

Mastering SAP S/4HANA Migration: Realize Phase

Prep your systems
for software upgrade
manager



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Introduction

In this ebook, we delve into the crucial “Realize” phase of the migration process. Building upon the foundation established in the ***previous ebook***, we explore the practical steps and invaluable insights required to successfully navigate this pivotal stage. From optimizing system configurations to implementing cutting-edge features, this guide equips you with the knowledge and strategies necessary to realize the full potential of your SAP S/4HANA migration. Join us on this transformative journey as we unlock the power of SAP’s next-generation business suite.

Upon completion of the preparatory stage, consultants commence their collaboration with the Software Update Manager (SUM) tool, designed to facilitate the conversion of the system into SAP S/4HANA. Prior to engaging with the SUM tool, consultants may have already conducted the necessary tasks using the Maintenance Planner. The stack.xml file, which is generated by the Maintenance Planner, serves as a crucial input for the SUM tool.

SUM Pre-steps

- 1 Client 066 is the Early Watch client which was set up during the installation of your system. It is not used in S/4HANA, it must be removed before beginning the conversion.
- 2 The standard installation also setup the Client 001. You need to remove it before you start the conversion.
- 3 Dual-stack systems are AS ABAP + AS Java combined in one system. They are not supported for conversion. You have to split it before doing the conversion.
- 4 To split you can use the (1) Keep DB option, (2) Move DB option or (3) Remove Java Stack only.
- 5 Uninstall SAP Fiori Application via SAINT Tcode if there is in the ECC System.
- 6 Also need to check other pre check SUM conversion and DMO guidelines.



Software Update Manager (SUM) - The Introduction

- SUM is the toolset for software related changes in a SAP system (i.e. upgrades, Support Package Stacks, Enhancement Packages, and conversions to SAP S/4HANA)
- In the SAP S/4HANA context, it is used to either install or update SAP S/4HANA components in a system already running on SAP HANA (i.e., Suite on HANA or SAP S/4HANA Finance) and perform the logistic conversion routines.
- In a multi-phased project, SUM can also be used to update the source software level in preparation for a HANA migration.
- The SUM has six steps—Extraction, Configuration, Checks, Preprocessing, Execution, and Postprocessing
- Note that from the Execution step, you can consider it as downtime until you close the Conversion Cockpit.

Database migration option of Software Update Manager (DMO of SUM)

- DMO is a use case of the Software Update Manager used to consolidate the technical steps, complexity, and downtime of a combined software change and SAP HANA migration
- Implement and/or update SAP S/4HANA software components while migrating to SAP HANA in a single step when the source is Unicode.
- Alternatively, upgrade, Unicode convert (if target < 7.50), and migrate an existing system to SAP HANA in a single step, when the source is a single codepage non-Unicode system.

