

# SAP S/4HANA Conversion

A Guide to Executing and Simplifying  
Your Conversion

—

Ravi Surya Subrahmanyam

Apress®

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*I dedicate this book to my beloved father,  
the late Sri Ravi Rama Chandra Murthy,  
retired high school headmaster  
and recipient of the best teacher award.*

# Table of Contents

<b>About the Author .....</b>	<b>xiii</b>
<b>About the Technical Reviewers .....</b>	<b>xv</b>
<b>Acknowledgments .....</b>	<b>xvii</b>
<b>Preface .....</b>	<b>xix</b>
<b>Introduction .....</b>	<b>xxi</b>
<b>Chapter 1: An Overview of SAP S/4HANA .....</b>	<b>1</b>
Cloud Options.....	1
RISE with SAP S/4HANA Cloud .....	1
RISE with SAP S/4HANA Cloud, Private Edition .....	2
SAP S/4HANA Cloud, Extended Edition .....	3
On-Premises Options .....	4
SAP S/4HANA Hosted in the Customer’s Data Center.....	4
SAP S/4HANA Hosted by an IaaS Provider (Hyperscaler) Data Center.....	4
SAP S/4HANA Hosted in SAP HANA Enterprise Cloud (HEC) in an SAP Data Center .....	5
SAP S/4HANA Hosted in SAP HANA Enterprise Cloud (HEC) in a Hyperscaler Data Center .....	5
Choosing a Deployment Option .....	5
SAP S/4HANA Move Planning Tools.....	6
SAP Readiness Check for SAP S/4HANA .....	7
Process Discovery Tool.....	7
SAP Transformation Navigator.....	7
SAP Fiori App Recommendation Report .....	7
Conclusions .....	8

TABLE OF CONTENTS

- Overview of SAP S/4HANA ..... 8
  - Capabilities of SAP Accounting Powered by HANA (SAP S/4 HANA Finance) ..... 9
  - Converting an SAP ECC System to SAP S/4HANA..... 10
  - Advantages of the SAP HANA Technology ..... 10
  - Advantages of SAP S/4HANA..... 10
  - Conclusions ..... 22
  
- Chapter 2: Planning for a Conversion to SAP S/4HANA ..... 25**
  - SAP Readiness Check for SAP S/4HANA ..... 26
    - Handling Inconsistencies..... 26
    - Generating the SAP Readiness Check 2.0 ..... 26
    - Tool 2: Process Discovery (Formerly Known as SAP Business Scenario Recommendations).....31
    - Custom Code Analysis and Adoption ..... 32
  - Tools for Custom Code Analysis ..... 36
    - Tool for Identifying Unused Custom Code: SCMON ..... 36
    - Extended Program Check-SLIN ..... 37
    - Code Inspector -SCI..... 37
    - Maintain System Group Information..... 41
    - Conclusions ..... 47
  
- Chapter 3: An Overview of SAP ECC System Conversion ..... 49**
  - Overview of the Conversion Process ..... 49
  - The Preparation Phase ..... 50
    - 1. The Readiness Check ..... 50
    - 2. Maintenance Planner..... 50
    - 3. Simplification Item Check (SI Check) ..... 52
    - 4. Custom Code Analysis ..... 59
  - The Realization Phase..... 60
    - 1. Software Update Manager..... 60
      - Software Update Manager 2.0..... 61
      - Software Logistic Tools..... 61
    - 2. Unicode Conversion..... 62

Adjustments During and After Conversion or an Upgrade.....	65
Modifications.....	66
Who Is Responsible for Performing Modification Adjustments?.....	69
SAP S/4HANA Conversion Project Activities Overview.....	69
Conclusions.....	71
<b>Chapter 4: The Customer Vendor Integration (CVI).....</b>	<b>73</b>
The SAP Business Partner Concept.....	73
Customer Vendor Integration (CVI).....	74
Executing the SI Check Program.....	75
Preparing for CVI.....	77
1. Implement the Prechecks.....	77
2. Archive the Master Data with a Deletion Flag.....	77
3. Activate the Business Functions.....	78
4. Run the Master Data Consistency Prechecks.....	79
5. Set Any Necessary Customizing Settings.....	81
Customer/Vendor Synchronization: Preparation Phase.....	84
Customer-Related Preparations.....	84
Vendor-Related Preparations.....	85
BP Synchronization Phase.....	88
Mapping Tasks.....	90
Assign Business Partner Roles to Account Groups.....	90
Number Assignments (CVI-Target: Business Partner).....	91
Value Mapping.....	92
Activate Assignment of Contact Persons.....	93
Assign Department Numbers for Contact Person.....	94
Assign Functions of Contact Person.....	94
Assign Authority of Contact Person.....	95
Assign VIP Indicator for Contact Person.....	95
Assign Marital Statuses.....	96
Assign Legal Form to Legal Status.....	97
Assign Payment Cards.....	97

TABLE OF CONTENTS

Assign Industries .....	98
Assign Business Partner Roles to Account Groups.....	99
Number Assignments (CVI-Target: Business Partner).....	100
Vendor Value Mapping .....	101
Activate Creation of Post Processing Order (PPO) .....	103
Activate Synchronization Options .....	103
Check Synchronization Objects .....	104
Using the Synchronization Cockpit .....	105
Maintaining a Business Partner .....	109
Create a Sold-To Account .....	109
Create Ship-To Account .....	113
The Data Model in SAP S/4HANA Business Partner .....	130
BP Master Data Protection .....	131
Business Data Toolset (BDT).....	131
BP Maser Data Archiving .....	135
Conclusions.....	136
<b>Chapter 5: Preparation Phase (Preparations in SAP ECC System Before SUM) – Part 1 .....</b>	<b>137</b>
Discovery Activities Before Starting the Preparation Activities.....	138
Fixing Financial Data Inconsistencies Before Conversion.....	141
Example 1: Error Message FIN_FB_RECON220: Fields in BSIS and BSEG Do Not Match.....	147
Example 2: Error Message FIN_FB_RECON372: Entry in BSIS with Missing Archiving Flag (Field xarch).....	154
Example 3: Error Message FIN_FB_RECON74: Inconsistent Amount for Updating in G/L for this Line Item (Ldg 0L) .....	160
Example 4: Error Message FIN_FB_RECON76: Inconsistent Amount in the Second Local Currency For This Line Item (Ldg 0L).....	164
Example 5: Error Message FIN_FB_RECON517: Fields Mismatch Between BSEG and NewGL Line Item Table .....	164
Example 6: Error FIN_FB_RECON 376: Entry on BSIK with Missing Archiving Flag (Field xarch).....	166
Example 7: Error FIN_FB_RECON 374: Entry on BSID with Missing Archiving Flag (Field xarch).....	168

Example 8: Error FIN_FB_RECON 398: Second Local Currency in BKPF Inconsistent .....	169
Preparation Phase SI Checks Execution (Functional).....	169
Error Messages .....	170
Module – Finance .....	170
Module - HR.....	191
Module – Material Management .....	192
Module – PP .....	196
Module SD .....	208
Warnings .....	212
Important Checks in FI-GL Before Conversion in the ECC System .....	214
Conclusions.....	218
<b>Chapter 6: Preparation Phase (Preparation for Conversion of SAP ECC Asset Accounting to SAP S/4HANA New Asset Accounting) – Part 2 .....</b>	<b>219</b>
Conversion/Migration Scenarios .....	220
EA-FIN Financial Extension.....	220
Example 2 Preparation Activity.....	223
Check Item “SI2: FIN_AA” .....	232
Correction Action .....	235
An Overview of the SAP Asset Accounting Migration Flow.....	243
Configuration of Chart of Depreciation Under Ledger Approach.....	249
Parallel Accounting Using the Ledger Approach.....	249
Specify Transfer of APC Values .....	252
Technical Clearing Account for Integrated Asset Acquisition.....	254
Configuration of a Chart of Depreciation Using the Account Approach .....	258
Conclusions.....	264
<b>Chapter 7: Preparation Phase (Preparation Prior to Conversion) – Part 3 .....</b>	<b>267</b>
Credit Management Preparations for Conversion .....	267
Determining if the Source System Has Credit Management Functionality.....	268
Identifying the Use of FSCM-CR (FSM-Based Credit Management) .....	269
Prerequisites for Migrating to SAP Credit Management.....	269

TABLE OF CONTENTS

- The Influence on User Activity and Business Processes ..... 269
- Credit Management Preparation and Migration Activities After SUM ..... 270
- Material Ledger Preparation for Conversion ..... 274
  - Before SUM (Before System Conversion) ..... 275
  - Material Ledger Preparation Activities ..... 275
  - Material Ledger Data Migration ..... 277
  - Start and Monitor Data Migration ..... 277
- Actual Costing Preparation for Conversion ..... 280
- Trade Finance Preparation for Conversion ..... 281
  - Pre-Transition Checks ..... 281
- Revenue Recognition Preparation for Conversion..... 285
  - Business Process ..... 285
  - Which Transaction Codes Are Affected? ..... 285
  - How Do You Resolve This Error? ..... 286
- Preparation for Classic Cash Management for Conversion..... 287
  - Cash and Liquidity Management to SAP S/4HANA ..... 287
- After Accounting Conversion..... 289
- Conclusions..... 289
- Chapter 8: Realization Phase (Preparation and Migration of Customizing) ..... 291**
  - The Role of the Software Update Manager (SUM) Tool ..... 291
    - When Is the SPDD Activity Completed? ..... 292
    - How Do Users Know When SUM Reaches Downtime and What Activities Will Be Done by the Administrator? ..... 292
    - When Will the SPAU Activities Be Done? ..... 293
    - What Is the Menu Path for the Conversion Cockpit? ..... 295
  - Converting Accounting to SAP S/4HANA ..... 295
    - Special Authorizations to Execute the Cockpit ..... 297
    - Preparations and Migration of Customizing ..... 298
  - Data Migration ..... 299
    - Activities After Migration ..... 301
    - Tasks Before Starting Preparation Activities for the Cockpit ..... 301



Preparations and Migration of Customizing .....	302
Preparations and Migration of Customizing for GL.....	304
Defining the CO Document Type .....	313
Preparation and Migration of Customizing: Accrual Engine .....	320
Migration Precheck for Customizing .....	321
Migration of Customizing and Migration of Transactional Data.....	323
Manual Migration Steps for Account Determination.....	325
Preparation and Migration of Customizing for AA.....	326
Performing Additional Manual Activities.....	330
Activate Asset Accounting (New).....	333
Important Points .....	337
Preparations for Migration of House Bank Accounts.....	339
Data Migration Process.....	342
Introduction .....	342
Data Migration.....	342
Migration of Cost Elements .....	345
Migration of General Ledger Allocations to Journal Entry Tables .....	354
Activities After Migration.....	357
Introduction .....	357
Transfer Application Indexes .....	358
Display Status of Transfer of Application Indexes.....	358
Fill the Offsetting Account in FI Documents .....	358
Display Status of Filling the Offsetting Account in Finance Transactions.....	359
Enrichment of Balance Carry Forward.....	359
Migration of Accrual Engine Data .....	360
Conclusions.....	361
<b>Chapter 9: An Overview of SAP S/4HANA Conversion Project Tasks .....</b>	<b>363</b>
<b>Index.....</b>	<b>365</b>

# About the Author



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# Preface

While working as an SAP S/4HANA conversion and upgrade architect, I began to recognize the importance of having a document that includes an overview of the S/4HANA conversion process.

This book is an overview of the SAP S/4HANA conversion process, written for functional consultants who are working on SAP S/4HANA conversion projects. When I was working on the SAP Simple Finance Migration Project in 2015 and the SAP S/4HANA conversion in late 2015, I felt I did not have enough information about the conversion process. Today, there are many SAP help documents available. I felt that providing an overview of SAP S/4HANA conversion would help SAP S/4HANA consultants with their current or upcoming conversion projects. This book also has information about CVI (Customer Vendor Integration). So, Finance, SD, and MM consultants will get a good overview of the CVI process.

An important aim of the book is to provide an overview of the key areas of conversion. I presented the information in eight chapters. In addition, Chapter 9 includes a sample tasksheet for a conversion project.

## Overview of the Book

The first chapter provides an overview of SAP S/4HANA and its different deployment options. The second chapter provides information on planning for SAP S/4HANA. This will help readers plan for their conversion projects. Chapter 3 provides an overview of the SAP S/4HANA conversion tools (technical and functional). Chapter 4 helps FI, MM, and SD consultants understand Customer Vendor Integration (CVI). Chapter 5 explains how to prepare the system. It covers four important topics that are related to the conversion project—an overview of the discovery activities before starting preparation activities for conversion, how to fix financial inconsistencies before conversion, the preparation phase and SI checks execution (functional), and important checks in FI-GL before conversion to the ECC system. Chapter 6 discusses how to prepare for the conversion of SAP ECC Asset Accounting to SAP S/4HANA New Asset Accounting

## PREFACE

Chapter 7 covers other preparation activities, including credit management preparations for conversion, material ledger preparation for conversion, actual costing preparation for conversion, trade finance preparation for conversion, revenue recognition preparation for conversion, and classic cash management preparation for conversion. Chapter 8 covers the SAP S/4HANA conversion cockpit. It has three subtopics—preparation and migration of customizing, data migration, and the three activities after migration. Chapter 9 provides an overview of the conversion tasks.

# Introduction

As per the SAP announcement, mainstream maintenance of SAP Business Suite 7 applications will end by 2027. Optional extended maintenance will end by 2030. Consequently, SAP ECC customers are preparing for a digital transformation. They understand the importance of moving to SAP S/4HANA. Many SAP ECC customers have attended the SAP S/4HANA movement program to explore different aspects and to finalize the process of moving to SAP S/4HANA.

Every SAP customer has a unique set of challenges and goals. They must consider these challenges during their plan to move to SAP S/4HANA. Experienced SAP S/4HANA conversion architects can help SAP ECC customers design their move to SAP S/4HANA. S/4HANA conversion architects can define the best fit strategy for customers after analyzing their systems. The SAP S/4HANA system conversion path allows customers to convert their existing ECC systems to SAP S/4HANA.

SAP S/4HANA conversion is a complete, technical, in-place conversion of current SAP ECC systems to SAP S/4HANA. Without re-implementation, customers can change their SAP ECC system to an SAP S/4HANA system. The conversion process migrates the ERP data model into the SAP S/4HANA data model. It changes the SAP ECC functional core to an SAP S/4HANA application core. As of now, it is not mandatory to migrate SAP GUI to SAP Fiori apps. Customers will be able to do this selectively in a later step.

During conversion, the special tables will be converted to transparent tables. The standard code will be automatically adjusted to switch from calling the special tables to calling the transparent tables. Secondary indexes will be dropped during the conversion process. Indexes are usually not needed in SAP HANA. If any of the existing Z code refers to them, you must adjust that code to be able to work on SAP S/4HANA. SAP Clients have to make their own checks and adjust their code where necessary. If existing custom codes refer to a standard table that has been removed, SAP provides views for those obsolete tables. This means the existing Z code will still work and will just use the view.

There are SAP tools that can accelerate and automate the code review to make sure nothing is lost. The ABAP Code Inspector will help programmers choose the type of checks they want to do.

For example:

## INTRODUCTION

- You can use it to find pool and cluster tables.
- You can ask the program to show where you used `SELECT *`.
- You can use it to identify bottlenecks.

You can also identify code that is rarely used or not completely used (i.e., dead code).

The SAP Readiness Check helps SAP ECC customers plan their transition to SAP S/4HANA and provides them with an overview of the current system's readiness to convert as SAP S/4HANA. It also provides consultants with all the information needed to understand the system to be converted. This tool also provides several aspects of the conversion project.



## CHAPTER 1

# An Overview of SAP S/4HANA

SAP S/4HANA is the next generation of SAP business suite software. It is the digital core of your organization and is designed to run an intelligent enterprise. Many SAP ECC customers are planning their transitions to SAP S/4HANA. Many SAP ECC customers aren't sure which deployment option to use in order to move to SAP S/4HANA. There are three different approaches for moving to SAP S/4HANA. You must consider the different scenarios and choose from the three deployment options—on-premises, cloud, and hybrid.

This chapter covers two broad deployment options—cloud and on-premises. These two options differ in terms of the degree of standardization and the degree of flexibility. The on-premises option is not as flexible and the level of standardization is higher with the cloud version. Every customer has to decide based on their own preferences and their flexibility and standardization needs. SAP recommends more standardization, as it reduces the total cost of ownership in the long run.

## Cloud Options

This section covers the SAP S/4HANA cloud options.

### RISE with SAP S/4HANA Cloud

This “public cloud” solution (previously called SAP S/4HANA Cloud, Essentials Edition) is highly standardized. Services are delivered to customers over a network generated from a multi-tenant server. “Multi-tenant” means that two or more tenants (customers) share the bandwidth of one server. This multi-tenant server resides in an SAP data center. Your cloud provider (SAP) is responsible for maintaining the technical backend of

the system and for running your software service in the server where your tenant resides. RISE with SAP S/4HANA Cloud has the fastest innovation, meaning regular release cycles, where new features and enhancements are released. SAP maintains customers' systems with bi-weekly hotfixes and installs the release upgrades to customer systems on a defined release schedule.

RISE with SAP S/4HANA Cloud has the lowest total cost of ownership (TCO), due to its increased standardization. The solution is delivered with the RISE with SAP business transformation services. If you have subscriptions to multiple solutions in addition to SAP S/4HANA Cloud (e.g., SAP SuccessFactors, SAP Concur, etc.), you will have an individual tenant for each software server that may or may not reside in the same data center as your SAP S/4HANA Cloud ERP solution. An existing ECC system cannot be moved to RISE with SAP Public Cloud. This solution is suitable only for new implementations.

## **RISE with SAP S/4HANA Cloud, Private Edition**

RISE with SAP S/4HANA Cloud, Private Edition is a cloud solution with the full SAP S/4HANA on-premises scope. It has the elasticity, resilience, and TCO of a cloud infrastructure. Existing SAP ECC customers can convert their SAP ECC systems to a RISE with SAP S/4HANA Cloud, Private Edition. New customers can also choose this option for their new implementation. RISE with SAP S/4HANA Cloud, Private Edition is suitable for new implementations and for system conversion.

Customers have full access to the extensibility framework; it also supports in-app and side-by-side extensions in addition to code enhancement and modifications. Expert configuration is possible with full IMG access, and the operating expense model is subscription-based. The solution is inherently deployed with SAP HANA Enterprise Cloud to provide a private cloud infrastructure and technically managed services. However, customers can choose where their solution is hosted: on an SAP data center or a hyperscaler data center. Hyperscaler data center providers include Alibaba Cloud, Microsoft Azure, Google Cloud Platform, and Amazon Web Services. SAP S/4HANA Cloud, Private Edition is delivered with RISE with SAP services in addition to the core ERP scope to support a customer's business transformation to the cloud. All services—from RISE to infrastructure management, to the core software—are delivered under one contract with SAP. Even if your solution is in a hyperscaler data center, all services are under one contract with SAP.

## Key Features

Key features of the SAP S/4HANA Cloud, Private Edition, include the following:

- Full functional S/4HANA scope
- Existing ECC system can be moved to the Cloud Private Edition
- Safeguards prior investments into SAP systems
- Flexibility and extensibility
- Access to the S/4HANA extensibility framework

## SAP S/4HANA Cloud, Extended Edition

SAP S/4HANA Cloud, Extended Edition is a cloud solution based on standardized business processes, but also includes the extensibility and geographical reach of the SAP S/4HANA on-premises solution. Services are delivered to customers over a private network protected by a firewall from a single-tenant server. “Single tenant” means that only one tenant (customer) uses the storage and bandwidth of one server. This single-tenant server can reside in your own data center, or in a data center owned by a vendor. SAP S/4HANA Cloud, Extended Edition has semi-annual (twice yearly) upgrades and is hosted in SAP’s private, managed cloud, the SAP HANA Enterprise Cloud (HEC). SAP S/4HANA Cloud, Extended Edition is well-suited for customers that require specific functionality, broader extensions, and deeper configuration capabilities in a dedicated cloud environment. Additional capabilities are allowed, because a customer is the only tenant on the server. As a cloud solution, it is also easily scalable and has a low total cost of ownership (TCO).

## Key Features

Key features of the SAP S/4HANA Cloud, Extended Edition include the following:

- Standardization, functional scope, and extensibility
- Semi-annual upgrades
- Configurable and customizable processes
- SAP S/4HANA Extensibility Framework and extensions via SAP Cloud Platform (SCP)

- All industries supported
- Low TCO and fast time to value
- Subscription licensing

## On-Premises Options

SAP S/4HANA on-premises is suitable for customers that require maximum control of their SAP systems. It can be hosted usually in your own data center or with an IaaS provider. This solution is best for customers who want full control and ownership of their application and landscape. It provides a broad level of functionality with a maximum degree of flexibility in customization.

Customers can configure, extend, and modify their software, with full access to the SAP HANA database and development tools. SAP S/4HANA on-premises has an annual release cycle, where customers can choose to adopt new innovations on their schedule. Customers can choose to deploy the SAP S/4HANA solution in their preferred infrastructure, with varying degrees of maintenance responsibilities depending on the infrastructure selected. SAP S/4HANA has perpetual licensing when deployed on-premises in a customer's own data center. It's subscription-based or bring your own license (BYOL) when deployed on the SAP HANA Enterprise Cloud or a third-party hyperscaler (e.g., Microsoft Azure, AWS, and Google Cloud Platform).

## SAP S/4HANA Hosted in the Customer's Data Center

This is the classic "on-premises" deployment option, where the customer has their own hardware and is responsible for maintaining its infrastructure, including purchasing, installing, configuring, and managing the software.

## SAP S/4HANA Hosted by an IaaS Provider (Hyperscaler) Data Center

The SAP S/4HANA on-premises solution is hosted in a non-SAP infrastructure as a service (IaaS) provider data center (private cloud). We refer to these third-party IaaS providers as *hyperscalers*. They deliver a computing infrastructure, provisioned and managed through the Internet. The Infrastructure as a Service (IaaS) provider is

responsible for maintaining the infrastructure, and the customer is responsible for purchasing, installing, configuring, and managing the software hosted in the cloud (operating systems, middleware, and applications).

## **SAP S/4HANA Hosted in SAP HANA Enterprise Cloud (HEC) in an SAP Data Center**

The SAP S/4HANA on-premises solution is hosted in a private, SAP-managed HANA Enterprise Cloud and deployed on an SAP data center. SAP HEC is an IaaS platform with managed services delivered by SAP to support SAP applications and solutions. The managed services include coordination and management of the entire cloud solution landscape, including infrastructure, systems, technology, and applications.

## **SAP S/4HANA Hosted in SAP HANA Enterprise Cloud (HEC) in a Hyperscaler Data Center**

The SAP S/4HANA on-premises solution is hosted in the private, SAP-managed HANA Enterprise Cloud, which is deployed on a hyperscaler data center. SAP provides customers who choose this option with the same comprehensive managed services for HEC in a non-SAP data center as HEC in an SAP data center. SAP operates and manages the customer's SAP systems in the HEC private, managed cloud with the IaaS provider of their choice. This is all under one contract with comprehensive responsibility.

## **Choosing a Deployment Option**

The path/approach you choose to move to SAP S/4HANA is one of the key factors that influences your choice of deployment. There are three different approaches to moving to SAP S/4HANA:

- New implementation
- System conversion
- Selective data transition

Which approach is right for you?

System conversion should be considered when:

- The business is focused on incremental innovation projects.
- The IT software landscape requires the retention of past customizations.
- All data needs to be retained.

A new implementation should be considered when:

- When existing business processes do not support long-term strategies.
- The business wants to standardize on SAP Best Practices packages.
- The existing system does not meet the SAP S/4HANA conversion prerequisites. (The system is not technically and functionally fit for conversion.)

Organizations using other than SAP will consider this option to move to SAP S/4HANA. Customers running SAP ECC Business Suite and want to move to SAP S/4HANA can also consider this option in order to completely redesign their processes.

The selective data transition option should be considered when:

- The business needs to go live in phases.
- Existing SAP ERP instances need to be split or merged.
- You want to migrate only specific years of data or specific company codes.

## SAP S/4HANA Move Planning Tools

There are different tools that simplify your journey to SAP S/4HANA:

- SAP Readiness Check for SAP S/4HANA
- Process Discovery Transformation (SAP Business Scenario Recommendations)
- SAP Transformation Navigator
- SAP Fiori App Recommendation Report

## SAP Readiness Check for SAP S/4HANA

The SAP Readiness Check is one component of the RISE with SAP services for a system conversion to RISE with SAP S/4HANA Cloud, Private Edition. It assesses the functional and technical aspects of the existing SAP ECC system to convert it to SAP S/4HANA. This assessment provides insight into mandatory application changes, and potential impacts are detailed in relevant simplification items along with conversion prerequisites, such as the compatibility of existing add-ons and business functions. The tool assesses the many functional and technical aspects to identify system readiness for conversion. For example, custom-code compatibility, system sizing and data volume management, inconsistencies in financial data, and so on.

## Process Discovery Tool

The Process Discovery Transformation tool has replaced SAP BSR (Business Scenario Recommendations). Process Discovery is a free analysis tool. This helps SAP ECC customers and partners drive innovation and adoption.

Process Discovery consists of two components

- Process Discovery summary
- Process Discovery solution (Spotlight)

Customers can request their own Process Discovery. Refer to SAP Note 2758146 and SAP Note 2745851. The analysis in the online solution will be delivered to customers along with a PDF document as an executive summary.

## SAP Transformation Navigator

This is a self-service tool that provides guidance for your digital transformation. It assesses the existing landscape and industry trends. It delivers a report that contains recommendations of the SAP products and solutions required to plan and realize your digital strategy.

## SAP Fiori App Recommendation Report

This tool provides the SAP Fiori apps that you need on an SAP S/4HANA system.

## Conclusions

Every customer has a unique set of goals and challenges when considering their move to SAP S/4HANA. The SAP Move program is designed to support customers in moving to SAP S/4HANA in the most non-disruptive way possible. SAP Partners also offer guidance to tackle critical moments and offer customers complete control over their transition.

## Overview of SAP S/4HANA

SAP S/4HANA is an integrated business suite that supports end-to-end business processes. It helps manage employees, vendors, customers, products, accounting, finance, logistics and more. This new business solution provides a 360-degree view of any line of business with the support of embedded analytics; it enables users to make faster and smarter decisions using the functionalities and capabilities of this new next-generation business solution.

Based on the business process, customers can implement robotic process automation and gain benefits of that in business processes. Predefined SAP content helps reduce the effort in customizations of ML (machine learning) models. This helps customers jump-start intelligent technologies in almost all business processes.

In SAP ECC, the FI/CO applications were separated into two components as Finance and Costing (Controlling/Management Accounting—CO). In SAP S/4HANA, these two components are brought together and called SAP S/4HANA Finance.

In SAP ECC, every component had its own data model, which leads to inefficiencies as there are integration issues. But using SAP S/4HANA, SAP S/4HANA Finance is completely redesigned, with the inefficiencies removed. SAP S/4HANA delivers new experiences to users with Fiori apps. This improves the efficiency and productivity and leads to job satisfaction for the users. The data model of SAP S/4HANA has been simplified comparatively to SAP ECC. This simplifies the application configuration, design, and extensibility. This new solution helps with digital transformation.

SAP S/4HANA sits on SAP HANA and inherits the following capabilities:

- In-memory databases
- Data compression
- Real-time processes
- Dynamic analysis



- Integration reporting
- New user interface, called SAP Fiori

It has a simplified data model that avoids redundancy and helps reduce the data footprint by removing unnecessary tables. It supports both OLTP and OLAP processing from a single data model and, therefore, ETL to a separate system not needed for reporting.

## **Capabilities of SAP Accounting Powered by HANA (SAP S/4 HANA Finance)**

SAP S/4HANA Finance, formerly known as Simple Finance, is a reworked application code of SAP ERP Financials, primarily released around 2014. It comes with a diverse classification of “simple” that pinpoints not only an automated but a well-structured database and architecture. This new solution helps Finance and Accounting teams lead the digital transformation.

In SAP ECC, SAP FI&CO was divided into two components:

- Financial Accounting (FI)
- Controlling Management Accounting (CO)

Finance and Costing have subcomponents. For example, Asset Accounting. Every subcomponent had its own database tables and data model architecture. The SAP ECC data model led to inefficiencies in integration and reporting. SAP S/4HANA has a simplified model and lightweight architecture that works on such incompetence.

For instance, with SAP S/4HANA, the legal/local/internal/consolidated reporting has been simplified. You can maintain multiple accounting principles, like US GAAP (the United States Generally Accepted Account Principles) and IFRS (International Financial Reporting Standards), along with local legal reporting for any country. Accounting and Finance teams can therefore save a lot of time in maintaining books when using multiple accounting standards.

## Converting an SAP ECC System to SAP S/4HANA

Existing SAP ECC customers can convert their ECC and move to SAP S/4HANA with the following advantages. In fact, customers can change the current system into an SAP S/4HANA system. (Database, NetWeaver, and Application Transition) in one step and then benefit from the following:

- Conversion without re-implementation
- No disruption for existing business processes
- Revaluation of customization and existing processes

## Advantages of the SAP HANA Technology

SAP HANA helps your business grow seamlessly in the digital economy. It provides key benefits, not limited to simplification and centralization. These include ease of use, improved speed, transition, innovation, and a cloud experience. SAP S/4HANA can transform business and IT functions using intelligent automation, with remarkable results:

- Reduce your data footprint
- Choice of deployment
- Large data sets can be worked on at one time
- Increased performance
- Simplified infrastructure
- Embedded analytics

## Advantages of SAP S/4HANA

### Improvements in the Data Model

Modeling refers to an activity of filtering or cutting data in database tables by forming information that portrays a business scenario. You can use this information for any reporting and decision-making purposes in your management and integrated business

departments. A data model is a relation between the set of tables and the tables that are used. A simplified data model means that the tables and their sets are simplified. Further, a few improvements in S/4HANA data model are

- Use of columnar tables
- Fewer indices and aggregation tables
- ACDOCA - universal journal entry table

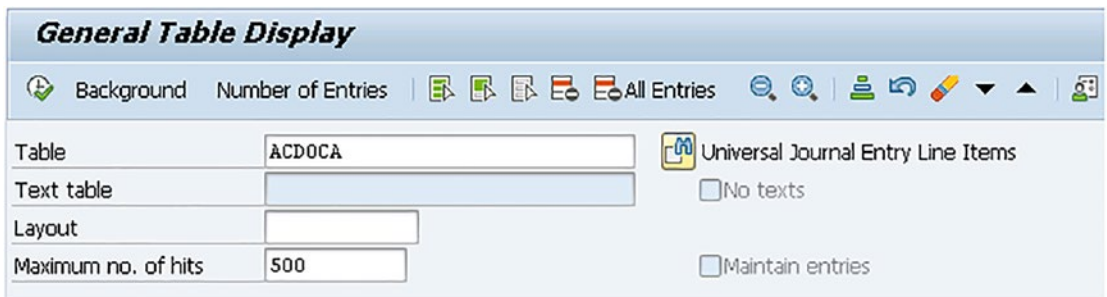
The concept of UJE was first launched with SAP S/4HANA Finance. With every product, it gets better. With eliminated data, it has reduced footprints and table designs.

It is one database table that includes fields from submodules. For example, CO, AA, ML, COPA. It has more than 360 fields related to such submodules, making integration simpler for multi-dimensional reporting.

It stores old data from FAGLFLEXT and FAGLFLEXA and Index Table values are stored in ACDOCA. It stores actual data.

## Advantages of the New Data Model

- It is a single source of truth for all accounting-integrated components.
- It is a simple but complete data model.
- It combines and complements the best qualities of all accounting components.
- It provides a non-disruptive simplification.



**Figure 1-1.** The ACDOCA table

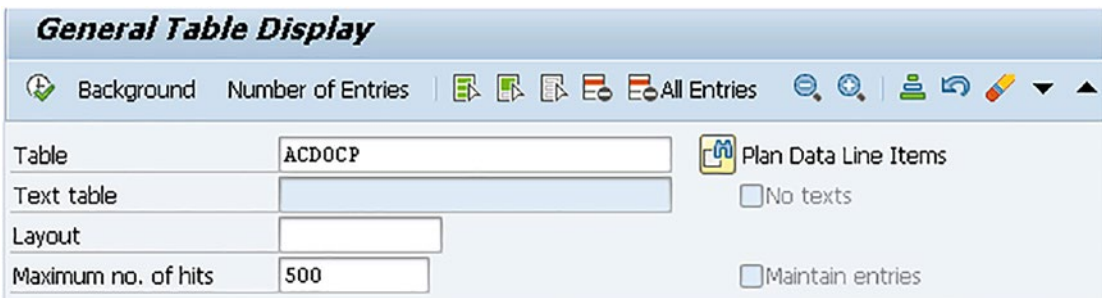
## Planning Table

ACDOCP is for planned data. (See Figures 1-1 to 1-3.) Planning is one of the key processes in Controlling. Since Version 1610, it has been possible to store the plan results in the ACDOCP table. ACDOCP has the same structure as the ACDOCA table.

Transactions that have been removed but are frequently used can still be used in SAP S/4HANA:

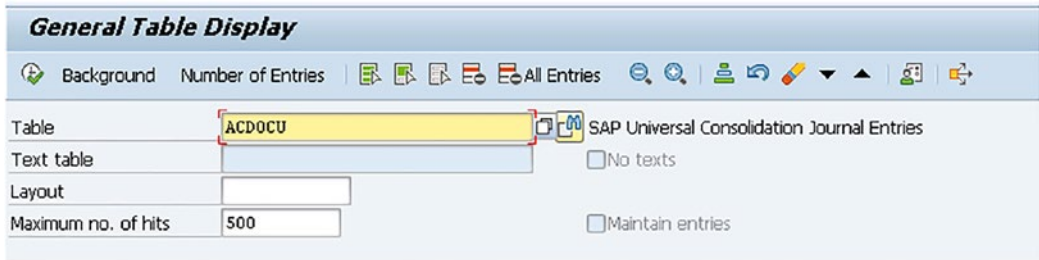
- KP06/KP07 (cost center planning)
- CJ40/CJ42 (overall planning on projects)
- CJR2/CJR3 (project planning)
- KPF6/KPF7 (order planning)

While you can still use old transaction codes for planning purposes, such as project planning/cost center planning/order planning, the plan data will be stored in the old tables, not in ACDOCP. Analytical apps that come from recent releases do not read plan data from the classical tables, only from ACDOCP.



**Figure 1-2.** The ACDOCP table

Similarly, ACDOCAU is a central table for group reporting,



**Figure 1-3.** The ACDOCU table

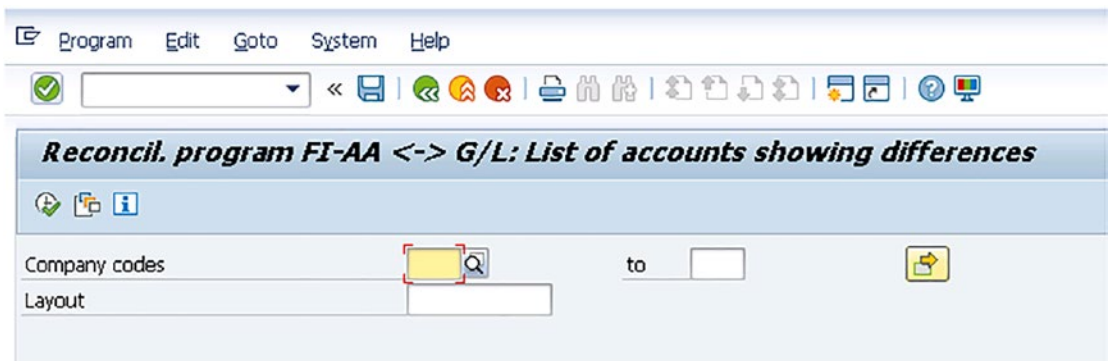
## Fixed Asset Accounting

Asset Accounting is a significant area of Finance. Fixed Assets represent the largest part of the balance sheet for capital-intensive companies/industries.

Creating synergy between asset management and the general ledger is better for the company's balance sheet accuracy. So FI-AA Integrated Asset Accounting data is stored in the ACDOCA table. This has eliminated many index and total tables and reduced data redundancy. With the FI-AA integration table design, there is no need for reconciliation between the general ledger and Asset Accounting.

After migrating from ECC to SAP S/4HANA, customers can view their data and all the old reports will work. Previous fiscal years' reporting is possible, as old tables become available as compatibility views.

As a part of a period end activity, Reconciliation with Asset Accounting is not needed any longer (see Figure 1-4).



**Figure 1-4.** Tcode ABST2, reconciliation for FI and AA

As GL and AA post to the ACDOCA table, the ABST and ABST2 transaction codes are no longer needed (see Figure 1-5).

**Consistency Check of General Ledger and Asset Accounting**

Company Code

Fiscal Year

Depreciation area

Reconciliation account

Check Reversed Documents

Layout

Figure 1-5. Consistency check for GL and AA

## Transparent Depreciation Areas

One depreciation area per valuation is needed and delta areas are no longer needed (see Figure 1-6).

**Change View "Define Depreciation Areas": Overview**

Chart of dep.  Chart of Depreciation 1710

Ar.	Name of Depreciation Area	Real	Trgt Group	Acc.Princ.	G/L
1	Book Depreciation	<input checked="" type="checkbox"/>	0L	USAP	Area Posts in Real Time
31	Local GAAP in group currency	<input checked="" type="checkbox"/>	0L	USAP	Area Does Not Post
32	IFRS in local currency	<input checked="" type="checkbox"/>	2L	IFRS	Area Posts in Real Time
33	IFRS in group currency	<input checked="" type="checkbox"/>	2L	IFRS	Area Does Not Post

Figure 1-6. Depreciation areas

## One Document per Valuation

Accounting principles are assigned to separate ledgers, so accounting principle-specific documents will be posted for each accounting principle (see Figure 1-7).

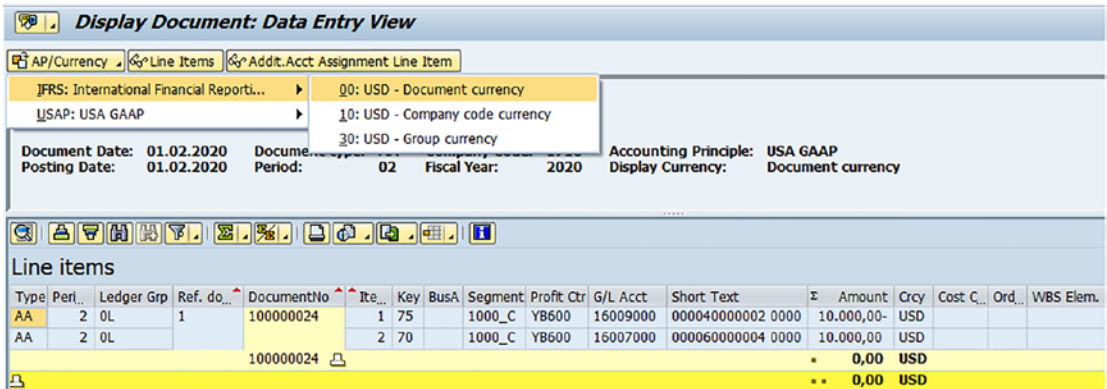


Figure 1-7. Accounting principle-specific documents display

## Ledger and Accounting Principle Postings

Transaction code AB01L can be useful for ledger/accounting principle postings (see Figure 1-8).

