Mastering SAP S/4HANA Migration: Realize Phase

Prep your systems for software upgrade manager

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Contents

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.
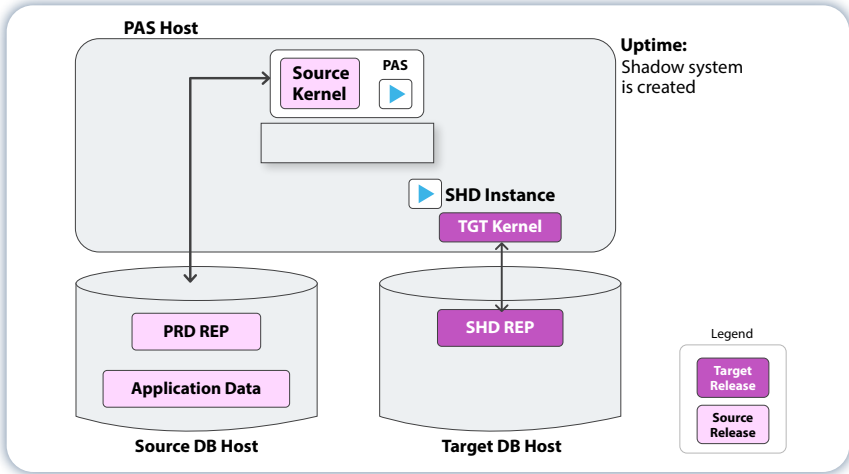
Conversion tasks for SUM

**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.
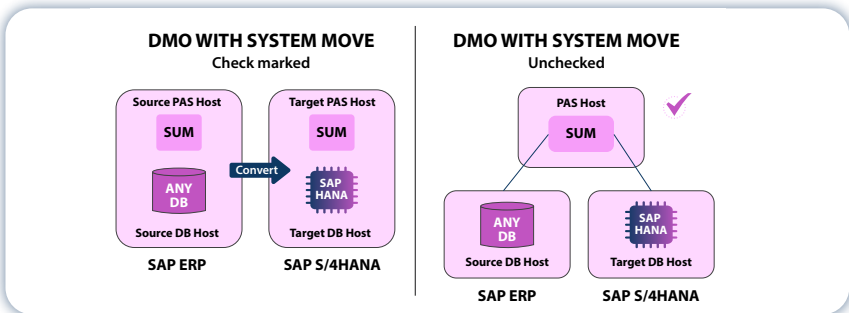
Software Update Manager (SUM) -
The Execution

Beginning the Software Update Manager Execution

The Scenario Strategy

Additional Parameters for S/4HANA Conversion using DMO(Standard)
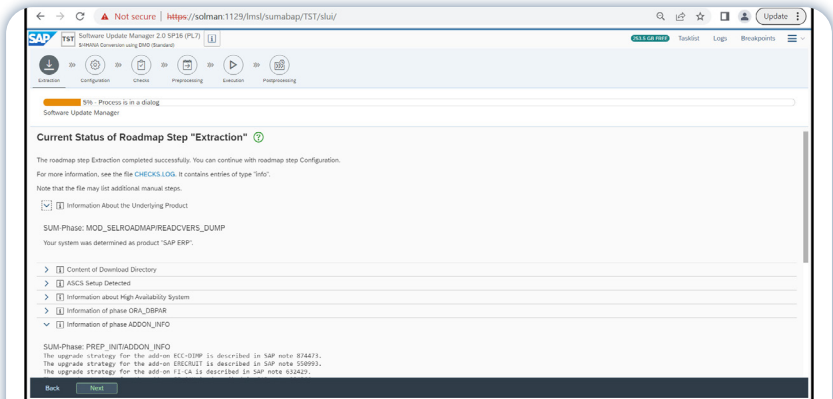
Status of the Roadmap Step 'Extraction'
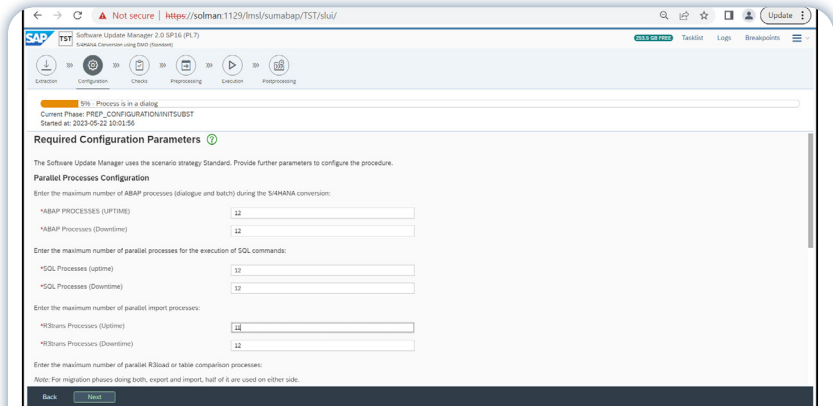
Required Configured Parameters
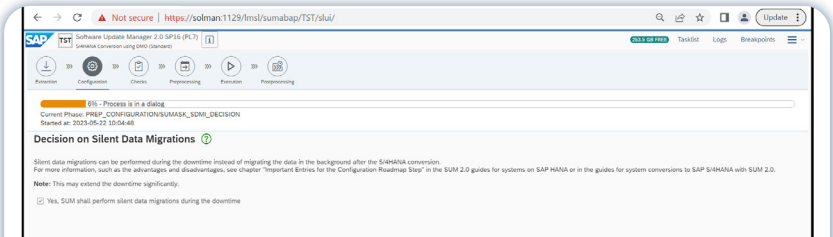
Decision on Silent Data Migrations