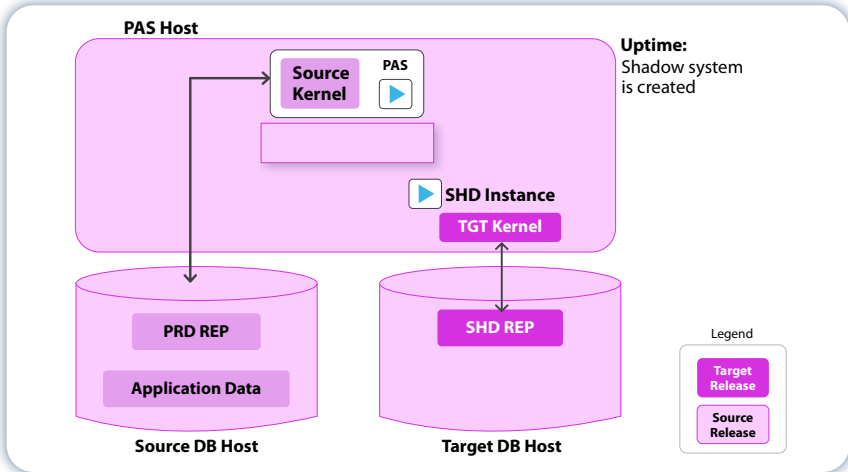
Conversion tasks for SUM

Software update : Provide new applications and new tables

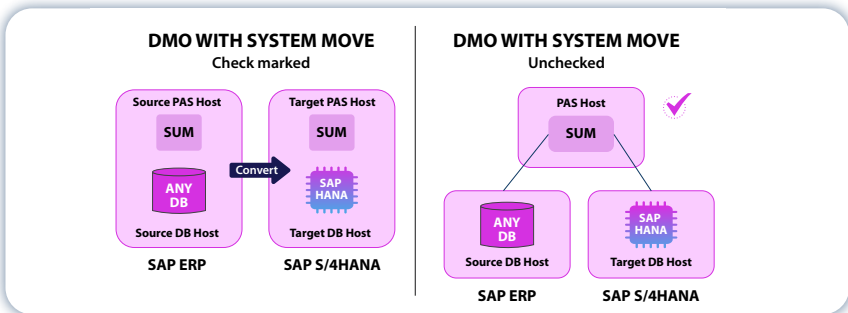
Data conversion : Conversion of table content to new data model

Database migration : Migrate to SAP HANA database (if required)

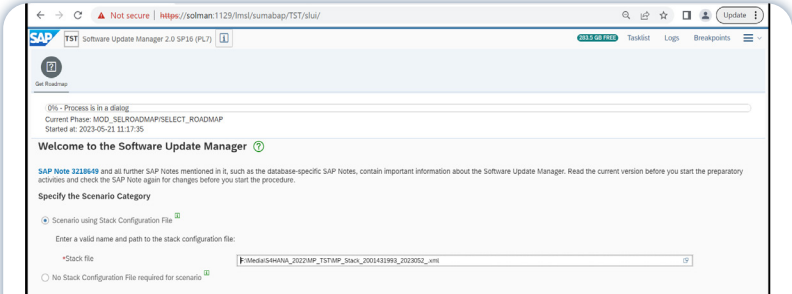
DMO targeting 1909+ : Shadow Repository created on Target Database



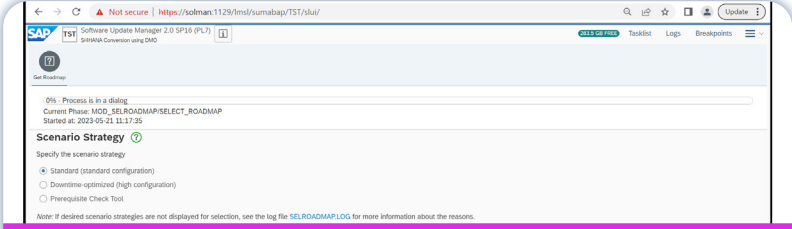
The below scenario of DMO with System move is used when you move from one host to another for hardware change, TDI or VM within the same data center. It is also used to move from one data center to another or from On-Prem to Cloud (IAAS). This scenario requires new installation of S/4HANA on target prior to SUM.



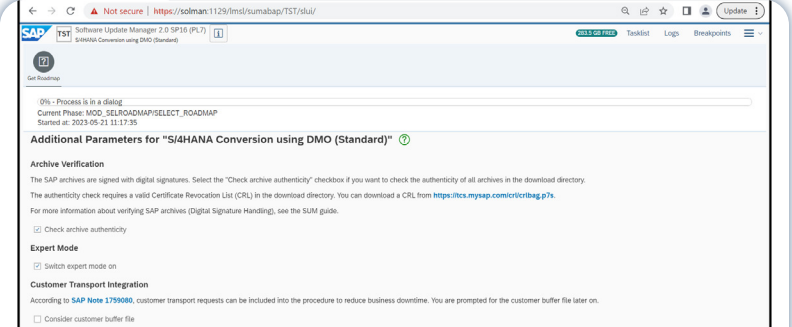
Software Update Manager (SUM) - The Execution