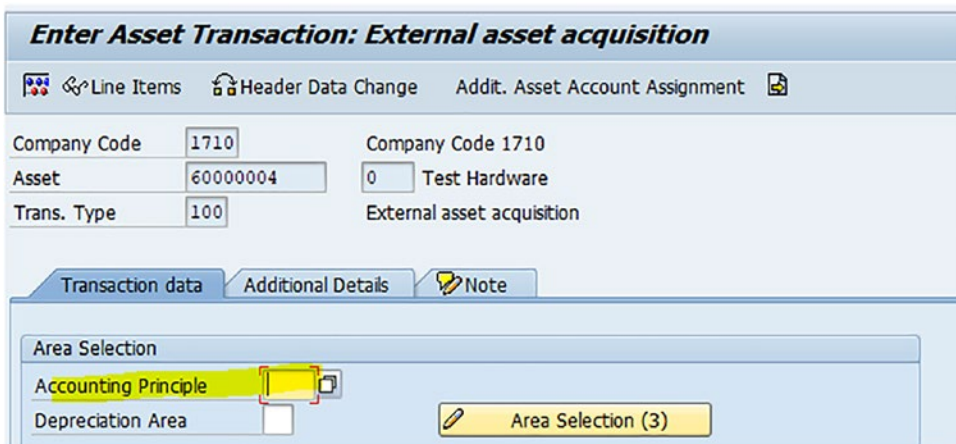


Figure 1-8. Transaction AB01L

## S/4HANA Cash Management

S/4HANA Cash Management helps to manage cash and liquidity. This new solution includes Bank Account Management (BAM) and Cash Management. This application is a big improvement over ERP. It offers a better user experience, which is based on Fiori.

It includes:

- Business processes related to manual memo records
- Business processes related to check management
- Electronic bank statements
- Business processes related to bank account management
- Cash operations
- Liquidity management

## Bank Relationship Management

Bank Account Management had typical pain points. For example, lack of transparency resulting in encounters during governance and a compliance audit, unmanageable manual management, lack of integration, and decentralized bank relation processes. But with SAP S/4HANA, it delivers simplified regulatory reporting, shortened audit processes, bank account rationalization resulting in reduced costs, and more.

It aids central bank accounts management. For example, workflow processes such as bank account opening, closing, and adjustment, and analysis of cash position of bank accounts.

## Transfer Prices

A *transfer price* is a price that is determined when a good or service is transferred between units of two independent organizations. The price can be market price, or cost of goods manufactured plus markup, or a negotiated price. SAP S/4HANA introduced the Transfer Price Solution in the core S/4HANA.

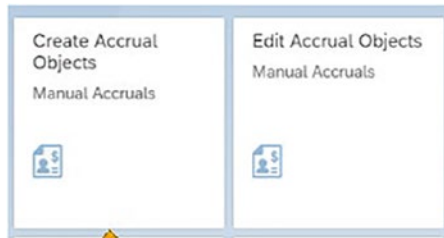
## Business Partner Approach Now Mandatory

The customer/vendor master creation in XD01 and XD01 is obsolete. The business partner approach is now mandatory in SAP S/4HANA. To maintain customer and vendor master data, there is a single transaction code that can be cast off. The relations among business partners and customers/vendors are mapped through different business roles and the account group is mapped through grouping. The number range can be set as per the requirement of the client.



## Accrual Engine

The accrual engine enables you to automatically calculate accruals in the general ledger. As of SAP S/4HANA 1809, this functionality is included (see Figure 1-9).



**Figure 1-9.** Monitor GR/IR account reconciliation – SAP Fiori app

Monitor GR/IR Account Reconciliation is an analytical app that you can use to analyze the GR/IR open items. For purchasing documents, such as Purchase Orders and Delivery Notes, KPIs are displayed. When deeper analysis is needed, you can navigate to a list of GR/IR clarification items and investigate the details or even start with processing purchase order items that don't match goods receipts and invoice receipts (see Figure 1-10).



**Figure 1-10.** Monitor GR/IR Account Reconciliation

## Flexible Workflow

This functionality that allows you to define condition-based workflows for a one-step or multi-step approval process according to the customer's requirements for purchase requisitions and orders.

## MRP Live

The MRP Engine, also known as MRP Live, is MD01N. The MRP Engine reads all the required elements and helps you take necessary actions. For example, it reads the Purchase Order or the Stock Transfer Order and helps you procure purchase requisitions in a single database procedure. This way, the transfer of data from the database to the application server is reduced.

## Lean Service Procurement

Lean Service Procurement simplifies the service procurement process by simplifying the process of booking service entry sheets. There is no longer a need to create a service master with the introduction of a new material type SERV in the material type configuration.

## OLAP and OLTP Together

These are now core business processes. They help make the processing more competent (see Figure 1-11).



*Figure 1-11. Example of SAP Fiori Analytical apps*

## SAP S/4HANA Financial Closing Cockpit

The Financial Closing Cockpit application is a part of complex closing processes; it's available in SAP S/4HANA (see Figure 1-12).

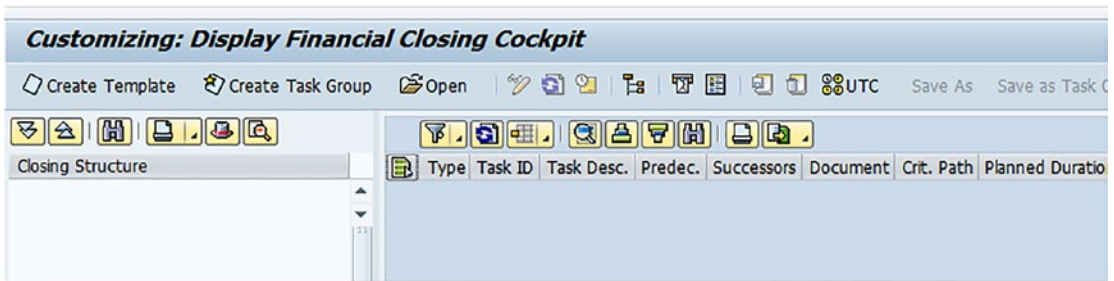


Figure 1-12. Financial Accounting Closing Cockpit screen

## New Depreciation Run

In SAP S/4HANA, the depreciation screen has been simplified (see Figure 1-13).

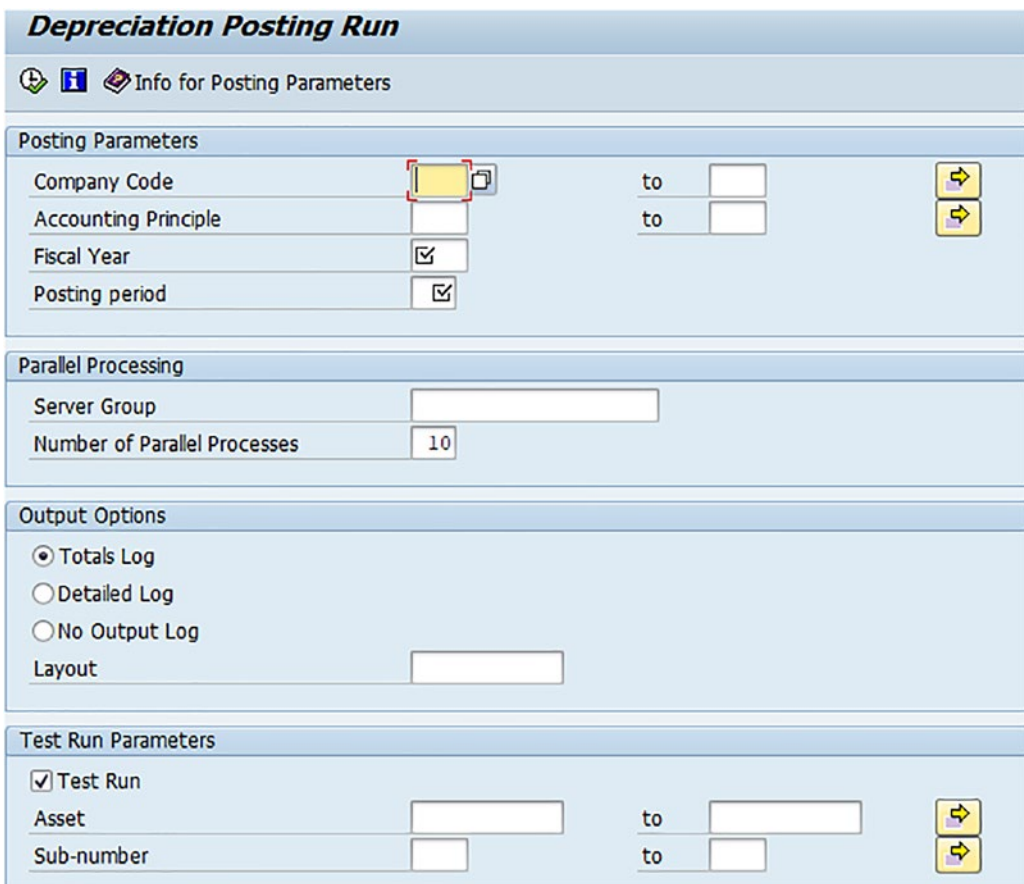


Figure 1-13. Depreciation Run screen

## **FI-AR Based Credit Management Is No Longer Recommended**

In SAP S/4HANA, the FI-AR-CR function (Classic Credit Management) is no longer available. It has been replaced with the functional SAP FSCM-based Credit Management (FIN-FSCM-CR).

## **SAP S/4HANA Sales**

Before SAP S/4HANA, there were many pain points in the ERP platform, including the lack of real-time reporting, visibility through the entire process, and efficient and effective work. But with the flexible data model simplification, the document flow has been simplified.

### **Simplified Areas in SAP S/4HANA Sales**

- The Business Partner approach replaces the ECC (ERP) SD customer master.
- FI-AR-CR Credit Management has been replaced with SAP S/4HANA Finance Credit Management.
- SAP SD Foreign Trade has been replaced with SAP S/4HANA International Trade Management.
- Financial Documents have moved from SD-FT to Trade Finance in Treasury and Risk Management.
- ERP SD Rebates has been replaced with SAP Condition Contract Settlement.
- SD-BIL-RR Revenue Recognition has been replaced with SAP Revenue Accounting.
- ERP LIS/ODP has been replaced with SAP S/4HANA Analytics: ODATA and Open CDS views.

## **Foreign Trade**

The areas that were covered in GTS include

- Document payment
- Compliance for export procedures
- Preference management

SAP GTS should be used instead of the classical Foreign Trade functionality, which is not available in SAP S/4HANA. The functionalities that are covered in SAP S/4HANA are:

- International trade compliance
- International trade classification
- Integration with SAP global trade services
- Integration with SAP watch list screening
- Intrastat

## Revenue Recognition

SD Revenue Recognition is not available in SAP S/4HANA. It has been replaced with the new functionality—SAP Revenue Accounting and Reporting (RAR).

## Financial Consolidation Through Group Reporting

This new functionality supports Financial Consolidation. As different ERPs, local accounting standards, currencies, and so on, play a significant role in large companies/ industries that have several objects, this is a compulsory exercise. Group Reporting supports computation and disclosure of consolidated reports and gives you data regarding the company performance and its corporate compliance.

## SAP Fiori Apps

SAP Fiori is the user experience that replaces the classic SAP GUI. It provides capabilities to users to customize and adjust the screens that are used regularly in business function workflows. Fiori apps can be accessed through mobile phones, desktops, and tablets.

The types of Fiori apps are as follows:

- Transactional
- Analytical
- Factsheet

## SAP S/4HANA Deployment Options

A simplified data model and a new user experience accompany the cloud and on-premises deployment models. You get cloud as a consistent solution, comparatively with the SAP S/4HANA on-premises solution via subscription model license. The SAP S/4HANA Cloud Public Option has standardized business processes and may not allow customers to do changes extensively. The Private Cloud option leverages the full functional scope and extensibility.

## Conclusions

In SAP S/4HANA, the main and core processes have not changed much. Rather they are optimized to support the business operations. This change helps with digital transformation. This transformation brings changes in the way they are executed. This brings improvement and efficiency of all lines of business operations.

Nowadays companies are keen to improve and optimize core processes and want to explore new business models. SAP S/4HANA supports this very easily. With SAP S/4HANA, top management can focus on core operational processes and need not worry about day-to-day operations.

The simplifications and innovations in the core business processes help management with critical business processes in all lines of business, including finance, sales, service procurement, manufacturing, supply chain and asset management, research and development, human resources, and so on. SAP S/4HANA provides a better view of any line of business with real-time data.

The important areas of simplification are inventory management, material requirements planning, capacity planning, sales and distribution, and procurement. This new version supports digital trends such as the IoT and business networks.

Logistics areas have been simplified, especially in three core areas: Plan-to-Product, Order-to-Cash, and Procure-to Pay.

Some of the components have been rearchitected;

- Material Requirements Planning
- Inventory Management
- Material Valuation (integrated to FI)

Last but not least, a unified core helps customers in many areas.

Cloud computing provides different services, such as data storage, networking, security, software applications, and BI, through the Internet and based on the subscription. This provides beautiful response times, data storage, reliability, security, flexibility, and lower IT costs.

## **Advantages of Cloud Computing**

- Reliable
- Flexible
- Low investment
- Up-to-date technologies

## **Types of Cloud Computing Services**

- Software-as-a-service (SaaS)
- Platform-as-a-service (PaaS)
- Infrastructure-as-a-service (IaaS)

## CHAPTER 2

# Planning for a Conversion to SAP S/4HANA

This chapter discusses the value of SAP S/4HANA, as creating a business case is the first step in a move to SAP S/4HANA. The SAP S/4HANA Solution Architect helps you perform a readiness check to verify various aspects and identify readiness of the current SAP ECC system so it can be converted to SAP S/4HANA. SAP S/4HANA architects work on multiple aspects during this check.

- Analyzing the existing SAP ECC system
- Verifying the conversion readiness
- Checking the consistency of the transaction data
- Checking for custom code adaptability

A well-structured business case is the foremost task of SAP S/4 HANA conversion. It is the best way to prove to customers and all the stakeholders that the product they are planning is a good investment.

The business case shows important business benefits of their proposed investment. The IT team can justify the proposed initiative by showing these business benefits to the CFO and COO.

This chapter discusses some of the tools needed to create a business case for SAP S/4HANA



## SAP Readiness Check for SAP S/4HANA

An SAP Readiness Check verifies the readiness of various functional and technical aspects of the existing source system. This tool helps identify the aspects needed for system conversion. The most important issue for finance consultants is the quality of the financial data. The Readiness Check helps finance consultants work on inconsistencies in the finance data before they start the project.

### Handling Inconsistencies

Run the FIN\_CORR\_MONITOR report provided by SAP or contact SAP for further help, if you cannot fix the inconsistencies. SAP will fix those errors only in the production system. Once SAP fixes those issues on the PRD, you need to copy them again to the sandbox system to perform the first conversion.

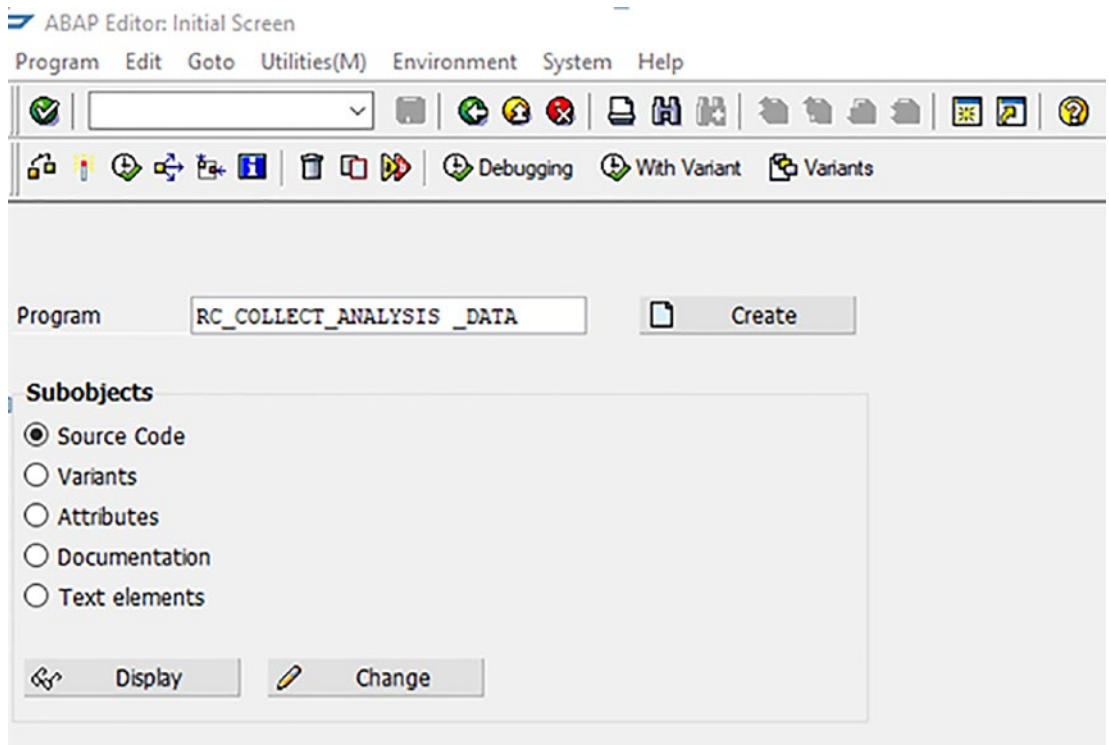
The SAP Readiness Check is a scientific system analysis. It is the foundation of planning the SAP S/4HANA project. This check verifies software prerequisites, technical requirements, functional implications, custom code data inconsistencies, and more.

### Generating the SAP Readiness Check 2.0

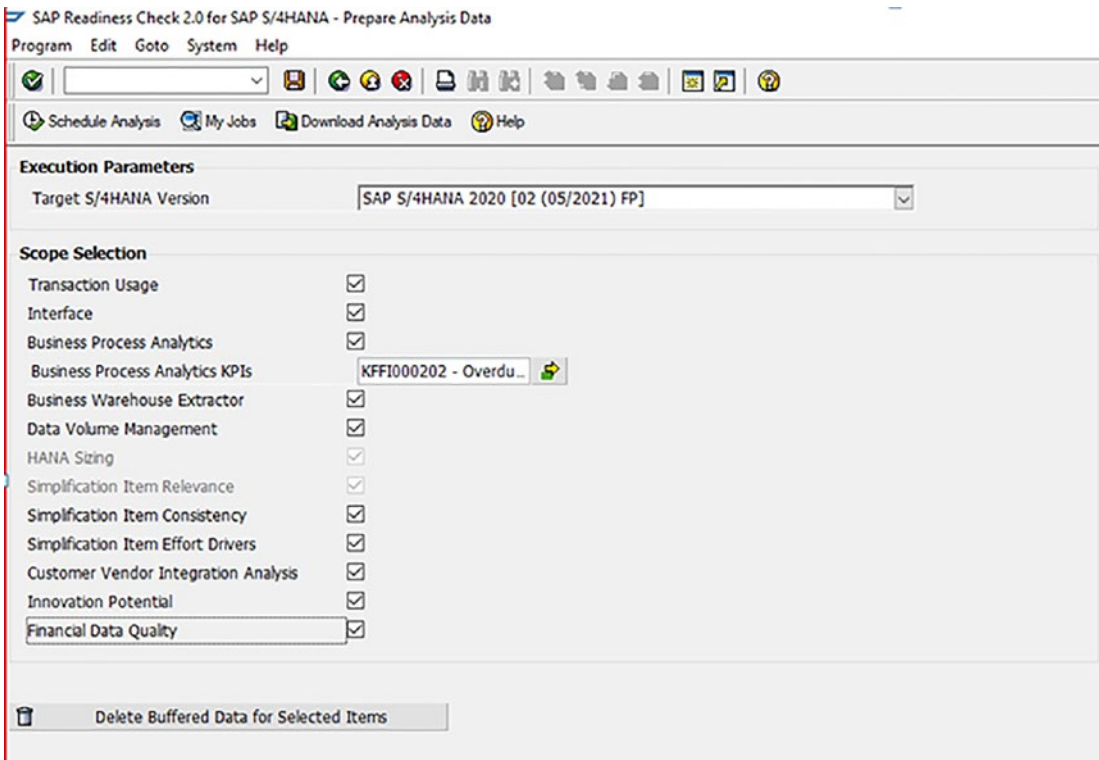
Refer to and install the following SAP notes as needed:

- 2913617 - SAP Readiness Check for SAP S/4HANA
- 2758146 - SAP Readiness Check for SAP S/4HANA & Process Discovery (evolution of SAP Business Scenario Recommendations) or SAP Innovation and Optimization Pathfinder
- 2968380 - SAP Readiness Check Report 2.0 - Troubleshooting Guide

Execute the following program after installing the required SAP notes (see Figures 2-1 and 2-2).



**Figure 2-1.** *Generating the Readiness Check through the RC\_COLLECT\_ANALYSIS\_DATA program*



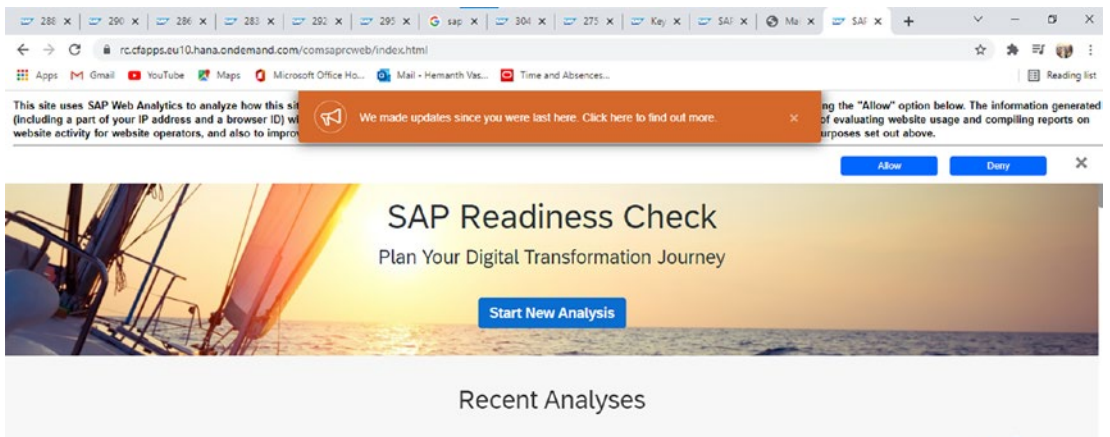
**Figure 2-2.** Executed RC\_COLLECT\_ANALYSIS\_DATA program

Here are the jobs to be executed:

- RC\_COLLECT\_ANALYSIS\_DATA is the main job to collect the analysis data
- TMW\_RC\_INNOVA\_DATA\_COLL is the innovation potential
- TMW\_RC\_BPA\_DATA\_COLL collects Business Process Analytics data
- TMW\_RC\_DVM\_DATA\_COLL collects Data Volume Management data
- TMW\_RC\_HANAS\_DATA\_COLL collects HANA sizing data
- TMW\_RC\_SITEM\_DATA\_COLL collects Simplification Item Relevance check data
- TMW\_RC\_EFD\_DATA\_COLL is the Effort Drivers of Simplification Items
- /SDF/HDB\_SIZING\_SM collects data for sizing

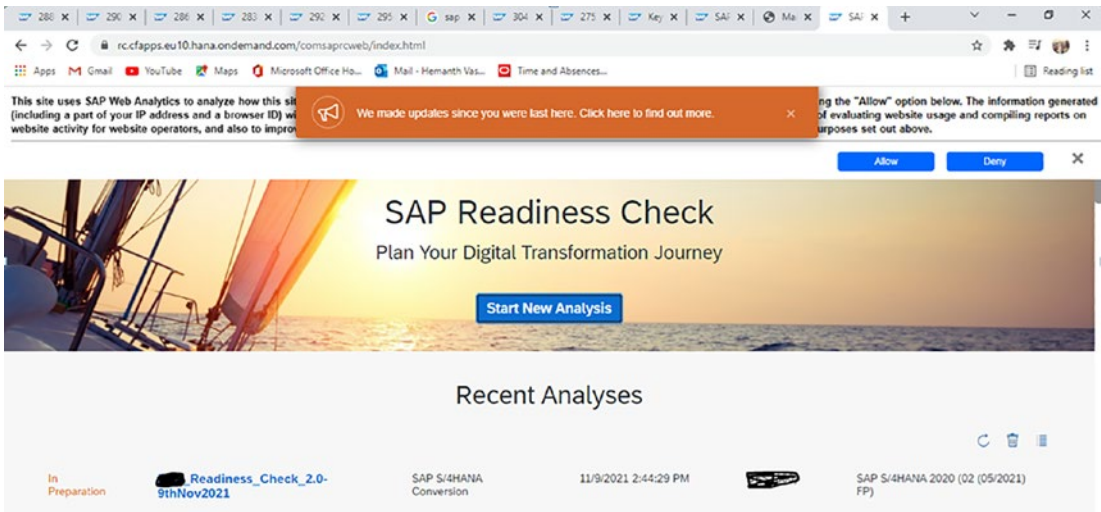
- TMW\_RC\_FDO\_DATA\_COLL collects the financial data for the consistency check
- BO APPLICATION ANALYSIS 01 collects DVM triggers for TAANA and DANA analysis
- FIN\_CORR\_REC\_ANALYSIS\_2021\_2020 runs the finance consistency checks

Generate the Readiness Check Results dashboard (<https://rc.cfapps.eu10.hana.ondemand.com>) and then choose Start New Analysis (see Figures 2-3 through 2-5).



**Figure 2-3.** Readiness Check – New Analysis

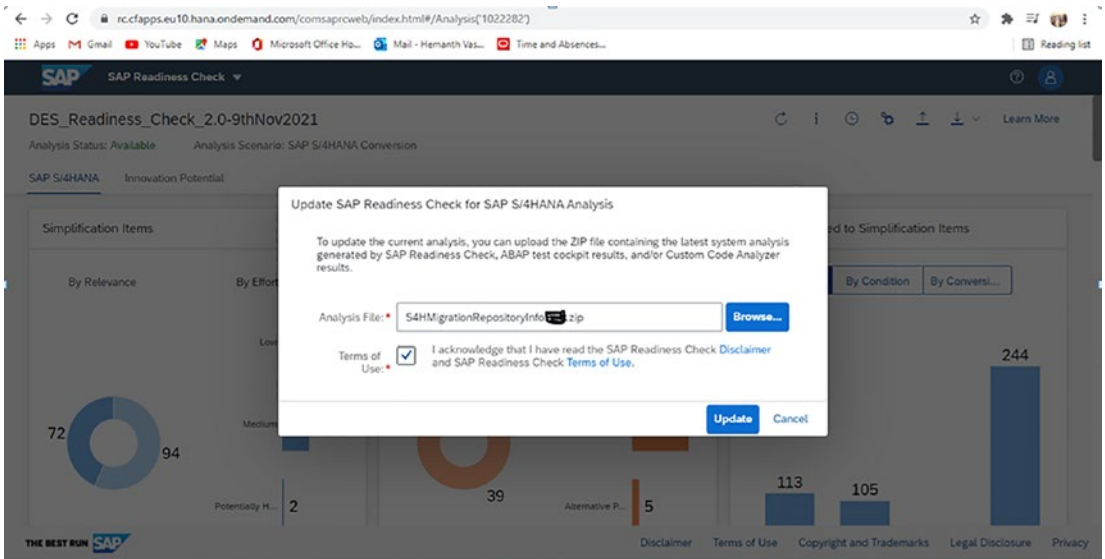
**Figure 2-4.** Readiness Check – Create Analysis



**Figure 2-5.** Readiness Check – Analysis Preparation

Once the analysis is in the ready state, open the analysis and use the ZIP file generated from the SYCM\_DOWNLOAD\_REPOSITORY\_INFO program (see Figure 2-6).

1. Click the Update Analysis icon in the top right.
2. Browse.
3. Select the earlier saved file.
4. Click Update.



*Figure 2-6. Update analysis*

## Tool 2: Process Discovery (Formerly Known as SAP Business Scenario Recommendations)

This report provides insights and tailored SAP S/4HANA recommendations. SAP ECC clients will appreciate this report, as it shows the business benefits of SAP S/4HANA. Refer to SAP Note 2758146 - SAP Readiness Check for SAP S/4HANA and Process Discovery (evolution of SAP Business Scenario Recommendations) or SAP Innovation and Optimization Pathfinder.

Customers can also plan their move to SAP S/4HANA using the following:

- SAP Readiness Check for SAP S/4HANA
- SAP Transformation Navigator
- SAP Enterprise Support Value Map for SAP S/4HANA
- SAP Value Assurance Service Packages
- Maintenance Planner
- SAP Innovation and Optimization Pathfinder

## An Overview of the Custom Code Analysis

As part of the SAP S/4HANA simplification process, you can see many simplified repository objects. The Z programs that access these repository objects may have an impact and may need attention to verify and adapt, so that they work after system conversion. There is an FAQ site about the amount of adaptation. Clients frequently ask how much time and effort is needed for adoption. This depends on the impacted items in the current system and how your Z programs use the objects. So you must do a custom code analysis before you start the conversion (SUM).

Repository objects that have existed for a long time in SAP ECC will be removed in SAP S/4HANA (for example, GLTO\_AEDAT). Access to such repository objects in Z programs will lead to syntax errors during activation.

Deleted programs or transactions with custom code must be adjusted (for example, Transaction Code MB11). They no longer exist in S/4HANA. SAP recommends user MIGO. Programs that access obsolete programs or transaction codes will be terminated and need to be adjusted.

## Custom Code Analysis and Adoption

When you use the SAP HANA database for an ABAP system, many features are different in SAP HANA. Three features in particular have an impact on the way consultants write ABAP programs:

- Column store
- Compression
- Parallel processing

There are changes in SAP S/4HANA. For example:

- De-pooling and de-clustering
- Deactivation of secondary indexes, which prevents unnecessary memory consumption

These changes impact the custom code, directly or indirectly. One change is that you cannot rely on a specific sort order in a SELECT result, unless the programmer explicitly requested such a sort order using the addition of an ORDER BY clause. If a piece of code

works properly only when the result of a SELECT statement is implicitly ordered, the code must be adjusted.

- During conversion, all the standard SAP objects are either upgraded or deprecated based on the latest business processes and programming standards.
- Some of the custom objects developed are not handled automatically in the conversion process.
- You must ensure that custom objects are still working after the conversion process and/or adapt them to the new environment if needed.

So, you might wonder, can't the upgraded system take care of the custom objects developed in the earlier versions? The upgraded system will surely take care of and execute the custom objects developed in the earlier versions, but the new system has many additional features and standards and the earlier objects should be adapted to these new features.

Since many standard objects are either upgraded or deprecated, it is necessary to perform a check that confirms the custom objects are aligned and adapted to the new environment.

This process of checking, confirming, and aligning custom objects to the S/4 HANA environment is called *custom code migration* and it's a mandatory activity in the conversion process.

Here are the phases during which these activities are performed:

- Custom Code Adaptation is performed at the realization phase after successful execution of SUM.
- SAP also recommends an optional activity, called Custom Code Analysis. This activity is done at the preparation phase, before the execution of SUM. It's optional and is done only to estimate the effort needed for custom code adaptation.
- Using Custom Code Analysis, the scope of the custom code adaptation can be determined, and hence the effort can also be determined.
- Unused programs can be listed and stopped from being migrated to the converted system.



Determine whether a custom object should be adapted:

- To check whether objects in the system need an adaptation, SAP provides a package called Simplification Database.
- This package can be downloaded from the SAP marketplace. It contains all the checks and possible suggestions/notes for the errors in the custom objects developed in the earlier versions.
- This simplification database should be imported into the new upgraded S/4 HANA system.
- Checks are then configured and monitored to analyze the custom code and adapted as required.

Follow these steps to configure and monitor the custom code checks against the simplification databases:

1. Download the latest version of the simplification database from the SAP marketplace (available as a ZIP file).
2. Import the ZIP file into the converted S/4 HANA system using transaction SYCM.
3. The contents of the simplification database can also be displayed in SYCM.
4. Once the contents are displayed successfully, the checks should be configured. This is done through the transaction ATC.
5. The list of custom objects to be checked and the variant against which the checks are done can be selected in the ATC transaction.
6. After selecting the required fields, the checks can be scheduled and monitored (and the results can be displayed).
7. Quick fixes are then applied based on the error description and possible suggestion/note.

## How Custom Code Analysis Is Performed

Since this activity is performed before the conversion, you must have another system that is already on the target version of the S/4 HANA.

- Checks are done by this S/4 HANA system and hence it is called the *central check system*.
- The system that is being converted is called the *checked system*.
- The central check system should be equipped with the latest version of the simplification database.
- The ATC configuration is then done in the central check system and monitored for results.
- No fixes are done during this activity.
- Only the unused objects are identified and stopped from being migrated in the conversion process.
- SAP recommends this activity to be performed, as the scope of the custom code adaption can be determined.

How the central check system and checked systems are linked:

- A link is established between the two systems using RFC connections in SM59.
- The central check system should be able to log in to the checked system using a connection without a login dialog.

System requirements of the central check system and checked system:

- There are many roles and authorization objects that are assigned to the central check and checked systems. For instance:
  - The latest version of the simplification database should be imported to the central check system.
  - The SAP user ID used to configure ATC runs in the central check system and should have the SAP\_SATC\_ADMIN role.

- The authorization object S\_YCM should have a value of SDB for the SYCM\_AREA authorization field and a value of UL for the ACTVT authorization field.
- The SAP\_BASIS component in the central check system should be 7.52 (or higher).
- The RFC user of the checked system should have the S\_RFC and S\_DEVELOP authorization objects.
- There are notes to be applied to the central check system (2436688, 2364916) and the checked system (2485231, 2270689, 2190065).

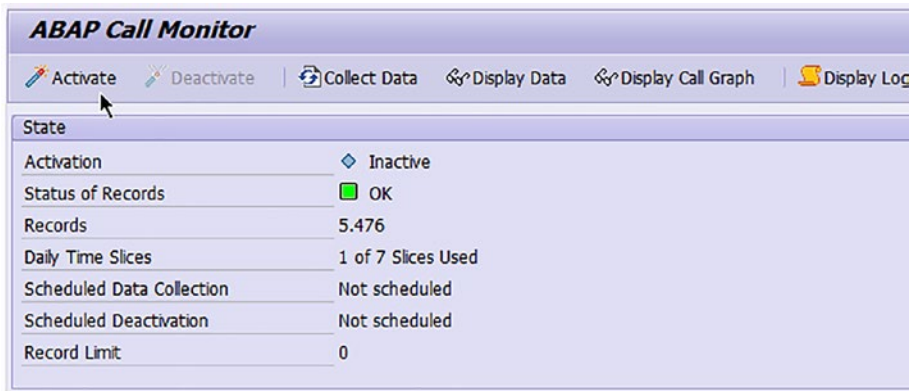
## Tools for Custom Code Analysis

### Tool for Identifying Unused Custom Code: SCMON

The SCMON transaction is used to identify the frequency at which an object is executed. Objects that are not used for many days (more than a year) can be considered unused/not suitable for the business process. These custom objects can be stopped from being migrated during the conversion process.

Transaction SCMON:

- Decide on a period (time duration) for analysis and activate the call monitor for that period.
- Deactivate the call monitor after the period is complete.
- Display the data collected by the call monitor (see Figure 2-7).



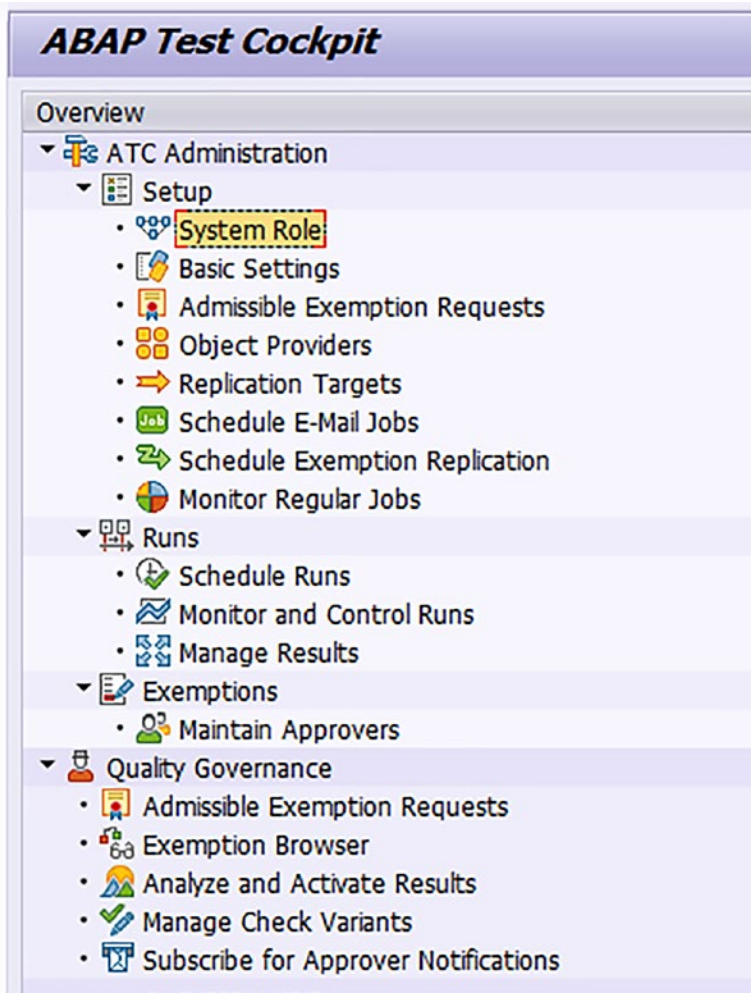
*Figure 2-7. ABAP Call Monitor*

## Extended Program Check-SLIN

### Code Inspector -SCI

In the earlier versions of SAP, SLIN was used to check a single repository object. Later, SCI was introduced, which could handle multiple repository objects. In the latest versions, SAP introduced ATC, which is used to schedule the checks in the background and monitor them. It is also used to perform checks on remote systems along with the local system.

For example, whenever ATC is used, the scope of the usage should be determined i.e., whether the checks are done locally or on remote systems. This is specified in the system role (see Figure 2-8).



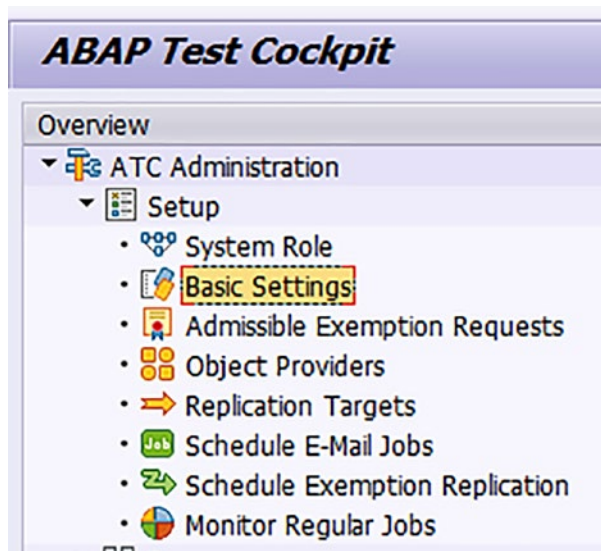
**Figure 2-8.** ABAP Test Cockpit

Inside the system role, click the Change Option. Select the ATC Check Using Object Providers radio button (see Figure 2-9).



