tabs: Granted Roles, System Privileges, Object Privileges, Analytic Privileges, Package Privileges, Application Privileges, and Privileges on Users. A detailed view for the 'ROLE ADMIN' privilege is shown on the right.
- Screenshot 3:** Shows the 'Catalog Object' grants for '_SYS_BI' and '_SYS_BIC' to '_SYS_REPO'. It also shows grants for '_SYS_REPO' to 'SYSTEM' and 'KRAMER' to 'SYS'. On the right, it lists privileges for '_SYS_BI': CREATE ANY, ALTER, DROP, EXECUTE, and SELECT.

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/06/371640b7b6dd5fe10000000a155106/plain.htm&node_id=217&show_children=false

Transaction RS2HANA_VIEW



The activation of the relevant BI Content (InfoObjects and InfoProvider OTCA*) is necessary as well.

Furthermore the additional SAP Notes corrections has to 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](#)

All Objects According to Type	Technical Name	S.	User	URL
InfoSet	ISET			
HybridProvider	HYBR			
Semantically Partitioned Object	LPOA			
InfoCube	CUBE			
Select Objects	OTCA_HIE			
Change Document Analysis Authorization	OTCA_UA			
Change Document Authorizations	OTCA_VAL			
DataStore Object (Advanced)	ADSO			
InfoObject	IOBJ			
Select Objects	OTCAACTVT			
Activity in Analysis Authorizations	OTCACOUNT			
Number of Authorization Records	OTCAIFAREA			
InfoArea for Analysis Authorizations	OTCAIPROV			
Authorizations for InfoProvider	OTCAKYFNM			
Key Figure in Analysis Authorizations	OTCALANG			
Authorizations Language	OTCALANGU			
Language of Authorization Texts	OTCARECMODE			
Change Type Analysis Authorizations	OTCATXTLG			
Texts Load Authorizations	OTCATXTMD			
Texts Load Authorizations	OTCATXTSH			
Validity of an Authorization	OTCAVALID			

3.5.2.5 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)

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/facccb575c4f79b61e1b38af757a2c/content.htm?frameset=/en/82/25d779272c40b2867137374af77017/frameset.htm¤t_toc=/en/06/371640b7b6dd5fe10000000a155106/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](#)

3.5.2.6 Transaction RS2HANA_CHECK/ADMIN

With the Transactions RS2HANA_CHECK and RS2HANA_ADMIN 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 (Component BW-WHM-MTD-HMOD)

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

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

Check Consistency of SAP HANA Model Generation Framework

Concerned Objects

Object(s):	YEPM_CP_02	<input type="checkbox"/> Is Query
BW User:	KRAMER	
DB Connection for BW User:	KRAMER	
<input checked="" type="checkbox"/> 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

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

3.5.3 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 your SAP BW Release is still 7.30, then you definitely 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 1600929 - SAP BW powered by SAP HANA DB: Information](#)

[Note 1850327 - SP Equivalence for update/upgrade to SAP NW 7.4](#)

[Note 1914052 - NetWeaver 7.40 Database Dependencies](#)

3.5.3.1 Check for updates for SNOTE/SPAU corrections

[Note 1668882 - Note Assistant: Important notes for SAP_BASIS 730,731,740](#)

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

Transaction SPAU

3.5.3.2 Important SAP Notes after 7.40 SP08 and higher

This is a collection of SAP Notes for various topics after the Upgrade to 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 BAdl 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 SP10 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](#)

[Note 2093418 - HANA: SQL conversion of search functions with TREX_EXT function modules](#)

3.5.3.3 RowStore to Column conversion after 7.40 SP08

[Note 2044047 - Pre-BW7.4 SP08 RowStore-to-ColumnStore conversion](#)