Database Migration Initialization

Status check of Roadmap Step 'Configuration

Open Actions in SPDD and SPAU

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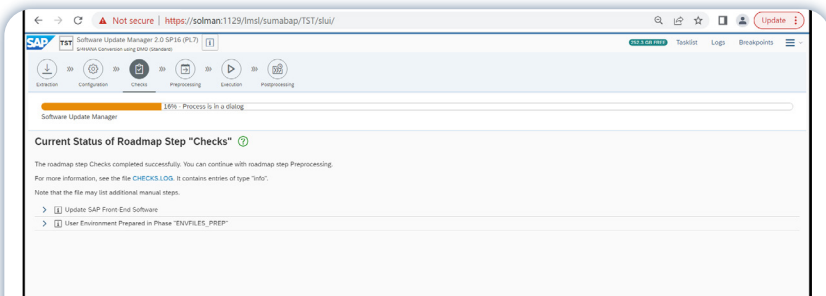
Status check of Roadmap Step 'Checks'
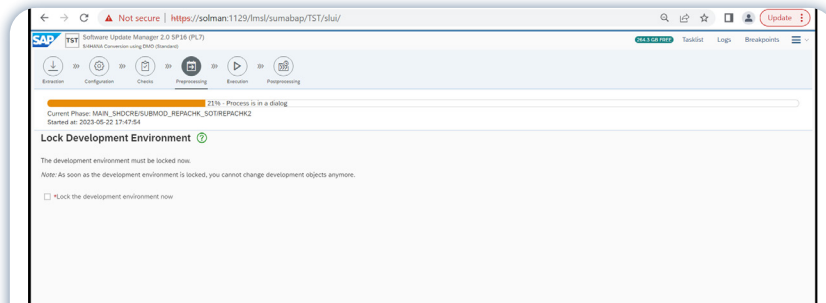
Lock Development Environment
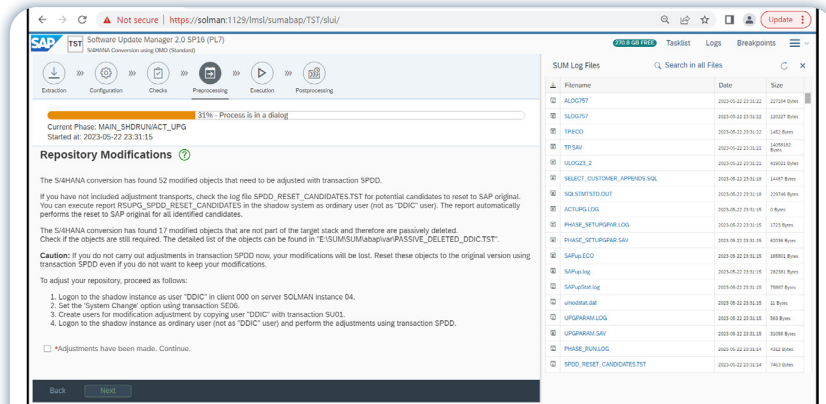
Repository Modifications