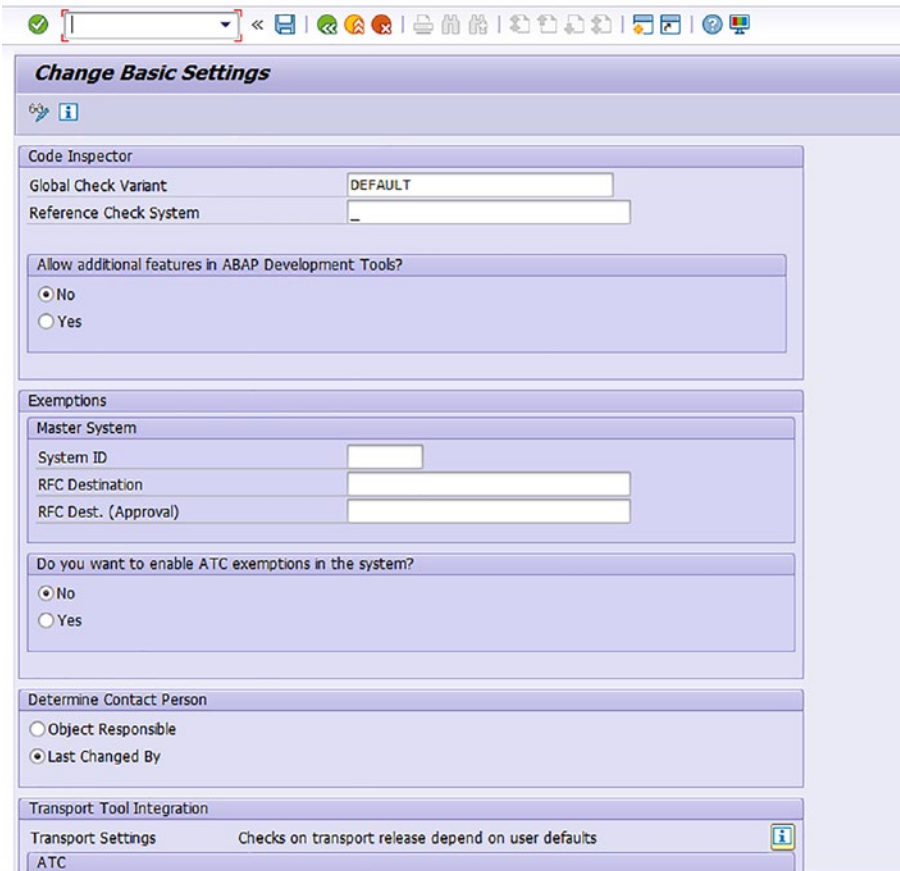
**Figure 2-9.** System Role

Save the change and come back to the ATC Transaction home screen. The next step is to specify the check variant (the list of checks against which the objects are checked). This is done in Basic Settings. Double-click the Basic Settings option under the Setup menu (see Figure 2-10).



**Figure 2-10.** ABAP Test Cockpit - Basic Settings

DEFAULT is the predefined check variant that is maintained. But you can select a required variant from the drop-down list as well. It is best to select variants specific to the S/4 HANA version you are migrating to. For example, for a system migrating to S/4 HANA 2020 uses the S4HANA\_READINESS\_2020\* variant (see Figure 2-11).



**Figure 2-11.** Basic settings

Save the changes and go back to ATC home menu. If ATC is done for remote checks, the object providers should be specified. The object provider is the RFC destination of the system that is being checked by ATC.

Click Object Providers in the ATC Menu (see Figure 2-12).

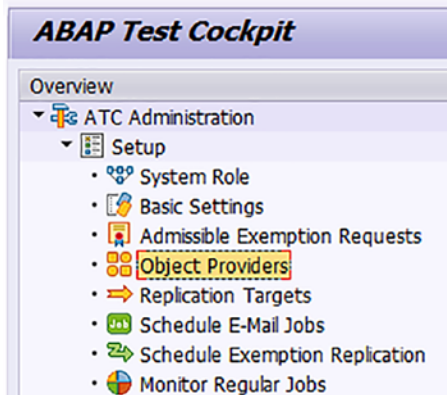


Figure 2-12. ABAP Cockpit Object Provider

## Maintain System Group Information

Click Change Icon and add a new entry. Enter an ID and a description (see Figure 2-13).

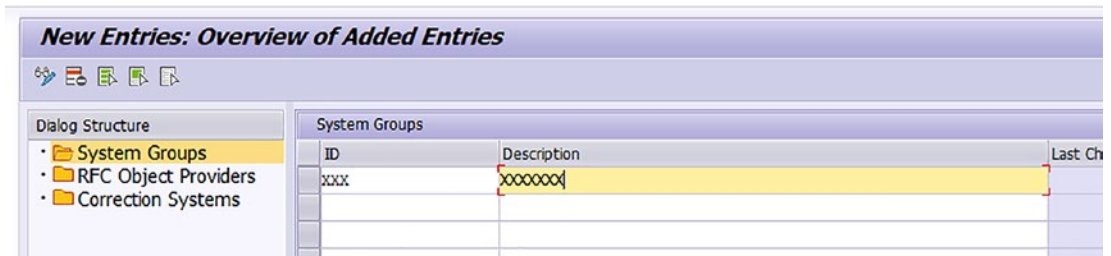


Figure 2-13. System Group

Save the entry and then click RFC Object Provider. Then enter an ID, a description, and RFC destination details. ATC is used for remote checks (see Figure 2-14).

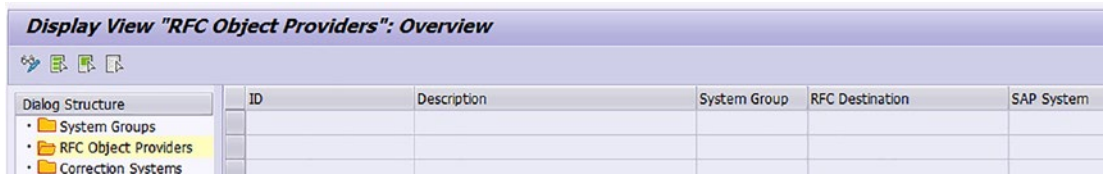


Figure 2-14. RFC Object Providers



Save the entry and come back to ATC menu screen. The next step is to schedule ATC runs. Double-click Schedule Run from the ATC home menu (see Figure 2-15).

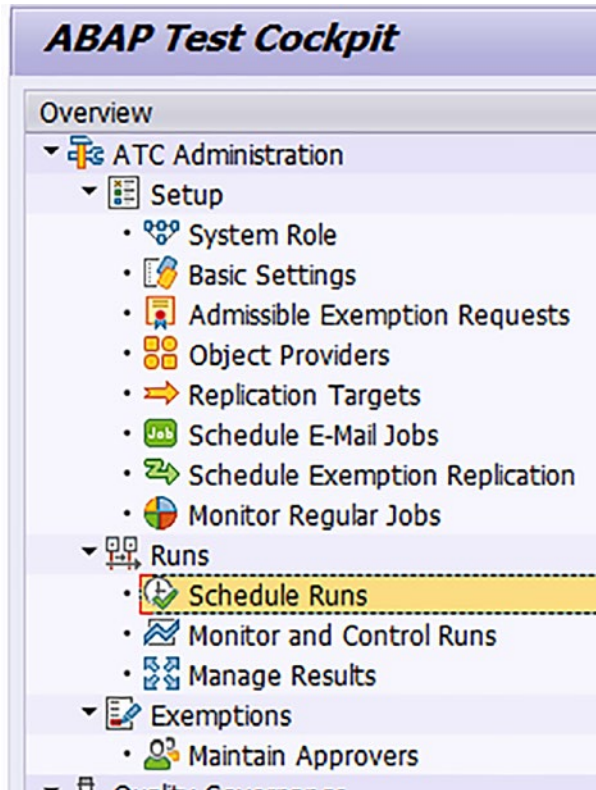


Figure 2-15. ABAP Cockpit Schedule Runs

Click the Create button to create a new run series (see Figure 2-16).

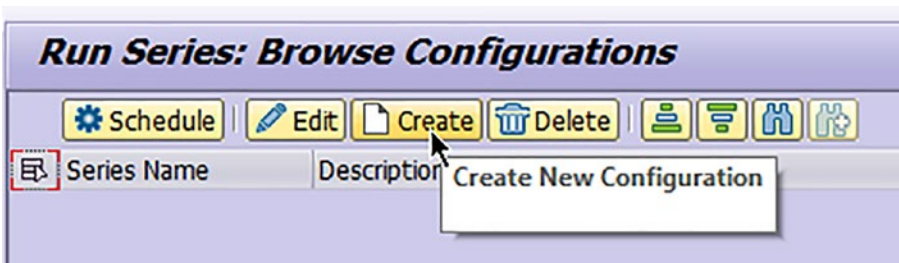


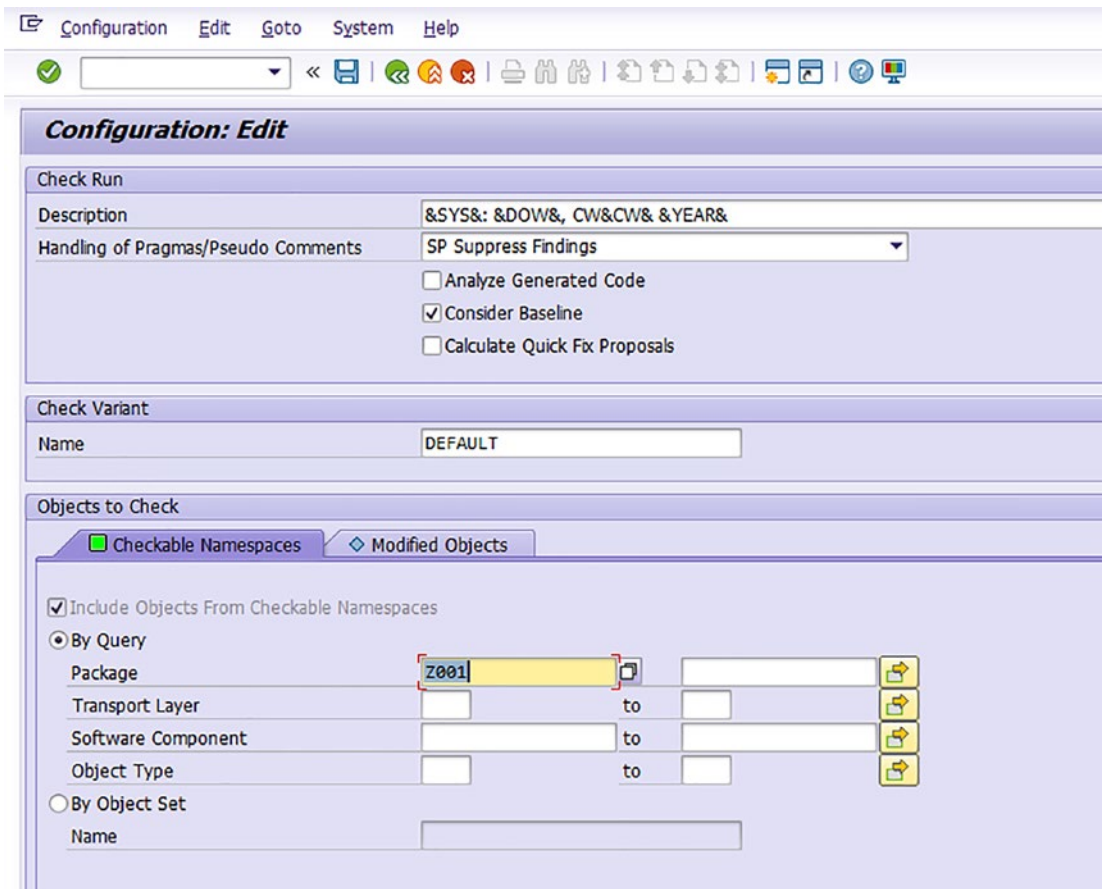
Figure 2-16. Schedule Run Series

A pop-up appears. Enter a series name and click Confirm (see Figure 2-17).



**Figure 2-17.** Run Series Name

Provide a check run description and select a required check variant. Provide the list of objects to be checked (by name, package, or type) and then click Save (see Figure 2-18).



**Figure 2-18.** Browse Configuration Runs

Select the configuration. Click Schedule Series and execute. From the list, select the newly created series name you created and click Schedule.

It will schedule a program in the background (see Figures 2-19 and 2-20).

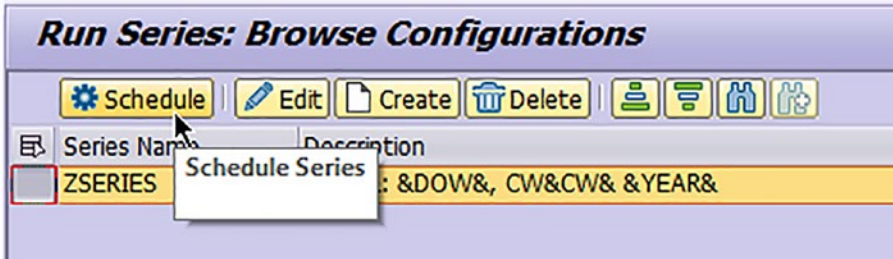


Figure 2-19. Schedule the series

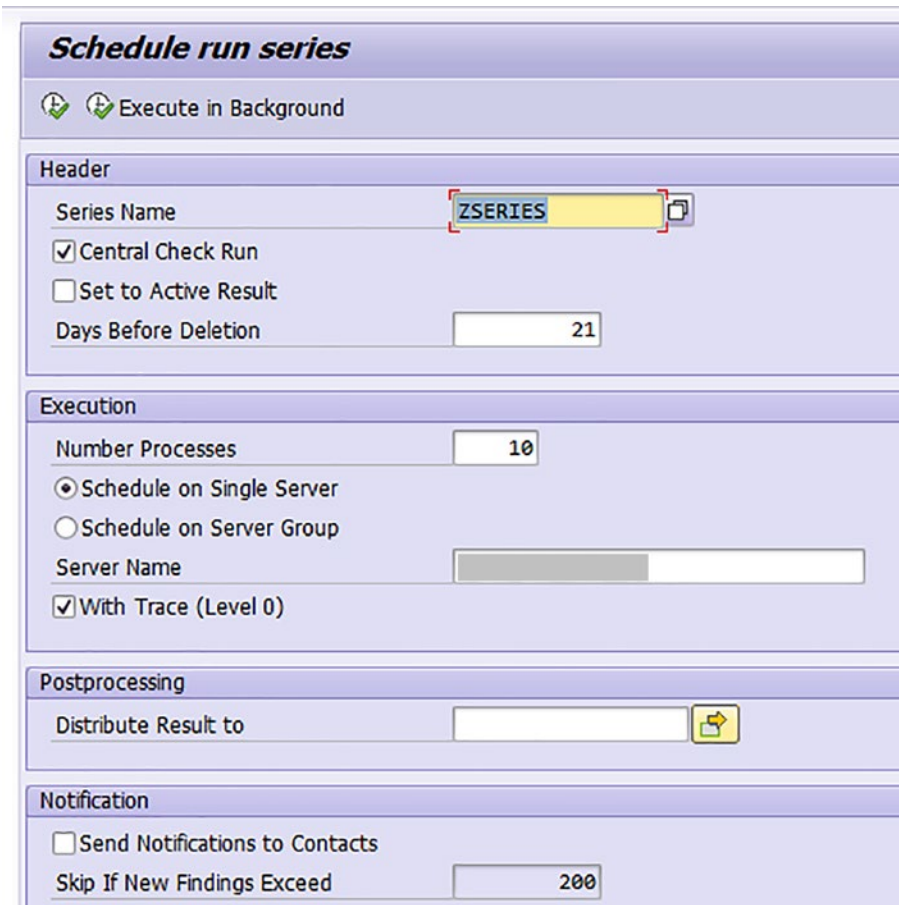
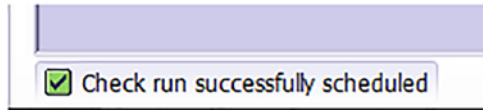


Figure 2-20. Schedule the run SERÇIES

A background program is scheduled with the series name. The status of the background job can be viewed in transaction SM37.

The background job runtime will depend on the number of objects selected when configuring the run series. Once this job is finished, you can check the finding results.

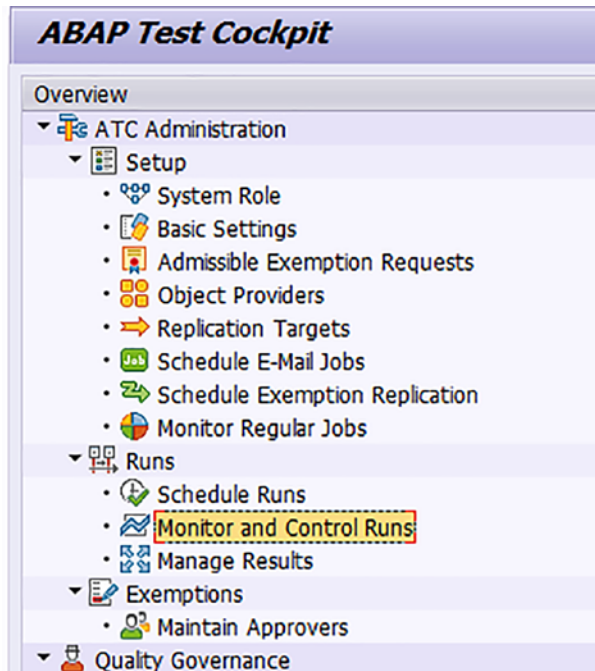
The message in Figure 2-21 appears after successfully scheduling the configuration.



**Figure 2-21.** Run Scheduled information message

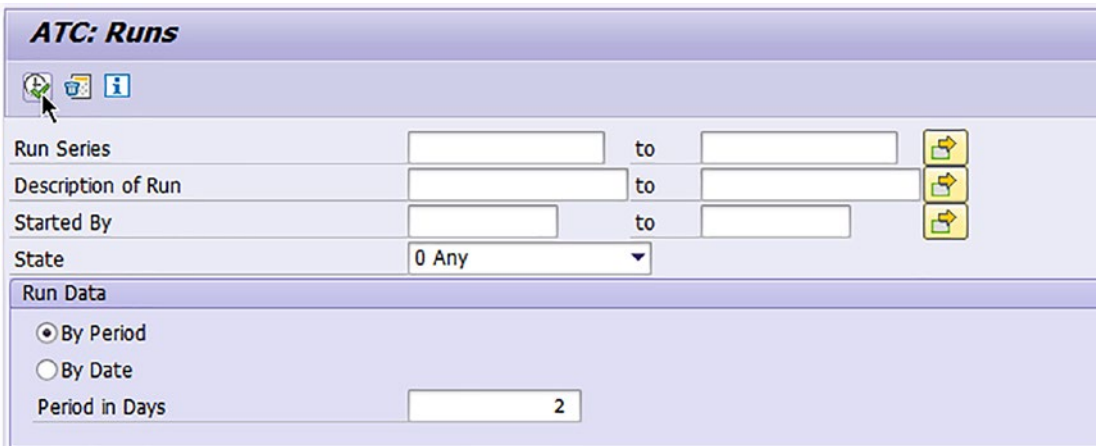
The next step is to monitor the scheduled configuration.

In the ATC main menu, double-click Monitor and Control Runs (see Figure 2-22).



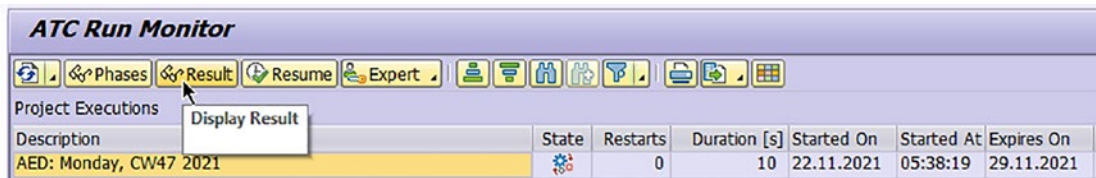
**Figure 2-22.** ABAP Test Cockpit

Enter the run series name or execute it open wide (see Figure 2-23).



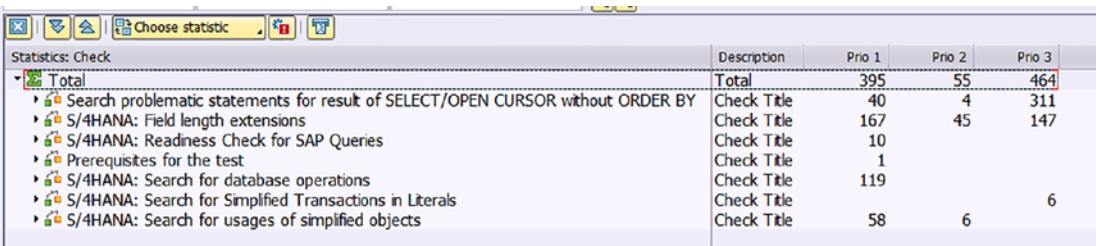
**Figure 2-23.** ATC runs

Select the scheduled run series. Click Display Result after the scheduled ATC run is completed (see Figure 2-24).



**Figure 2-24.** ATC Run Monitor

The results are displayed in statistical views. You can view them in different formats by drilling down using the Choose Statistic option (see Figure 2-25).



**Figure 2-25.** ATC Run Monitor

Based on the results, you can analyze the objects and do the custom code adaptation using ABAP Development Tools.

## Custom Code Adaptation

- After the system conversion is completed successfully, you need to adapt the custom code in the upgraded system.
- SAP provides the SPDD, SPAU, and SPAU\_ENH transactions, through which you can reset or adjust to any modification done to the ABAP data dictionary and development objects. This can happen during and after the conversion is completed.
- A local ATC run needs to be scheduled in an upgraded S/4 system for custom code findings. For that you need to import a simplification database system (As in the “Central Check System” mentioned previously, but with the system role set to Local Run.)
- Based on the local ATC run results, you need to adapt objects that are identified by fixing them through Eclipse, ADT (ABAP Development Tools).
- By analyzing and adapting the custom code to the new S/4 HANA environment, it is possible for the business process to use the latest standards of development as much as possible.

## Conclusions

Custom Code Analysis and Adoption is one of the most important conversion activities. As there are several simplifications in SAP S/4HANA, the Z custom code has to be analyzed and adapted. If not, the custom code may not work as expected or will produce dumps after system conversion. Every simplification item includes changes to SAP objects and refers to an SAP Note. This SAP note shows the impact of the change and how the related custom code must be adapted.

As a Central Check System, the SAP NetWeaver Application Server for ABAP 7.52 is used. There are two steps in the conversion process to handle custom code:

1. Custom Code Analysis ► Preparation phase ► (Optional).
2. Custom Code Adaptation ► Realization phase ► (Mandatory).

Custom code should be adapted to the S/4 HANA environment after system conversion. This is done after the upgrade and after adjustments are made through SPAU and SPDD.

Prior to adapting the custom code after conversion, Custom Code Analysis can be performed in the preparation phase to estimate the effort required for the adaptation. This Custom Code Analysis should be done before converting the system to S/4 HANA. It should be noted that Custom Code Analysis is only a recommendation, but Custom Code Adaptation is mandatory.

Programming consultants working on SAP S/4HANA conversion should understand impact of custom code on SAP S/4HANA and the need for code adaptation. They must analyze the simplification item list and SAP notes specified by the SI check report and the SI check catalog. Identifying unused and retired custom code is very helpful for the customers, so they can cleanse the code before adopting unused code. It saves on time and cost.

SAP Readiness Assessment also helps to identify custom code. You can also analyze custom code with the Custom code Migration Fiori app, adopting code that is related to syntax errors, simplified objects, filed length extensions, obsolete transaction codes, obsolete programs, and obsolete database tables, which are an important part of the custom code adaptations.

The next chapter provides an overview of the conversion process and preparations that are needed for conversion. It also discusses tools that are needed for conversion.



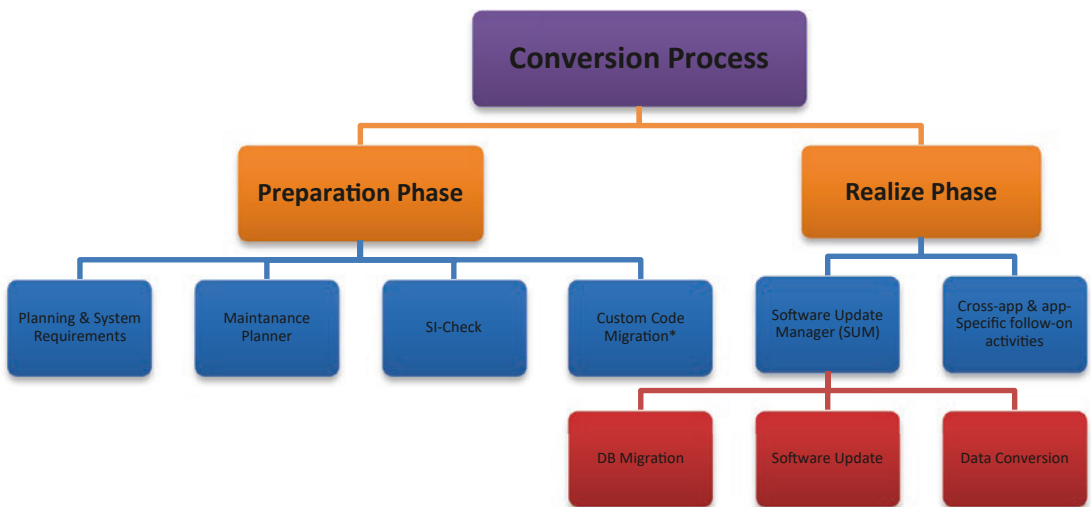
# CHAPTER 3

# An Overview of SAP ECC System Conversion

This chapter provides an overview of the system conversion process and explains the important tools that are necessary. The system starting point determines which tools consultants have to use. Consultants should refer to SAP Help documents, SAP Notes, and the SAP Conversion Guide while performing the system conversion.

## Overview of the Conversion Process

Figure 3-1 shows an overview of the ECC system conversion process to SAP S/4HANA.



**Figure 3-1.** Overview of the conversion process



The entire conversion activity can be broadly divided into two phases:

- Preparation phase
- Realization phase

SAP recommends performing the activities in this sequence, not randomly. The Simplification Item Check report enables consultants to plan for the functional preparation for SAP S/4HANA conversion.

The preparation phase includes these steps:

1. Readiness check and BSR and pathfinder reports for knowing affected simplified items and mandatory changes to be performed
2. Maintenance Planner
3. SI check
4. Custom code migration
5. Cross application activities

The realization phase includes these steps:

1. SUM
2. Follow-on activities
3. Conversion Cockpit

## The Preparation Phase

### 1. The Readiness Check

The Readiness Check gives an initial high-level impression of the conversion activity. You may refer to SAP Note 2758146, “SAP Readiness Check.”

### 2. Maintenance Planner

When planning for SAP S/4HANA conversion, we can simulate this. This simulation can help determine the planning and preparation activities of the conversion project, as we know about business functions, add-ons, and industry solutions that are compatible with SAP S/4HANA. It checks ECC system’s add-ons, business functions, and industry

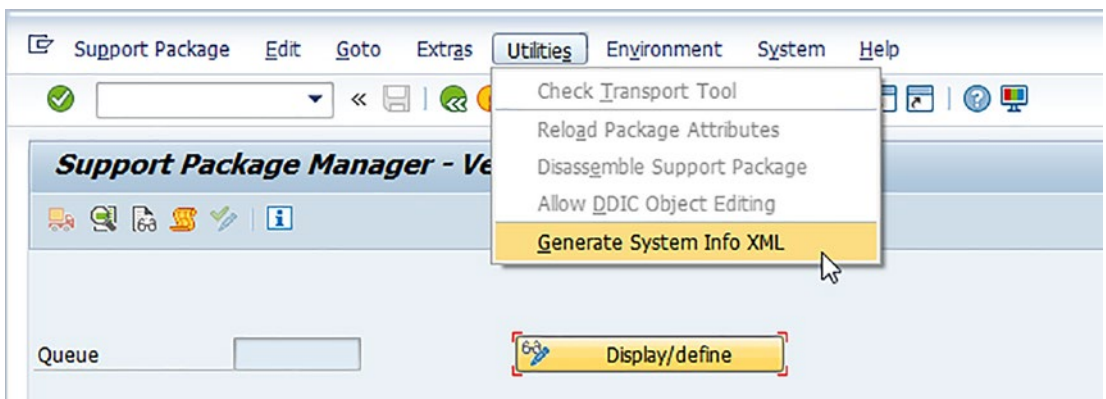
solutions to ensure compatibility with SAP S/4HANA. It also creates the stack file used for the actual SAP S/4HANA conversion process.

Maintenance Planner should be used as shown in SAP Note 2287046. It checks if add-ons, business functions, and industry solutions are supported for the conversion. Maintenance Planner is required to generate the XML file.

To ensure compatibility with SAP S/4HANA, it creates a stack file that is used for the conversion process that is being done by the SUM. The Maintenance Planner example in Figure 3-2 taken for:

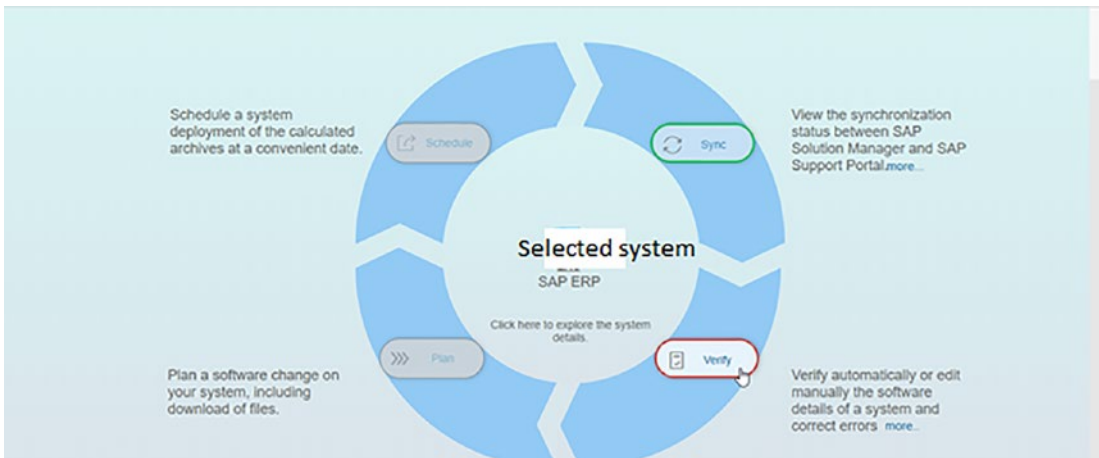
Source: ECC6.0 EHP8 SIMPLE FIN 1605 >> Target: S/4HANA 1909 FPS02

If there is no availability of SOLMAN, choose the Generate System Info XML file from SPAM and upload it to MP (see Figure 3-2).



**Figure 3-2.** SPAM – Utilities menu

Run the Maintenance Planner from [https://apps.support.sap.com/sap\(bD1lbizjPTAwMQ==\)/support/mp/index.html](https://apps.support.sap.com/sap(bD1lbizjPTAwMQ==)/support/mp/index.html) (see Figure 3-3).



**Figure 3-3.** Maintenance Planner’s Tasks

Figure 3-3 shows the Maintenance Planner’s Tasks:

- Synchronize the SAP system information
- Verify the SAP system
- Define the SAP system track
- Plan software change
- Schedule deployment

### 3. Simplification Item Check (SI Check)

The third tool is the Simplification Item Check (SI Check). Refer to SAP Note 2399707. You can use SAP Note 2245333 for additional checks. The Simplification Item Report for SAP S/4HANA displays the items that are relevant for current ECC source systems to convert to SAP S/4HANA. These items will be identified by this tool based on certain factors, such as the transaction codes and programs used, customizations, and table contents. For functional consultants, this SI check report is the most important means of preparing the current ECC system for SAP S/4HANA conversion. Functional consultants will be able to filter items as optional, mandatory, conditional, and so on, to prepare the system. This is a mandatory activity. All the errors in the report must be resolved before executing SUM. Refer to SAP Note 2399707.

If you want to run the consistency check, implement SAP Note 2399707 and SAP Note 2502552. SAP Note 2502552 is not required for SAP S/4HANA and SAP BW/4HANA (SAP Readiness Check).

SAP strongly recommends using the production system; otherwise the results might not be accurate. If your system is a copy of the production system, implement SAP Note 2568736 to prepare the required ST03N data.

One issue that crops up when you use a system copy from a production system is that the ST03N data cannot be copied to perform the check. In this case, you can utilize the function provided with this note. Refer to SAP Note 2568736.

Update SPAM if it is lower than 71 (see Figures 3-4 to 3-6).



**Figure 3-4.** SPAM version

Implement SAP Note 2399707, if it's not already implemented.

Note	Version	Short text	Component ID	Proc. Status	Implementation State	User Name
2399707	134	Simplification Item Check	CA-TRS-PRCK	In Process	Completely implemented	

**Figure 3-5.** SAP Note 2399707

Use ST-PI, as shown in Figure 3-6.

Component	Release	SP-Level	Support Package	Short Description of Component
SAP_BASIS	750	0003	SAPK-75003INSAPBASIS	SAP Basis Component
SAP_ABA	750	0003	SAPK-75003INSAPABA	Cross-Application Component
SAP_GWFND	750	0003	SAPK-75003INSAPGWFND	SAP Gateway Foundation
SAP_UI	750	0004	SAPK-75004INSAPUI	User Interface Technology
ST-PI	740	0012	SAPK-74012INSTPI	SAP Solution Tools Plug-In
SAP_BW	750	0003	SAPK-75003INSAPBW	SAP Business Warehouse

**Figure 3-6.** ST- PI

Refer to SAP Note 2502552.

Prerequisites:

- Follow the descriptions in the TCI\_for\_Customer.pdf attachment from Note 2187425. It describes how to enable SNOTE for implementation of TCIs, as well as how to enable SNOTE for reimplementing of TCIs.
- Note that the TCI enablement needs to be done in every system before a TCI can be implemented. This applies to systems where the TCI gets implemented via transport (such as the Q or P system).

SAP Download Service (a new feature):

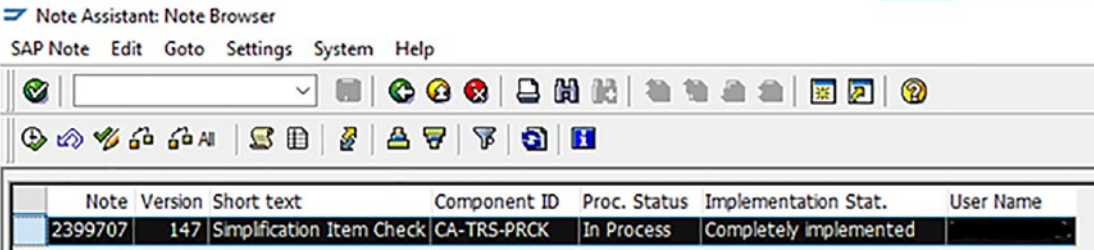
- The SAP Download Service is a feature of the SNOTE that allows users to download them as digitally signed notes via SNOTE. It also allows downloading TCI files from TCI notes automatically.
- This means that the points 5 and 6 below are not required anymore as they will be handled by the SAP Download Service once it is activated.
- As a prerequisite to activate the Download Service, be sure to perform the TCI enablement before.

See Notes 2576306 and 2554853 for more information about the SAP Download Service.

Generating a Simplification Item Check:

1. Implement Note 2399707, Simplification Item Check.
2. Update data using SAP Note 2568736.
3. Execute the checks in 000 for correct results and ensure SPAM version is 71 or higher.
4. Enter T-Code SA38 => /SDF/RC\_START\_CHECK.
5. Once the job finishes, go back to the program and click Display Last Test Result 4 (see Figure 3-7).

## Implement 2399707 - Simplification Item Check



Note	Version	Short text	Component ID	Proc. Status	Implementation Stat.	User Name
2399707	147	Simplification Item Check	CA-TRS-PRCK	In Process	Completely implemented	

*Figure 3-7. SAP Note 2399707*

## Update Data Using SAP Note 2568736 – SAP Readiness Check for SAP S/4HANA – Copy ST03N Data

SAP Note 2399707 (minimum version 77) has also been implemented in the target system, where the SAP Readiness Check is performed. We are at Version 147 (see Figures 3-8 to 3-11).

CHAPTER 3 AN OVERVIEW OF SAP ECC SYSTEM CONVERSION

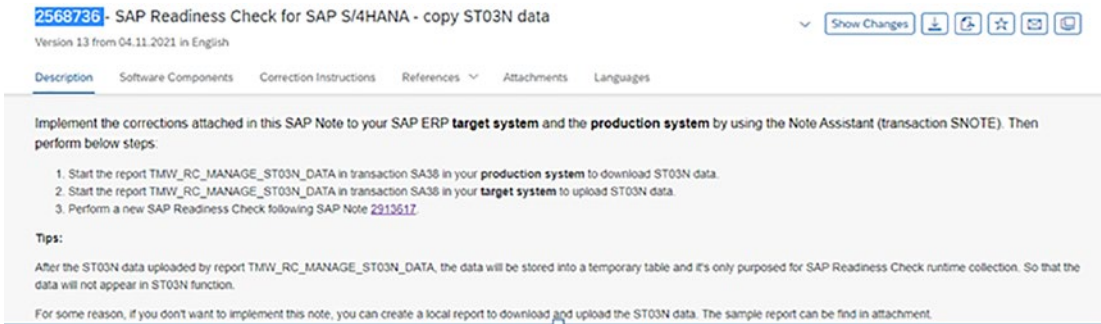


Figure 3-8. SAP Note 2568736

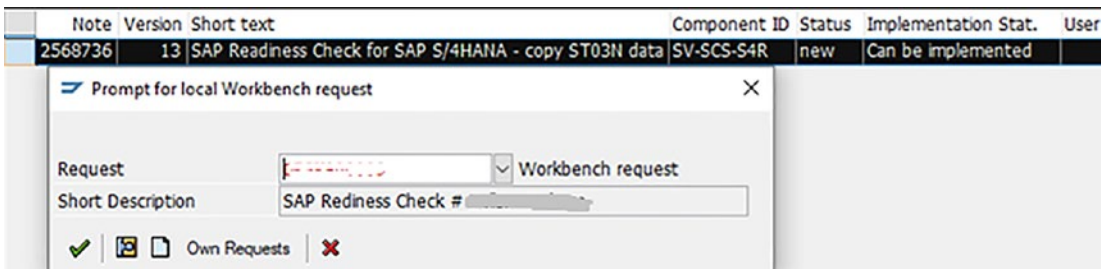


Figure 3-9. SAP Note 2568736 Implemented

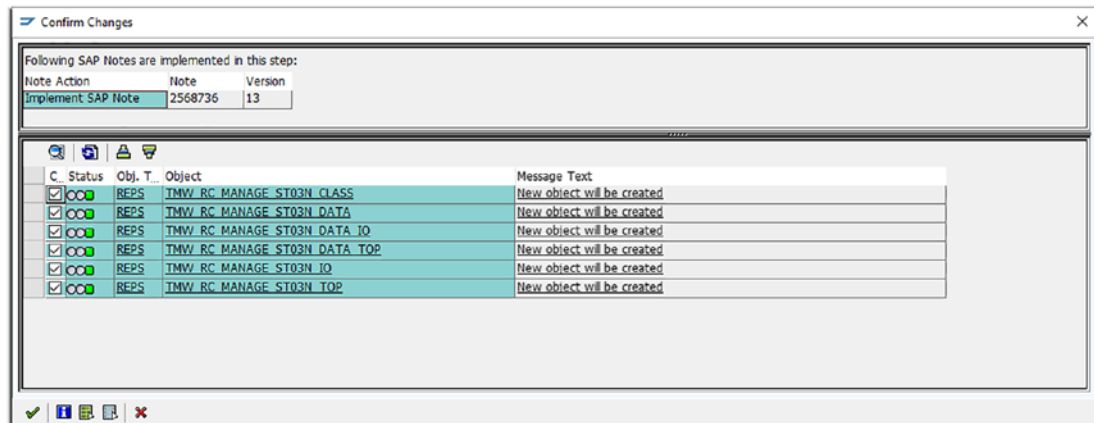
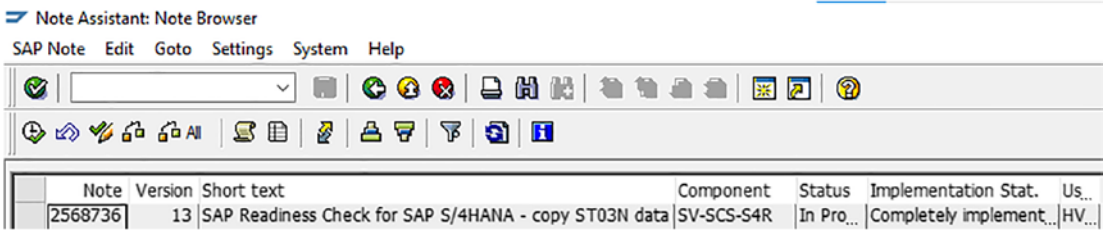


Figure 3-10. Confirm Changes

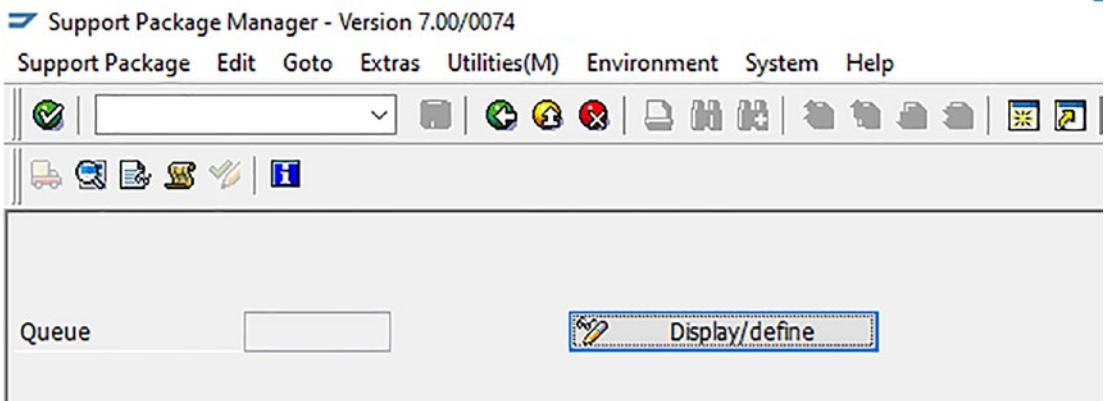




**Figure 3-11.** SAP Note 2568736 implemented

Apply Notes 2536585, 2606986, 2615270, and 2569813 (manual steps). Ignore any note that give a message that it cannot be implemented.