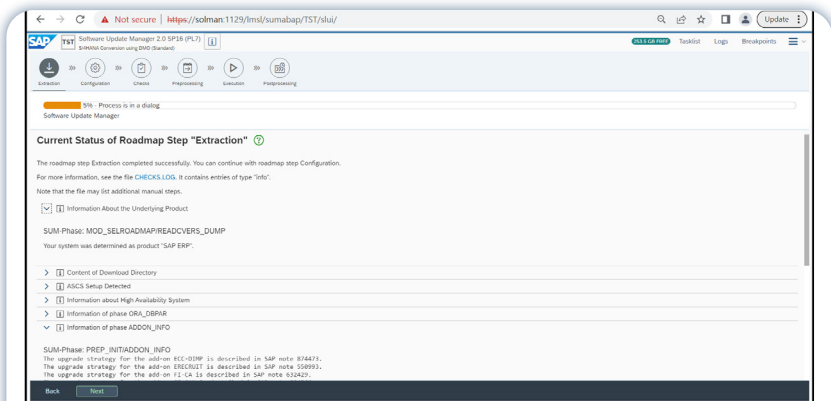
Beginning the Software Update Manager Execution



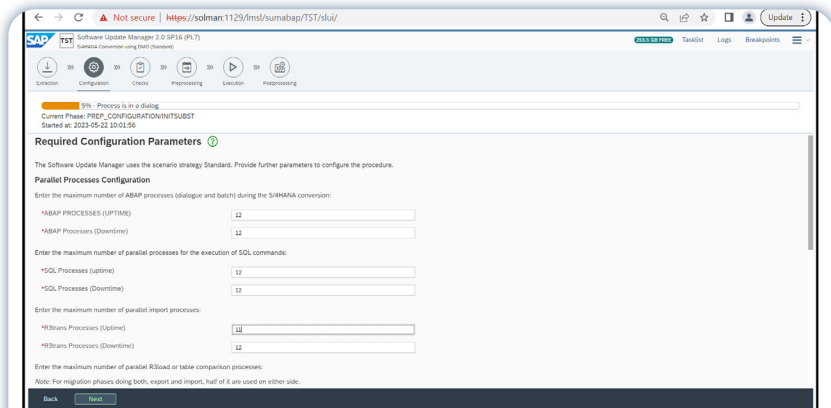
The Scenario Strategy



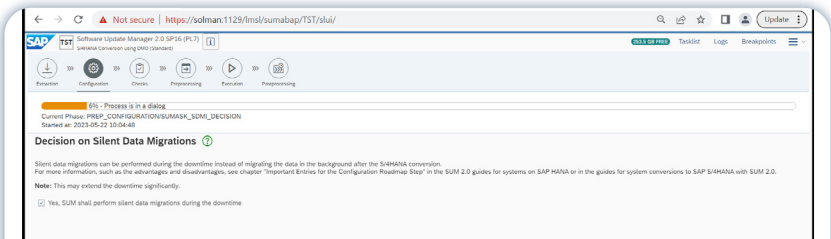
Additional Parameters for S/4HANA Conversion using DMO(Standard)



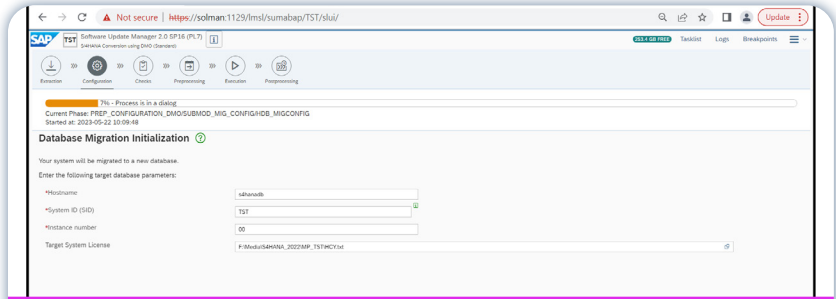
Status of the Roadmap Step 'Extraction'