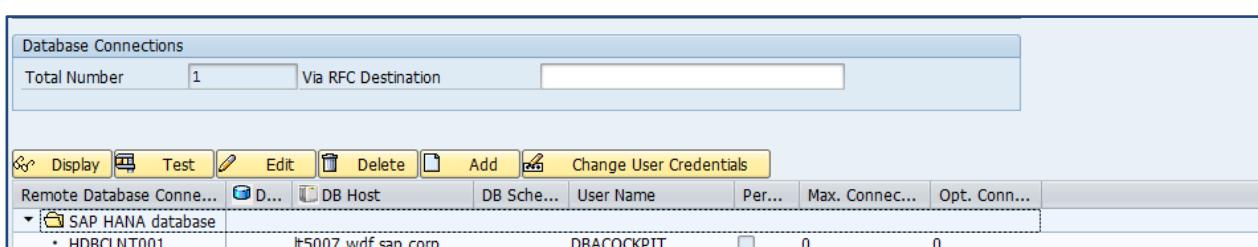
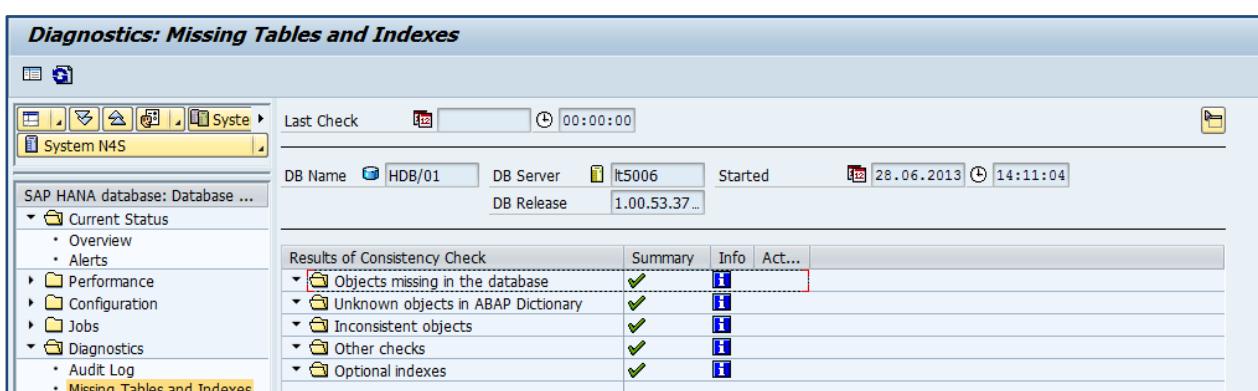
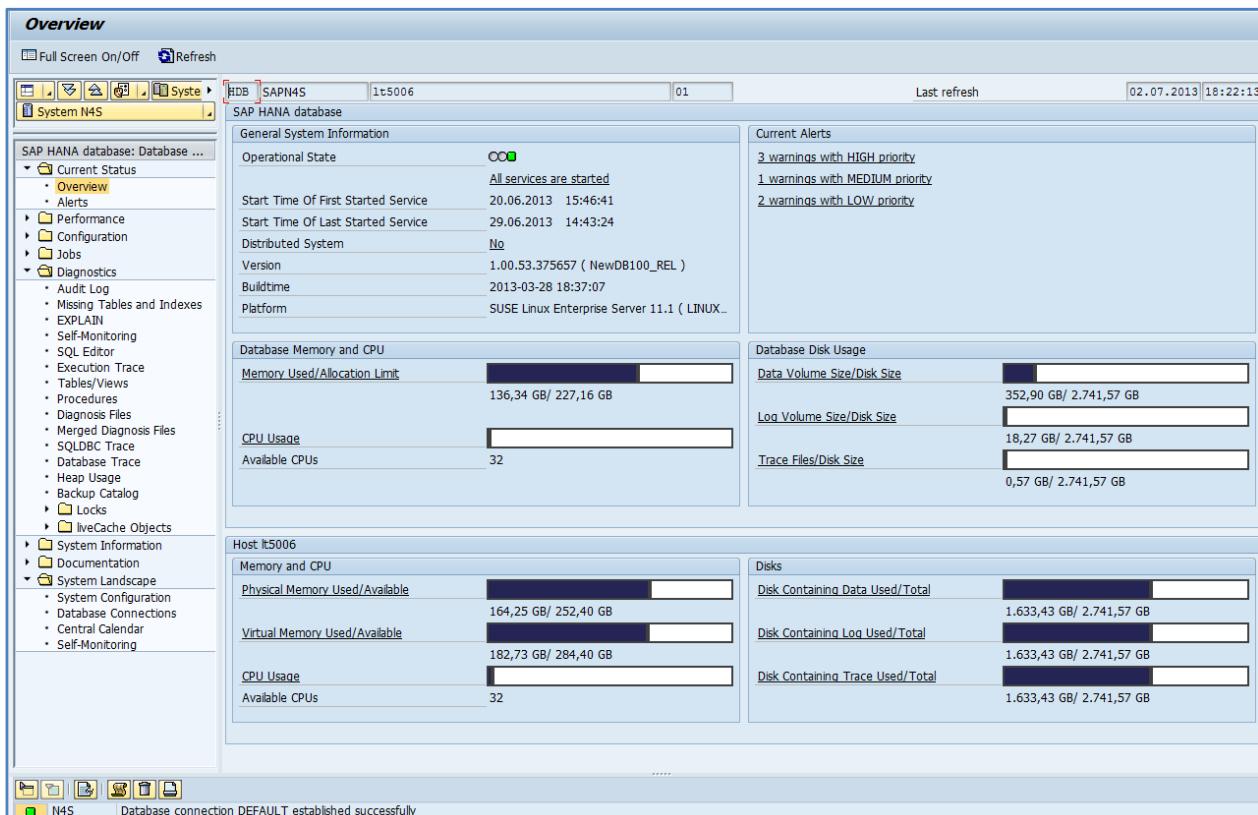
Program RSDU_MOVE_TO_COLUMN

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
	SEOCOMPOND	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.