Execute the checks in 000 for correct results and ensure that the SPAM version is 71 or higher (see Figures 3-12 to 3-14).



**Figure 3-12.** SPAM version

Enter T-Code SA38 => /SDF/RC\_START\_CHECK



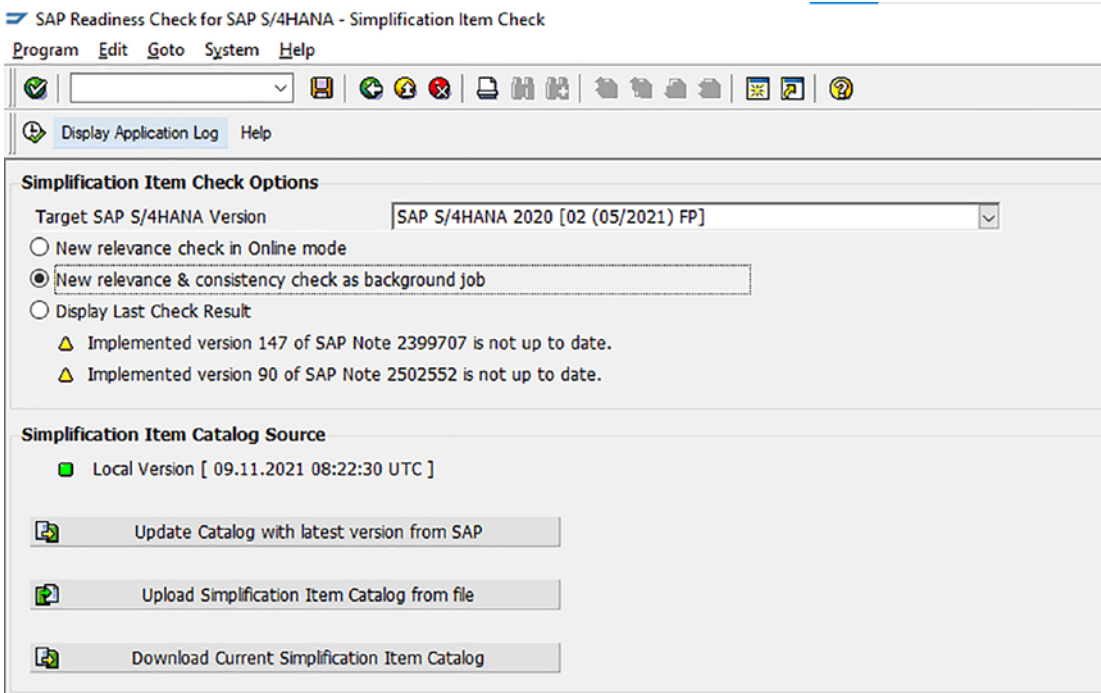


Figure 3-13. Simplification Item Check

Once the job finishes, go back to the program and click Display Last Test Result.

	A	B	C	D	E	F
1	Relevance	Last Consistency Result	Exemption Possible	ID	Title	Job/Technology
2	⚠	⚠	⊗	SI2: MasterData_BP	S4TWL - Business Partner Approach	Database and Data Management
3	⚠	⚠	⊗	SI3: HR_LEARN	S4TWL - SAP Learning Solution	Human Resources
4	⚠	⚠	⊗	SI1: Logistics_MMIM	S4TWL - DATA MODEL IN INVENTORY MANAGEMENT	Supply Chain
5	⚠	⚠	⊗	SI1_FIN_GL	S4TWL - GENERAL LEDGER	Finance
6	⚠	⚠	⊗	SI22: GENERIC_CHECKS	S4TWL - Generic Check for SAP S/4HANA Conversion	IT Management
7	⚠	⚠	⊗	SI2: FIN_AA	S4TWL - ASSET ACCOUNTING	Finance
8	⚠	⚠	⊗	SI2: Logistics_PP-MRP	S4TWL - Storage Location MRP	Manufacturing
9	⚠	⚠	⊗	SI5: MasterData_PM	S4TWL - Simplification of copy/reference handling	Database and Data Management
10	⚠	⚠	⊗	SI4: HR_EREC	S4TWL - SAP E-Recruiting	Human Resources
11	⚠	⚠	⊗	SI2: SD_PRIC	S4TWL - Data Model Changes in SD Pricing	Sales
12	⚠	⚠	⊗	SI33: Logistics_General	S4TWL - Retail Information System	Solutions for Specific Industries
13	⚠	⚠	⊗	SI3: Logistics_MMIM	S4TWL - Material Ledger Obligatory for Material Valuat	Supply Chain
14	⚠	⚠	⊗	SI6: FIN_MISC_ML	S4TWL - Conversion to S/4HANA Material Ledger and	Finance
15	⚠	⚠	⊗	SI6: MasterData_PM	S4TWL - Foreign Trade fields in Material Master	Finance
16	⚠	⚠	⊗	SI10: Industry_DIMP_AD	S4TWL - Actual labor and costing	Solutions for Specific Industries
17	⚠	⚠	⊗	SI10_IS_DIMP_HT	S4TWL - Manufacturing Execution Systems	Solutions for Specific Industries
18	⚠	⚠	⊗	SI2: Logistics_General	S4TWL - Generic Article Harmonization	Solutions for Specific Industries
19	⚠	⚠	⊗	SI4: IS_DIMP_AUT	S4TWL - Cross-System Transit between Two Plants	Solutions for Specific Industries
20	⚠	⚠	⊗	SI4_IS_DIMP_HT	S4TWL - Billing Process Enhancements	Solutions for Specific Industries
21	⚠	⚠	⊗	SI5: Logistics_PSS	S4TWL - Add-On: SAP Product and REACH Compliance	Asset Management
22	⚠	⚠	⊗	SI5_IS_DIMP_HT	S4TWL - Software Maintenance Processing	Solutions for Specific Industries
23	⚠	⚠	⊗	SI6: Logistics_PSS	S4TWL - Add-On: EHS Web-Interface	Asset Management

Figure 3-14. Simplification Item Check results

During the preparation phase of the SAP S/4HANA Conversion, or during the upgrade of the SAP S/4HANA system, you have to carefully analyze all the simplification items. These items may impact present business processes.

We can broadly divide these items into two categories:

- Relevance checks
- Consistency checks

It is better to read warning messages and perform activities if needed for every application area.

## 4. Custom Code Analysis

As the SAP S/4HANA data model simplifies modifications, Z developments may not work unless we adopt them. We will use the central ATC check system. Consultants need to refer to the Custom Code Migration Guide.

Implement SAP Notes 2485231 and 2270689 in the checked SAP system. This central check system must be SAP\_BASIS 7.52 or above. SAP Notes 2436688 and 2364916 and associated SAP Notes have to be implemented. Download and upload the Simplification Database as a ZIP file into the central check SAP system using SAP Note 2241080.

On your system, choose transaction code SYCM ► Simplification Database ► Import from ZIP File.

- Use transaction code ATC for analysis.
- Use Check Variant S4HANA\_READINESS\_REMOTE.
- Analyze results of ATC using transaction SE80.
- Choose Utilities ► Settings. Select ATC Result Browser and confirm. Select the ATC Result Browser button and check the results.

You can see the SAP Readiness document for an overview of Custom Code Analysis. If the ABAP Test Cockpit has been executed in an SAP NetWeaver 7.52 system, SAP RC estimates the portion of findings with Quick Fix support. After executing ATC in the SAP S/4HANA sandbox system, the SAP Readiness Check will show which findings have Quick Fix support.

Custom code migration is one of the most important activities in system conversion, as the source system runs will be converted to the SAP S/4HANA system. In this context, the custom code is required to be adapted to run on HANA.

When customers move to SAP S/4HANA, a part of their custom programs may not be needed. Consultants working on the conversion system will let customers know if an equivalent standard program exists in SAP S/4HANA.

SAP's Custom Code Migration Guide describes the complete process of adaption and tools that are necessary and activities that are to be performed. As part of preparation of conversion, ABAP programmers analyze the customer code and plan for adaptation of the custom code. Once the system is converted, they remove any obsolete code, as indicated in the Usage procedure Log UPL/SCMON.

Refer to the ABAP Call Monitor SCMON to analyze usage of custom code. Also refer to the ABAP Test Cockpit documentation.

## The Realization Phase

### 1. Software Update Manager

Key technical stages:

- **Select Upgrade/ Conversion Target:** It is an uptime activity and can be done using the Maintenance Planner.
- **SAP S/4HANA Conversion: Prepare Phase:** Refer to the Conversion Guide for SAP S/4HANA at [https://help.sap.com/viewer/product/SAP\\_S4HANA\\_ON-PREMISE/2021/en-US?task=discover\\_task](https://help.sap.com/viewer/product/SAP_S4HANA_ON-PREMISE/2021/en-US?task=discover_task).
- **Manual Preparation Activities:** Any PREPARATION activities that need to be done manually while referring to SUM Guides, Application Guides, ASU Toolbox, and SAP Notes must be addressed.
- **SUM - Perform Prepare Part**
- **SUM - Perform Executive Part:** Includes downtime activities, Database Migration (DMO), and SAP S/4HANA Conversion.
- **Perform post update steps:** Any post-update activities that need to be done manually while referring to SUM Guides, Application Guides, ASU Toolbox, and SAP Notes must be addressed, including downtime activities.
- **SAP S/4HANA Conversion: Follow-on activities** together with downtime activities, as mentioned in the Conversion Guide for SAP S/4HANA.

## Software Update Manager 2.0

SUM 2.0 was introduced in 2017. The respective version for maintenance activity is provided by the Maintenance Planner. SUM 2.0 for AS ABAP-based SAP systems targets SAP\_BASIS 7.50 or higher, while SUM 1.0 was cast off for SAP\_BASIS 7.40 or lower (i.e., for SUM 1.0 is used for dual stack, ABAP Stack, and Java Stack).

## Software Logistic Tools

SAP recommends using the latest version of these tools. A few documents to refer to include:

- SAP Note 1563579
- SAP Note 1589311
- SAP Note 2965844
- SL Toolset Blogs on SAP Community

## SUM Maintenance Scenarios: Performing Steps from the SUM Guide

1. Software upgrade using SUM.
2. Database migration option (DMO) using SUM.
3. System conversion to SAP S/4HANA using SUM 2.0.

## Software Update/Upgrade with SUM 1.0/SUM 2.0

Upgrade/update SAP NetWeaver based systems. SUM 1.0 was cast off for SAP\_BASIS 7.40 or lower (i.e., for SUM 1.0 is used for dual stack, ABAP Stack, and Java Stack).

Refer to SAP Note 2682395, Guides for SUM 1.0 SP 26, and relevant SAP Community information.

SUM 2.0 For AS ABAP-based SAP systems target SAP\_BASIS 7.50 and higher. Refer to SAP Note 2935104, Guides for SUM 2.0 SP 10, and relevant SAP Community information.

## Database Migration Option (DMO) Using SUM

Database Migration Option (DMO) with SUM 1.0 is a combined update and migration to SAP S/4HANA process, for target systems below SAP\_BASIS 7.50. Refer to SAP Note 2882431, Guides for DMO with 1.0 and SP 26, and relevant SAP Community information on DMO.

Database Migration Option (DMO) with SUM 2.0 is a combined update and migration to SAP S/4HANA process for target systems that are SAP\_BASIS 7.50 and higher. Refer to SAP Note 2976921, Guides for DMO with 2.0 and SP 10, and relevant SAP Community information on DMO.

## System Conversion to SAP S/4HANA Using SUM 2.0

System conversion as transition from an SAP ECC system to SAP S/4HANA can be done with or without DMO; refer to SAP Note 2976884. (This note is considered the Central SUM Note for SAP S/4HANA conversion. It contains data about manual activities, application-specific SAP Notes, conversion paths, and DB-specific SAP Notes. It can be accessed from <https://support.sap.com/en/tools/software-logistics-tools.html>.) Check out the guides for DMO with 2.0 and SP 10 and relevant SAP Community information on DMO.

For the Downtime Optimized Conversion approach, refer to SAP Note 2443938, “Support portal on downtime optimized conversion.”

The SUM Guides can be accessed from <https://support.sap.com/en/tools/software-logistics-tools.html>. Move to the Preparation phase through Conversion to SAP S/4HANA with SUM for a list of manual activities that need to be performed.

## 2. Unicode Conversion

The current SAP ECC system must be a Unicode system for conversion. This is one of the prerequisites of the S/4HANA conversion. If your customer system is not Unicode, you need to plan for two-step conversion approach:

Step 1: Unicode conversion

Step 2: Conversion to SAP S/4HANA

Refer to SAP Note 2033243. This note describes the end of non-Unicode support.

The new SAP system installation is now only possible through Unicode, whereas upgrades of the SAP system are still possible with non-Unicode up to SAP ECC 6.07. However, upgrading a SAP system to SAP 6.08 or higher is no longer possible with non-Unicode. Before such upgrade, you therefore need to plan for Unicode conversion and then plan for an Upgrade project to 6.08.

## Areas Affected by Unicode Conversion

A Unicode conversion affects custom programs and may need to verify applications. There may be very minor impacts on the end users.

All Z reports need to be verified and modified if necessary. MDMP Customers in SPUMG are to be expressly handled. Interfaces that are impacted are Unicode to non-Unicode, SAP to Non-SAP, and server and frontend upload and download.

## SAP Unicode Conversion Guides

To perform a Unicode conversion, you need to consider the procedure of system copy, as different procedures pertain to different system copy procedures.

Consultants need to refer to these guides, as needed:

- 548016 – Unicode Conversion Guide
- 765475 – Unicode Conversion Troubleshooting Guide
- 738858 – Additional information about R3 Load versions
- Installation Guide
- System copy guide

## Relevancy of Guides

In addition to generic notes, SCP and MDMP systems have their own SAP Notes/guides to be followed:

- Note 1051576 for SCP
- Note 551344 for MDMP

## Scan Your ABAP Code

SAP recommends using the SAP Tool to scan your ABAP code, using the UCHECK transaction.

On the Input screen, deselect the checkboxes for Check Only Programs Where the Unicode Flag Is Unchecked and Exclude S\* Packages. Then click Execute.

Program Status is displayed (whether Green, Yellow, or Red) along with the row of ABAP Code where the error occurred. This can be considered an indication for how to analyze the error further.

## Software Provisioning Manager (SWPM)

SWPM is the tool for SAP system installation, copy and rename, dual stack split, and heterogeneous SAP System copy. It also performs a database export and import and controls the R3 load.

If HR functionality is used, refer to SAP Note 573044, where additional mandatory steps are mentioned.

SAP documentation:

1. SAP Service Marketplace, accessed through [www.service.sap.com/unicode](http://www.service.sap.com/unicode)
2. SAP Notes:
  - a. 1322715
  - b. 1051576
  - c. 551344
  - d. 548016
  - e. 765475
  - f. 738858
  - g. 79991
  - h. 928729
3. Homogeneous and Heterogeneous System Copy for SAP Documentation

# Adjustments During and After Conversion or an Upgrade

SAP has delivered numerous objects, which cover a wide range of business scenarios. Yet, there can be a business requirement which would involve customization. This customization can be done in the customer's namespace or directly over the SAP namespace:

- Customer namespace objects start with Y or Z.
- Objects starting with anything other than Y or Z belong to the SAP namespace.

There are two ways to change objects in the SAP namespace:

- **Modifications:** Changes done directly to the standard SAP object
- **Enhancements:** Customer namespace objects included in the standard SAP objects

Modifications:

- The standard SAP object needs to be registered over the marketplace to obtain an access key.
- After providing the access key, the object is modified and a transport is created.
- Objects can be modified with or without Modification Assistant.
- It is always better to use Modification Assistant to ease adjustments during the upgrade process.

Enhancements:

- SAP delivers different types of enhancements, such as user exits, customer exists, BTE, and BADI and enhancement framework (implicit and explicit) enhancements.
- These enhancements either bypass the standard functionality or add features to it.



## Modifications

- Any change done directly to the SAP namespace object is a modification.
- This includes note corrections done through transaction SNOTE.

There are risks involved in having modifications:

- SAP involves integration of many modules. Modifying an object can result in inconsistency at some point, which leads to unexpected results.
- There is a chance of losing support from SAP (OSS) for a particular object if it is modified (except note corrections).
- Modifications can be lost during upgrade.
- More modifications involve more effort during the upgrade process in order to carrying them forward.

## Carrying Modifications Forward After the Upgrade Process

How are modifications carried forward after the upgrade process?

After the upgrade process, the current version of SAP is overwritten with the latest version of SAP, which leads to loss of modifications done to the standard SAP objects. To avoid this, there are adjustment activities that should be carried out during and after the upgrade process.

There are different types of SAP objects that should be adjusted during and after the upgrade.

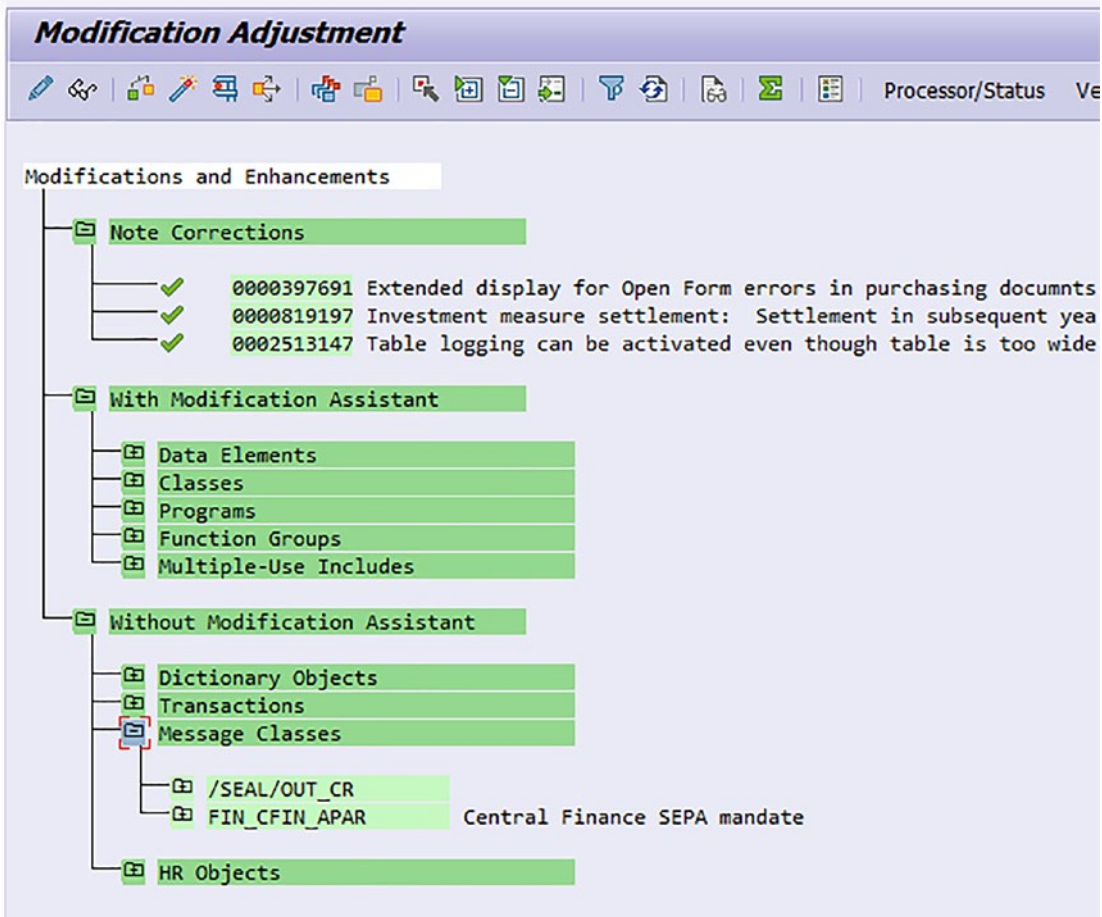
- During the upgrade (all Data Dictionary objects)
  - Domains
  - Data elements
  - Tables
  - Structures

- After the upgrade (all Repository objects)
  - Programs
  - Function groups
  - Logical databases
  - Message classes
  - Business Add Ins
  - HR objects

## How Modifications Are Adjusted

How are modifications adjusted?

- Dictionary objects are adjusted using the SPDD transaction.
- Repository objects are adjusted using the SPAU transaction.
- SPDD adjustments are done during the upgrade over the virtual system.
- SPAU adjustments can be done within 14 days of the upgrade.
- For SPDD and SPAU, all the listed objects should be highlighted in green, which specifies that the adjustments are complete (see Figure 3-15).



**Figure 3-15.** Modification adjustment

Before adjusting the object, it will show a traffic light (Red, Yellow, or Green) which specifies the need for modification

- **Green Traffic Light:** Specifies that no modification adjustment is needed, as the current version matches the new version of SAP.
- **Yellow Traffic Light:** Specifies that modification adjustment is needed, as the current version does not match the new version.

If the object belongs to the “With Modification Assistant” category, clicking the yellow traffic signal will adjust the object

If the object belongs to the “Without Modification Assistant” category and there is no support offered by the system, you have to consult with the original user responsible for the modification to decide if the modification should be carried out.

- **Red Traffic Light:** Specifies that modification adjustment is needed, as the current version does not match the new version of SAP. In this case, there is no support offered by the system when clicking the traffic light and the object should be changed manually in its original transaction. For instance, a program must be changed manually in SE38.
- **No Traffic Light:** Specifies that no modification is needed, as the modifications done to the current version are obsolete in the new version. Clicking the traffic light will remove the object from the list. Note corrections are good examples of adjustments with no traffic light.

Based on the type of traffic light, you can decide whether to carry forward the modification or reset it to original (overwrite with new version).

## Who Is Responsible for Performing Modification Adjustments?

The developer is involved in the modification adjustment activity, but can involve other resources if needed. For instance, when an object is modified without using Modification Assistant, the developer can reach out to the original user who performed the modifications.

## SAP S/4HANA Conversion Project Activities Overview

### Discover

- Execute Readiness Check, BSR, etc.

### **Prepare**

- Set up project
- Preparation of activity sheet for conversion project
- Discuss with team and share the plan with the customer
- Analyze the Readiness Check Report
- Analyze the BSR Report
- Install Simplification Item Checks Notes
- Execute SI Check Report
- Start evaluating Simplification Item Check Report
- Execute the Maintenance Planner and generate the file
- Prepare a list of mandatory Simplification Items, modules-wise
- Verify business functions, IS components, and add-ons, as per the Readiness Check
- Custom Code Analysis
- Preparations for Asset Accounting
- Cross-application preparation
- CVI
- Financial Data Reconciliation and Consistency check
- Consistency checks

### **SUM**

- SUM preparations and execution
- SUM downtime preparation
- Finance reports before downtime
- SUM Execution phase
- SUM Final phase

**Conversion Cockpit**

- SUM Completion Conversion Cockpit
- Conversion Cockpit: preparation
- Conversion Cockpit: data migration
- Conversion Cockpit: post-migration activities
- Reports validation post-conversion

**Go live****Hypercare****Establish safe and efficient operations****Plan for further innovations**

## Conclusions

This chapter included a basic understanding of the tools that support system conversions. The Simplification Item Check Report is the most important tool for functional consultants like FI, CO, MM, SD, PP, PM, and so on. Run this report in all clients, including in client 000. The SUM tool verifies in client 000 also. If possible, you should verify it in the background to ensure you simulate SUM, before SUM does. Always refer to SAP Notes 2399707 and 2502552. As soon as you have done the DEV system conversion, freeze the version of these notes. That way, you don't get new errors in QAS and PRD. If you don't freeze these notes, you always get a new Simplification Item Catalog and may see new errors during QAS and PRD. That will increase your downtime and change your expectations.

Transports are created for SPDD and SPAU and can be imported to subsequent systems. At times, there might be a scenario where transports for SPDD do not work and the adjustments should be done manually in each system. Transports of SPAU will work in all scenarios. Hence, it's important to adjust the modifications in order to carry forward the business functionalities after the upgrade process.

## CHAPTER 4

# The Customer Vendor Integration (CVI)

The CVI is one of the most critical and important activities of the conversion process. This chapter provides the reports to be executed and the configuration to be done to complete the CVI. This chapter provides guidance on business partner conversion activities. Refer to SAP Note 2265093 to do the complete the CVI synchronization.

## The SAP Business Partner Concept

Business Partner (BP) is the new master data for creating customers and vendors and it is one point of entry for maintaining customers' and vendors' master data. Business partner master data will be used in other areas, like Collections Management, SAP Credit Management, SAP Treasury and Risk Management, Loans Management, CRM, SRM, and so on. The CVI process is the synchronization process between the business partner and the customer/vendors.

The SAP Business Partner concept helps to reduce redundancy in the master data, as general data can be shared by all types of business partners. In SAP S/4HANA, using the Business Partner is mandatory. It is the leading object for the maintenance of customer and vendor data.

Transactions like XD01 and XK01 will be redirected to the BP transaction. The KNA1 and LFA1 tables will be linked with the BUT000 table. Purchasing orders that are created by MM users will use the data from LFA1. The sales orders that are created by SD users will use the data from KNA1.

SAP BP synchronization via CVI customer/vendor integration links the database table of the business partner and the customer/vendor. The following transactions are not available in SAP S/4HANA.

- FD01, FD02, FD03, FD05, FD06
- FK01, FK02, FK03, FK05, FK06
- MK01, MK02, MK03, MK05, MK06, MK12, MK18, MK19
- VD01, VD02, VD03, VD05, VD06
- XD01, XD02, XD03, XD05, XD06, XD07
- XK01, XK02, XK03, XK05, XK06, XK07
- V-03, V-04, V-05, V-06, V-07, V-08, V-09, V-11, V+21, V+22, V+23

The VDH1N and VDH2N transactions are available in SAP S/4HANA to maintain customer hierarchies.

Mass Maintenance transactions like XD99, XK99, and MASS are also available in SAP S/4HANA.

## Customer Vendor Integration (CVI)

Business Partners can now be centrally managed. With the current development, BP is the single point of entry to create, edit, and display master data for business partners, customers, and vendors. This has been developed to achieve harmonization between various master data like customers, vendors, and so on, and to ensure easy master data maintenance.

We can create a Business Partner as a person, organization, or group. Business Partner is referred to as the master data in SAP and it is required to carry out business processes in an organization, such as sales and purchase orders or employee as business partner roles. The Role concept is introduced in Business Partners. A Business Partner can be a vendor, employee, or customer, depending on the requirements. Business Partners can be vendors, goods suppliers, sub-contractors, service agents, and so on. SAP Business Partner Solution reduces data redundancy, as general information can be shared through different roles. There are a few roles that are predelivered by SAP, and they can also be customized.

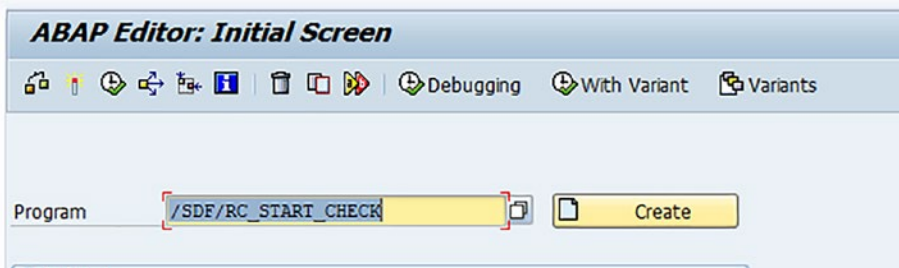


Business Partner Grouping, which is similar to the Account group in customer/vendor, is assigned to a number range. For a successful upgrade, master data with deletion flags must also be converted. SAP recommends archiving such master data. Often, the challenge that is faced during CVI is consolidation through account groups, number ranges, and field assignments.

The CVI task is one of the Simplification Item Check tasks in the SI Check Report. This activity must be done prior to SUM execution.

## Executing the SI Check Program

Use SE38 to execute the Simplification Item Check program. The name of the program is /SDF/RC\_START\_CHECK (see Figures 4-1 and 4-2).



**Figure 4-1.** The program to be executed for SI checks

### SAP Readiness Check for SAP S/4HANA - Simplification Item Check

Display Application Log Help

---

**Simplification Item Check Options**

Target SAP S/4HANA Version: SAP S/4HANA 2020 [02 (05/2021) FP]

New relevance check in Online mode  
 New relevance & consistency check as background job  
 Display Last Check Result

▲ Implemented version 147 of SAP Note 2399707 is not up to date.  
 ▲ Implemented version 90 of SAP Note 2502552 is not up to date.

---

**Simplification Item Catalog Source**

Local Version [ 11.11.2021 06:43:22 UTC ]

---

### SAP

#### Simplification Item List - SAP S/4HANA 2020 [02 (05/2021) FP]

Relevance	Last Con...	Exempti...	ID	Title
▲	⊗	⊗	SI2: MasterData_BP	S4TWL - Business Partner Approach
▲	⊗	⊗	SI3: HR_LEARN	S4TWL - SAP Learning Solution
▲	⊗	⊗	SI1: Logistics_MM-IM	S4TWL - DATA MODEL IN INVENTORY MANAGEMENT (...)
▲	⊗	▲	SI1 FIN_GL	S4TWL - GENERAL LEDGER

---

### Consistency check result

---

**Overview**

Overview	Nu...
• Check started at 12.11.2021 21:52:05 EST	1
• Check ended at 12.11.2021 21:52:08 EST	1
• Check total run time is 3 seconds	1
• Simplification Item Catalog source: Fetched from SAP	1
• The simplification item catalog version used for the check was downloaded from SAP at	1
• 11.11.2021 06:43:22 UTC	1
• Target version: SAP S/4HANA 2020 [02 (05/2021) FP]	1
• ▲ Implemented version 147 of SAP Note 2399707 is not up to date.	1
• ▲ Implemented version 90 of SAP Note 2502552 is not up to date.	1
• 0 items have been skipped for consistency check in total.	1
• 1 items checked for consistency	1
▼ Check item "SI2: MasterData_BP" ✓	26
• ⊗ Highest consistency check return code: 12 ✓	1
• Check started at 12.11.2021 21:52:05 EST	1

**Figure 4-2.** The Simplification Item Check Program and the Consistency Check Result

Once you execute the program and verify the details shown in Figure 4-2, you can find Return Code 12. It shows that action is needed before executing SUM. The action needed is to configure and execute CVI.

## Preparing for CVI

Here are the preparation activities for CVI:

1. Implement the prechecks
2. Archive the master data with a deletion flag
3. Activate the business functions
4. Run the master data consistency prechecks
5. Set any necessary customizing settings for CVI

### 1. Implement the Prechecks

To execute the prechecks, verify and implement the following SAP Notes. Then run the precheck programs:

- 2216176
- 1623677
- 974504

Determine if the following SAP Notes are applicable:

- 1454441
- 2309153
- 2295823
- 1623809

### 2. Archive the Master Data with a Deletion Flag

Before transforming all customer/vendor master data, SAP recommends archiving the customer/vendor master data with a deletion flag in order to reduce the known inconsistencies.

### 3. Activate the Business Functions

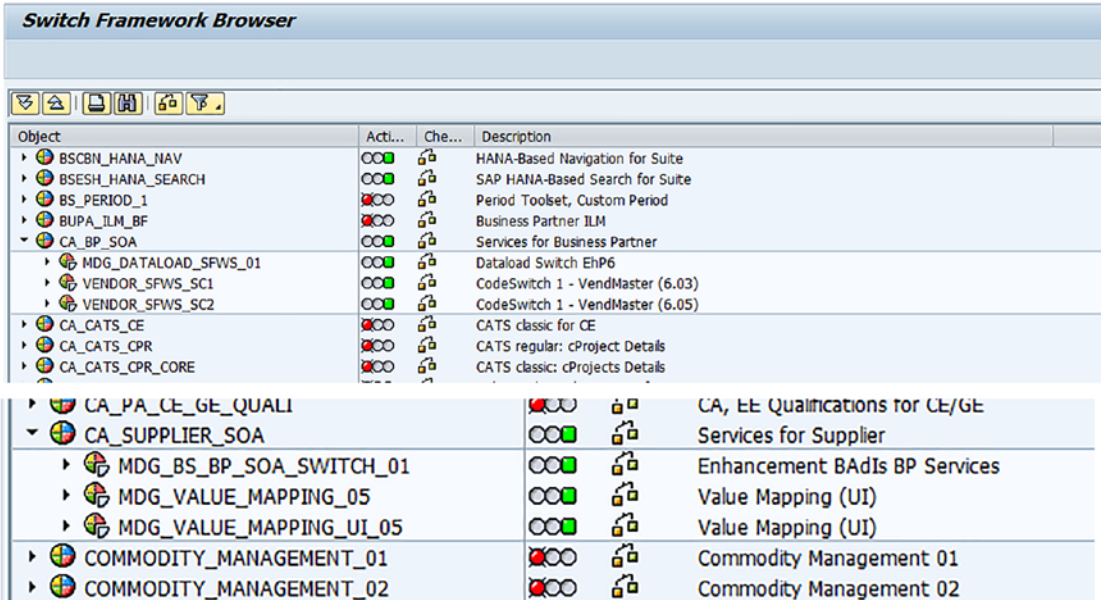
Activate the following business functions (transaction SFW5) before customizing (see Figure 4-3):

- CA\_BP\_SOA Services for Business Partner
- CA\_SUPPLIER\_SOA Services for Supplier
- VENDOR\_SFWS\_SC1 and VENDOR\_SFWS\_SC2 to synchronize the contact person between vendor and business partner

* BUPA_ILM_BF	ILM-Based Deletion of Business Partner Data	<input type="checkbox"/>							
* CA_BP_SOA	Business Foundation: Services for Business ...	Business func. will remain activated	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SAP_BS_FND	747	AP-MD-BP		
* CA_CATS_CE	CATS classic for Concurrent: Employment	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SAP_BS_FND	731	CA-MDG-APP-BP		
* CA_CATS_CPR	CATS regular: cProjects Details	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SAP_APPL	604	CA-TS		
* CA_CATS_CPR_CORE	CATS classic: cProjects Details	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EA-HRG0X	603	CA-TS		
* CA_CIF_INLOAD_01	Enhanced Initial Data Transfer via Core Int...	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SAP_APPL	603	CA-TS		
* CA_ECH_1	Improvements to Error and Conflict Handle...	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SAP_APPL	604	SOM-BAS		
* CA_FINANCIALS_SOA_SEM	Financials SOA for SEM, EHP6	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SAP_ABA	731	CA-FS-ECH		
* CA_FSBP_MIGRATION_ID	FS-BP Migration of Additional Partner Num...	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SEM-BW	736	FIN-SEM-BCS-INT		
* CA_FSBP_TAX_C	FS Business Partner Tax Compliance (Reve...	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SAP_ABA	703	PS-BP		
* CA_HAP_CL_1	CA, Evaluations, Appraisals, and Surveys 01	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SAP_ABA	740	PS-BP		
* CA_PA_CE_GE_QUALI	CA, Employee Qualifications for Concurrent...	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SAP_ABA	701	CA-GTF-AP-PM		
* CA_SUPPLIER_SOA	Business Foundation: Services for Supplier	Business func. will remain activated	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SAP_BS_FND	702	CA-MDG-APP-BP		
* COMMODITY_MANAGEMENT_01	Commodity Sales, Commodity Procuremen...	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EA-FINSEV	618	FIN-FSCM-TRM		
* COMMODITY_MANAGEMENT_02	Commodity Sales, Commodity Procuremen...	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EA-FINSEV	618	FIN-FSCM-TRM		

Figure 4-3. Transaction SFW5, where the Business Functions are activated

After activating the Business Functions, make sure that both switches have Global Status set to ON. This activity can be done using the SFW\_BROWSER transaction code (see Figure 4-4).