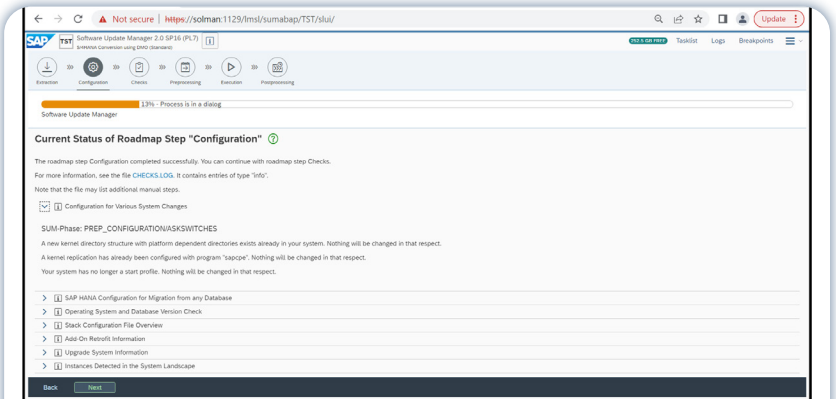
Required Configured Parameters



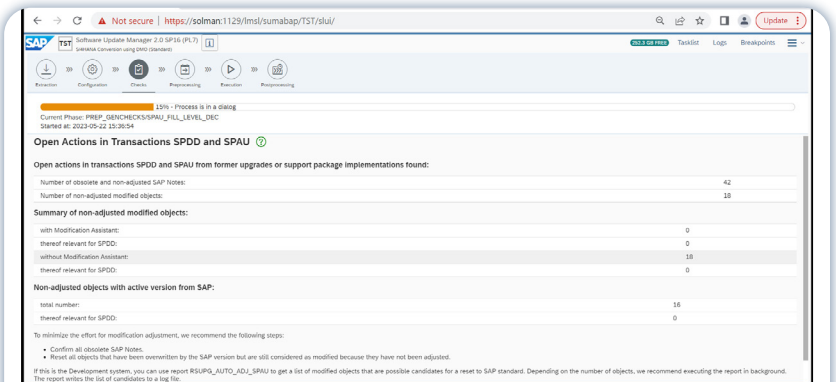
Decision on Silent Data Migrations



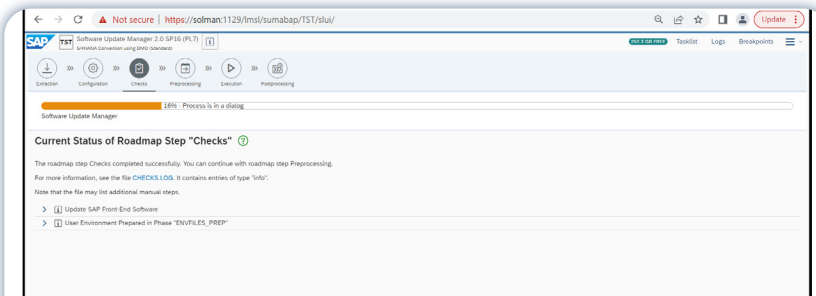
Database Migration Initialization



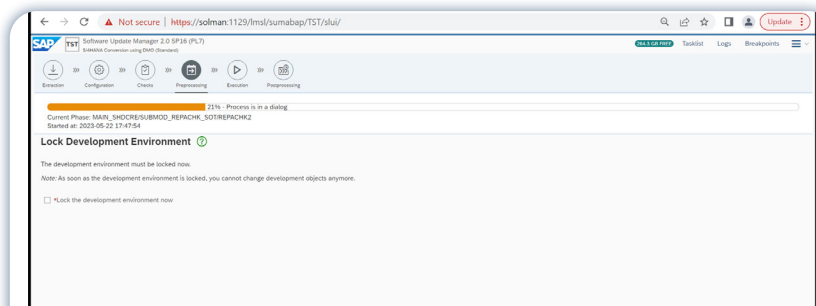
Status check of Roadmap Step 'Configuration'



