SAP S/4HANA System Conversion Overview

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Agenda

1. Conduct SAP S/4HANA Readiness Check
2. System Conversion Overview
Conduct SAP S/4HANA Readiness Check
A holistic system analysis is the foundation for further planning steps toward a successful and smooth SAP S/4HANA system transition.

- The SAP Readiness Check for SAP S/4HANA summarizes the most important aspects of the conversion in an easily consumable way.
SAP Readiness Check for SAP S/4HANA – Two Options Available

There are two options to perform the SAP Readiness Check for SAP S/4HANA:

1. If you have a SAP Solution Manager 7.1 SPS 12 or higher or SAP Solution Manager 7.2 SPS 3 or higher, following the instructions below is recommended, but you could also use the second option.
2. If your SAP Solution Manager does not fulfill the prerequisite, or do not have SAP Solution Manager, or due to security reason, there is no open connection from your SAP Solution Manager to SAP Support Portal, or your SAP Solution Manager is not well configured, follow the instructions of SAP Note 2310438.

2290622 for SAP Solution Manager

Preferred

2310438 for ERP system directly
System Conversion Overview
SAP S/4HANA
The Conversion Process

Prepare Phase

- t1: System Requirements
- t2: Maintenance Planner
- t3: Pre-Checks*
- t4: Custom Code Migration

Realize Phase

- t5: Software Update Manager (SUM)
- t6: Cross-app & app-specific follow-on activities**

Simplification List

SAP S/4HANA

*Incl. Preparation of Financial Data

**Incl. Migration of Finance Customizing and Data

Link

System Conversion At A Glance

SAP S/4HANA System Conversion

The SAP S/4HANA System Conversion is the scenario to be chosen if a customer wants to change their current SAP ERP system into a SAP S/4HANA system. Based on the offered building technical the SAP S/4HANA software is installed, the database is migrated to SAP HANA database (if not already done and transfer data from old data structure into new S/4HANA data structure or migrate data into the new MM/DS/CO table in one-step).
SAP S/4HANA system conversion
Overview technical process steps

Preparation phase
- System requirements
  - Maintenance planner
  - Pre checks
  - Custom code preparation
  - Cross-application & application specific preparation activities

Realization phase
- Software Update Manager (SUM)
  - Database migration
  - Software update
  - Data conversion

Application specific follow-up activities

Preparation phase
- System requirements

Realization phase
- Software Update Manager (SUM)

Simplification List

Pre-Transformation-Checks
- Uptime Processing
- Uptime Processing (dev lock)

System update (SHD) & migration
- Shadow System

System update (Application data)
- Table replacement: AIM / XPRAS, SPAU

Data Conversion (FIN, ML)

Data Migration
- Post Processing
- Uptime

Uptime Processing

Downtime Processing
**SAP S/4HANA system conversion**

### Sample Mock Process

#### Preparing the System

<table>
<thead>
<tr>
<th>Customer Activities</th>
<th>Project Team executes Pre-Check Tasks</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUM Phases</td>
<td>Extraction, Configuration, Checks, Preprocessing</td>
</tr>
</tbody>
</table>

- **Impact to Business**
  - Business Uptime
  - Quiet Time and Ramp Down
  - Business Downtime

- **SUM Phases**
  - Basis Conducting SUM of DMO uptime
  - User lockout and ramp-down business operation
  - Functional Prep before downtime start
  - Basis conducting SUM of DMO downtime
  - Fin Migration
  - Validations

**This is where the customer will execute the Pre-Checks:**
- R_S4_PRE_TRANSITION_CHECKS (1511/1610)
- /SDF/RC_START_CHECK (1709)
- RASFIN_MIGR_PRECHECKS
- FINS_MIG_PRECHECK_CUST_SETTINGS

#### Realizing the Transition

- **Realization phase**
  - Basis Conducting SUM of DMO uptime
  - User lockout and ramp-down business operation
  - Functional Prep before downtime start
  - Basis conducting SUM of DMO downtime
  - Fin Migration
  - Validations

- **During the Configuration roadmap step in SUM tool executes the program R_S4_PRE_TRANSITION_CHECKS (1511/1610) or /SDF/RC_START_CHECK (1709) and ensures all errors are resolved before it will continue.** If you want to ensure you run the same way as SUM, run the program in client 000 in background.

- **Run report** PRECHECK_UPGRADATION_REPORT **to ensure no synchronization errors are present**

- **Use the Converting Your Accounting Components to SAP S/4HANA guide found in Note 2332030 - Conversion of accounting to SAP S/4HANA** for steps:
  - Check and Reconcile Your Data
  - Period-End Closing Activities
  - Document Your Posting Data
SAP S/4HANA – System Conversion
APPROACH – A BIG PICTURE Example Only (4 TIER LANDSCAPE)
SAP S/4HANA – System Conversion
Steps & Details

1. Create ERP Sand Box using Production Data
2. Prepare Phase in Sand Box System – Maintenance Planner, Pre-Check, Custom Code Check and Analysis and Application Preparation
   - As a best practice **stack file for all the system in landscape should be created on the same day** as there are solution updates happening very frequently in the maintenance planner
   - Customer does practice and capture learning of System Conversion steps involved
   - Estimate time taken for the different steps involved in System Conversion
   - Effort Estimate matrix – Resource – Basis, Functional and Development
   - Detail project planning of System conversion of customer landscape
   - Customer should be aware that when approaching the ERP Development system conversion, ERP Development system will not be available for fixes to be carried in current ERP Production system (Customer Code Freeze)
   - Project to categorize data inconsistency tasks and conduct cleanup in productive landscape
4. Prepare Phase in Development System – Maintenance Planner, Pre-Check, Custom Code Check and Analysis and Application Preparation, Release Transport requests from ERP Development system
6. Carry out a Refresh of Production data into the Quality System
7. Import Pre-Check Transport Requests in ERP Quality environment. Prepare Phase in Quality System – Maintenance Planner and Pre-Check. Application Preparation Processing
   - Customer should be aware that when approaching the ERP Quality system conversion, ERP Development and ERP Quality system will not be available for fixes to be carried in current ERP Production system (Customer Code Freeze)
8. Realize phase – SUM- Data Migration, Software Update, Data Conversion, Import FIN preparation transports and FIN data migration, Post processing and application follow-up tasks for system conversion
10. Import Pre-Check Transport Requests in ERP Production environment. Prepare Phase in Production System – Maintenance Planner and Pre-Check. Application Preparation Processing
11. Realize phase – SUM- Data Migration, Software Update, Data Conversion, Import FIN preparation transports and FIN data migration, Post processing and application follow-up tasks for system conversion
   - Any Miss-match found between configuration and development objects between S4HANA Development System and S4HANA Quality system should be redone in S4HANA Development system and transport requests should be generated for same all the way into S4HANA Quality and Production system
   - Testing in S4HANA solution with/without Fiori need to be done extensively by Customer Users in different systems
SAP S/4HANA – System Conversion
Dual Maintenance – A BIG PICTURE Example Only (4 TIER LANDSCAPE)
Thank you.

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