You have to manually create the DBCON entry for the HDB connection with the user DBACOCKPIT.

Please Note that the DMO process includes also all post activity steps after the Upgrade and Migration as well. Depending on the corrections there is a need to run the Report RS_BW_POST_MIGRATION separately again. The usage of the ASU toolbox is already mentioned before.

Optionally it might be necessary to re-run certain steps in interaction with the program RSDU_TABLE_CONSISTENCY, 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_RSLEPTIPT_DESCRIPTION;

State	System	DB System	DB Release	DB Host	Release	Connection Name	DB User	RFC Destination	Default
<input checked="" type="checkbox"/>	CIC	SAP HANA da...	1.00.09300	It5007	740		SAPCIC		

System Usage	Custom System
Version: 1.00.093.00.1424770727 (fa/newdb100_rel)	
Buildtime: 2015-02-24 11:08:11	
Platform: SUSE Linux Enterprise Server 11.1 (LINUX_X86_64)	

Database Storage	
Data Volume Size/Disk Size:	35,77 GB/ 2.717,09 GB
Log Volume Size/Disk Size:	4,16 GB/ 2.717,09 GB
Trace Files/Disk Size:	0,03 GB/ 2.717,09 GB

Host(s) Storage	
Disk Containing Data Used/Total:	505,93 GB/ 2.717,09 GB
Disk Containing Log Used/Total:	505,93 GB/ 2.717,09 GB
Disk Containing Trace Used/Total:	505,93 GB/ 2.717,09 GB

3.5.3.4 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](#)

Before you run the Program 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

Program RSDU_TABLE_CONSISTENCY																	
<input style="width: 20px; height: 20px; vertical-align: middle;" type="button" value="Help"/> Data selection Table names <input type="text" value=""/> to <input type="text" value=""/> <input type="button" value="..."/>																	
<input type="radio"/> Show issues in GUI <input checked="" type="radio"/> Store issues																	
Available Consistency Checks <table border="0"> <tr> <td><input checked="" type="checkbox"/> CL_SCEN_DEAD_TABLES</td> <td>Find tables in DDIC as well in DB, which are inaccessible by BW</td> </tr> <tr> <td><input checked="" type="checkbox"/> CL_SCEN_SEC_INDEX</td> <td>Find fact tables with a secondary index</td> </tr> <tr> <td><input checked="" type="checkbox"/> CL_SCEN_PRIMARY_KEY</td> <td>Check the Primary Keys of tables according their type</td> </tr> <tr> <td><input checked="" type="checkbox"/> CL_SCEN_PARTITION_SPEC</td> <td>Check the Partition Specification of tables</td> </tr> <tr> <td><input checked="" type="checkbox"/> CL_SCEN_STORAGE_TYPE</td> <td>Check tables to be in RowStore or ColumnsStore</td> </tr> <tr> <td><input checked="" type="checkbox"/> CL_SCEN_TABLE_LOCATION</td> <td>Check tables are located on certain servers</td> </tr> <tr> <td><input checked="" type="checkbox"/> CL_SCEN_TAB_CLASSIFICATION</td> <td>Check tables are classified correctly</td> </tr> <tr> <td><input checked="" type="checkbox"/> CL_SCEN_COMPRESSION</td> <td>Check tables auto merge and compression</td> </tr> </table>		<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 ColumnsStore	<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
<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 ColumnsStore																
<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 <input type="text" value=""/> to <input type="text" value=""/> <input type="button" value="..."/>	
Issues from previous checks <input type="button" value="Show"/> <input type="button" value="Delete"/> issues: 348 selected: 0	
Operational modes <input checked="" type="radio"/> Show issues in GUI <input type="radio"/> Store issues <input type="radio"/> 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		
Exception	No.	Message text
000	1	Issues checked by I008817 at 28.08.2013 17:30:43 class: CL_ISSUE_PRIMARY_KEY; key: 051M70wo7kE3{jca8mJmPG
000	2	Issues checked by I008817 at 28.08.2013 17:30:43 class: CL_ISSUE_PART_SPEC; key: 051M70wo7kE3{jca8mKPG
000	3	Issues checked by I008817 at 28.08.2013 17:30:43 class: CL_ISSUE_PART_SPEC; key: 051M70wo7kE3{jca8mKmPG
000	4	Issues checked by I008817 at 28.08.2013 17:30:43 class: CL_ISSUE_STORAGE_TYPE; key: 051M70wo7kE3{jca8mLPG
000	5	Issues checked by I008817 at 28.08.2013 17:30:43 class: CL_ISSUE_TAB_CLASSIFICATION; key: 051M70wo7kE3{jca8mLmpG
000	6	Issues checked by I008817 at 28.08.2013 17:30:44 class: CL_ISSUE_COMPRESSION; key: 051M70wo7kE3{jca8mMpg