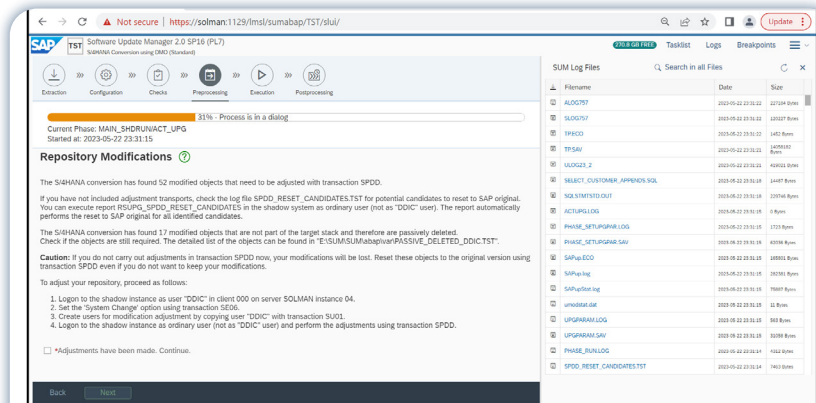
Open Actions in SPDD and SPAU



Status check of Roadmap Step 'Checks'



Lock Development Environment



Repository Modifications

When is the SPDD activity completed?

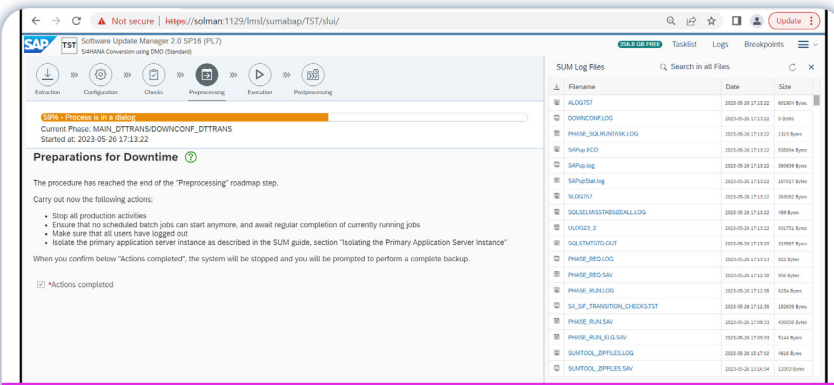
At the beginning of the SUM procedure, the ABAP consultants will take care of the SPDD modification adjustment.

How Do Users Know When SUM Reaches Downtime and What Activities Will Be Done by the Administrator?

When SUM reaches downtime, the consultant who runs SUM will notify the business users and other consultants working on the project, lock all users, stop batch jobs, stop all interfaces to avoid dumps, and so on. They also do some other activities and ramp down activities as specified in the SUM and conversion guides. They also take backup at this stage. That way, they will be able to go back to this stage if they make any errors. You must educate users not to log on during this downtime phase. As soon as SUM completes, users cannot post transactions. The Conversion Cockpit preparation and data migration must first be completed. If not, you'll get a similar error.

When will the SPAU Activities be done?

The SPAU modification adjustment will be done at the end of the SUM.



