SUM: the tool for
System Conversion to SAP S/4HANA

Knowledge for you
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Knowledge Transfer Sessions on Software Update Manager (SUM)

✓ (delivered*) "Software Update Manager: Overview and Scenarios"

➢ (delivered*) "SUM: downtime optimizations like nZDM, ZDO in detail"

➢ (delivered*) "Database migration as part of SUM: DMO overview and tuning"

➢ Today "SUM: the tool for System Conversion to SAP S/4HANA"

* See https://webinars.sap.com/sap-user-groups-k4u/en/CrossTop
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Agenda SUM for System Conversion

What is System Conversion?
- What use cases? Which kind of systems?

How does it work?
- Procedure details

What is the role of SUM?
- Aspects for technical conversion procedure
System Conversion: approach for a transition to SAP S/4HANA

- **System Conversion** is one approach to transition an SAP ERP System to SAP S/4HANA
- **Software Update Manager** (SUM) is the tool for the *technical* conversion execution
- “Conversion”:
  - SAP S/4HANA is a new product family
  - Technical process requires additional conversion tasks (compared to an upgrade)
Transition to SAP S/4HANA
Three different approaches to move to SAP S/4HANA

**System Conversion**
- SAP ERP System ➔ On-Premise
- SAP S/4HANA

**New Implementation**
- SAP ERP or 3rd-party System ➔ On-Premise
- SAP S/4HANA Cloud

**Landscape Transformation**
- SAP ERP System Region A ➔ On-Premise
- SAP ERP System Region B
- SAP ERP System Region C
- SAP S/4HANA

**Bring your business processes to the new platform**
- A complete technical in-place conversion of an existing SAP Business Suite ERP system to SAP S/4HANA.
- Adopt new innovations at your speed

**New implementation / re-implementation**
Reengineering and process simplification based on latest innovations
- Implement innovative business processes with best-practice content on a new platform
- Perform initial data load
- Retire old landscape

**Value driven data migration to the new platform**
e.g. consolidation of current SAP Business Suite landscape into one global SAP S/4HANA system or selective data migration based on legal entities

SAP Community Blog: How to find my path to SAP S/4HANA
The SAP S/4HANA family and conversion paths

SAP Business Suite
(e.g. BS7i2013)

SAP ERP System
(on AnyDB)

or

SAP ERP System
(on SAP HANA)

SAP S/4HANA family

SAP S/4HANA Cloud

SAP Simple Finance 1503
SAP S/4HANA Finance 1605

SAP S/4HANA
1511 | 1610 | 1709
SAP S/4HANA
Simplified data model

SAP ERP

Finance

Inventory Management

Material Ledger

Sales & Distribution

SAP S/4HANA

Transactionable and master data

Materialized aggregate, history and index tables
**SAP S/4HANA**

System Conversion – Transition Paths Overview

The transition to SAP S/4HANA does **not** require the source system to be already on SAP HANA Database.

**System Conversion Paths (basically)**

*From* SAP Business Suite (ERP6.0, EHP xx, Any DB or SAP HANA DB) *to* SAP S/4HANA 1709 SPS00

- **Note 1**: For older SAP Business Suite releases or systems on Non-Unicode an additional step to SAP ERP 6.0 EHPxx is required.

- **Note 2**: System has to be an AS ABAP-only system. Dual-stack systems (AS ABAP and AS Java combined in one system) are not supported for the conversion. If your system is as dual-stack system, you have to split it before doing the conversion.

- **Note 3**: SAP Suite on HANA customers who are planning a system conversion to SAP S/4HANA 1709 should first update the database from SAP HANA 1.0 to SAP HANA 2.0 and then do the system conversion (either in the same or a separate downtime).

Conversion requirements incl. min./max. SP-level on source system:

- 2482453 - SAP S/4HANA 1709: Release Information Note
- 2346431 - SAP S/4HANA 1610: Release Information Note
SAP S/4HANA system conversion
Overview technical process steps

Preparation phase
- Maintenance planner
- Pre checks
- Custom code preparation

Realization phase
- Software Update Manager (SUM)
- Application specific follow-up activities

Cross-application & application specific preparation activities

Simplification List
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SAP S/4HANA System Conversion Tools

➢ **System Requirements**
  Source: ABAP only, Unicode, SAP ERP 6.0, on any database type

➢ **Maintenance Planner**
  Checking source system (e.g. Add-Ons), planning conversion (software archives & stack.xml)

➢ **Simplification Item Checks**
  Checking business prerequisites (e.g. Business Partner implementation)

➢ **Custom Code preparation**
  Checking and adapting Custom Code for compatibility with new data model

➢ **Technical Conversion (SUM)**
  Apply new software, execute conversion into new data model

➢ **Post-Activities**
  Implement Fiori Apps
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SAP S/4HANA
System conversion: technical Conversion by Software Update Manager (SUM)

- Technical Conversion executed by Software Update Manager (SUM) 2.0

- Conversion tasks for SUM:
  - **Database migration**
    Provide SAP HANA database (if required)
  - **Software update**
    Provide new applications and new tables
  - **Data conversion**
    Conversion of table content to new data model
Technical Conversion – SUM Standard approach (high level)
Best Practices for Data Conversion

Things you should know about the data conversion:

• data conversion is performed by several ABAP reports
• some of these reports will run in parallel processes
• SAP is continuously improving those reports to increase performance and to reduce the runtime.

▪ Make sure your system has at least:
  • minimum of 20 dialog processes (some reports can use 30 at max, others have no limitation)
  • minimum of 16 batch processes

▪ For more details see:
  SAP Note: 2351294 - SAP S/4HANA conversion: optimize parallel execution of conversion reports
SUM Prerequisite Check provided with SUM 2.0

Allows quick and non-invasive check for requirements, e.g.:

- Source OS version
- Source database version
- SPAM patch level

Uses different URL
(\texttt{chktool} instead of \texttt{sumabap})

See SUM Conversion Guide, available at
http://support.sap.com/sltoolset
3 Approaches for System Conversion to SAP S/4HANA

- **Standard approach** using Software update Manager (SUM) with several optimizations

- **Downtime optimized System Conversion** uses SUM as well, and reduces downtime by moving data conversion partly to uptime

- **Near Zero Downtime Technology (NZDT)** Customer specific approach allows further reduction of downtime based on a service project

Decision about approach depends on several factors and should be taken after a migration planning workshop together with SAP.

**Downtime-optimized Conversion:** currently only for source db non-HANA

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SAP S/4HANA System Conversion
Downtime-optimized Conversion approach

Downtime-optimized Conversion: Conversion partially in uptime for
- FIN and Material Ledger (MM-ML) & Inventory Management (MM-IM)
- KONV and VBFA tables
Further Information for System Conversion

- SAP Note 2532587 on System Conversion with SUM
- SUM Conversion Guide see [support.sap.com/sltoolset](https://support.sap.com/sltoolset)
- DMO with SUM 2.0 SP 01 [https://launchpad.support.sap.com/#/notes/2532577](https://launchpad.support.sap.com/#/notes/2532577)
Thank you.

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