Press the Save Button (2)

Results of BW Table Consistency Check							
Exce...	Status	Type	Reason	Table	PK	Row Count	BW Object
000	REPAIRABLE	ODS	difference BW/DB found	/BIO/AGAE_APLG00		0,000	OGAE_APLG
000	REPAIRABLE	ODS	difference BW/DB found	/BIO/AGAE_ARAT00		0,000	OGAE_ARAT
000	REPAIRABLE	ODS	difference BW/DB found	/BIO/AGAE_ARHS00		0,000	OGAE_ARHS
000	REPAIRABLE	ODS	difference BW/DB found	/BIO/AGAE_ATCH00		0,000	OGAE_ATCH
000	REPAIRABLE	ODS	difference BW/DB found	/BIO/AGAE_CFVL00		0,000	OGAE_CFVL
000	REPAIRABLE	ODS	difference BW/DB found	/BIO/AGAE_EMTP00		0,000	OGAE_EMTP
000	REPAIRABLE	ODS	difference BW/DB found	/BIO/AGAE_HST00		0,000	OGAE_HST
000	REPAIRABLE	ODS	difference BW/DB found	/BIO/AGCC_CPRO00		0,000	OGCC_CPR

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	Print	Exit Shift+F3
CONSISTENCY				
Data selection				
Table names <input type="text"/> to <input type="text"/>				
Issues from previous checks				
<input type="button" value="Show"/> <input type="button" value="Delete"/>				
Operational modes				
<input type="radio"/> Show issues in GUI <input type="radio"/> Store issues <input checked="" type="radio"/> Repair				

The Repair Job is now running as background job. Check either with SM50 or SM37.

3.5.3.5 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.

Exception	No.	Message text	Ctx.
OOO	1	Checked 6866 tables without range partitioning:	
ooo	2	Found 1232 problematic PSA tables (double click for details)	

3.5.3.6 Correct missing views for selected Master Data

Implement the manual report attached to the following Note (ZRSMDM_CHECK_CHA_VIEWS)

[Note 1892819 - Improved performance when loading master data](#) and run the Repair Mode Option.

[Note 2007363 - 740SP9: Master data update - Performance optimization for HANA](#)

3.5.3.7 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](#)

Report RSDG_TRFN_ACTIVATE

RSDG_TRFN_ACTIVATE

Transformation Selection

Transformation ID	<input type="text"/>	to	<input type="text"/>	
Object Status	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

<input type="checkbox"/> Check Only	<input type="checkbox"/> Set erroneous objects to INA
<input type="checkbox"/> Use M Version of DTP (If Available)	
<input type="checkbox"/> 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"/>	

3.5.3.8 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)?

30 Max. number of work processes (0 = 80% of WPs)

Create **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)?

30 Max. number of work processes (0 = 80% of WPs)

Delete **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 also 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 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.

[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 RSUDO_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.

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

Report RSL_WSP_ADJUSTMENT_COMPLETE

BW Workspaces: Adjustment for HANA

Help on...

Workspace * to

Log

External ID	HANA Adjustment of BW Workspaces
Retention Period (in Days)	0

Report RSL_WSP_REPAIR_COPR (SET_COPR4REPAIR_MPRO)

Repair CompositeProvider

Simulation Display Repair Log

Main Provider *

Workspace * to

Folder * to

Log

<input type="checkbox"/> Save Repair Log	
External ID	<input type="text"/>
Retention Period (in Days)	<input type="text"/>

3.5.3.9 BW Migration Post Task List with DMO procedure

The call of the Post Migration Task List is optional in case not all steps are runned successfully with the DMO procedure. However this Task List is implemented with the DMO procedure as well.