The screenshot shows the SAP Software Update Manager (SUM) interface. The browser address bar indicates the URL: <https://solman:1129/ims/sumabap/TST/sui/>. The interface displays the current phase as 'MAIN_DTRTRANS/DOWNCONF_DTRTRANS' and the start time as '2023-05-26 17:13:22'. A progress bar shows the process is in a 'downtime' state. The 'Preparations for Downtime' section lists the following actions:

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

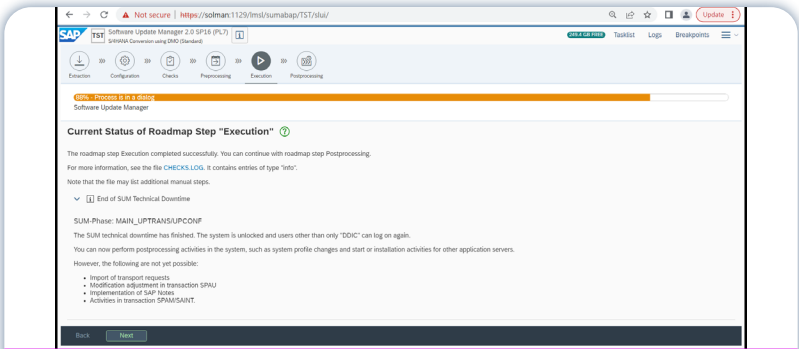
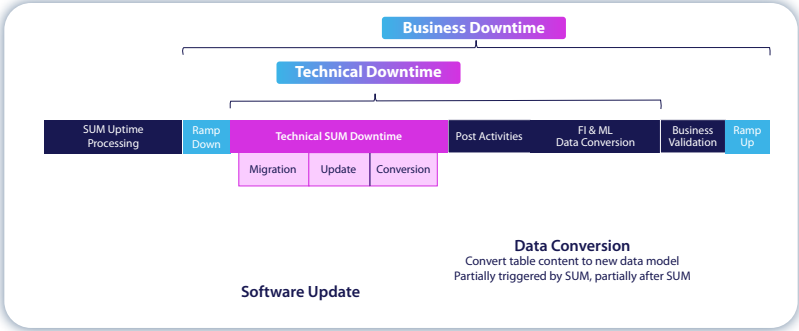
When you confirm below "Actions completed", the system will be stopped and you will be prompted to perform a complete backup.

"Actions completed"

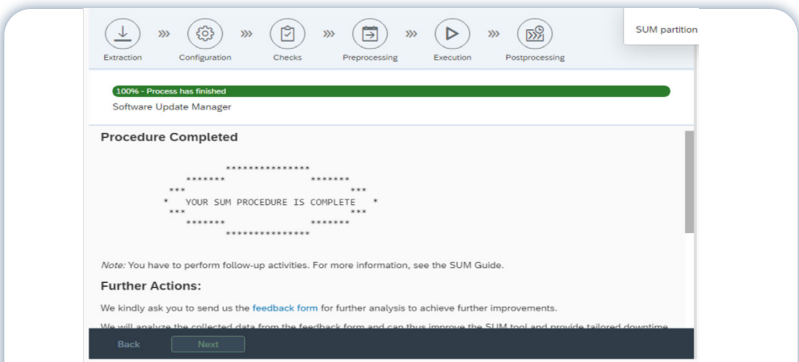
The 'SUM Log Files' table on the right side of the interface lists the following files:

Filename	Date	Size
ALOG23T	2023-05-26 17:13:22	40281 Bytes
DOWNCONF.LOG	2023-05-26 17:13:22	19 Bytes
PHASE_RUNJOBLOG	2023-05-26 17:13:22	1201 Bytes
SAPJOBCTL	2023-05-26 17:13:22	105864 Bytes
SAPjob.log	2023-05-26 17:13:22	39028 Bytes
SAPjobflex.log	2023-05-26 17:13:22	107017 Bytes
SLG023U	2023-05-26 17:13:22	202961 Bytes
SOLSELMSTRPROBEALL.LOG	2023-05-26 17:13:22	189 Bytes
UO023_2	2023-05-26 17:13:22	101754 Bytes
ISQ_STATSTO.OUT	2023-05-26 17:13:22	519687 Bytes
PHASE_RES.LOG	2023-05-26 17:13:22	102 Bytes
PHASE_RUN.SAV	2023-05-26 17:13:22	194 Bytes
PHASE_RUN.LOG	2023-05-26 17:13:22	1254 Bytes
SL_SF_TRANSTO_CHECKST	2023-05-26 17:13:22	126268 Bytes
PHASE_RUN.SAV	2023-05-26 17:09:33	40008 Bytes
PHASE_RUN.SAV	2023-05-26 17:08:15	1244 Bytes
SUMTOOL_DMPFILES.LOG	2023-05-26 18:57:12	1618 Bytes
SUMTOOL_DMPFILES.SAV	2023-05-26 13:58:14	1300 Bytes