Object	Acti...	Che...	Description
▶ BSCBN_HANA_NAV	○○○	🔒	HANA-Based Navigation for Suite
▶ BSESH_HANA_SEARCH	○○○	🔒	SAP HANA-Based Search for Suite
▶ BS_PERIOD_1	○○○	🔒	Period Toolset, Custom Period
▶ BUPA_ILM_BF	○○○	🔒	Business Partner ILM
▶ CA_BP_SOA	○○○	🔒	Services for Business Partner
▶ MDG_DATALOAD_SFWS_01	○○○	🔒	Dataload Switch EhP6
▶ VENDOR_SFWS_SC1	○○○	🔒	CodeSwitch 1 - VendMaster (6.03)
▶ VENDOR_SFWS_SC2	○○○	🔒	CodeSwitch 1 - VendMaster (6.05)
▶ CA_CATS_CE	○○○	🔒	CATS classic for CE
▶ CA_CATS_CPR	○○○	🔒	CATS regular: cProject Details
▶ CA_CATS_CPR_CORE	○○○	🔒	CATS classic: cProjects Details
▶ CA_PA_CE_GE_QUALI	○○○	🔒	CA, EE Qualifications for CE/GE
▶ CA_SUPPLIER_SOA	○○○	🔒	Services for Supplier
▶ MDG_BS_BP_SOA_SWITCH_01	○○○	🔒	Enhancement BADs BP Services
▶ MDG_VALUE_MAPPING_05	○○○	🔒	Value Mapping (UI)
▶ MDG_VALUE_MAPPING_UI_05	○○○	🔒	Value Mapping (UI)
▶ COMMODITY_MANAGEMENT_01	○○○	🔒	Commodity Management 01
▶ COMMODITY_MANAGEMENT_02	○○○	🔒	Commodity Management 02

**Figure 4-4.** The screen for SFW\_BROWSER

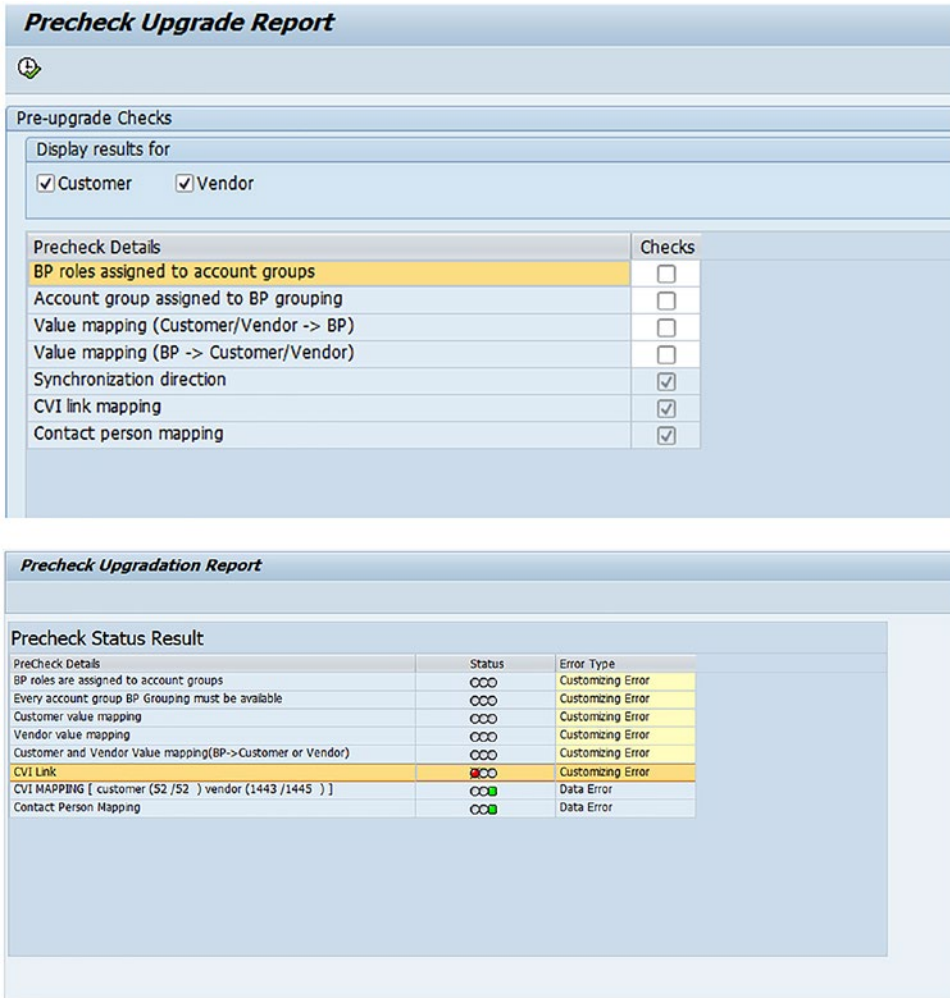
If you did not see Business Function CA\_BP\_SOA in your system, create a new Business Function with the switches VENDOR\_SFWS\_SC1 and VENDOR\_SFWS\_SC2.

For the new customized Business Function, the type should be Enterprise Business Function (G)

## 4. Run the Master Data Consistency Prechecks

During the precheck, you need to check the inconsistencies in the mapping of customizing data from customer/vendor to Business Partner (see Figure 4-5).

## 4.a. Master Data Inconsistencies Can Be Analyzed Using CVI\_MIGRATION\_PRECHK

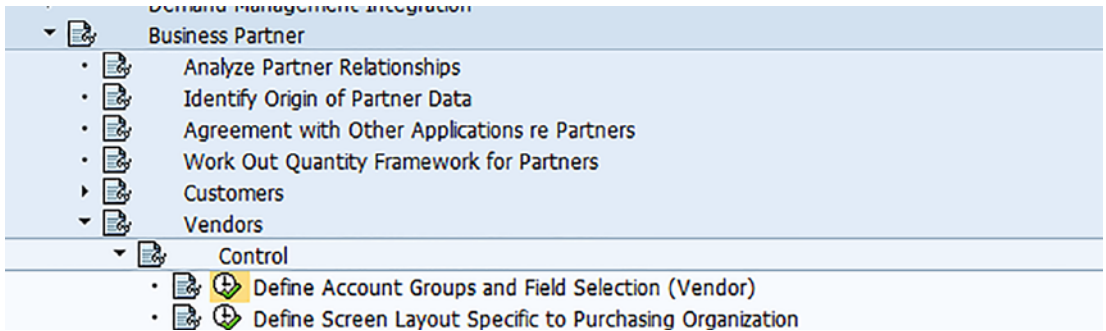


**Figure 4-5.** The inconsistencies that occurred during CVI\_MIGRATION\_PRECHK

## 4.b. Field Checks Suppression

Suppressing fields for vendor and customer account groups enables quicker synchronization, as there are numerous fields in the Business Partner Screen to map to (see Figures 4-6 and 4-7). Refer to SAP Note 2336018.

### Vendor – Field status group



**Figure 4-6.** The path for Change Field Status of Account Groups for Vendor Accounts

### Customer Field Status group



**Figure 4-7.** The path for Change Field Status of Account Groups for Customer Accounts

## 5. Set Any Necessary Customizing Settings

Based on the inconsistencies that occurred from the prechecks using CVI\_MIGRATION\_PRECHK, for example, Issues on Account group, Value Mapping, and so on, the following customizing settings and value mappings should be in place (see Tables 4-1 to 4-3 and Figures 4-8 to 4-10).



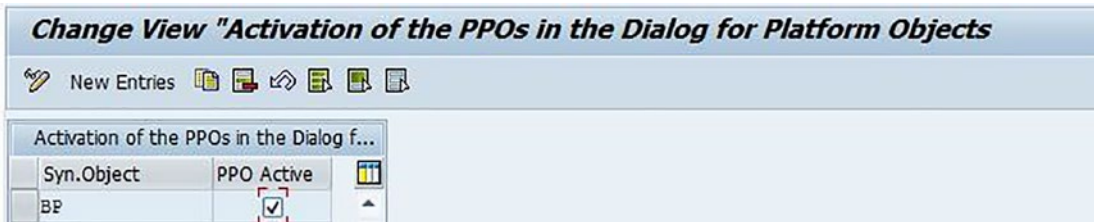
## 5.a. Activate Creation of Post Processing Order (PPO)

*Table 4-1. PPO*

---

<b>SAP Menu Path</b>	SPRO ► Cross Application Components ► General Application Functions ► Post processing Office ► Business Processes ► Activate creation of processing orders.
<b>T Code</b>	<b>SPRO</b>

---



*Figure 4-8. Activate Creation of Post Processing Order (PPO)*

## 5.b. Activate Synchronization Options

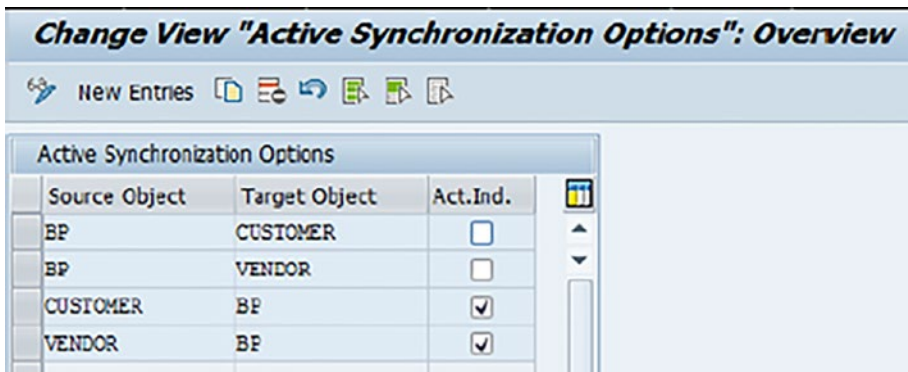
*Table 4-2. Activate Synchronization Options*

---

<b>SAP Menu Path</b>	SPRO ► Cross Application Components ► Master Data Synchronization ► Synchronization Control ► Activate synchronization options.
<b>T Code</b>	<b>SPRO</b>

---



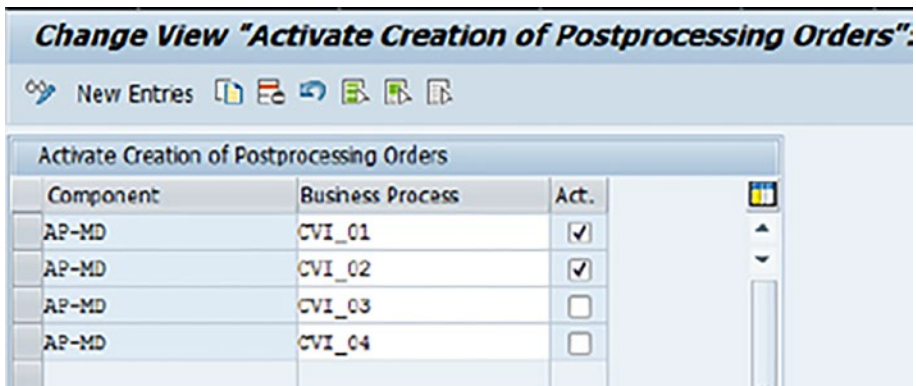


**Figure 4-9.** Activate synchronization options

## 5.c. Activate Creation of Post Processing Order (PPO)

**Table 4-3.** PPO

<b>SAP Menu Path</b>	SPRO ► Cross Application Components ► General Application Functions ► Post processing Office ► Business Processes ► Activate creation of processing orders.
<b>T Code</b>	<b>SPRO</b>



**Figure 4-10.** Activate Creation of Post Processing Order (PPO)

# Customer/Vendor Synchronization: Preparation Phase

## Customer-Related Preparations

For customer/vendor and business, partner number ranges should not overlap with the customer and vendor number ranges. If there is overlapping, number ranges should be maintained in such a way that most account numbers remain matched.

It is always recommended to discuss this requirement with the client (see Tables 4-4 and 4-5 and Figures 4-11 and 4-12).

**Table 4-4.** Customer Account Group vs BP Grouping

<b>Customer Account Groups vs BP Grouping</b>									
<b>Account Group</b>	<b>Description</b>	<b>No.</b>	<b>Number Range</b>		<b>BP Grouping</b>	<b>Description</b>	<b>No.</b>	<b>Number Range</b>	
Y001	Domestic Customer	1	100000	199999	Y001	Domestic Customer	1	100000	199999
Y002	Foreign Customer	2	200000	299999	Y002	Foreign Customer	2	200000	299999
YPTP	Payer Bill to party	3	300000	399999	YPTP	Payer Bill to party	3	300000	399999
YSTO	Cross Company STO	4	400000	499999	YSTO	Cross Company STO	4	400000	499999
YSTP	Ship to Party	5	500000	599999	YSTP	Ship to Party	5	500000	599999

1. Define the number of ranges for the customer master.

**Table 4-5.**

<b>SAP Menu Path</b>	SPRO ► SAP Reference IMG ► Financial Accounting ► Accounts Receivable and Accounts Payable ► Customer Accounts ► Master Data ► Preparations for Creating Customer Master Data ► Create Number Ranges for Customer Accounts
<b>T Code</b>	<b>XDN1</b>

<b>Display Number Range Intervals</b>				
NR Object		Customer		
Intervals				
No.	From number	To number	Current number	Ext
01	0000100000	0000199999	101985	<input type="checkbox"/>
02	0000200000	0000299999	203246	<input type="checkbox"/>
05	0005000000	0005999999		<input checked="" type="checkbox"/>
06	0006000000	0006999999		<input checked="" type="checkbox"/>
C1	0500000000	0599999999		<input checked="" type="checkbox"/>

**Figure 4-11.** Define the number range intervals for customer accounts

2. Assign Number Ranges to Account Groups (Customer).

<b>Change View "Assign Customer Acct Groups-&gt;Number Range": Overview</b>		
Group	Name	Number range
0001	Sold-to party	01
0002	Goods recipient	02
0003	Payer	01
0004	Bill-to party	01
0005	Prospective customer	01
0006	Competitor	01
0007	Sales partners	01

**Figure 4-12.** Assigning number ranges to Customer Account Groups

## Vendor-Related Preparations

For customer/vendor and businesses, partner number should also not overlap with the customer and vendor number ranges. If there is overlapping, number ranges should be maintained in such a way that most account numbers remain matched (see Tables 4-6 to 4-8 and Figures 4-13 and 4-14).

**Table 4-6.** *Vendor Account Groups*

<b>Vendor Account Groups vs BP Grouping</b>							
<b>Account Group</b>	<b>Description</b>	<b>No.</b>	<b>Number Range</b>	<b>Account Group</b>	<b>Description</b>	<b>No.</b>	<b>Number Range</b>
X001	Domestic Vendor	A1	1000000 1999999	X001	Domestic Vendor	A1	1000000 1999999
X002	Foreign Vendor	A2	2000000 2999999	X002	Foreign Vendor	A2	2000000 2999999
X003	Government Vendor	A3	3000000 3999999	X003	Government Vendor	A3	3000000 3999999
X005	Employee Vendor	A4	4000000 4999999	X005	Employee Vendor	A4	4000000 4999999
X006	Intercompany Vendor	A5	5000000 5999999	X006	Intercompany Vendor	A5	5000000 5999999

## 1. Define Number Ranges for Vendor Master Records.

**Table 4-7.** *Vendor Master Records*

<b>SAP Menu Path</b>	SPRO ► SAP Reference IMG ► Financial Accounting ► Accounts Receivable and Accounts Payable ► Vendor Accounts ► Master Data ► Preparations for Creating Vendor Master Data ► Create Number Ranges for Vendor Accounts
<b>T Code</b>	<b>XKN1</b>

Display Number Range Intervals					
NR Object		Vendor			
Intervals					
No.	From number	To number	Current number	Ext	
01	0000000001	0000099999		<input checked="" type="checkbox"/>	
02	0000100000	0000199999	0	<input type="checkbox"/>	
MM	3100000000	3199999999	0	<input type="checkbox"/>	
XX	A	ZZZZZZZZZZ		<input checked="" type="checkbox"/>	
Y3	0000300000	0000399999		<input checked="" type="checkbox"/>	
Y4	0000400000	0000499999		<input checked="" type="checkbox"/>	

**Figure 4-13.** *Define number ranges for vendor accounts*

## 2. Assign Number Ranges to Account Groups (Vendor).

**Table 4-8.** *Vendor Account Groups*

<b>SAP Menu Path</b>	SPRO ► SAP Reference IMG ► Financial Accounting ► Accounts Receivable and Accounts Payable ► Customer Accounts ► Master Data ► Preparations for Creating Customer Master Data ► Assign Number Ranges to Account Groups
<b>T Code</b>	<b>SPRO</b>

Group	Name	Number range
0001	Vendor	XX
0002	Goods supplier	XX
0003	Alternative payee	XX
0004	Invoicing Party	XX
0005	Forwarding agent	XX
0006	Ordering address	XX
0007	Plants	XX
0012	Hierarchy Node	01
0100	Vendor distribution center	XX

**Figure 4-14.** Assign number ranges to account groups (Vendor)

## BP Synchronization Phase

In BP synchronization, you create groupings and number ranges to match customer and vendor account groups and number ranges, respectively (see Tables 4-9 and 4-10 and Figures 4-15 and 4-16).

### Define Number Ranges and Grouping for BP

Each Business Partner Group is assigned to an account group. A number range is assigned to the account group and Business Partner Group.

**Table 4-9.** Number Ranges and Groupings

<b>SAP Menu Path</b>	SPRO ► SAP Reference IMG ► Cross-Application Components ► SAP Business Partner ► Business Partner ► Basic Settings ► Number Ranges and Groupings ► Define Number Ranges
<b>T Code</b>	<b>BUCF</b>

No.	From number	To number	Current number	Ext
01	0000000001	0999999999	100	<input type="checkbox"/>
AB	A	2222222222		<input checked="" type="checkbox"/>
MD	9000000000	9999999999		<input checked="" type="checkbox"/>

**Figure 4-15.** Define number ranges for BP

## Define Number Ranges and Grouping for BP

**Table 4-10.** Grouping for BP

**SAP Menu Path**      SPRO ► SAP Reference IMG ► Cross-Application Components ► SAP Business Partner ► Business Partner ► Basic Settings ► Number Ranges and Groupings ► Define Groupings and Assign Number Ranges

**T Code**                SPRO

Grouping	Short name	Description	Number ra...	External	Int.Std.Grpi...	Ext.Std Grp
0001	Int.No.Assgnmnt	Internal Number Assignment	01	<input type="checkbox"/>	<input checked="" type="radio"/>	
0002	Ext.No.Assgnmnt	External Number Assignment	AB	<input checked="" type="checkbox"/>		<input checked="" type="radio"/>
DAR1	Loans	Loan partner (int.cust)	01	<input type="checkbox"/>	<input type="radio"/>	
GPEX	Ext.no.assgnmnt	External number assignment	AB	<input checked="" type="checkbox"/>		<input type="radio"/>
GPIN	Int.No.Assgnmnt	Internal Number Assignment	01	<input type="checkbox"/>	<input type="radio"/>	
IMMO	Real Estate	Real Estate Partner (1)	01	<input type="checkbox"/>	<input type="radio"/>	
MDM0			MD	<input checked="" type="checkbox"/>		<input type="radio"/>
SRM	Stakeholder	Stakeholder Relationship Management	01	<input type="checkbox"/>	<input type="radio"/>	
TR01	TreasuryPartner	Treasury partner (internal)	01	<input type="checkbox"/>	<input type="radio"/>	
TR02	TreasuryPartner	Treasury partner (external)	AB	<input checked="" type="checkbox"/>		<input type="radio"/>

**Figure 4-16.** BP groupings

# Mapping Tasks

This section maps all the customizing, such as grouping to account group and number ranges, together:

**BP ► Customer**

1. Business partner roles
2. Number range
3. Other attributes value mapping

## Assign Business Partner Roles to Account Groups

Here, we assign BP roles to each Customer Account Group. For Customer FLCU00 (FLCU01), any Z roles that have been created should also be part of such assignments (see Table 4-11 and Figure 4-17).

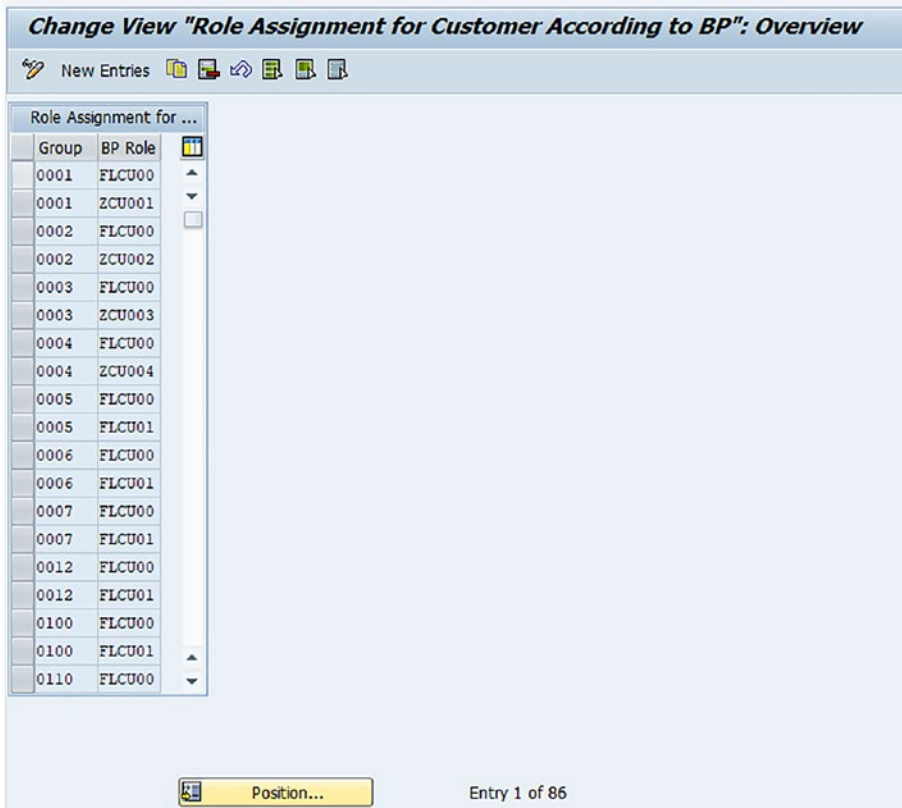
**Table 4-11.** *Assign Customer/Vendor Group*

---

<b>SAP Menu Path</b>	SPRO ► SAP Reference IMG ► Cross-Application Components ► Master data synchronization ► Customer/Vendor Integration ► Business Partner Settings ► Settings for Customer Integration ► Define BP Role for Direction Customer to BP
<b>T Code</b>	<b>SPRO</b>

---





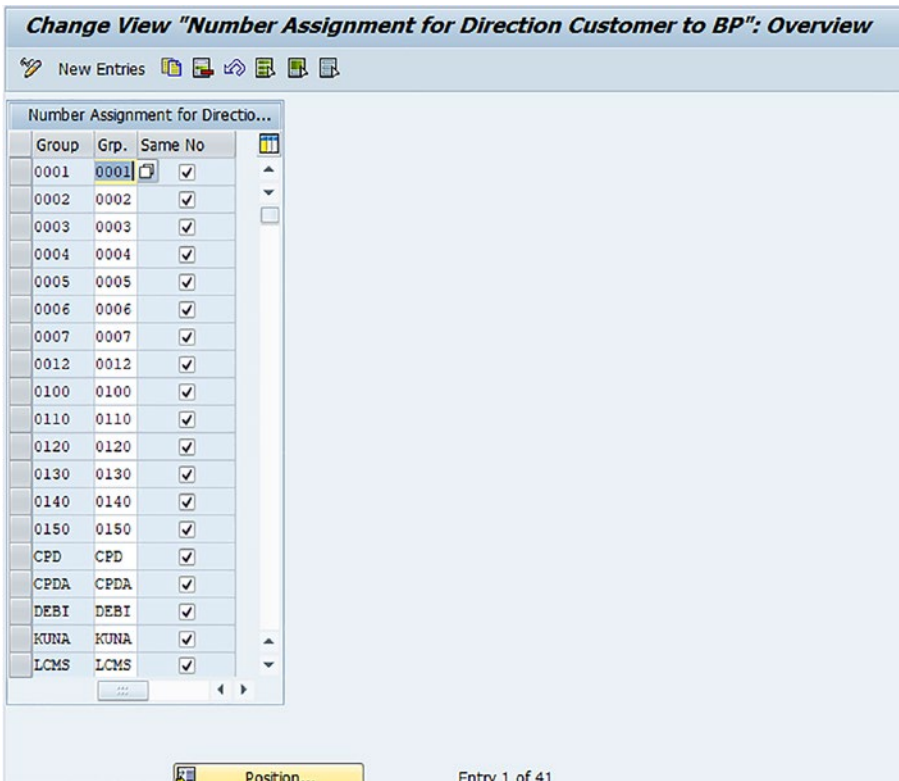
**Figure 4-17.** Define BP Role for Direction Customer to BP

## Number Assignments (CVI-Target: Business Partner)

Here, you map BP groupings and account group as per the customer number range. If the customer and BP should be an identical number, the Matching No. checkbox should be selected (see Table 4-12 and Figure 4-18).

**Table 4-12.**

<b>SAP Menu Path</b>	SPRO ► SAP Reference IMG ► Cross-Application Components ► Master Data Synchronization ► Customer/Vendor Integration ► Business Partner Settings ► Settings for Customer Integration ► Define BP Role for Direction Customer to BP
<b>T Code</b>	<b>SPRO</b>



**Figure 4-18.** Define the number range for Direction Customer to BP

## Value Mapping

All necessary configurations, such as marital status, legal form, payment cards, department, and industries, must be configured in this step. These attributes are mapped from the customer to the BP.

Generic checks can be done through the CVI\_CUSTOMIZING\_RESOLVE program. In this section, you can find the applicable missing customizing entries and inconsistencies (see Tables 4-13 and 4-14 and Figure 4-19 to 4-28).

You have to execute every check to view its message logs.

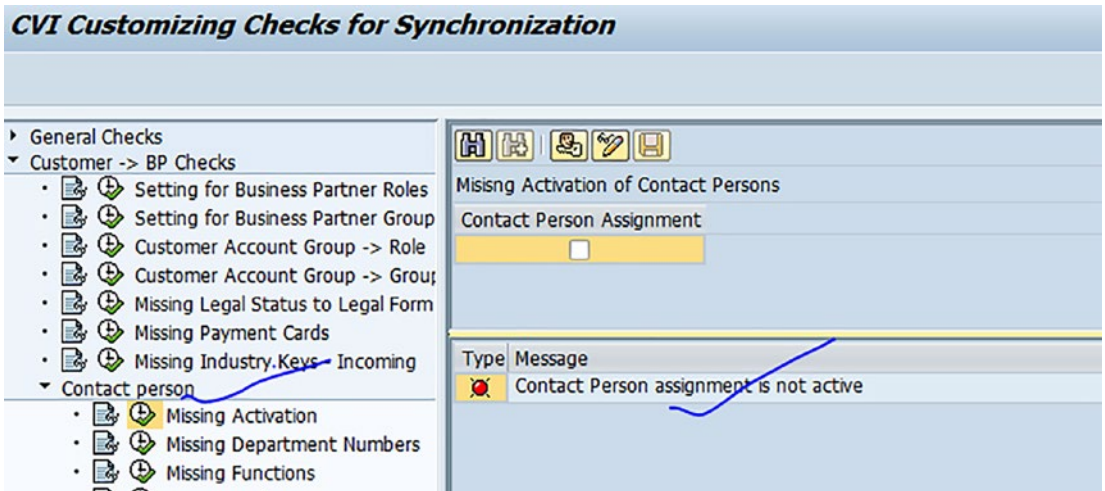


Figure 4-19. Error messages

## Activate Assignment of Contact Persons

Table 4-13.

<b>SAP Menu Path</b>	SPRO ► SAP Reference IMG ► Cross-Application Components ► Master Data Synchronization ► Customer/Vendor Integration ► Business Partner Settings ► Settings for Customer Integration ► Field Assignment for Customer Integration ► Assign Attributes ► Contact Person
<b>T Code</b>	SPRO

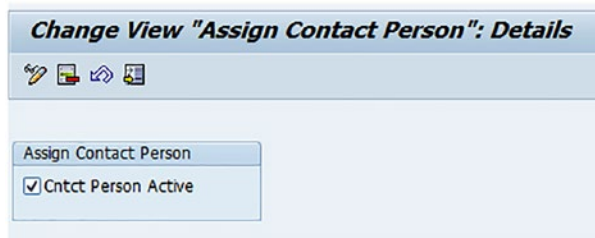


Figure 4-20. Assign a contact person

## Assign Department Numbers for Contact Person

**Change View "Assign Department Numbers for Contact Person": Overview**

New Entries [Icons]

Assign Department Numbers for Contact Person			
Dept (CVI)	Cust/Vend Description	Department (BP)	BP Description
0001	Managing Director	0001	Managing Director
0002	Purchasing	0002	Purchasing
0003	Sales	0003	Sales
0004	Organization	0004	Organization
0005	Administration	0005	Administration
0006	Production	0006	Production
0007	Quality assurance	0007	Quality Assurance
0008	Secretaries	0008	Secretary's Office
0009	Financial department	0009	Financial Department
0010	Legal department	0010	Legal Department

Figure 4-21. Assign department numbers for contact person

## Assign Functions of Contact Person

**Change View "Assign Functions of Contact Person": Overview**

New Entries [Icons]

Assign Functions of Contact Person			
Function (CVI)	Cust/Vend Description	Function (BP)	BP Description
01	Executive Board	0001	Executive Board
02	Head of Purchasing	0002	Purchasing Manager
03	Head of Sales	0003	Sales Manager
04	Head of Personnel	0004	Head of Personnel
05	Janitor	0005	Quality Officer
06	Head of the Canteen	0006	Production Manager
07	Personal Assistant	0007	Personal Assistant
08	EDP manager	0008	IT Manager
09	Fin.accountng manager	0009	Financial Accounting Manager
10	Marketing Manager	0010	Marketing Manager

Figure 4-22. Assign functions of contact person

## Assign Authority of Contact Person

**Change View "Assign Authority of Contact Person": Overview**

New Entries

Assign Authority of Contact Person			
PoAtt (CVI)	Cust/Vend Description	Pwr of Att.(BP)	BP Description
1	General authority	1	General Authority
2	No authority	2	No Authority
3	Authorized buyer	3	Authorized Buyer
A	Sole decision maker	4	Sole Decision Maker
G	General authority	1	General Authority
H	Main decision maker	5	Main Decision Maker
K	No authority	2	No Authority
M	Joint decision maker	6	Joint Decision Maker
P	Authorized buyer	3	Authorized Buyer
W	Decision authority	7	Decision Authority

*Figure 4-23. Assign authority of contact person*

## Assign VIP Indicator for Contact Person

**Change View "Assign VIP Indicator for Contact Person": Overview**

New Entries

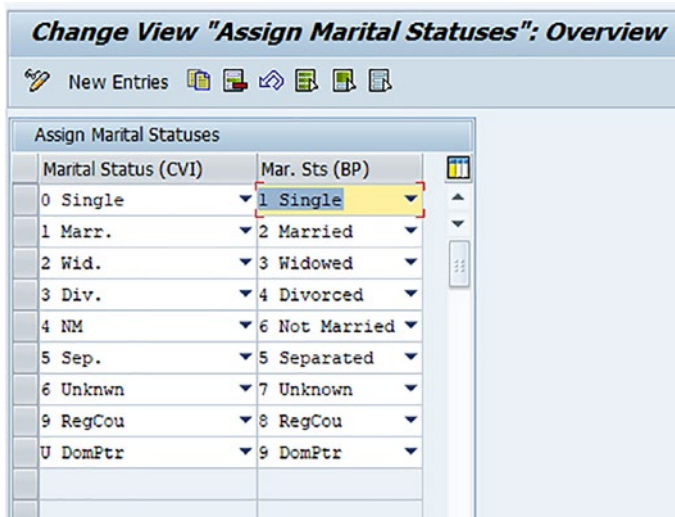
Assign VIP Indicator for Contact Person			
VIP (CVI)	Cust/Vend Description	VIP (BP)	BP Description
1	Management	1	Managing Director
2	Test Customer	2	Test Customer

*Figure 4-24. Assign VIP indicator for contact person*

**Table 4-14.**

<b>SAP Menu Path</b>	SPRO ► SAP Reference IMG ► Cross-Application Components ► Master Data Synchronization ► Customer/Vendor Integration ► Business Partner Settings ► Settings for Customer Integration ► Field Assignment for Customer Integration ► Assign Attributes
<b>T Code</b>	<b>SPRO</b>

## Assign Marital Statuses









**Figure 4-25.** Assign marital statuses



## Assign Legal Form to Legal Status

**Change View "Assign Legal Form to Legal Status": Overview**







New Entries      

Assign Legal Form to Legal Status			
Legal Sts (CVI)	Cust/Vend Description	LForm (BP)	BP Description
01	Corporation	01	Corporation
02	P.l.c.	02	P.l.c.
03	P.Lim.by Shares	03	Commercial Partnership Limited by Share
04	P.Lim.by Shares	04	Commercial Partnership Limited by Share
05	P.l.c.& Co LP	05	P.l.c.& Co LP
06	Gen.Partnership	06	Gen.Partnership
07	Private Company	07	Private Company
08	Co., Ltd.	08	Co., Ltd.

Figure 4-26. Assign legal form to legal status

## Assign Payment Cards

**Change View "Assign Payment Card Type": Overview**

New Entries      

Assign Payment Card Type			
Card Type (BP)	BP Description	Card Type (CVI)	Cust/Vend Descriptio
0004	Diners Club Card	0004	Diners Club Card
AMEX	American Express	AMEX	American Express
MC	Master-/Euro Card	MC	Master-/Euro Card
VISA	Visa Card	VISA	Visa Card

Figure 4-27. Assign payment cards

# Assign Industries

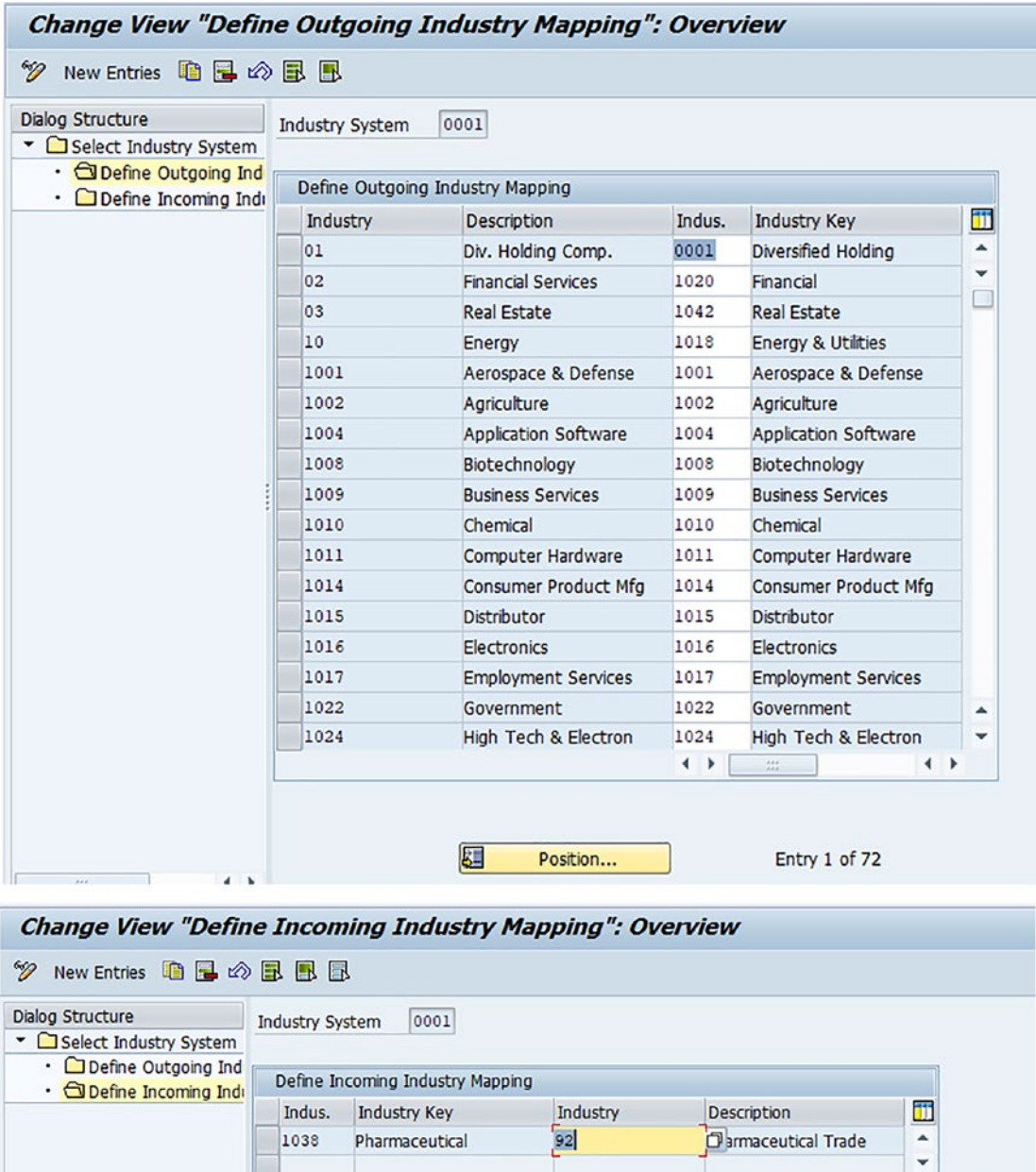


Figure 4-28. Assign industries



**BP ► VENDOR**

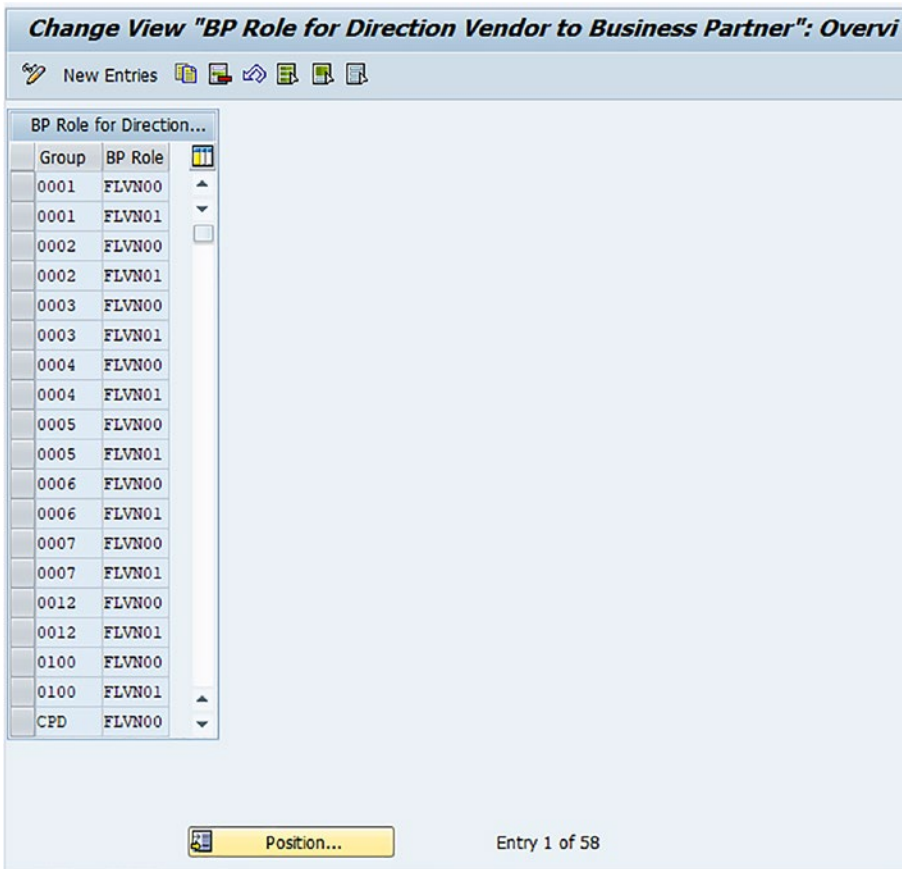
1. Business partner roles
2. Number range
3. Other attributes value mapping

## Assign Business Partner Roles to Account Groups

Here, you assign BP roles to each Vendor Account Group. For Vendor FLVN00 (FLVN01), any Z roles that have been created should also be part of such assignments (see Table 4-15 and Figure 4-29).