Task Manager for Technical Configuration

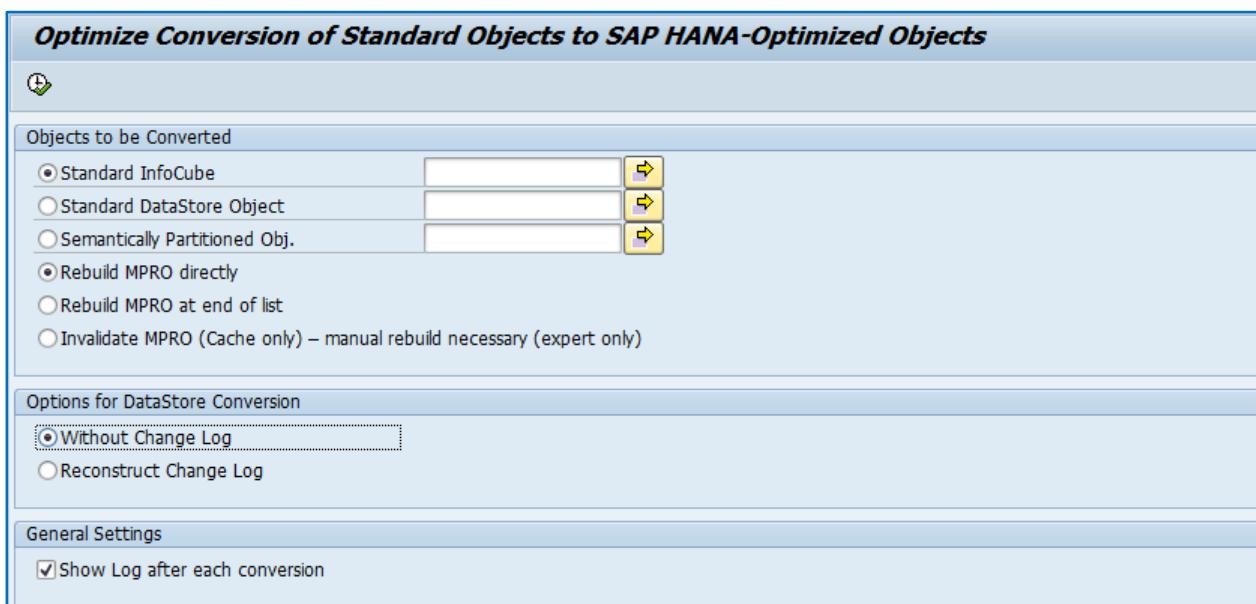
With Variant Variants Variant Variants

Task List SAP_BW_AFTER_MIGRATION

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

3.5.3.10 Convert InfoCubes into in-memory optimized

Use Transaction RSMIGRHANADB to convert InfoCubes on demand, DSO objects remains unchanged.



[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 SP08 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 SP08 (SR2) and higher to enable the BW system also for the latest enhancements, including BW-MT, BW-HAP and BW-aDSO.

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

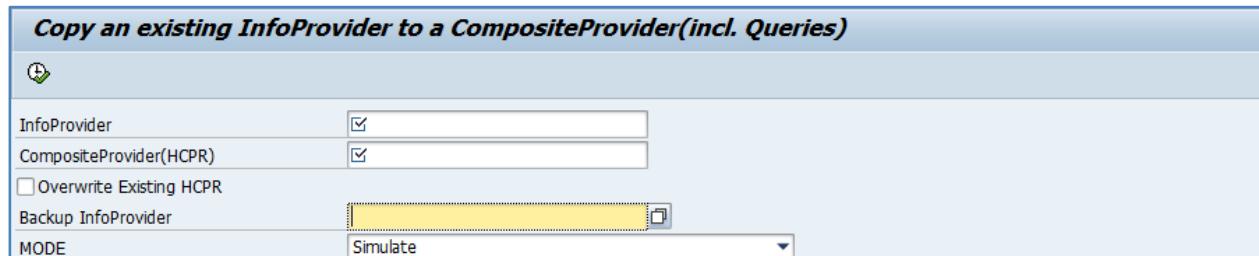
SAPKW74011 HANA aDSO BW-aDSO

3.5.3.11 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



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 taking into account the InfoObject mapping
- Creation of a backup for a MultiProvider
- Recovery of a MultiProvider from the backup