Conversion Steps with Focus on Technical Downtime



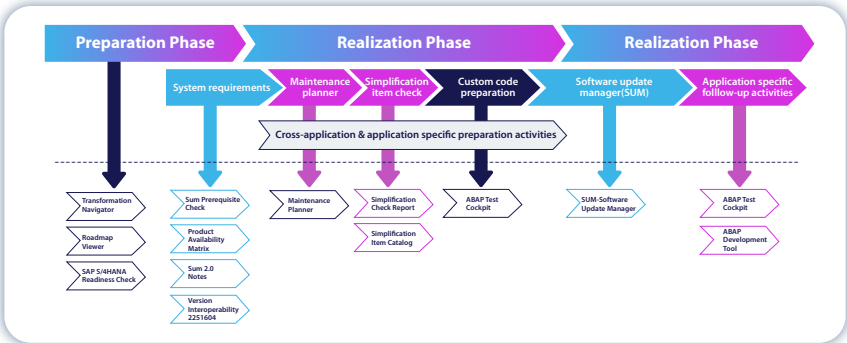
Status check of Roadmap Step 'Execution'



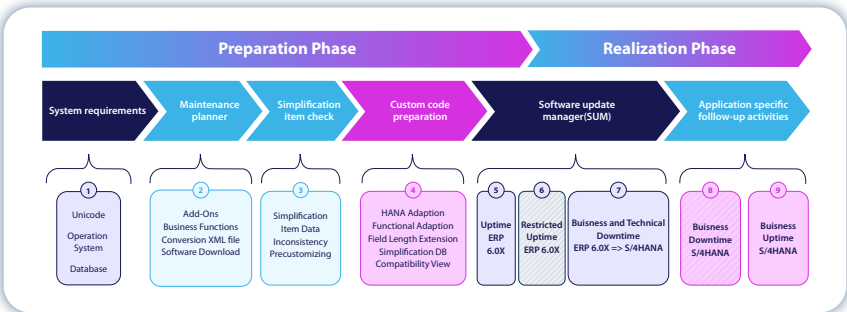
Completion of the procedure

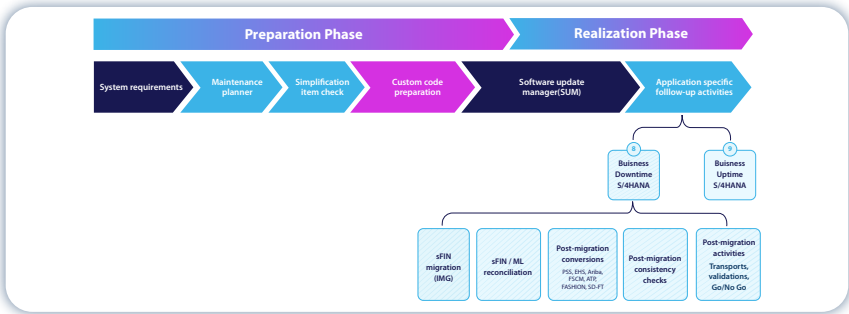
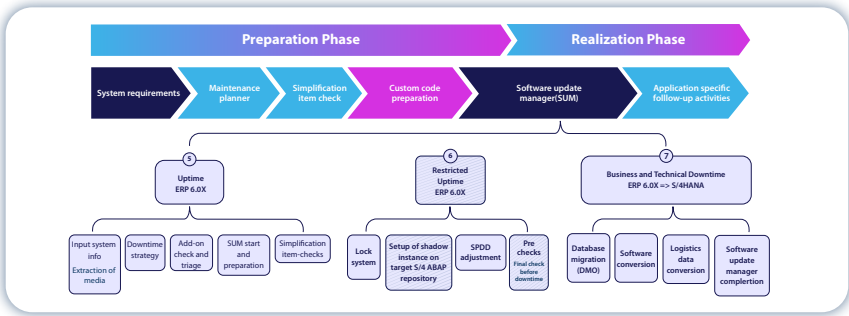
After post-processing, you can consider that SUM ends after the end of the technical downtime. But in conversion projects, after SUM, you cannot release the system for user activity, as Finance Consultants have to prepare the system for conversion and do the data migration. Post-migration activities can be done during uptime. But the ideal way is