**Table 4-15.**

<b>SAP Menu Path</b>	SPRO ► SAP Reference IMG ► Cross-Application Components ► Master data synchronization ► Customer/Vendor Integration ► Business Partner Settings ► Settings for Vendor Integration ► Define BP Role for Direction Vendor to BP
<b>T Code</b>	<b>SPRO</b>



**Figure 4-29.** Define BP role for Direction Vendor to BP

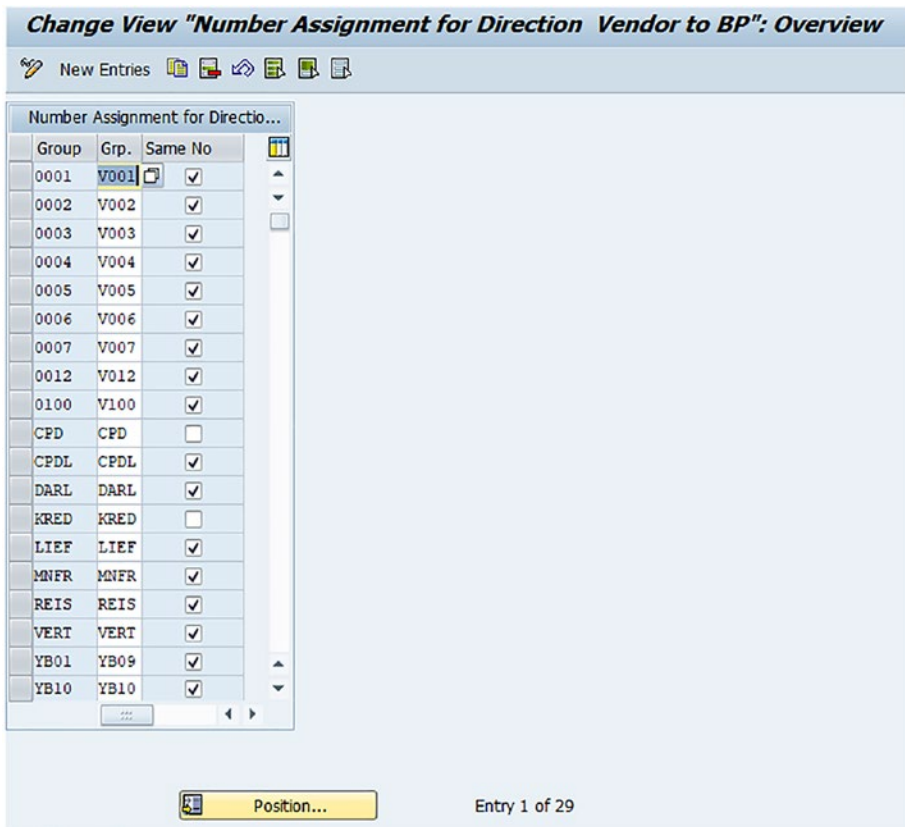
## Number Assignments (CVI-Target: Business Partner)

Here, you map BP groupings and Account Group as per the vendor number range. If the vendor and BP should match, the Matching No. checkbox should be selected (see Table 4-16 and Figure 4-30).

**Table 4-16.**

**SAP Menu Path** SPRO ► SAP Reference IMG ► Cross-Application Components ► Master Data Synchronization ► Customer/Vendor Integration ► Business Partner Settings ► Settings for Vendor Integration ► Define BP Role for Direction Vendor to BP

**T Code** SPRO



**Figure 4-30.** Define number range for Direction Vendor to BP

## Vendor Value Mapping

All necessary configurations are configured in this step, i.e., these are attributes that are mapped from the customer to the BP (see Tables 4-17 to 4-20 and Figures 4-31 to 4-34).

**Table 4-17.**

**SAP Menu Path**    SPRO ► SAP Reference IMG ► Cross-Application Components ► Master Data Synchronization ► Customer/Vendor Integration ► Business Partner Settings ► Settings for Vendor Integration ► Field Assignment for Vendor Integration ► Assign Attributes

**T Code**            SPRO

Assign Industries

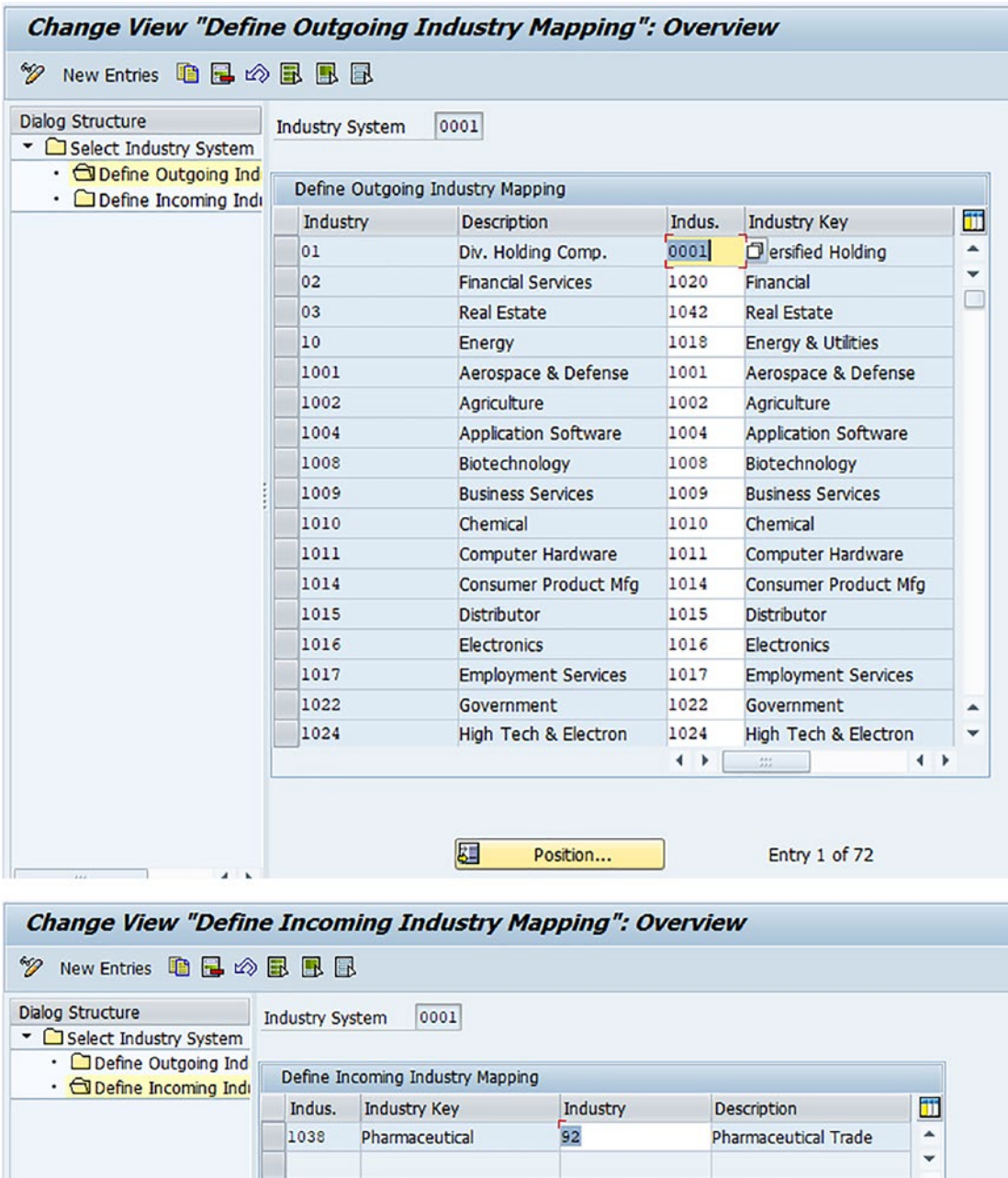


Figure 4-31. Assign industries

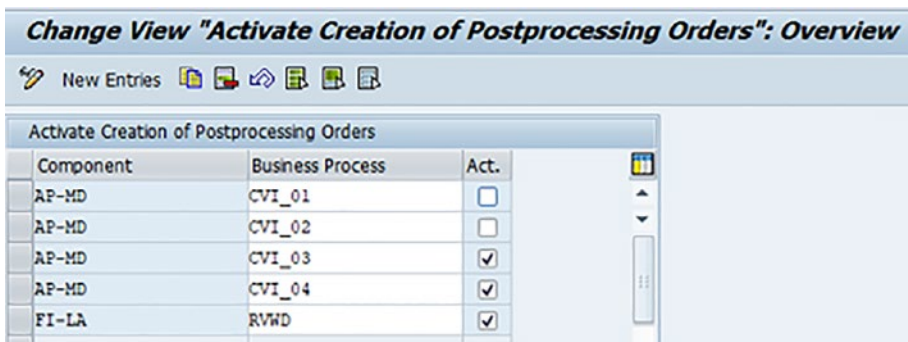
## Activate Creation of Post Processing Order (PPO)

**Table 4-18.**

---

<b>SAP Menu Path</b>	SPRO ► Cross Application Components ► General Application Functions ► Post processing Office ► Business Processes ► Activate creation of processing orders.
<b>T Code</b>	<b>SPRO</b>

---



**Figure 4-32.** Activate creation of Post Processing Order (PPO)

## Activate Synchronization Options

**Table 4-19.**

---

<b>SAP Menu Path</b>	SPRO ► Cross Application Components ► Master Data Synchronization ► Synchronization Control ► Activate synchronization options.
<b>T Code</b>	<b>SPRO</b>

---

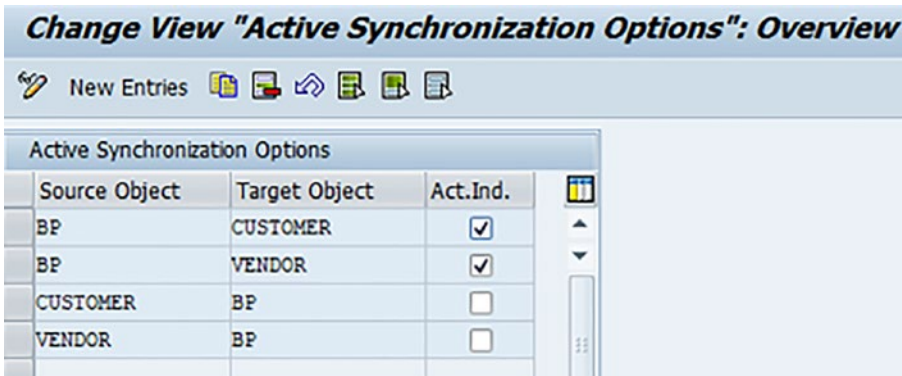


Figure 4-33. Activate synchronization options

## Check Synchronization Objects

Table 4-20.

<b>SAP Menu Path</b>	SPRO ► Cross Application Components ► Master Data Synchronization ► Synchronization control ► Synchronization Objects.
<b>T Code</b>	SPRO

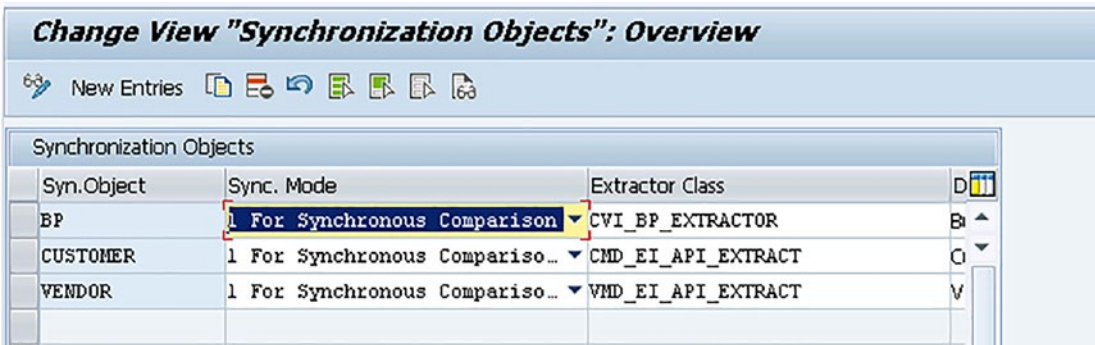


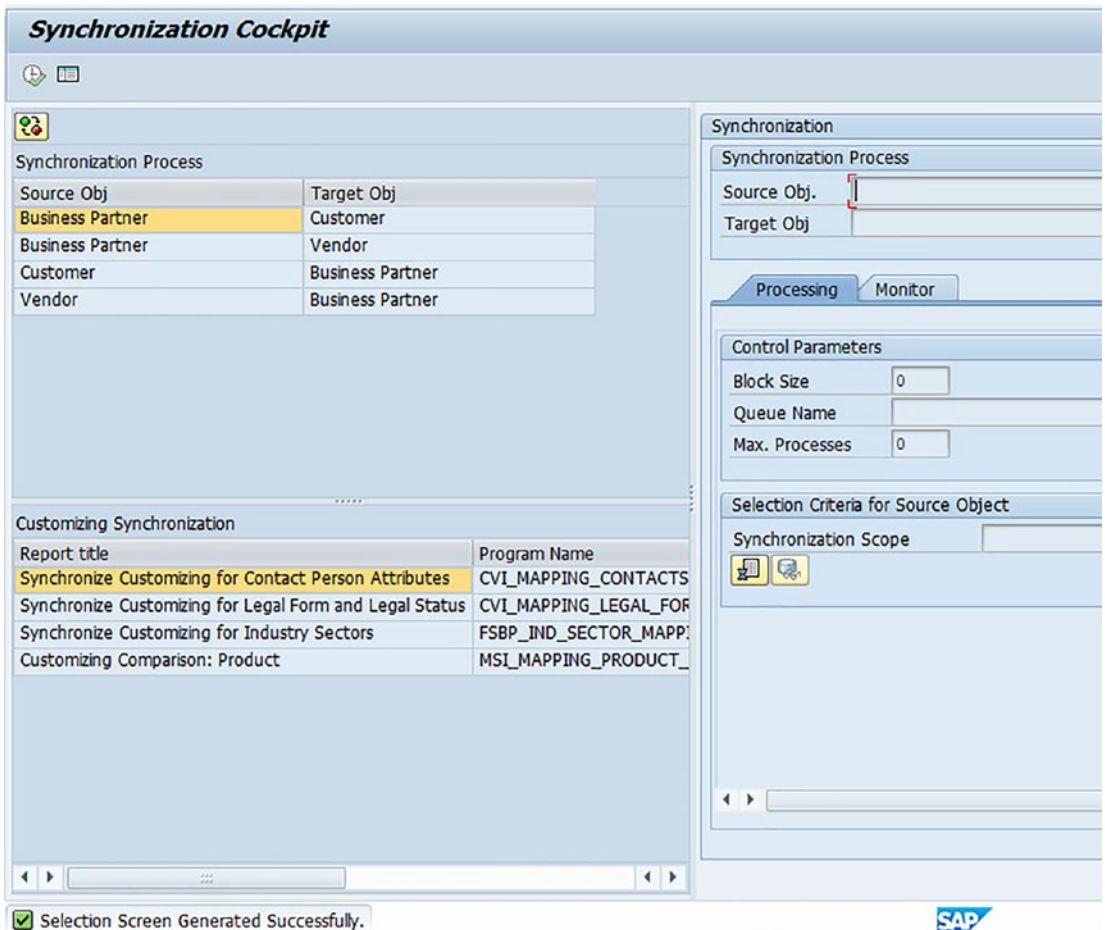
Figure 4-34. Check synchronization objects

## Using the Synchronization Cockpit

Executing the mass synchronization program is a must in the SAP ECC system for CVI. This can be done even a couple of weeks before the conversion synchronization happens in the background for Business Partners in the PRD system. You can even do this synchronization one to two weeks before the SUM tool. If there are any issues in synchronization, such as missing mapping, failed data checks, and so on, they will be stored for post-processing. It is important to clean up all PPO before you execute SUM.

The Synchronization Cockpit can be started using the MDS\_LOAD\_COCKPIT transaction.

In the Synchronization Cockpit, you can define the queue and block size and analyze the issues through Customizing Synchronization (see Figure 4-35).



**Figure 4-35.** Synchronization Cockpit: MDS\_LOAD\_COCKPIT



CHAPTER 4 THE CUSTOMER VENDOR INTEGRATION (CVI)

Here is a description of the synchronization process. The synchronization process defines the target and source object, whether it is Business Partner to a customer/vendor or vice versa (see Figures 4-36 to 4-38).

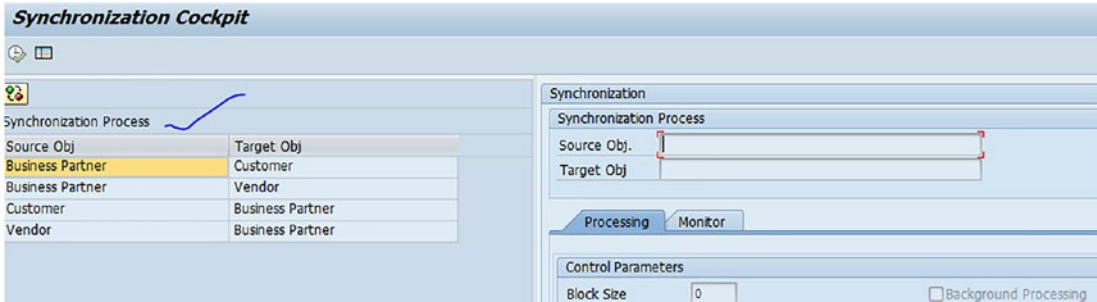


Figure 4-36. Synchronization process

The synchronization queue is MDS\_CUST\_BUPA (see Figure 4-37).

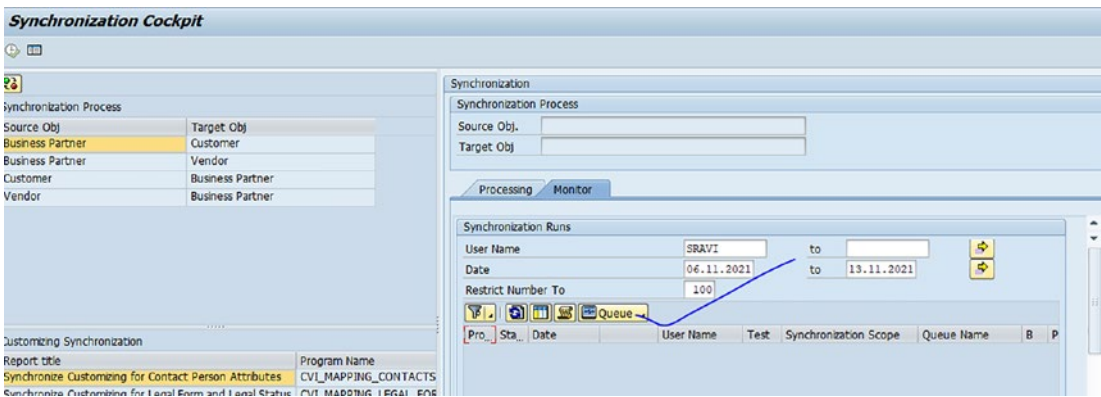
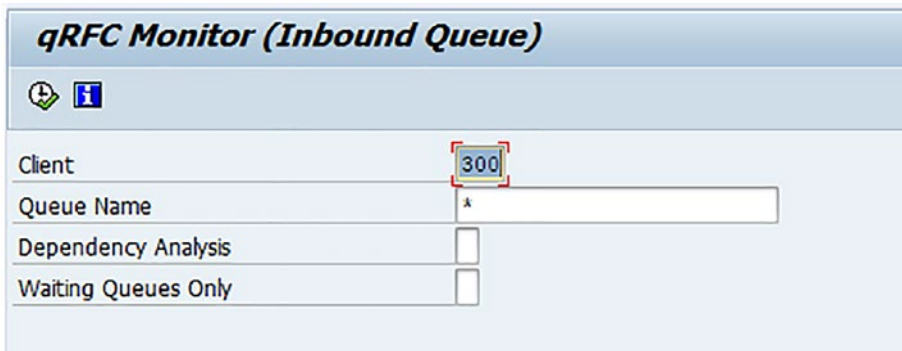


Figure 4-37. Synchronization queue

The mass synchronization run is handled via inbound qRFCs (transaction SMQ2), as shown in Figure 4-38.



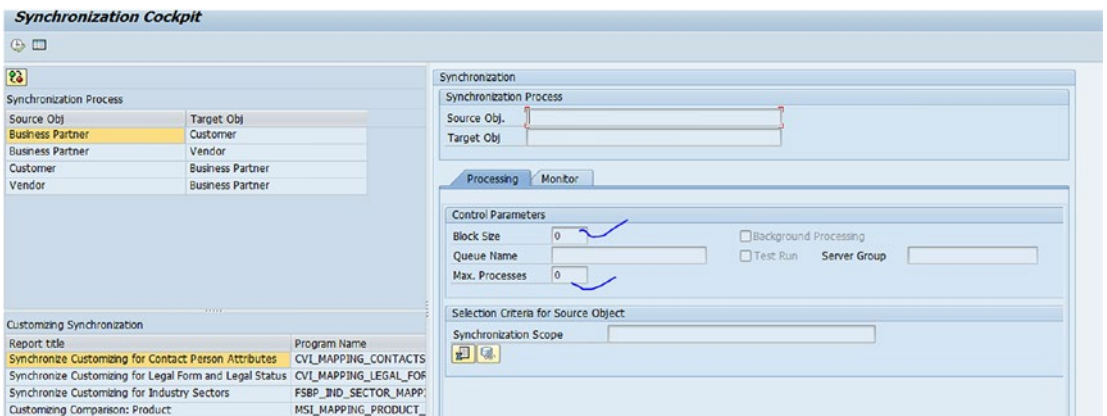


**Figure 4-38.** qRFC Monitor

Step 1. Build queues.

Step 2: Process queues

Figure 4-39 defines the number of dialog tasks for parallel processing.



**Figure 4-39.** Block size for parallel processing

Definition of the block size: SAP usually recommends block size to be defined as 50. We define the block size during synchronization so that if an error occurs during the process, it will be easy to identify the reason for the error in a shorter block. This helps avoid errors in downtime that cannot be analyzed through large blocks. It is also recommended to have smaller blocks.

Figure 4-40 shows the Synchronization Cockpit: customizing.

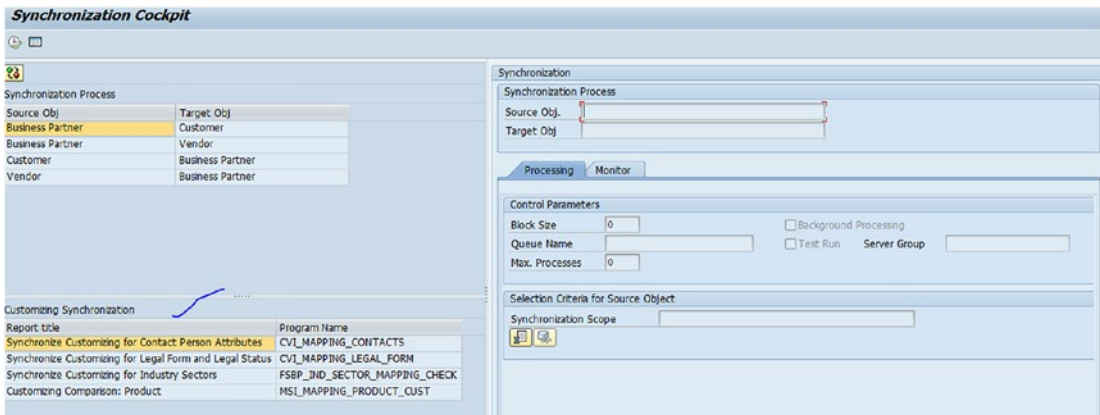


Figure 4-40. Customizing synchronization

You enter a range of customer or vendor account groups and click Execute.

The Monitor tab displays any error messages. Once the messages are fixed, the Monitor tab shows that the configuration has been done in the correct manner (see Figures 4-41 and 4-42).

<b>Precheck Upgradation Report</b>	
<b>Precheck Status Result</b>	
PreCheck Details	Status
BP roles are assigned to account groups	○○■
Every account group BP Grouping must be available	○○■
Customer value mapping	○○■
Vendor value mapping	○○■
Customer and Vendor Value mapping(BP->Customer or Vendor)	○○■
CVI Link	○○■
CVI MAPPING [ customer (2267 /2267 ) vendor (12838 /12838 ) ]	○○■
Contact Person Mapping	○○■

Figure 4-41. Precheck upgradation report

If you were to run the SI check /SDF/RC\_START\_CHECK, you'd see that all the signals are in green/yellow.

Relevance	Last Cons.	Exempto...	ID	Title	Job/Technology	Busines
▲	▲	⊗	SI2: MasterData_BP	S4TWL - Business Partner Approach	Database and Data Management	Enterpr
▲	▲	⊗	SI2: Logistics_PLM	S4TWL - Classification - Data Cleanup before Migration	R&D/Engineering	Product
▲	▲	⊗	SI12: Logistics_MM-IM	S4TWL - Document Flow Consistency for Goods Receipt...	Supply Chan	Inventc
▲	▲	⊗	SI22: GENERIC_CHECKS	S4TWL - Generic Check for SAP S/4HANA Conversion an...	IT Management	Adminis
▲	▲	⊗	SI2: Logistics_PP-MRP	S4TWL - Storage Location MRP	Manufacturing	Product
▲	▲	⊗	SI2: HR_LEARN	S4TWL - SAP Learning Solution	Human Resources	Core HF
▲	▲	⊗	SI2: MasterData_PM	S4TWL - Simplification of copy/reference handling	Database and Data Management	Enterpr
▲	▲	⊗	SI1: Logistics_MM-IM	S4TWL - DATA MODEL IN INVENTORY MANAGEMENT (...)	Supply Chan	Inventc
▲	▲	⊗	SI3: Logistics_MM-IM	S4TWL - Material Ledger Obligatory for Material Valuation	Supply Chan	Inventc
▲	▲	⊗	SI13: PPM_INTGR_KM_DOC_01	S4TWL - KM Documents in SAP Portfolio and Project Ma...	R&D/Engineering	Enterpr
▲	▲	⊗	SI2: SD_PBRG	S4TWL - Data Model Changes in SD Pricing	Sales	Order a
▲	▲	⊗	SI6: FIN_MISC_M	S4TWL - Conversion to S/4HANA Material Ledger and A...	Finance	Cost Ma
▲	▲	⊗	SI6: MasterData_FM	S4TWL - Foreign Trade fields in Material Master	Finance	Enterpr
▲	▲	⊗	SI10: Industry_DRMP_AD	S4TWL - Actual labor and costing	Solutions for Specific Industries	Aerospi
▲	▲	⊗	SI10_IS_DRMP_HIT	S4TWL - Manufacturing Execution Systems	Solutions for Specific Industries	High Te

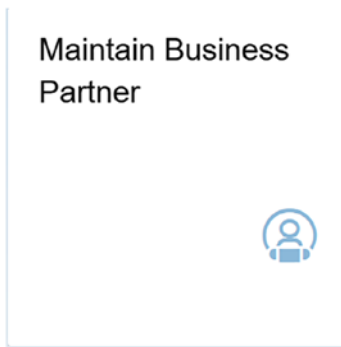
Figure 4-42. Simplification item check

## Maintaining a Business Partner

BP is the single point of entry to create, edit, and display master data for business partners, customers, and vendors. Depending on the role and grouping, a Business Partner can be a vendor, a goods supplier, a subcontractor, a service agent, and so on. The following sections discuss a few scenarios for how to create a Business Partner using different roles.

## Create a Sold-To Account

Business Partners can be created using the BP transaction or through Fiori tiles (see Figure 4-43).



**Figure 4-43.** Fiori Tile: Maintain Business Partner

From the screen titled Maintain Business Partner, follow these steps:

1. Click the type of customer (Person/Organization/Group).
2. Select 000000 Business Partner (Gen.) from the Create in BP Role drop-down menu.
3. Enter information in the fields as required; see Figure 4-44.



**Figure 4-44.** Create an organization

On the Create Organization screen, follow these steps to add fields to the address data:

1. Save the original record. Then go to Address Overview. Double-click the address line and choose Enter Applicable Information.
2. Click the Print Preview button to see the mailing/shipping address in full.
3. Click Save (see Figures 4-45 and 4-46).

Business Partner (Gen.):  / 980 Great West Road / Brentford TW8 9GS

Street/House number:

District:

Postal Code/City:

\* Country:  United Kingdom Region:  London

Time zone:

Transportation Zone:  London

**Figure 4-45.** The BP – Address screen

Business Partner:  /  / Brentford TW8 9GS

\* Change in BP role:

[Address](#) [Address Overview](#) [Identification](#) [Control](#) [Payment Transactions](#) [Status](#) [Additional Texts](#)

Standard Address

Street Address

**Figure 4-46.** BP print preview

The Sold-to Number is now visible in the display business partner field. A basic address record has been created. Further, the data needs to be extended for finance related and sales information.

This is done through the addition of roles to this address record. For a Sold-to, two partner roles need to be added: Customer (Financial Accounting) and Customer. Make sure the record is in change mode before extending it to another role.

## General Data: Finance Role

The Business Partner Role – FLCU00 – Customer (Fin. Accounting) is used to maintain finance data (see Figures 4-47 and 4-48).

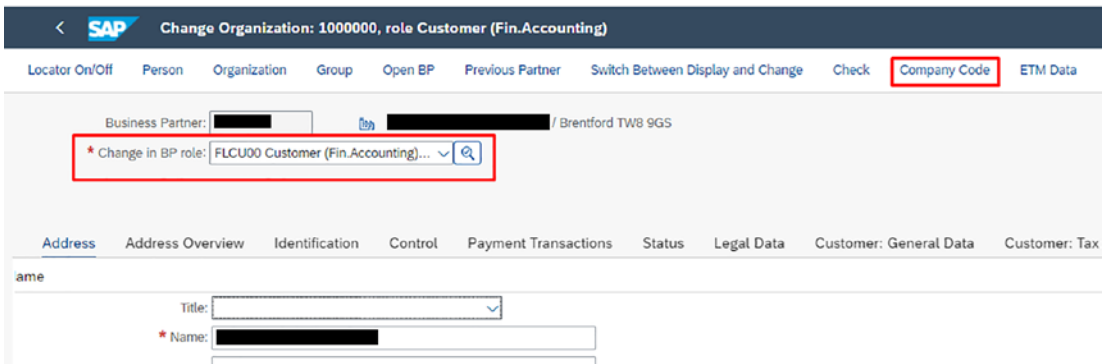


Figure 4-47. BP role FLCU00

## Company Code Header



Figure 4-48. BP Company code data

Enter company code, reconciliation account, sort key in account management header, payment terms in payment data header, and any other relevant information in the master data screen. Once the customer with role FLCU00 is completed, click Save.

## Set Up the Customer Role – Sales Area

(The role can be extended in Change Mode only):

1. Click the Sales Area Data button.
2. Enter the sales org, distr channel, division, and any other relevant information and click Save (see Figure 4-49).

**Figure 4-49.** Sales area data

The tabs for Order, Shipping, Billing document, Partner Functions, and so on, are editable now.

Enter Currency in Orders Header, Cust.Pric.Procedure, Customer Stats.Group in Pricing/Statistics Header, Delivery Priority, Order Combination, Shipping Conditions in Shipping Header.

Enter relevant data in the Billing and Partner Functions tabs. (In the Partner Functions tab, SAP has created Sold-to, Bill-to, Payer, and Ship-to party with the matching number). Complete the customer.

Click Save.

## Create Ship-To Account

If the customer's Ship-to information is different from the Sold-to information, create the Z\*\*\* Ship-to Partner. From the Maintain Business Partner screen, enter information in the fields as specified in the following table and click the type of customer—Person/Organization/Group. Typically, for a distributor, the type is Organization (see Figure 4-50).

**Figure 4-50.** Grouping: Ship to customer

To add fields to the address data, follow these steps from the Create Organization screen:

3. Save the original record. Go to Address Overview and then double-click the address line. Enter the applicable information.
4. Click the Print Preview button to see the mailing/shipping address in full. Then click Save (see Figure 4-51).

The screenshot shows the 'Business Partner (Gen.) Change: Address' form. The form includes the following fields and values:

- Business Partner (Gen.): [Redacted] / [Redacted] / F-76960 NOTRE DAME DE BON...
- Street/House number: [Redacted]
- Postal Code/City: 76960 NOTRE DAME DE BONDEVILLE
- \* Country: FR France Region: [Redacted]
- Time zone: CET
- Transportation Zone: FR France

A print icon is visible on the right side of the form.

**Figure 4-51.** Business Partner – Address

Extend the basic address record for the sales information.

The Ship-to number is now visible in the display business partner field. For a Ship-to, one partner role needs to be added: Customer. Make sure the record is in change mode; if it's in display mode, click the Switch Between Display and Change button.

## Set Up the Customer role - Ship to Sales Area

(This role can be extended in Change Mode only.)

Click the Sales and Distribution button (see Figures 4-52 and 4-53).

The screenshot shows the SAP Business Partner role configuration screen. The 'Sales and Distribution' tab is selected and highlighted with a red box. The 'Business Partner' field is also highlighted with a red box. Below it, the 'Display in EP role' field is set to '2 U001 Sold-to party' and is also highlighted with a red box. The breadcrumb trail at the top includes 'Locator On/Off', 'Person', 'Organization', 'Group', 'Open EP', 'Previous Partner', 'Switch Between Display and Change', 'Sales and Distribution', 'ETM Data', and 'More'.

**Figure 4-52.** BP Role – Sold to Party Enter the Sales org, Distr channel, and Division



Sales Area

Sales Org.:

Distr. Channel:

Division:

**Figure 4-53.** *Sales Area - BP*

Click Save

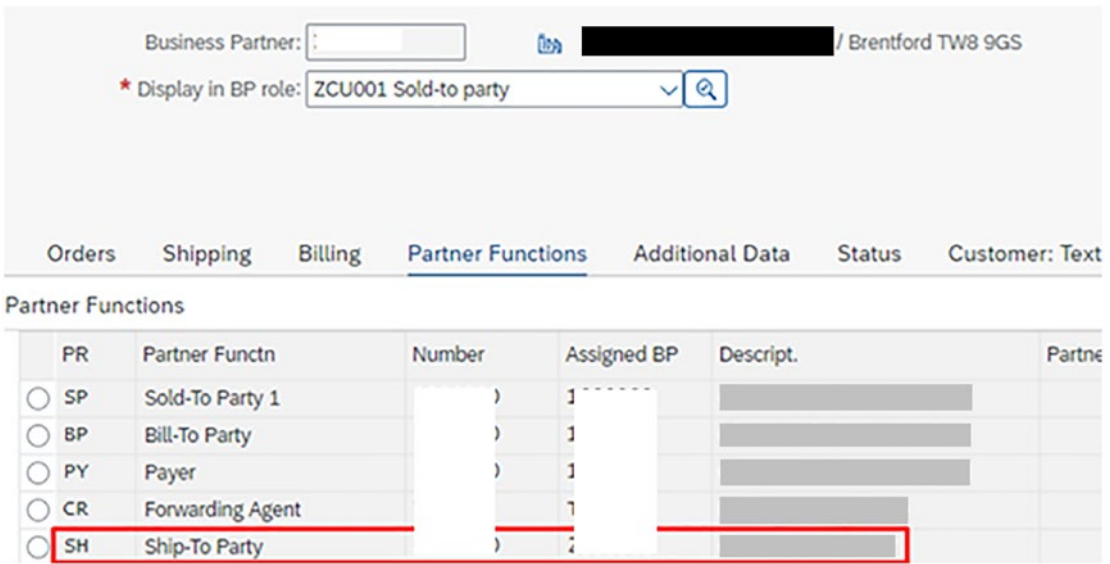
Enter Currency in Orders Header, Cust.Pric.Procedure, Customer Stats.Group in Pricing/Statistics Header, Delivery Priority, Order Combination, and Shipping Conditions in Shipping Header.

Enter relevant data in the Billing and Partner Functions tabs. (In the Partner Functions tab, SAP has created a Sold-to, Bill-to, Payer, and Ship-to party with the matching number). Complete the customer.

## Link the Ship-to Partner to the Sold-to Partner

Open the appropriate Sold-to account to assign the new Ship-to record to. Ensure that the Customer record is in Change mode.

1. Select Customer (Defined) in the Change in BP role.
2. Click the Sales and Distribution button. Select the Partner Functions tab. In the first blank row, type in SH in the Partner Function column.
3. In the Number column, type the newly created Ship-to account number or search for it via the drop-down menu.
4. Check the box for the default Ship-to account.
5. Click Save (see Figure 4-54).



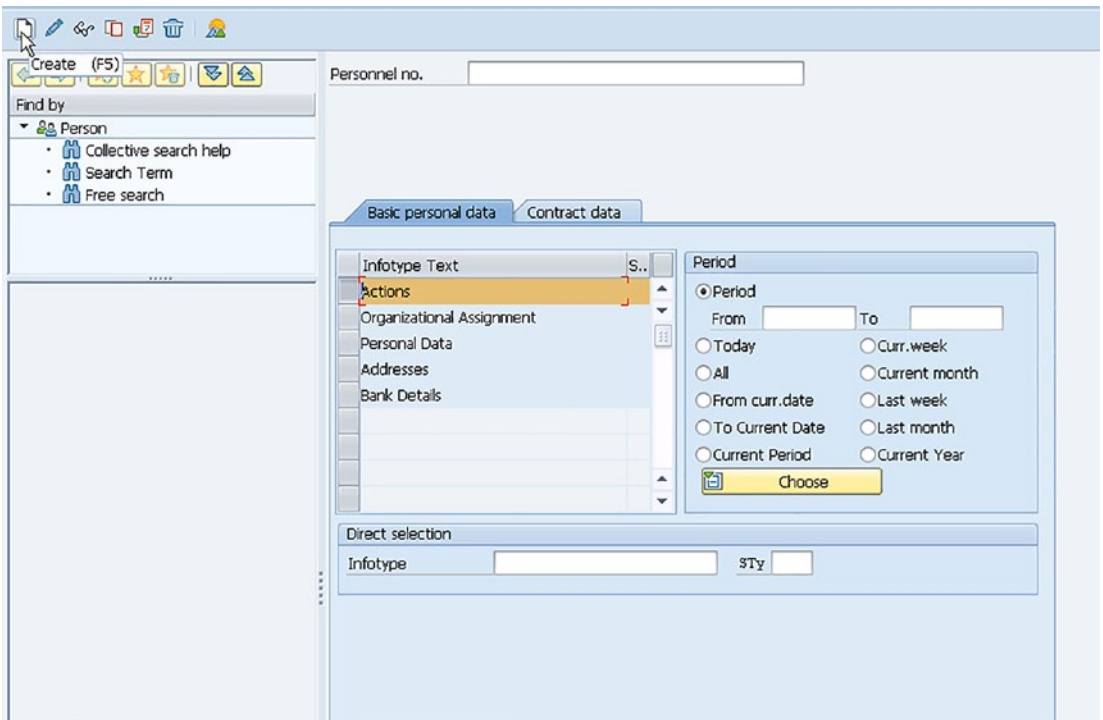
**Figure 4-54.** SH partner functions

**1. Create Bill-To Partner**

Similar to bill-to partner and payer partner.

**2. Maintain Employee as Business Partner**

Step 1: Go to T. Code PA30 (see Figure 4-55).



**Figure 4-55.** *Maintain employee*

Step 2: Select Actions Infotype and click Create.

Step 3: Enter the parameters shown in Figure 4-56.