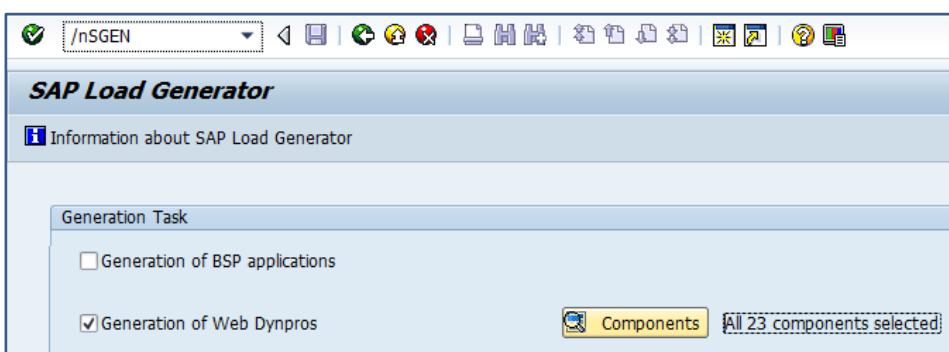
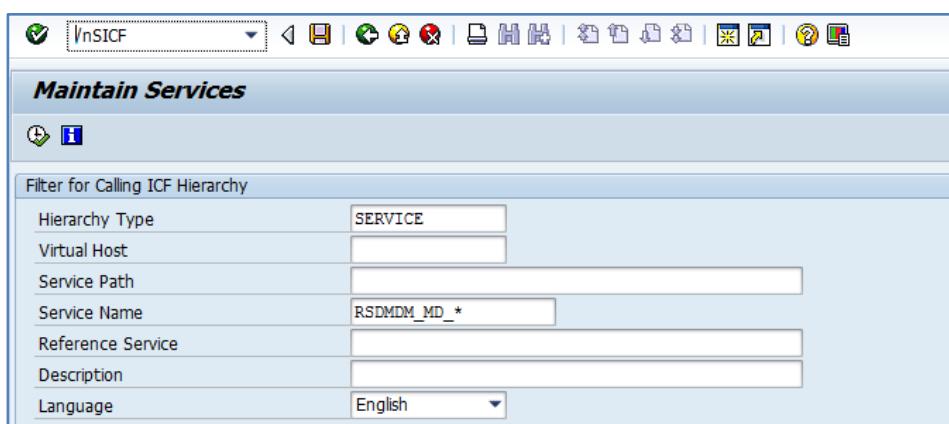
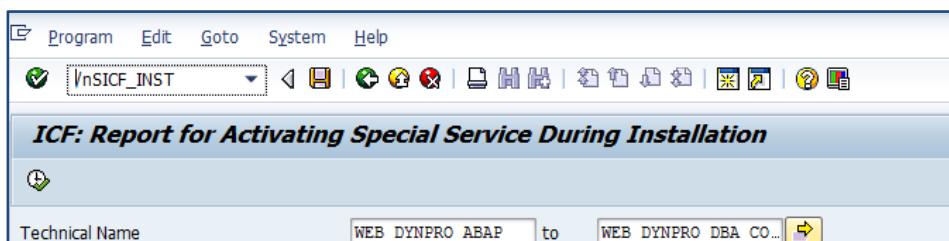
3.5.3.12 Activate ABAP WebDynpro in BW 7.40

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:

```
/default_host/sap/bc/webdynpro/sap/RSDMDM_MD_NEW_APP
/default_host/sap/bc/webdynpro/sap/RSDMDM_MD_MAINTENANCE_APP
```

[Note 1969105 - Master data maintenance for InfoObjects does not start](#)

[Note 1088717 - Active services for Web Dynpro ABAP in transaction SICF](#)



3.5.3.13 Optional: 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/49/917b48b0904d1leaf6d1bd5a3824bf2/content.htm

Display IMG

Existing BC Sets BC Sets for Activity Activated BC Sets for Activity Release Notes Change Log Where Else Used

Structure

- SAP Customizing Implementation Guide
 - Activate Business Functions
 - SAP NetWeaver
 - Gateway
 - OData Channel
 - Configuration
 - User Settings
 - Connection Settings
 - Activate or Deactivate SAP NetWeaver Gateway

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

Add Service

Service Catalog

Add Selected Services

Get Services

Filter

System Alias	LOCAL
Technical Service Name	RSPCM_GW_SERVICE_SRV
External Service Name	
Version	
External Mapping ID	

Screenshot of SAP GUI showing the configuration of a GW Service SRV. The left pane shows the service details: BEP ZRSPCM GW SERVICE SRV, RFP S_EPM_SADI_GW_DEV_SFEN_RO_SRV, Session Time-out Soft State 00:00:00, and Description Standard Mode. The right pane shows the System Aliases table with one entry: LOCAL, Description Local System Alias.

Transaction SICF_INST

Screenshot of SAP GUI showing the ICF Report for Activating Special Service During Installation. It lists various services and their BC-BSP configurations:

Technical Name	BC-BSP
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

Screenshot of SAP GUI showing the Maintain service transaction. It displays a tree view of virtual hosts and services, and a context menu for the 'rspcm_web' service under 'opu'. The context menu includes options like New Sub-Element, Display Service, Delete Service, Rename Service, and Activate Service.