for users to not work. So, after post processing, business downtime is not finished. Users should remain locked until data migration is completed. After post processing, we will complete SUM and start preparations on SAP S/4HANA system for executing the conversion of accounting to SAP S/4HANA.

Tool used during SAP system conversion

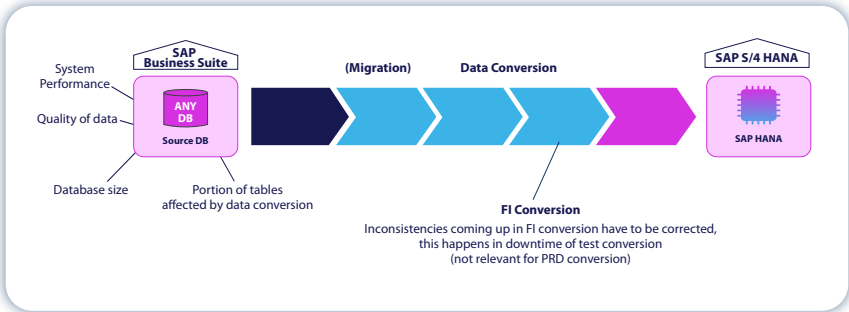


Tasks that are required to be performed





Properties of the Source System that Impact the Technical Downtime





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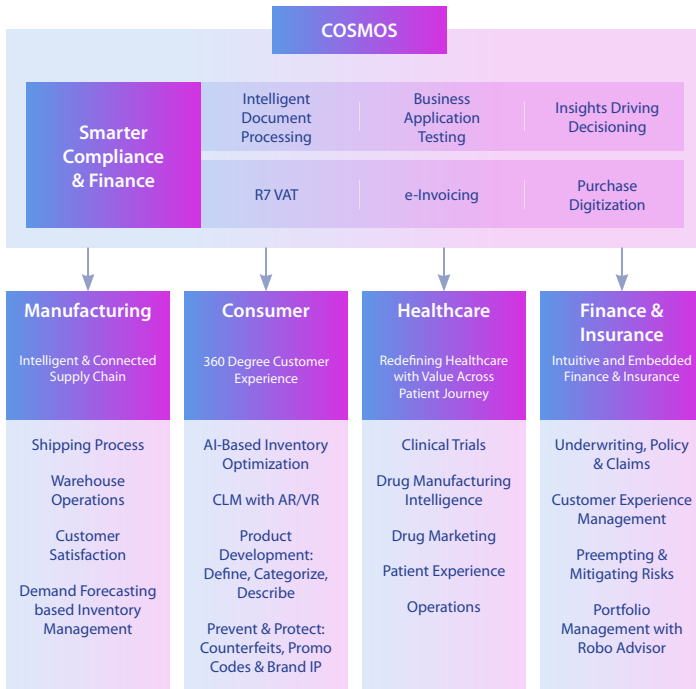
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