Pers.No.	7					
Start	01.01.2019	to	31.12.9999	Chng	16.07.2019	
<b>Personnel action</b>						
Action Type	01 Hiring					
Reason for Action	<input type="checkbox"/>					
<b>Status</b>						
Customer-specific						
Employment	3 Active					
Special payment	1 Standard wage type					
<b>Organizational assignment</b>						
Position	99999999	Default position				
Personnel area	1710	Region 1710 (US)				
Employee group	1	Employee				
Employee subgroup	Y1	Employee				

**Figure 4-56.** Enter these parameters

Step 4: Click Save to move to the next screen.

Step 5: Maintain Employee details (see Figure 4-57).

**Change Personal Data**

Start  to  Chng

**Name**

Title	<input type="text" value="Mr"/>	Name Format	<input type="checkbox"/>
Last name	<input type="text"/>	Birth name	<input type="text"/>
First name	<input type="text"/>	Initials	<input type="text"/>
Name prefix	<input type="text"/>	N.prefix 2	<input type="text"/>
Title	<input type="text"/>	Second title	<input type="text"/>
Other title	<input type="text"/>	Nickname	<input type="text"/>

**Additional data**

Birth date	<input type="text" value="12.11.1991"/>	Language	<input type="text" value="EN English"/>
Birthplace	<input type="text"/>	Mar.status	<input type="text"/>
Ctry o.birth	<input type="text"/>	Since	<input type="text"/>
State	<input type="text"/>	No. child.	<input type="text"/>
Nationality	<input type="text" value="US American US"/>	Religion	<input type="text"/>
2nd/3rdNat	<input type="text"/>		

**Figure 4-57.** Change personal data

Step 6: Click Save to go to the next screen.

Step 7: Enter the subarea (see Figure 4-58).



**Change Addresses**

Start  to  Chng

**Address**

Address type

Care Of

Street and House No.  /  /

2nd Address Line

Postal code / city

District

Region  Indiana

Country Key

Telephone Number

Distance in km.  /

Company housing

Bus route

**Figure 4-59.** Change address

Step 9: Maintain address (see Figure 4-60).

**Change Bank Details**

Start **01.06.2019** to **31.12.9999** Chng **15.07.2019**

**Bank details**

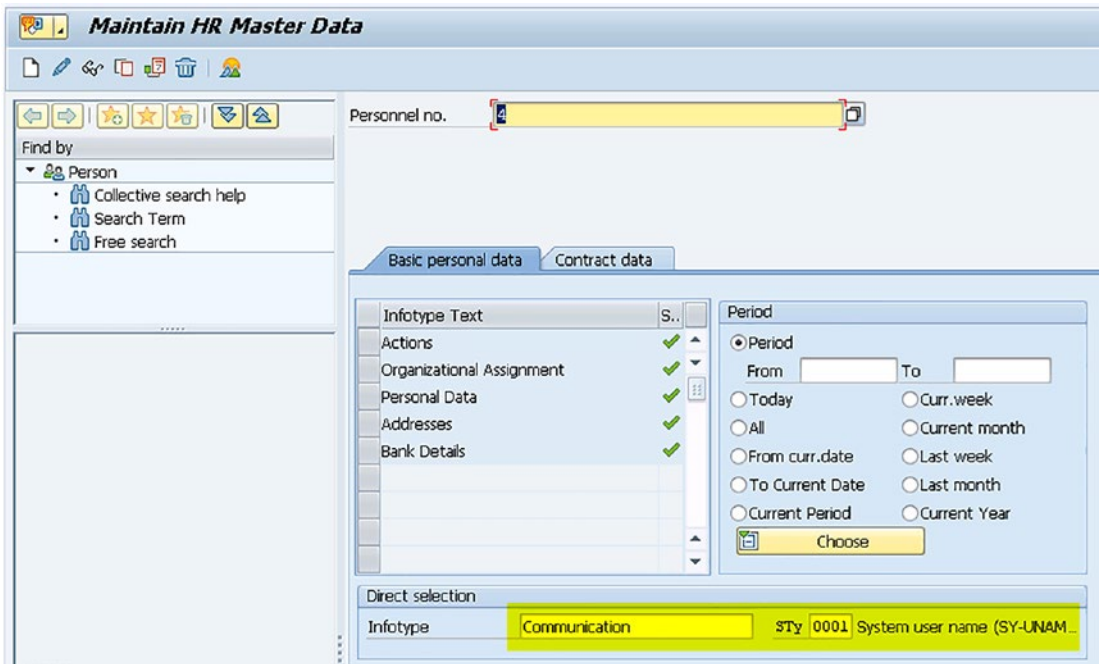
Bank details type	0 Main bank	
Payee	[REDACTED]	
Postal code / city	56001	NEW YORK
Recipient Country	US USA	
Bank Country	US USA	
Bank Key	[REDACTED]	
Bank Account	[REDACTED]	Bank control key <input type="checkbox"/>
IBAN	[REDACTED]	
Payment Method	<input type="checkbox"/> Cash Payment	
Purpose	[REDACTED]	
Payment currency	[REDACTED]	

**Figure 4-60.** Maintain address

Step 10: Select main bank (0).

Step 11: Save (see Figure 4-61).

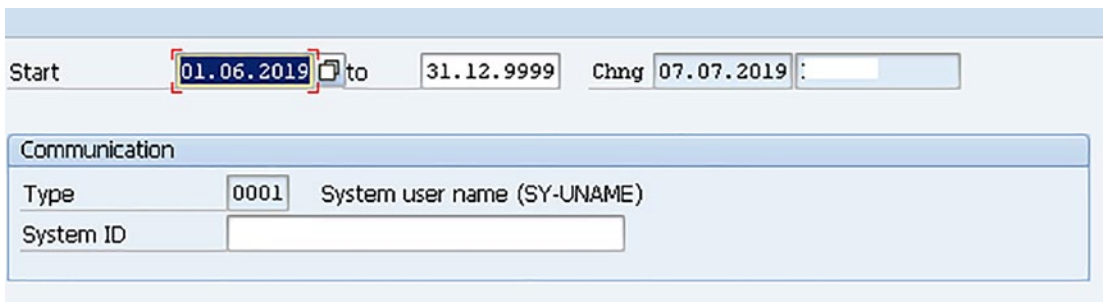




**Figure 4-61.** *Maintain HR Master Data*

Step 12: In the highlighted area, select info type Communication and sty 0001.

Step 13: Click Create (see Figure 4-62).



**Figure 4-62.** *InfoType communication*

Step 14: Enter the USER ID and choose save.

The employee is now created with Personnel Number. This is extended as a Business Partner with respective roles and groupings.

Step 15: BP Creation Go to BP T. Code.

Step 16: Select BP Category as Person and BP Grouping as BPEE.

Step 17: Enter all the parameters as per the requirements in Figure 4-63.

The screenshot shows the SAP Business Partner screen with the 'Address Overview' tab selected. The header displays 'Business Partner' and 'Change in BP role' as '000000 Business Partner (G...)'. The main form is divided into several sections:

- Name:** Title (0002 Mr.), First name, Last name, Full Name, Correspondence lang. (EN English), Language (EN English).
- Search Terms:** Search Term 1/2.
- Standard Address:** Includes a 'Print Preview' button and fields for Street Address, Street/House number, Postal Code/City (12345 NEW YORK), Country (US USA), Region, and Time zone (CST).
- PO Box Address:** Fields for PO Box and Postal Code.
- Communication:** Fields for Telephone, Cell Phone, Fax, and E-Mail Address, each with an 'Extension' field. Includes buttons for 'Other communication...', 'Dependent -> Independent..', and a search icon.

Figure 4-63. Business Partner screen

**Step 18:** Once all the details are filled in, click check to validate details.

**Step 19:** Go to the Identification tab (see Figure 4-64).

The screenshot shows the 'Identification' tab in a SAP system. The 'Personal Data' section includes radio buttons for Sex (Unknown, Female, Male) and input fields for Marital Status and Nationality. The 'Identification Numbers' section features an 'External BP Number' field and a table with the following data:

IDType	Description	Identification number	Responsible Institution	Entry date
HCM001	Employee ID	4		

**Figure 4-64.** Identification tab data

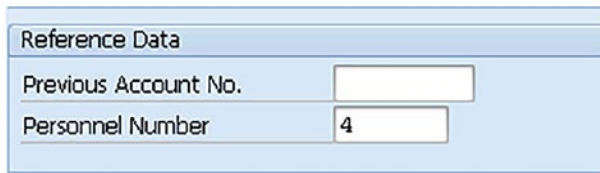
Step 20: In ID Type, enter HCM001 and enter the previously created personal number in PA30. Click Save.

Step 21: Now select the FLNV00 role and click Company Code (see Figure 4-65).

The screenshot shows the 'Company Code' selection screen. The 'Company Code' field contains '1710' and is highlighted with a red box. Below it are fields for 'Customer' and 'Vendor'. The 'Vendor' field contains '0000000010'. The 'Account Management' section is expanded, showing 'Reconciliation acct' with a value of '2' and 'Travel Expenses Payable' selected. The 'Head office' field is also visible.

**Figure 4-65.** BP Role FLVN00

Step 22: Enter CC and Reconciliation account and then scroll down (see Figure 4-66).

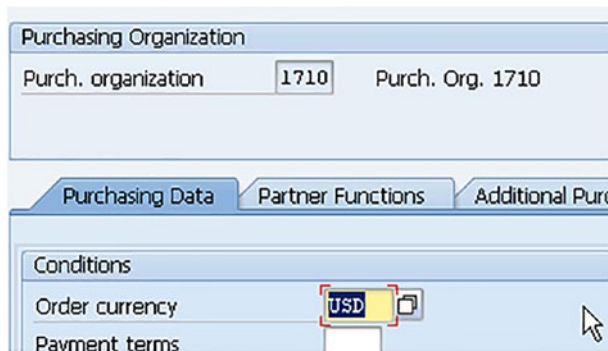


Reference Data	
Previous Account No.	<input type="text"/>
Personnel Number	<input type="text" value="4"/>

**Figure 4-66.** *Company code Data tab*

Step 23: Enter the personal number and choose save.

Step 24: Now select the FLVN01 role and select [Pur.Org](#). (see Figure 4-67).



Purchasing Organization	
Purch. organization	<input type="text" value="1710"/> Purch. Org. 1710

Conditions	
Order currency	<input type="text" value="USD"/>
Payment terms	<input type="text"/>

**Figure 4-67.** *BP role – FLVN01*

Step 25: Enter Pur.org and Order Currency and choose save.

Step 26: Now select the FS0000 role and open Company Code to check whether its extended or not. Choose Save.

Step 27: Select the BUP001 role and verify that all the address details are populating. Choose Save.

Step 28: The BP has now been created.

## Single Employee-BP Synchronization

This is synchronization with EMP and BP (see Figure 4-68).

1. Open the SA38 transaction.
2. Enter *Program Name*/SHCM/RH\_SYNC\_BUPA\_EMPL\_SINGLE.
3. Execute.

**Figure 4-68.** Single Employee: BP Synchronization

4. Provide the personal number created in PA30 and run the program (see Figure 4-69).

**Figure 4-69.** Single Employee: BP Synchronization

5. Now check the log using the SLG1 transaction.
6. This data is in the Object and Subobject fields (see Figure 4-70):  
Object: SHCM\_EE\_INTEGRATION  
Subobject: BUPA\_SYNC

**Analyze Application Log**

Object: SHCM\_EE\_INTEGRATION

Subobject: BUPA\_SYNC

External ID: \*

**Time Restriction**

From (Date/Time): 16.07.2019 00:00:00

To (Date/Time): 16.07.2019 23:59:59

**Log Triggered By**

User: \*

Transaction code: \*

Program: \*

**Log Class**

- Only very important logs
- Only important logs
- Also less important logs
- All logs

**Log Creation**

- Any
- Dialog
- In batch mode
- Batch input

**Log Source and Formatting**

- Format Completely from Database
- Format Only Header Data from Database
- Format Completely from Archive

**Figure 4-70.** Analyze Application log

7. Once Object and Subobject are maintained, execute the log (see Figure 4-71).

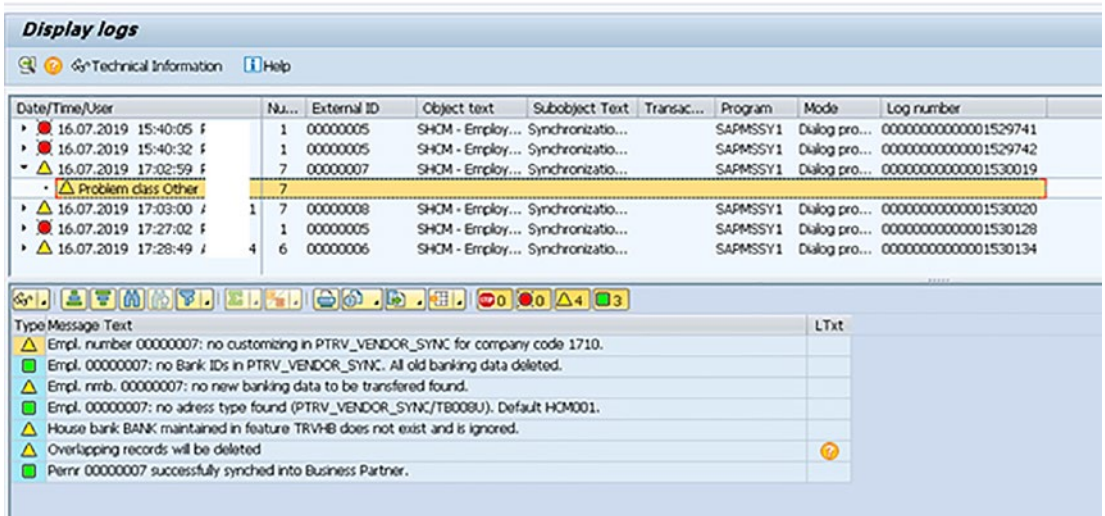


Figure 4-71. Display log

8. Now EMP ID and BP are synced.
9. Open the SU01 transaction and check the final output (see Figure 4-72).

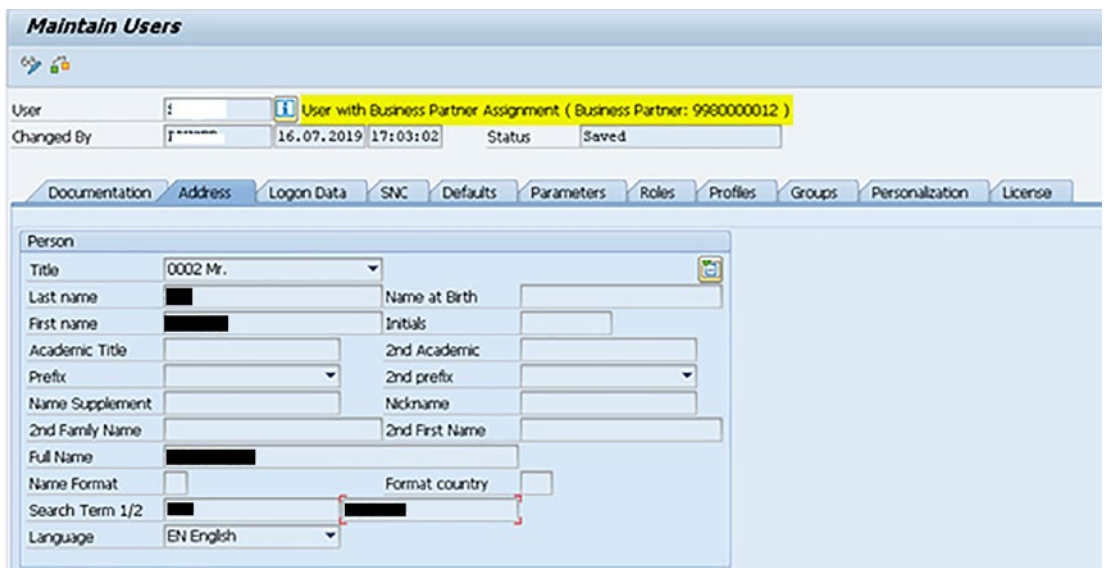


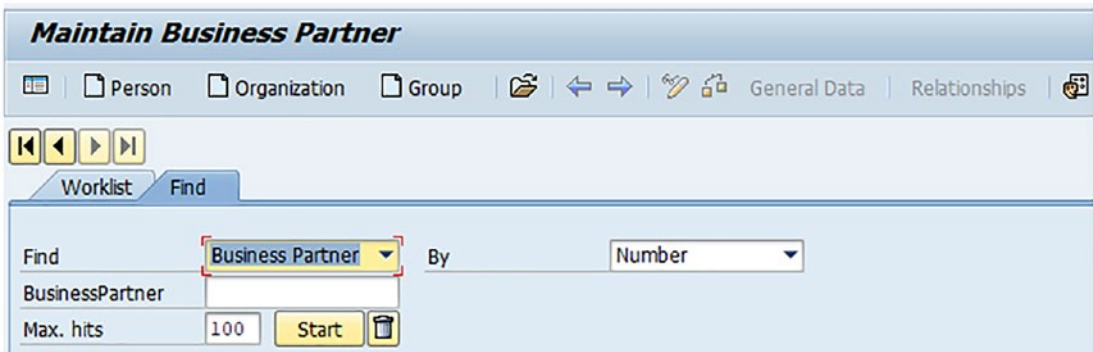
Figure 4-72. Maintain users

It's indeed synced with BP, as shown in Figure 4-72.



## The Data Model in SAP S/4HANA Business Partner

Transaction BP is the single point of entry for creating/changing/displaying customer/vendor data. It is easy to access as compared to Customer/Vendor Data Point, wherein different transactions had to be accessed for different roles/data tabs (see Figure 4-73).



**Figure 4-73.** *Maintain Business Partner*

CVI updates customer/vendor data when creating Business Partners. IDOC for interchange of customer/vendor data CREMAS, DEBMAS, and ADRMAS all support S/4HANA. BAPI for creation of customer/vendor data CL\_MD\_BP\_MAINTAIN is not supported as they don't call CVI function CVI\_EI\_INBOUND\_MAIN.

Tables BUT000, BUT100, and BUT020 can be accessed for data in the General data tab. For example, Address, Search Term, Name, Email ID, Contact Number, and so on. This information will remain the same throughout the roles of Business Partners.

CVI synchronizes the KNA1, KNVV, and LFA1 customer/vendor tables into general tables and application-specific tables. Tables for customer data (KNA1) and vendor data (LFA1) remain available and are not impacted.

Linkage impacts the data tables: CM\_CUST\_LINK and CM\_VEND\_LINK.



## BP Master Data Protection

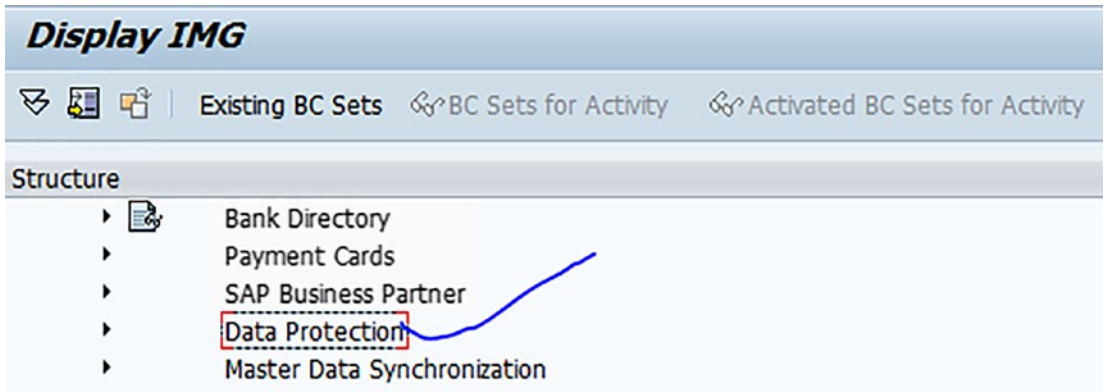


Figure 4-74. BP Master Data Protection

## Business Data Toolset (BDT)

BDT helps configure the user interface of the Business Partner. It dynamically enables the process of changes in the layout. It can be combined with the Business Rule Framework transaction (BRFPLUS).

The BUPT transaction code determines all the relevant transactions to configure the BDT (see Figure 4-75).



Figure 4-75. BDT menu

BDT events are defined using the BUS7 transaction (see Figure 4-76).

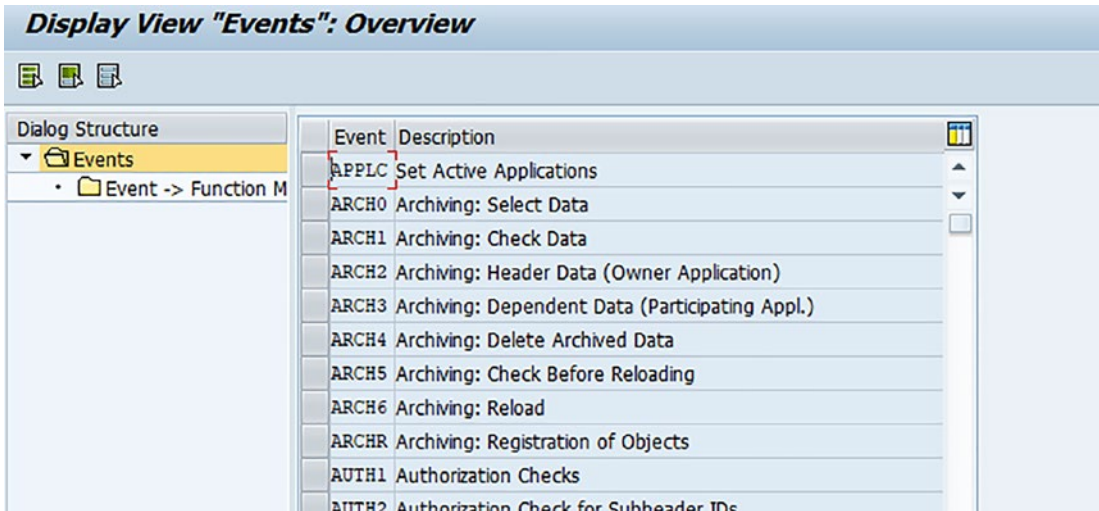


Figure 4-76. BDT events

Field modification criteria are defined using the BUSC transaction (see Figure 4-77).

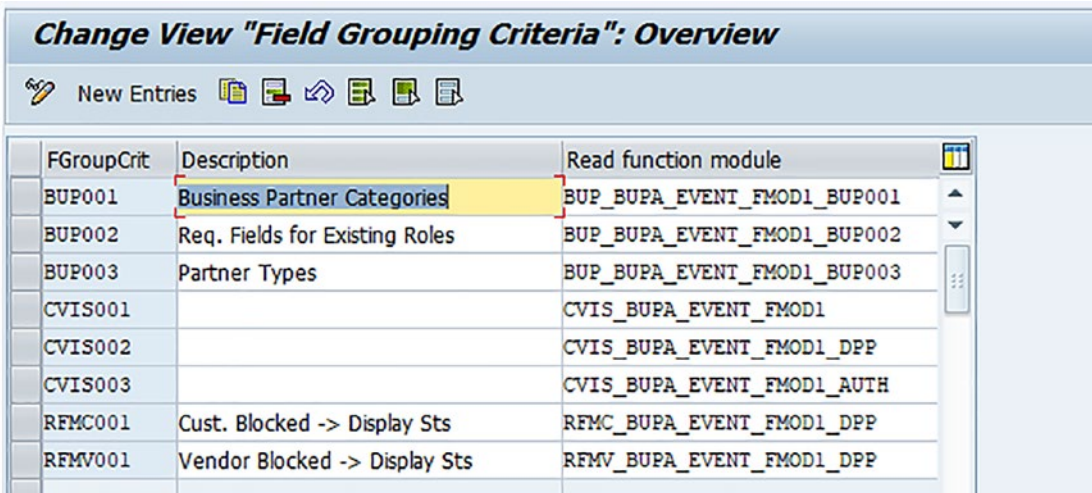
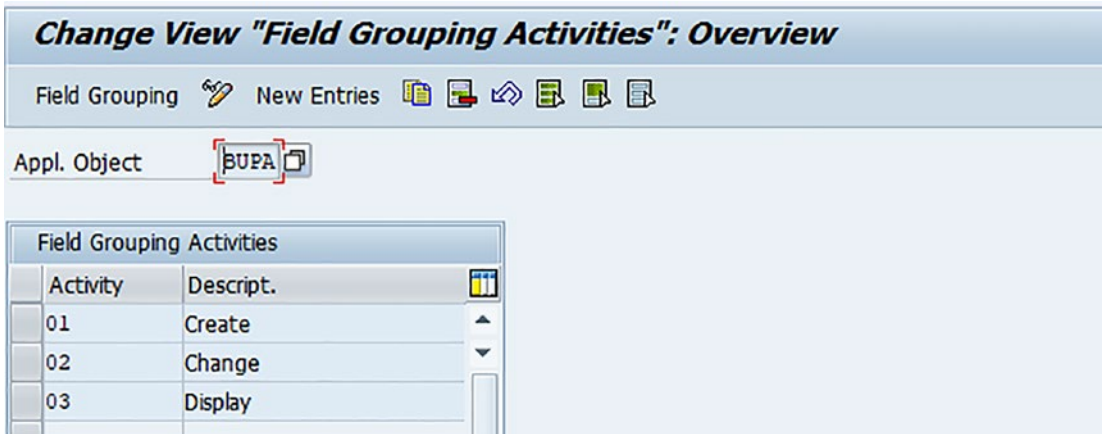


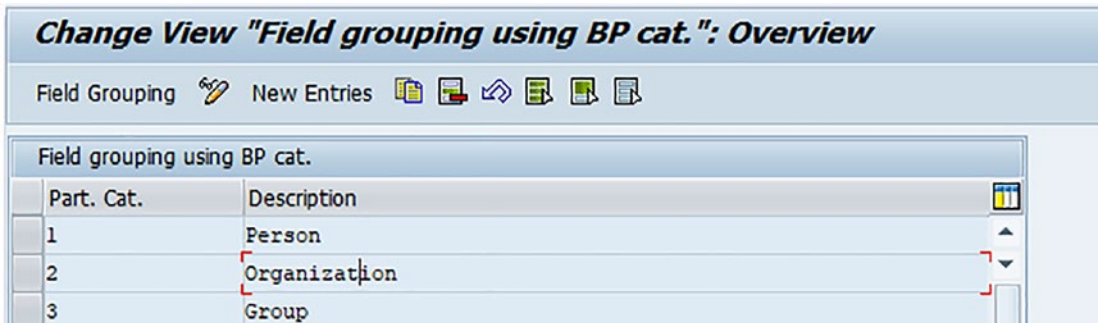
Figure 4-77. Field modification criteria

Field modifications are defined using BUSJ transaction per activity (see Figure 4-78).



**Figure 4-78.** Field grouping activities

Field modifications are defined using the BUS0 transaction per category (see Figure 4-79).

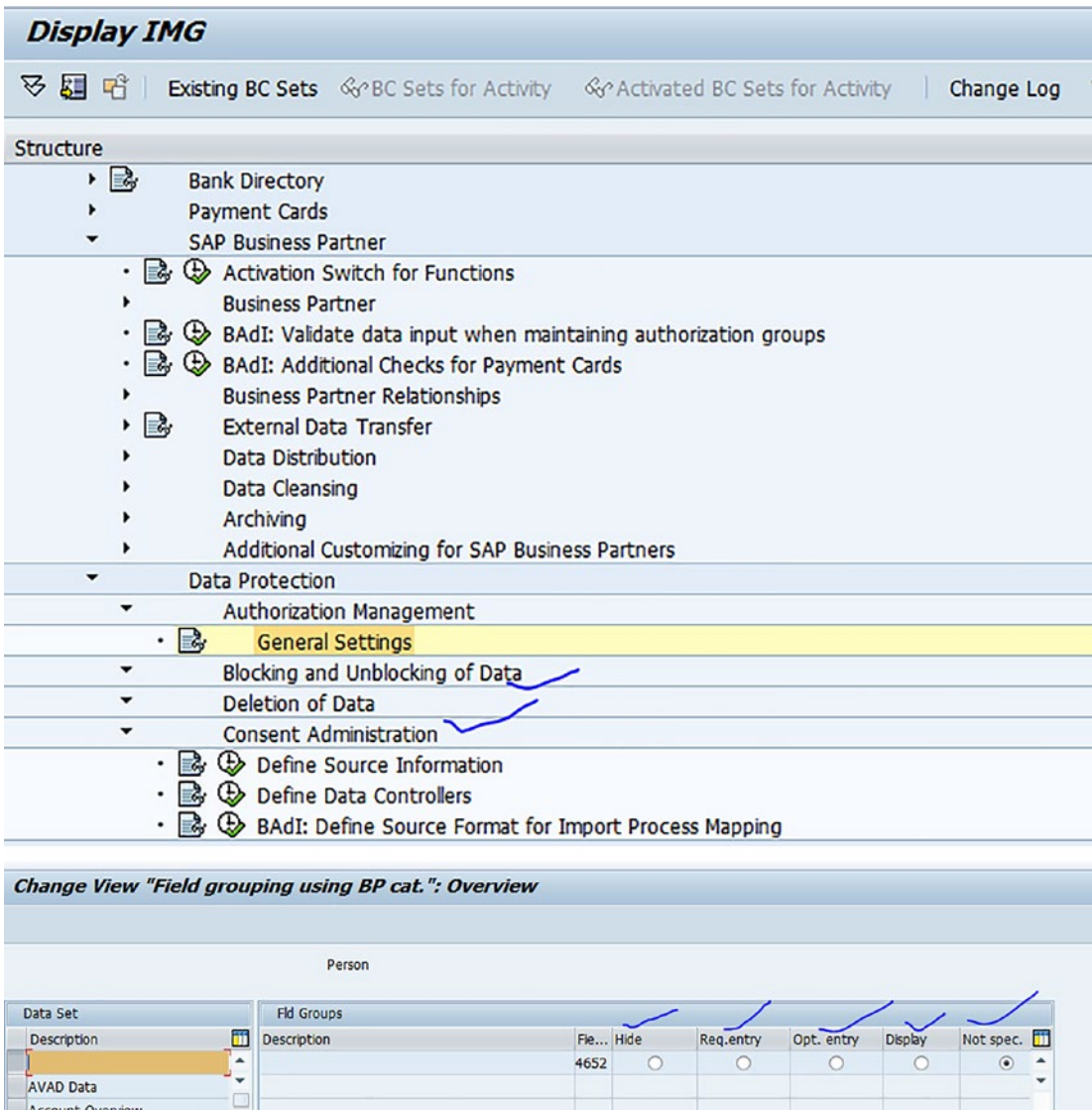


**Figure 4-79.** Field grouping using BP category

Field modifications control, at the field group level, whether fields can be set to the following (see Figure 4-80):

Required/Mandatory entry

- Optional entry
- Hidden
- Display
- Not specified

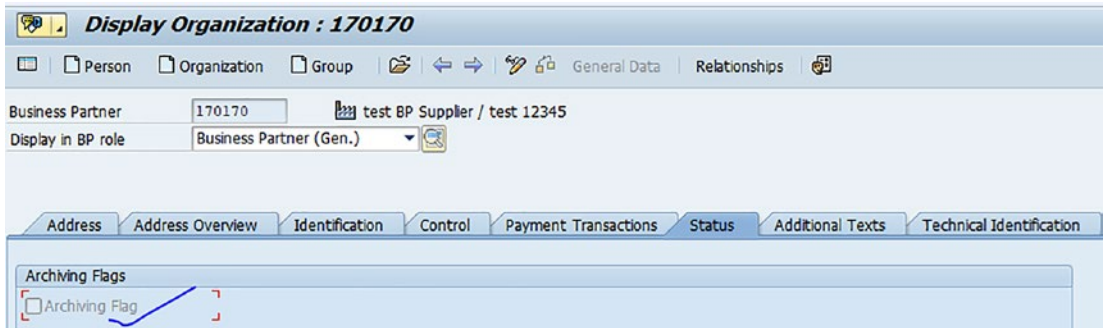


**Figure 4-80.** Field grouping using BP category

1. The restriction can be defined.
2. The authorization object B\_BUPA\_GRP should be used and tied to an authorization role.
3. Blocking and unblocking Business Partner is used to block BP master data.

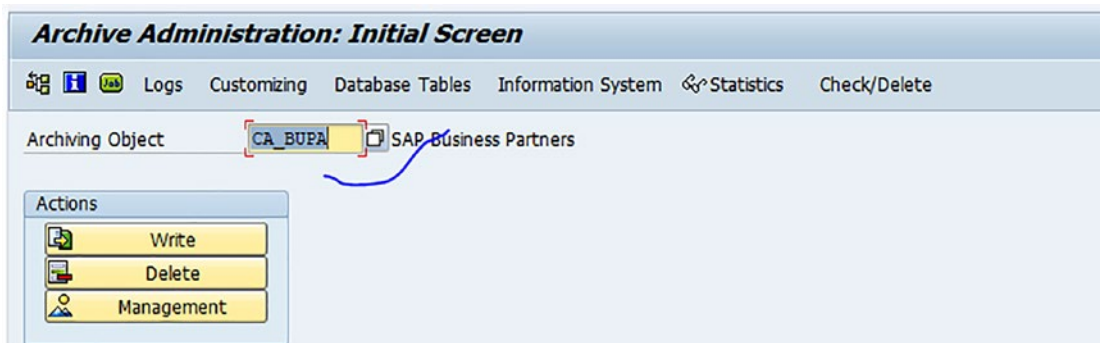
## BP Master Data Archiving

BP master data that is no longer required may be archived by selecting the Archiving flag in the Status tab, using BP Transaction code (see Figure 4-81).



**Figure 4-81.** Maintain Business Partner

Transaction Code SARA can be used as archive administration. Object CA\_BUPA will be used (see Figure 4-82).



**Figure 4-82.** Archive administration

## Conclusions

As a review, here are the most important preparation tasks:

1. Implement the prechecks.
2. Archive customer/vendor master data with deletion flag.
3. Activate Business Functions CA\_BSOAP.
4. Check and integrate customer/vendor enhancement. Refer to SAP Notes 2309153 and 1623809.
5. Execute CVI. Refer to SAP Note 2265093.
6. Remove and avoid inconsistent customizing and inconsistent customer data.
7. Refer to SAP Note 2336018 and Guided CVI Customizing (Note 2344034).
8. SAP recommends keeping the customer/vendor number the same when converting to Business Partners. Only when there is a conflict in the number ranges between customer and vendor should one of the entities take a different BP number.
9. During synchronization, the system ensures that all necessary authorizations exist.
10. Formatting issues cannot be solved by suppressing errors. The wrong formatted/missing reference data must be cleaned up. Refer to SAP Notes 2336018 and 2344034.

The next chapter discusses the functional preparation activities you need to complete as a part of the preparation phase.



## CHAPTER 5

# Preparation Phase (Preparations in SAP ECC System Before SUM) – Part 1

When converting to SAP S/4HANA, the preparation activities are the key to the success of the project. If the preparation activities are incomplete, SUM verifies this during its run and throws error messages. If the error is severe (such as return code 12), SUM stops running in the first phase. If the severity is low (such as return code 8 or 7), SUM stops or sends a message during its third or fourth phase.

It is highly risky to ignore a warning or error or to leave a task unattended during the preparation phase. Sometimes you may have to restore to the preparation phase, even after moving to SAP S/4HANA, before you execute the Conversion Cockpit.

Before you start preparation activities, it is important to understand the functionalities in use in the current system. These activities may be called discovery activities for the preparation. I provide an overview of discovery activities that help prepare the system.

Then you move on to reconciliations you need to perform before you start preparing the system, in order to understand data consistency and inconsistencies in the source system. This way, you can fix them before you start the preparation activities.

After that, the Simplification Item Check Report is executed to prepare the system with relevant simplification items. I provide some sample examples of doing these checks.

Lastly, the chapter discusses some important checks in FI-GL that need to be done before the conversion.

## Discovery Activities Before Starting the Preparation Activities

Before starting preparation activities in the ECC system, all consultants working on the conversion project must verify the source system. This way, they know which functionalities are in use and which activities must be done during the conversion preparation and realization phases.

The following discovery activities help consultants plan for the project activities and provide a schedule to their customers:

1. As a part of discovery activity, consultants may take test scripts that are used in the implementation or ST03 DUMP for three to six months. This way, they can understand the functionalities that are in use. This is useful when performing testing based on this activity.
2. The Readiness Assessment document has to be analyzed. It's used as a base for preparing the system for SAP S/4HANA conversion.
3. Verify restrictions in Asset Accounting, banking, and leasing before the SAP S/4HANA system conversion. That way, you understand the restrictions of the project.
4. Determine whether COPA is in use. If it is, you need to identify what type it is—the costing-based COPA or the account-based COPA (or both). This exercise helps to place the preparation activities in your task list.
5. Before you start the conversion project, you need to verify TFILA\_FA\_002 table. If you have one at least one entry in the TFILA\_FA\_002 table, then lease accounting is used. SAP S/4HANA does not support New AA and lease accounting together.
6. Check whether EA-FIN is active. You need to activate based on the source system.



7. Verify the default account assignment OKB9 and KS02. After the Conversion Cockpit, the account assignments at KS02 will be moved to OKB9 by the Cockpit activity.
8. Determine if Actual Costing is in use (xBEW-MLAST = '2'). If it is, you have to plan for Actual Costing preparation activities.
9. Verify that subcomponent EA-HRCUN must be deleted from Rel. 6.00 and 6.02.
10. In general, a digital license is required on the SAP ERP start release prior to starting the system conversion. From SAP ERP 6.0 EHP5 on, having a digital license is mandatory; however, systems on ERP 6.0 EHP0 to EHP4 can still run without a digital license, so you need to install a digital license upfront.
11. Only one fiscal year can be open in Asset Accounting during conversion, and the last year cannot be reopened after conversion. Refer to SAP Note 2304418.
12. Is Trade Finance relevant to your conversion? If trade finance is in use, add the relevant activities to your task list.
13. Always refer to Release Information Notes 2884313 and 2943206, and other notes that are related to conversion, before you start the project. You need to understand the restrictions and limitations of the project.
14. Verify the need a year-end closing reset. Once the system is migrated/converted, this becomes impossible.
15. Verify if ERP SD Revenue Recognition is used or if RAR has been in use. Based on the source system functionality, consultants need to add these activities to the task sheet.
16. Verify SAP Note 3006586, which is related to the Cost of Sales ledger.
17. Check for the existence of records in table KNVK, where LIFNR has non-initial values (KNVK-LIFNR <> ' '). Refer to SAP Note 2943206.

18. See SAP Note 2993220 to understand the activities related to EC-PCA.
19. As a part of discovery activity, see SAP Note 2781585 to understand cash management - memo record functionality.
20. Verify if the system uses new Cash Management and memo records. There is no data in table FDES and no memo records functionality in use.
21. Verify and plan for interfaces/integrations with other system/PO/BW systems usage.
22. Verify usage of transactions WB21, WB22, and WB23.
23. Verify if the Material Ledger is in use. Refer to SAP Note 2345739.
24. Verify usage of Real Estate Classic (RE Classic).
25. BPC/Consolidation Usage has to be verified and planned for conversion, if it's in use.
26. Verify attachments to specific document types SW01. Table SRGBTBREL.
27. Verify usage of accruals. If there are No Entries found in tables ACEDSOI, ACEPSOI, ACEPSOIT, and ACEOBJ, it is not in use and no action is needed.
28. Verify if the system is using ledger approval with non-calendar fiscal year variant for parallel valuation; see SAP Note 2220152.
29. If the system is Classic GL, you must initialize field BSEG-BDIF for all open items.
30. Verify which planning capabilities are in use in the current system. Refer to SAP Note 2270407. This helps to prepare for planning capabilities after moving to SAP S/4HANA.
31. Verify the existing clients in the system. Refer to SAP Note 1749142.
32. Verify use of employee vendors in the current system. Refer to SAP Note 2340095.