Transaction RSPCM

Screenshot of SAP GUI showing the Monitor List KRAMER of Periodical Process Chains. It lists three process chains: 0TCT C0 FULL P01 (OLAP Cache Statistics - Full), 0TCT C2 INIT P02 (RDA status), and 0TCT C3 INIT DELTA P01 (SAP Netweaver BI Accelerator Statistics). The table includes columns for Status, Chain, Name, Select Include, Date, Time, Time Monitoring, Runtime, and Runtime.

Transaction RSPCM_WEB

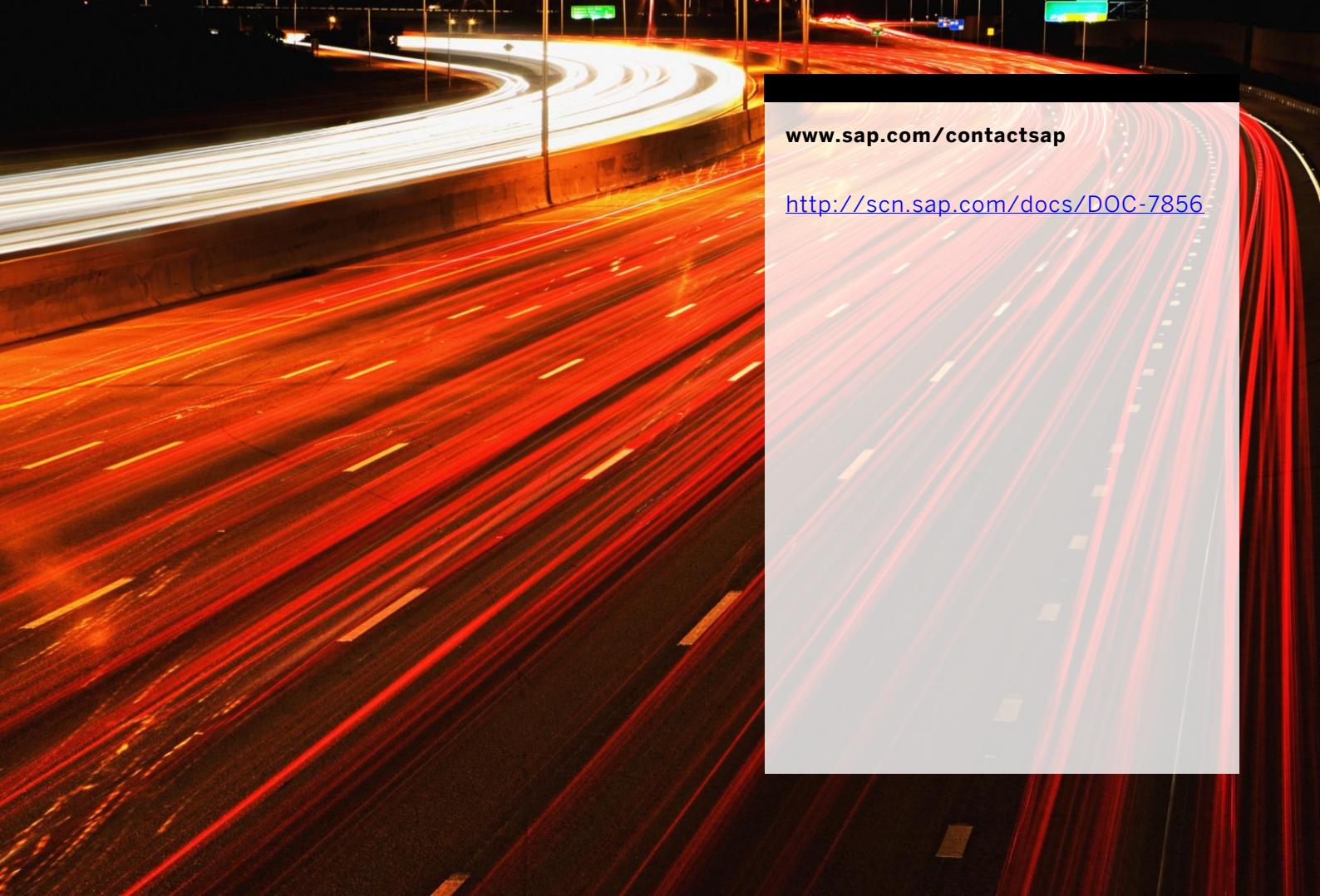
Process Chains				
Search ...				
39 Chains	 10 Failed	 0 Delayed	 0 Active	
S Process Chain (Last Run)	Date	Runtime	Next Start	
 Repair Process Chain for DTP_00A0185ZPDRXBXSFHENGGS060 TRRZFPL20140926100219	Sep 26, 2014, 12:03:40 PM	Runtime OK (01:01:15)	No Delay	
 Repair Process Chain for DTP_00A0185ZPDRX8LZB3ZB7XWQA4 7RRYEPMDS0520140716130931	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 OTCT_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