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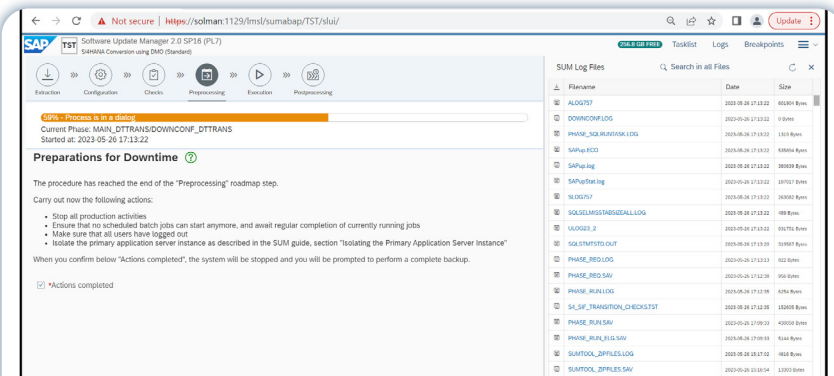
When is the SPDD activity completed?

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.

Preparations for Downtime

Conversion Steps with Focus on Technical Downtime
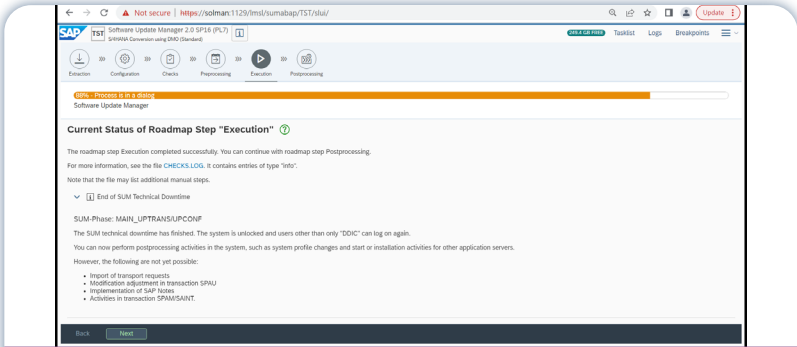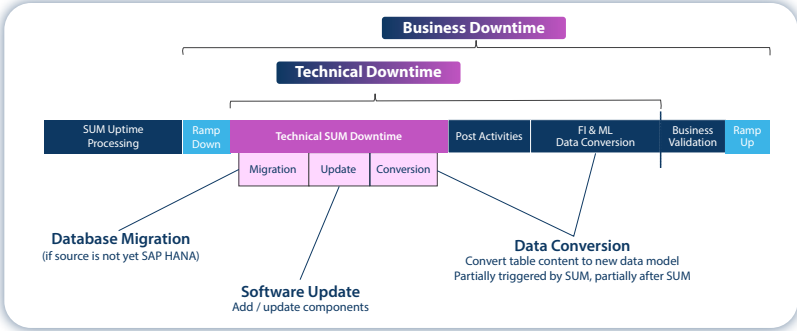
Status check of Roadmap Step 'Execution'
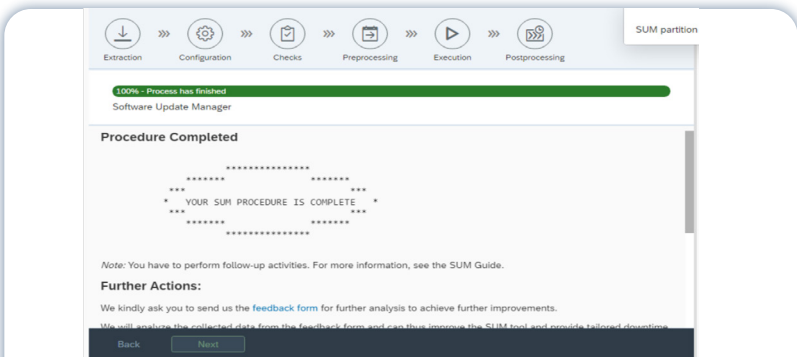
Completion of the procedure

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
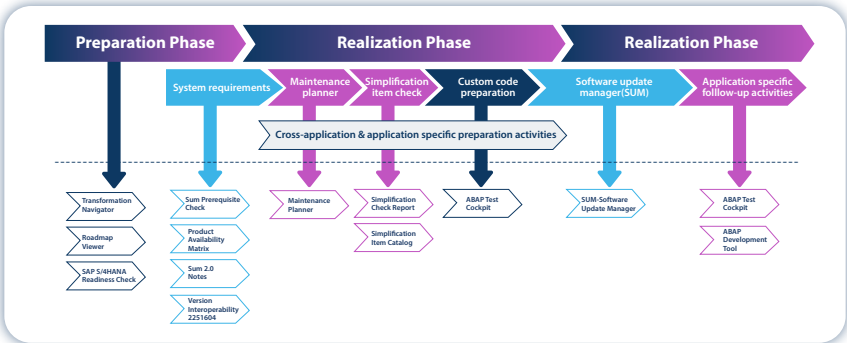
Tasks that are required to be performed

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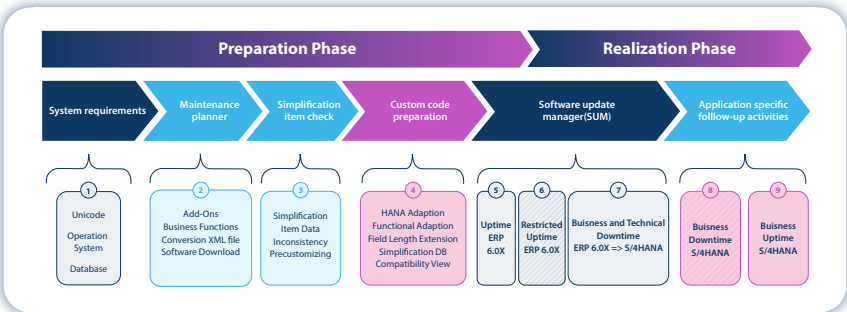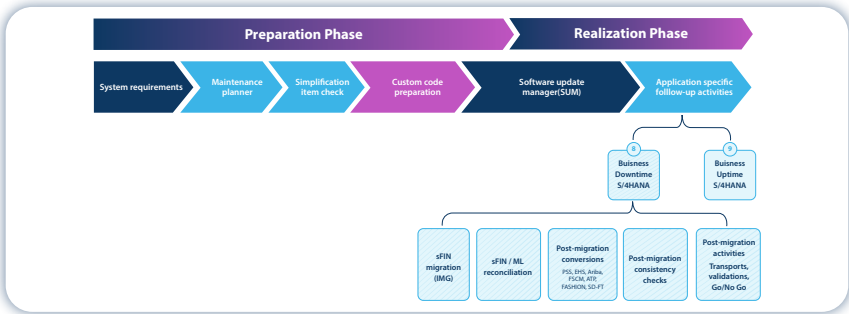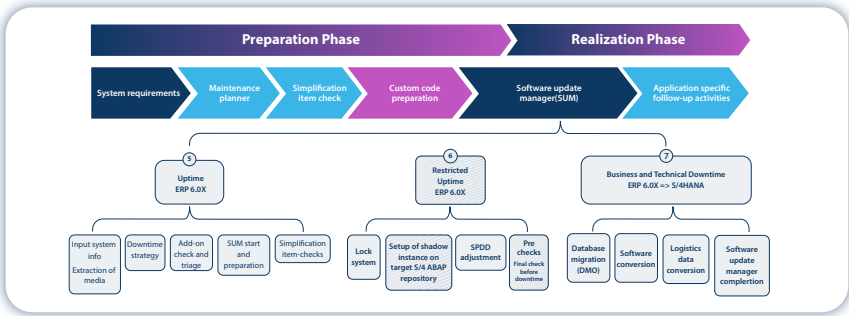
Properties of the Source System that Impact the Technical Downtime

System Performance

Quality of data

Database size

Portion of tables affected by data conversion

SAP Business Suite

ANY DB

Source DB

(Migration)   Data Conversion

SAP S/4 HANA

SAP HANA

FI Conversion
Inconsistencies coming up in FI conversion have to be corrected,
this happens in downtime of test conversion
(not relevant for PRD conversion)

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We hope this comprehensive guide has provided you with valuable insights, practical tips, and a deeper understanding of this critical stage. Armed with this knowledge, you are now equipped to navigate the complexities of the migration process, optimize system configurations, and unlock the true potential of SAP S/4HANA. Remember, successful migration requires careful planning, collaboration, and continuous learning. Embrace the possibilities that lie ahead as you embark on this transformative journey towards a digitally empowered future.

Realize the potential of digital economy with *SAP S/4HANA*

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