0.0% select STACK CONFIGURATION FILE	19
0.6% PREP_PRE_CHECKPROFREAD	20
0.9% PREP_PRE_CHECK/SPAMCHK_INI	21
1.2% PREP_INPUT/EXTRACTKRN_PRE	21
1.6% PREP_INPUT/SCANDIR_EXTRACT	22
1.8% PREP_INPUT/MIG2NDBB_INI	23
6.0% - PREP_PARSETUP/SPAU_FILL_LEVEL_DEC	26
6.3% PREP_CONFIGURATION/INITSUBST - END (1)	26
6.3% PREP_CONFIGURATION/INITSUBST - tool configuration	28
7.2% PREP_CONFIGURATION/SUBMOD_MIG_INSTCLIENT/HDB_INSTCLIENT	28
7.2% PREP_CONFIGURATION/SUBMOD_MIG_INSTCLIENT/HDB_INSTCLIENT	29
7.3% PREP_CONFIGURATION/SUBMOD_MIG_CONFIG/HDB_PREPARE	29
7.3% PREP_CONFIGURATION/SUBMOD_MIG_CONFIG/HDB_MIGCONFIG	31
SAP HANA Studio - Lifecycle Management	31
SAP HANA Studio - HDB Connection	31
7.4% PREP_CONFIGURATION/SUBMOD_MG_CONFIG/HDB_PREPARE - DBACOCKPIT	32
7.4% PREP_CONFIGURATION/SUBMOD_MG_CONFIG/HDB_PREPARE - SAPSID	32
8.3% PREP_CONFIGURATION/LANG_SELECT	33
8.3% PREP_CONFIGURATION/LANG_SELECT	33
9.7 % PREP_EXTENSION/UPLOAD_REQUEST	34
10.0 % PREP_EXTENSION/IS_INST	34
10.6% PREP_EXTENSION/EHP_INCLUSION	34
11.1% PREP_EXTENSIONS/IS_SELECT	35
11.1% PREP_EXTENSION/ADDONKEY_CHECK	35
11.1% PREP_EXTENSION/ADDONKEY_CHECK	36
11.2% PREP_EXTENSIONS/IS_SELECT - 2	36
11.2% PREP_EXTENSIONS/IS_SELECT - 3	37
11.4% PREP_EXTENSIONS/BIND_PATCH	37
11.4% PREP_EXTENSIONS/BIND_PATCH - SPAM update	38
11.4% PREP_EXTENSIONS/BIND_PATCH - include change request	38
11.5% PREP_EXTENSIONS/ADDON_LANGINC - DMIS Add-On decision	38
12.2% PREP_EXTENSIONS/CONFLICT_CHECK - Note 889596	39
13.2% PREP_INTERACTION/ADJUSTTPRP	39
14.0% PREP_INSTALL/INITSHD - advanced option	39
14.1% PREP_INSTALL/SHD INST_CPY	40
15.1% PREP_INSTALL/JOB_FILL_TPF_CHK_PHASES - END (2)	40
18.5% PREP_GENCHECKS/JOB_TS_UGR41 - report RSUGRCHECK	41
19.4% PREP_PREPROC/SAVE_VAR_CHK - save variants	41
19.6% PREP_PREPPROC/SUBMOD_MIG_BI_TASKS_PREP/MIG2NDBB_HANA_BW_PARAMS	41
Edit table RSADMINA - select BEX REQUEST to delete	42
20.0% PREP_PREPPROC/REQ_ASU_RUN - start ASU toolbox	43
Transaction /ASU/UPGRADE	43
20.1% MAIN_INIT-BEGIN - END (3)	43
21.1% MAIN_INIT/REPACHK1 - check open transports	44
22.3% MAIN_INIT/LOCKEU_PRE - lock development environment	44
24.8% MAIN_SHDCRE/EU_IMPORT2 - R3trans depending	44
25.0% MAIN_SHDCRE/SHADOW_IMPORT_UPG1 - R3trans depending	45
35.0% MAIN_SHDRUN/SUBMOD_DIFFEXP/ADJUSTCHK_UPG	45
36.1% MAIN_SHDRUN/DDIC_UPG - R3trans depending	45
37.0% MAIN_SHDRUN/ACT_UPG - Batch Process depending (SHD)	45
40.9% MAIN_SHDRUN/ACT_UPG - use DDIC/000/SHD	46

37.0% MAIN_SHDRUN/ACT_UPG - adjustments made, continue with procedure	46
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