33. Verify whether the period-end activities have been completed. If not, you have to complete them.
34. Verify if SD Revenue Recognition is in use. If so, you have to take up a preproject to migrate this functionality to RAR.
35. Make sure that you have carried forward all balances in all applications and ledgers to the current fiscal year using the following transactions:
  - FAGLVTR for the new General Ledger
  - F.16 for the classic General Ledger
  - AJRW for Asset Accounting
  - F.07 for Accounts Receivable and Accounts Payable
36. Verify whether the following activities have been completed:
  - Carry out the depreciation run (report RAPOST2000 or transaction AFAB)
  - Run the periodic asset postings (report RAPERB2000)
  - Asset history sheet is executed

## Fixing Financial Data Inconsistencies Before Conversion

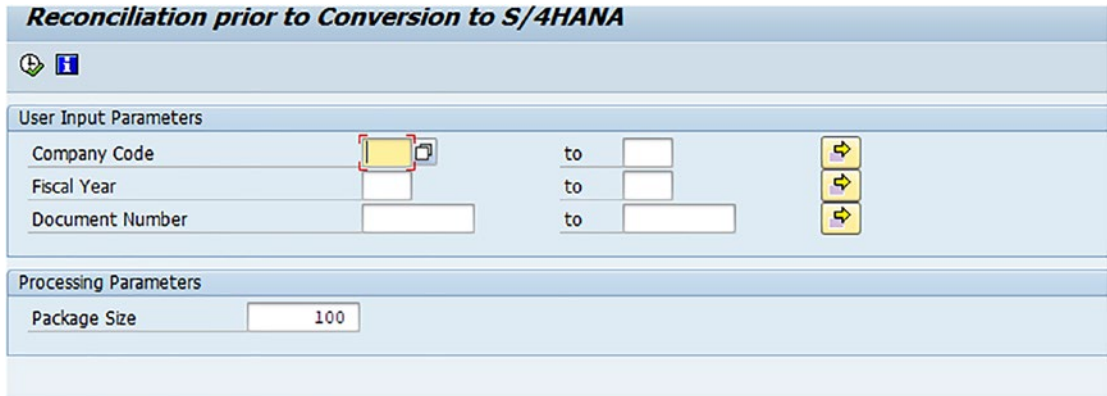
### S/4HANA Migration: Inconsistency Correction Monitor

It is essential to fix any database inconsistencies in the ECC system before you move to SAP S/4HANA. Report FIN\_CORR\_RECONCILE will identify database inconsistencies and report FIN\_CORR\_MONITOR will analyze and fix them.

As a part of preparation activity, you need to identify and rectify “financial data inconsistencies” in the current ECC system. One of the ways to identify these inconsistencies is by executing readiness checks in the current ECC system.

Showing financial data inconsistencies is one of the components of a Readiness Check. You can also display these inconsistencies by executing the FIN\_CORR\_RECONCILE program in SE38. This reconciliation check is the main source of the financial data quality analysis. It contains different consistency checks of the General Ledger.

You can use the FIN\_CORR\_RECONCILE program, as specified in SAP Note 2755360, to identify all the financial database inconsistencies that could occur during the SAP S/4HANA Finance Data Migration phase. For more information about this transaction, select the Program Documentation button on the initial screen of this transaction (see Figure 5-1).



**Figure 5-1.** Reconciliation prior to conversion to S/4HANA

It is very important to analyze and resolve the listed issues prior to the SAP S/4HANA conversion. You need to run this report in the background to avoid a longer runtime (see Figure 5-2).



**Figure 5-2.** Information message

When analyzing errors, you need to refer to the number of different error types, but not the total number of errors (see Figure 5-3).

<b>Reconciliation prior to Conversion to S/4HANA: Display Issues</b>											
Run ...	CoCode	DocumentNo	Year	Itm	DocumentNo	Ld	LnItm	G/L Acc	Message Class	Msg.No.	Msg.typ
50016		4900007719	2020	1				134000	FIN_FB_RECON	76	E
50016		4900007719	2020	2				520010	FIN_FB_RECON	76	E
50016		4900007720	2020	1				134000	FIN_FB_RECON	76	E
50016		4900007720	2020	2				520010	FIN_FB_RECON	76	E
50016		4900007720	2020	3				134000	FIN_FB_RECON	76	E

**Figure 5-3.** Display reconciliation issues

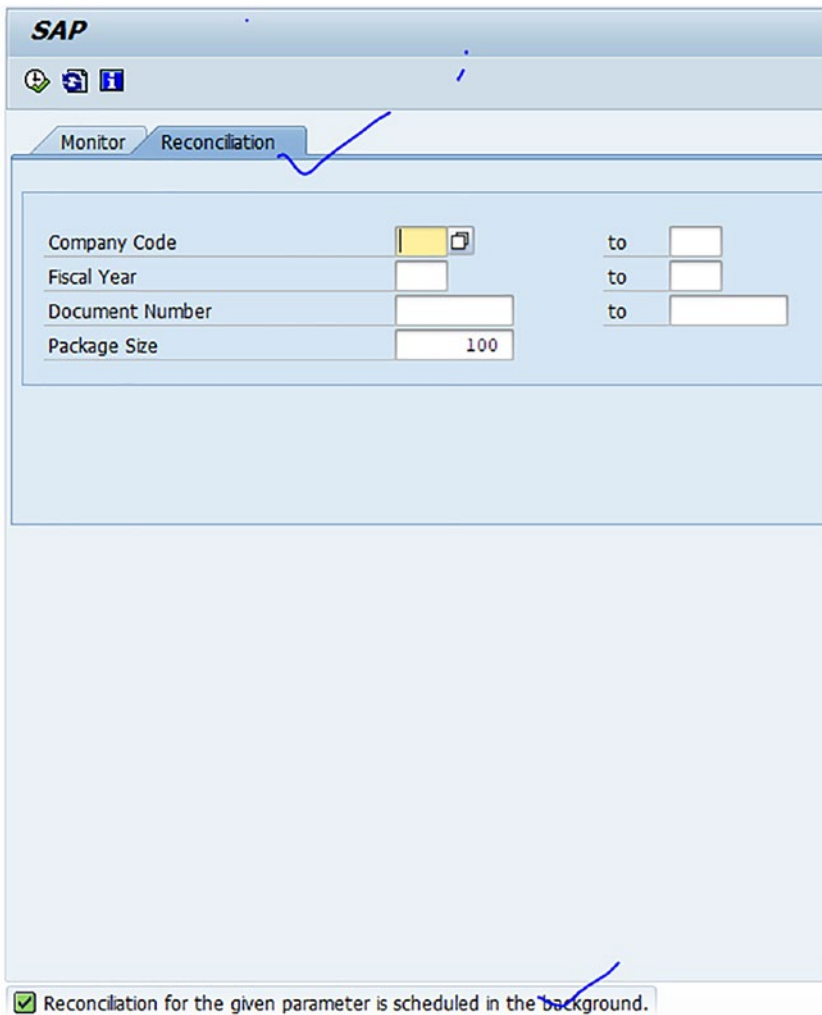
Refer to SAP Note 2714344 for more information about the identified error types. See Table 5-1.

**Table 5-1.** Example of Financial Data Inconsistencies from Readiness Check Notes

Message Nr	Message Class	Number	Description	Category	Category Description
076	FIN_FB_RECON	121	Inconsistent amount in second local currency for this line item (Ldg and 1)	B	Manual correction, correction instructions available - SAP Note 2714344
517	FIN_FB_RECON	293	Fields mismatch between BSEG and NewGL line item table and 2 and 3	B	Manual correction, correction instructions available - SAP Note 2714344
220	FIN_FB_RECON	66	Fields in BSIS and BSEG do not match	A	Standard automated correction available - SAP Note 2956096
372	FIN_FB_RECON	15	Entry in BSIS with missing archiving flag (field xarch)	A	Standard automated correction available - SAP Note 2956096
074	FIN_FB_RECON	111	Inconsistent amount for updating in G/L for this line item (Ldg and 1)	B	Manual correction, correction instructions available - SAP Note 2714344

It is essential to identify and rectify these database inconsistencies before you execute SUM tools during the conversion process. Choose Monitor to analyze database inconsistencies that were found in the last reconciliation run and to correct possible errors.

Before using FIN\_CORR\_MONITOR, you must make sure that a reconciliation run was performed. For this purpose, you can use the Reconciliation tab or the FIN\_CORR\_RECONCILE program to find any inconsistencies or errors (see Figure 5-4).



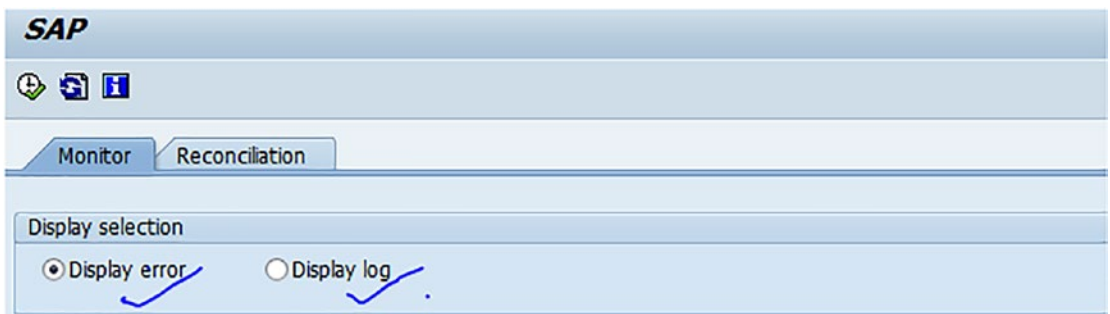
**Figure 5-4.** Reconciliation run

Then you use the SE38 FIN\_CORR\_MONITOR program to analyze and correct the errors (see Figure 5-5).



**Figure 5-5.** Reconciliation Monitor

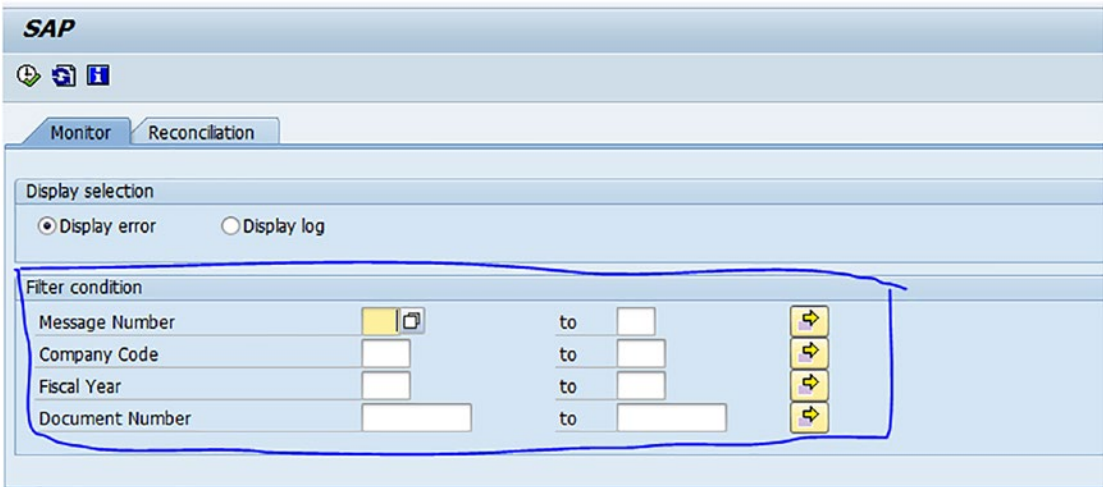
When you run this program, you can choose Display Error/Display Log (see Figure 5-6).



**Figure 5-6.** Reconciliation Monitor selection criteria

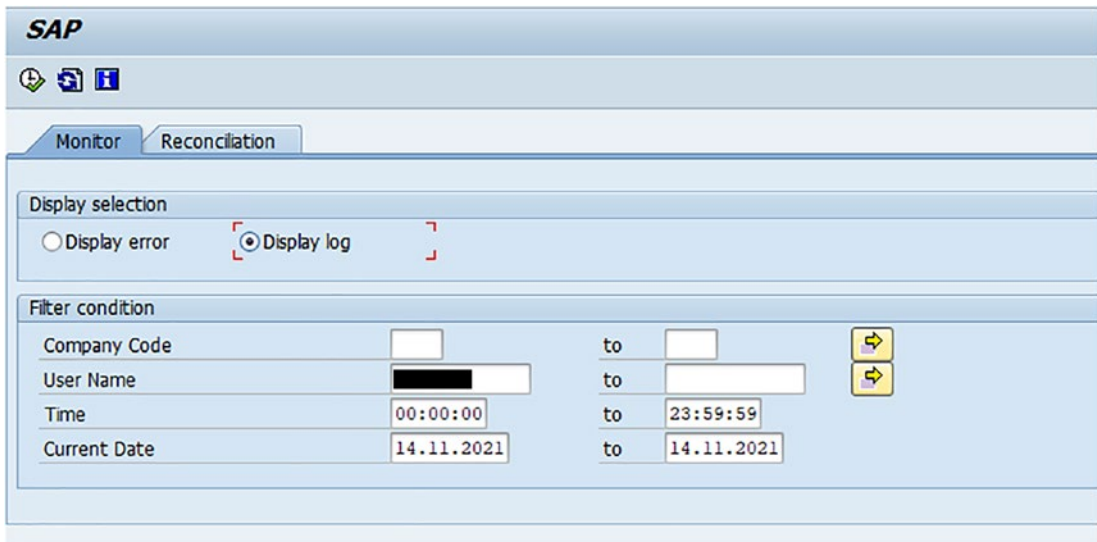
You can display the issues using the following criteria (see Figure 5-7):

- Message Number
- Company Code
- Fiscal Year
- Document Number



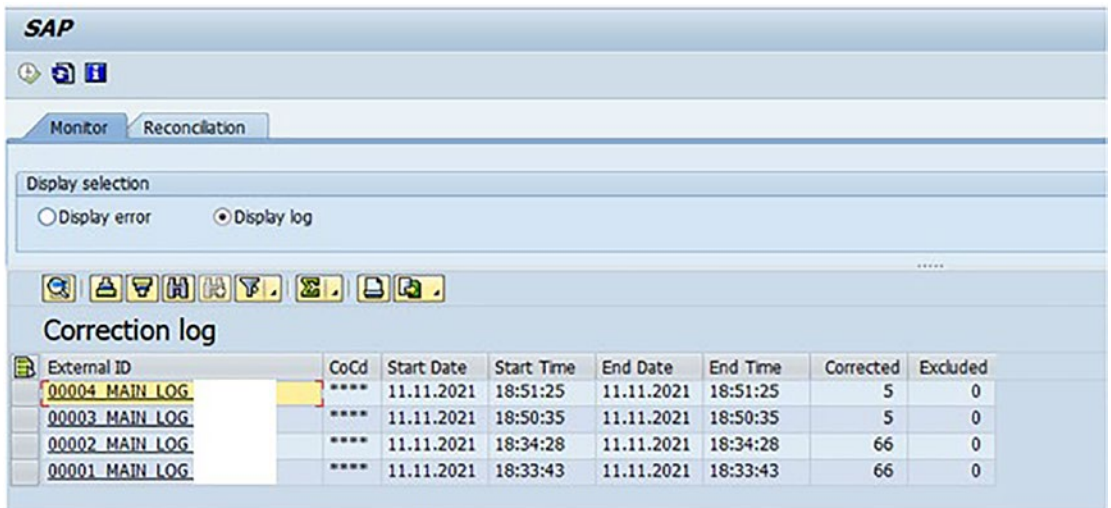
**Figure 5-7.** Reconciliation Monitor input screen

The Display Log option shows the correction logs for all corrections that were executed using this transaction (see Figures 5-8 and 5-9).



**Figure 5-8.** Display Log option





**Figure 5-9.** Reconciliation Monitor: Display log

You can choose analysis and correction options by selecting Display All Errors and Correction Mode. In the correction mode, the correct option can be seen. The following sections discuss eight example errors.

## Example 1: Error Message FIN\_FB\_RECON220: Fields in BSIS and BSEG Do Not Match

There are 66 items in a document (50001009997) with this error message. Figure 5-10 shows the screen from FIN\_CORR\_DISPLAY\_ISSUE.

**Reconciliation prior to Conversion to S/4HANA: Display Issues**

Run ID	DocumentNo	Year	Itm	Document...	Ld	LnItm	Message Class	Msg...	Msg.typ	Fi..	Old Val..	Fi..	Old Val..	Fi..
50004	5000004997	2020	1				FIN_FB_RECON	220	E					
50004	5000004997	2020	2				FIN_FB_RECON	220	E					
50004	5000004997	2020	3				FIN_FB_RECON	220	E					
50004	5000004997	2020	4				FIN_FB_RECON	220	E					
50004	5000004997	2020	5				FIN_FB_RECON	220	E					
50004	5000004997	2020	6				FIN_FB_RECON	220	E					
50004	5000004997	2020	7				FIN_FB_RECON	220	E					
50004	5000004997	2020	8				FIN_FB_RECON	220	E					
50004	5000004997	2020	9				FIN_FB_RECON	220	E					
50004	5000004997	2020	10				FIN_FB_RECON	220	E					
50004	5000004997	2020	11				FIN_FB_RECON	220	E					

Figure 5-10. FIN\_CORR\_DISPLAY\_ISSUE screen

Figure 5-11 shows the screen from FIN\_CORR\_MONITOR.

**SAP**

Display All Errors Correction Mode

Monitor Reconciliation

Display selection

Display error  Display log

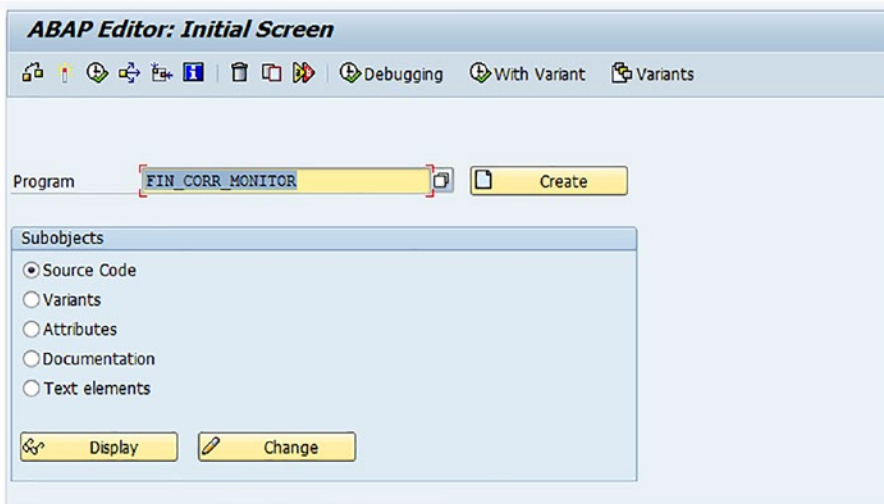
List of errors from last run

Message No	Description	Total no. of ...
220	Fields in BSIS and BSEG do not match	66

Figure 5-11. FIN\_CORR\_MONITOR screen

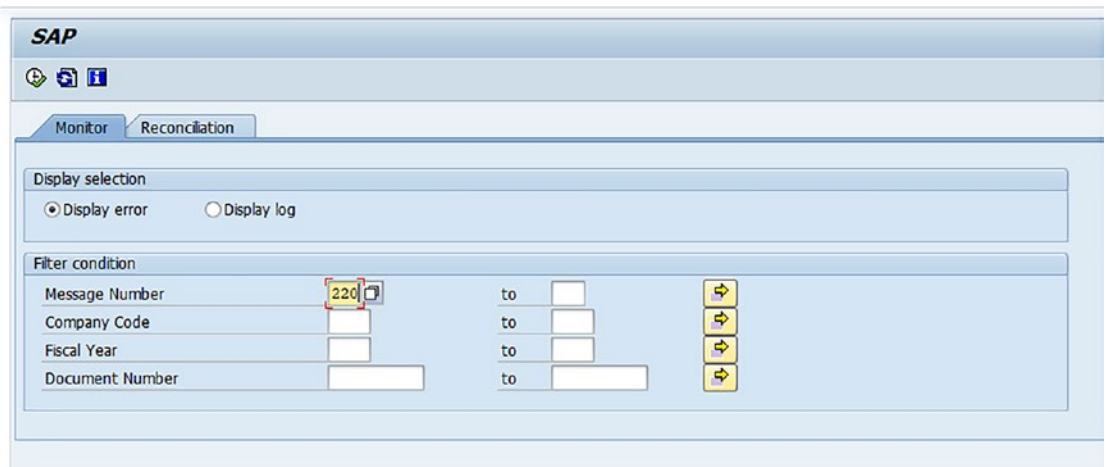
In order to rectify this issue, follow these steps.

**Step 1:** Execute the FIN\_CORR\_MONITOR program (see Figure 5-12).



**Figure 5-12.** Display program screen

**Step 2:** Enter an error message that you are intending to correct and execute (see Figure 5-13).



**Figure 5-13.** Reconciliation Monitor: Display error input screen

The system shows how many documents or line items contain that error message (see Figure 5-14).

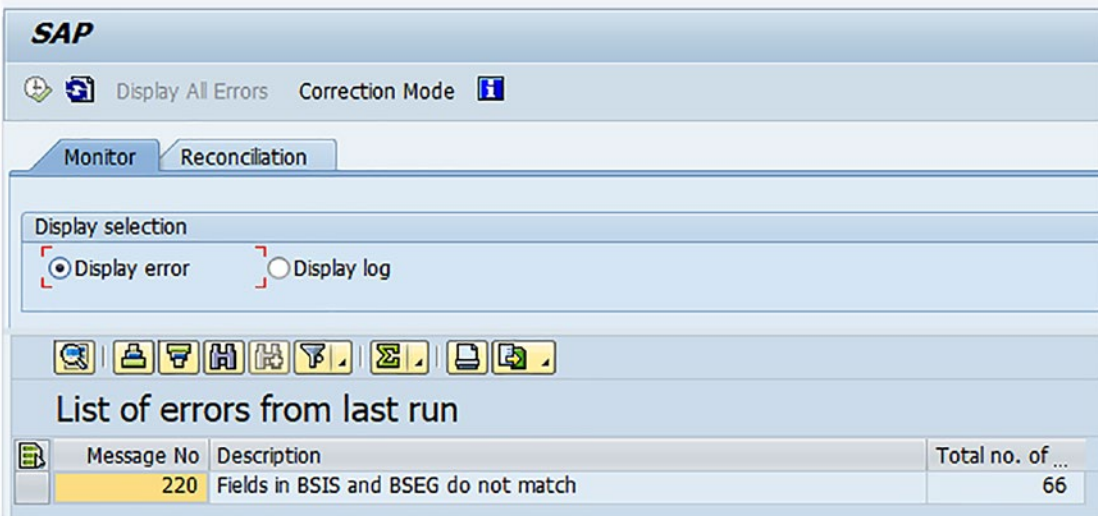


Figure 5-14. Reconciliation Monitor: Errors displayed

You can navigate up to the document level by double-clicking the item (see Figure 5-15).

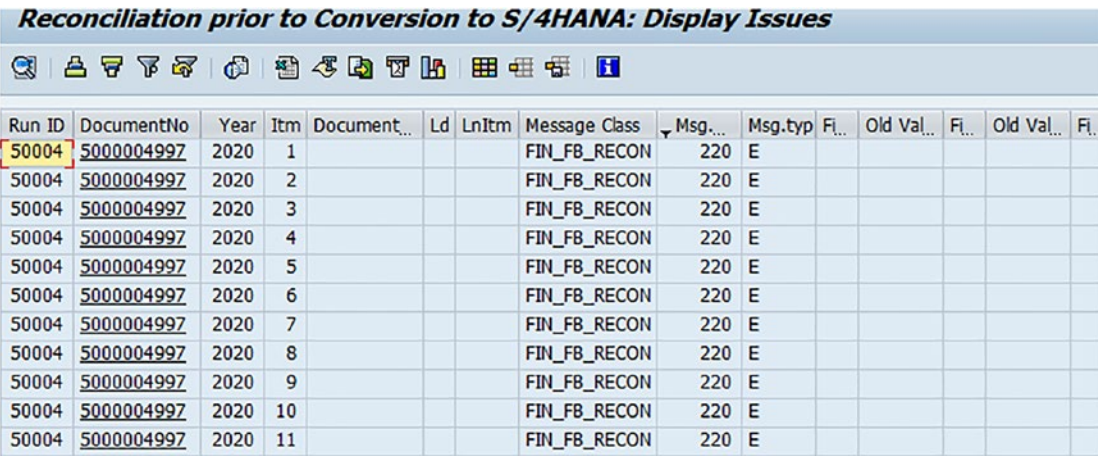
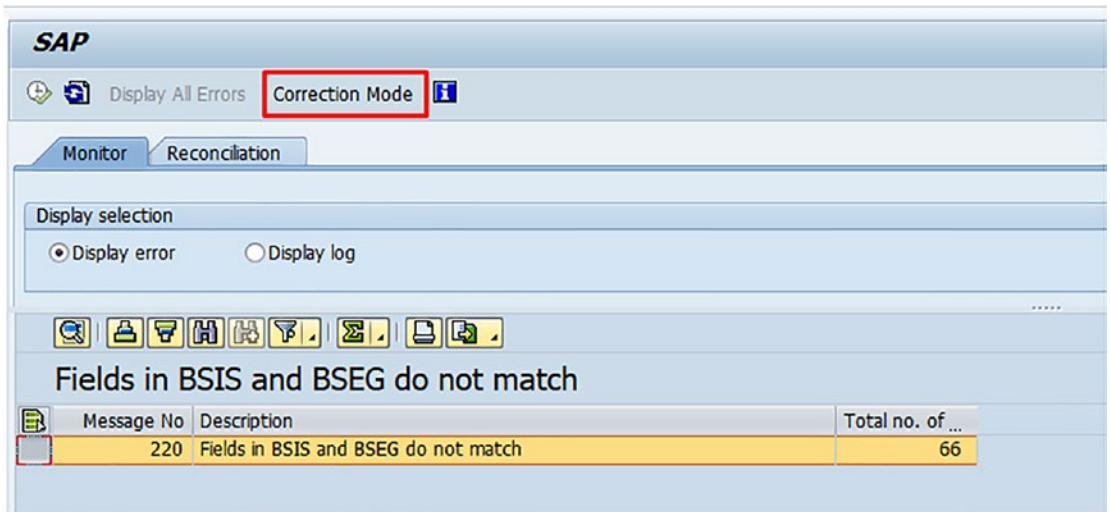


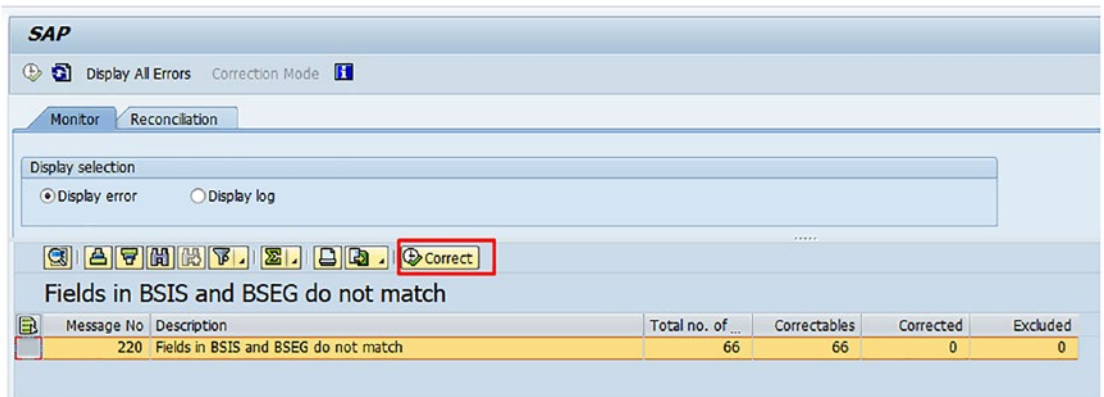
Figure 5-15. Drill down on the errors displayed

**Step 3:** In the initial screen, select the item and then click the Correction Mode button (see Figure 5-16).



**Figure 5-16.** Correction mode

You will then see the screen in Figure 5-17, where you need to click the Correct button.



**Figure 5-17.** Correct the entries

**Step 4:** Now the system will ask for confirmation as to whether BSEG/BSEG\_ADD is considered the correct value (see Figure 5-18).

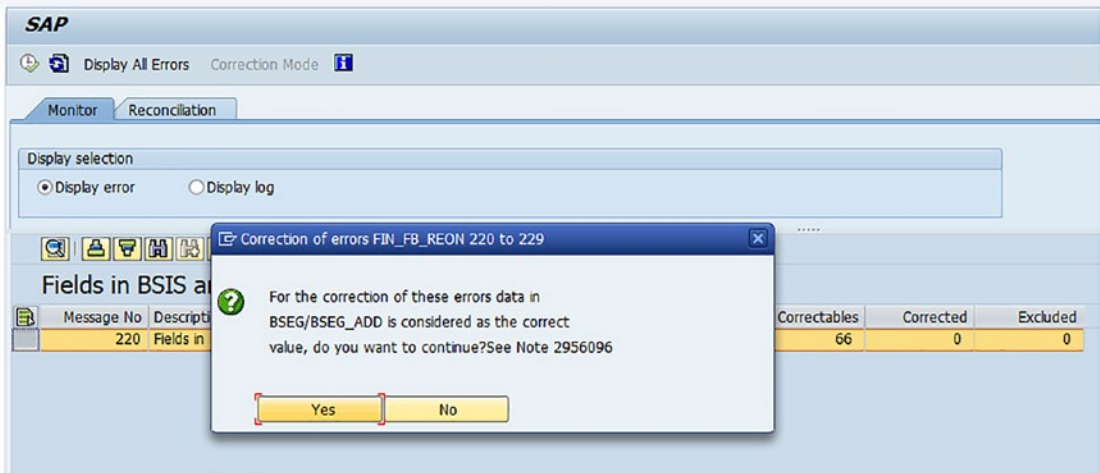


Figure 5-18. Confirmation message

If you click Yes, the system will correct the errors that are displayed. The system will ask to execute in simulation and update modes.

**Step 5:** Display the log. The system will display the logs for all the corrections made (see Figure 5-19).

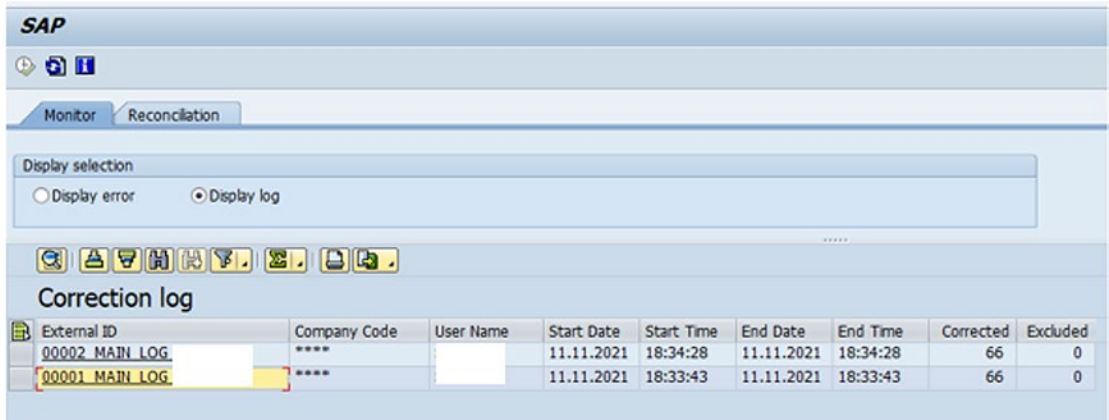
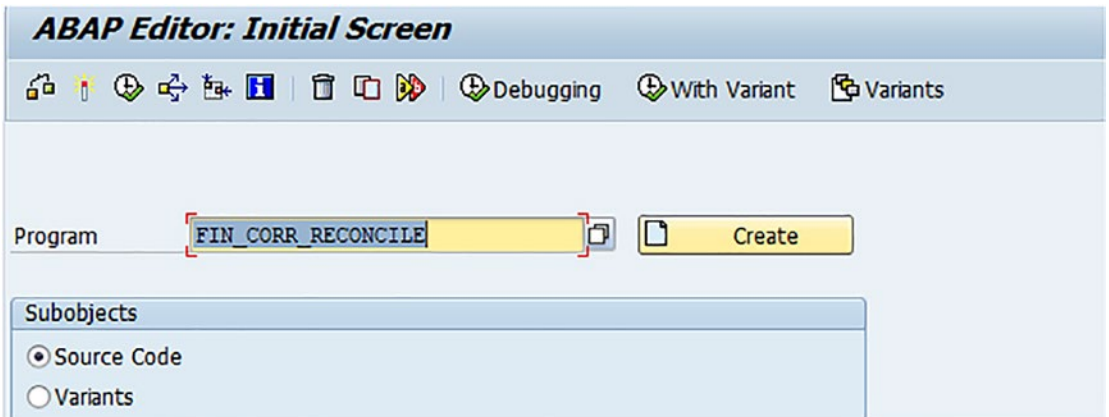


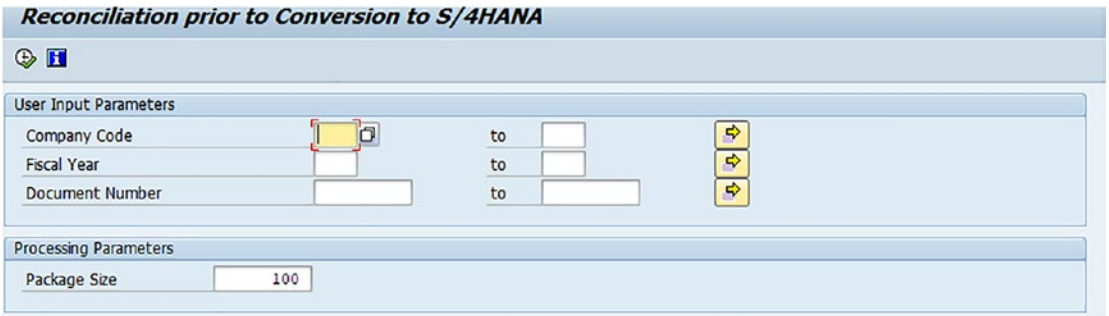
Figure 5-19. Display log

In Figure 5-19, there are two logs—one for simulation and one for update mode (see Figure 5-20 to 5-23).

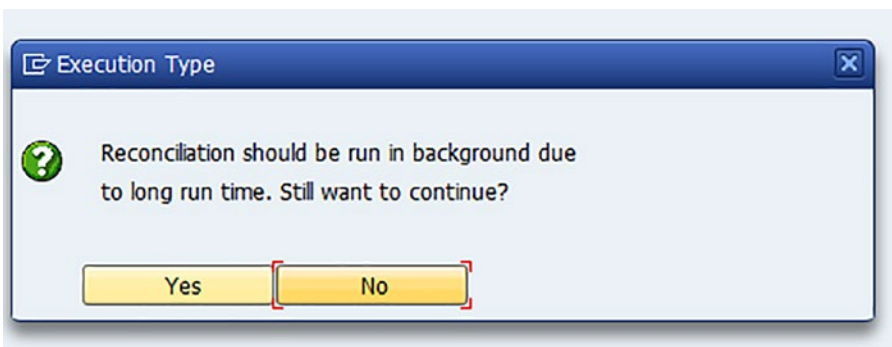




**Figure 5-20.** Reconcillation



**Figure 5-21.** Reconcillation



**Figure 5-22.** Warning about reconcillation process

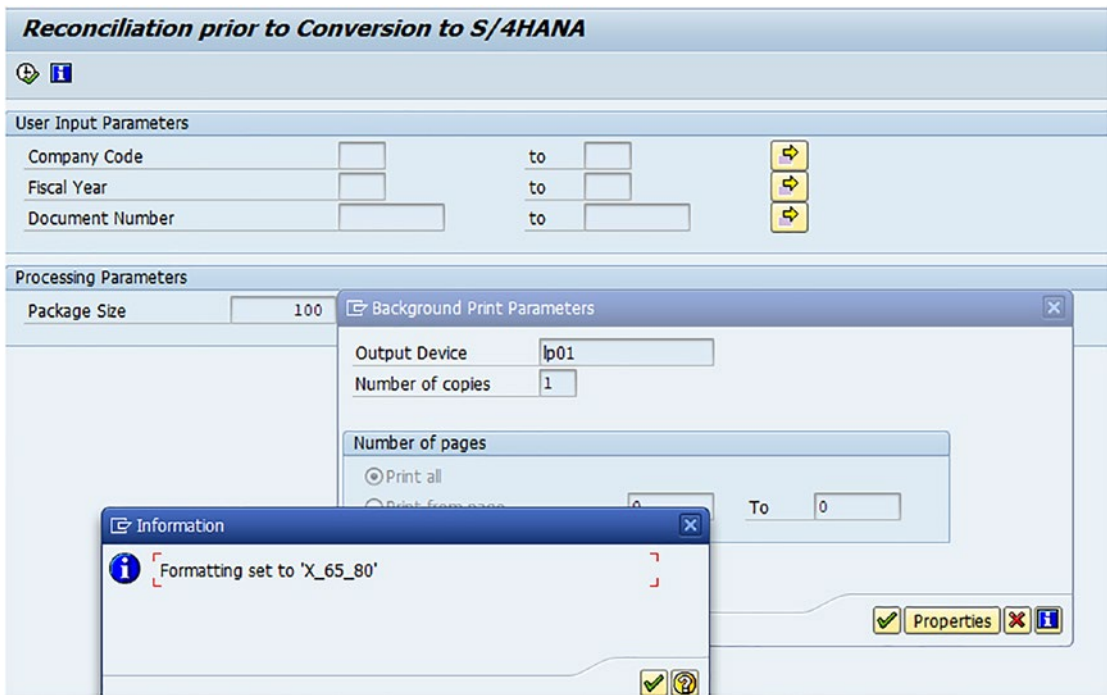


Figure 5-23. Reconciliation prior to S/4HANA

## Example 2: Error Message FIN\_FB\_RECON372: Entry in BSIS with Missing Archiving Flag (Field xarch)

There are five items in a document (910000001) with this error message.

Figures 5-24 and 5-25 show the screen from FIN\_CORR\_DISPLAY\_ISSUE.



**Reconciliation prior to Conversion to S/4HANA: Display Issues**

Run	CoCode	DocumentNo	Year	Itm	DocumentNo	Ld	LnItm	G/L Acc	Message Class	Msg.No.	Msg.typ	Message text
50006	████	9100000001	2011	1				610601	FIN_FB_RECON	372	E	Entry in BSIS with missing archiving flag (field xarch)
50006	████	9100000001	2011	2				217203	FIN_FB_RECON	372	E	Entry in BSIS with missing archiving flag (field xarch)
50006	████	9100000001	2011	6				217205	FIN_FB_RECON	372	E	Entry in BSIS with missing archiving flag (field xarch)
50006	████	9100000001	2011	7				630041	FIN_FB_RECON	372	E	Entry in BSIS with missing archiving flag (field xarch)
50006	████	9100000001	2011	8				630044	FIN_FB_RECON	372	E	Entry in BSIS with missing archiving flag (field xarch)

**BSIS: Display of Entries Found**

Table to be searched: BSIS Accounting: Secondary Index for G/L Accounts  
 Number of hits: 5  
 Runtime: 0 Maximum no. of hits: 500

CoCode	G/L Acc	Clearing	Chng doc.	Assign.	Year	DocumentNo	Itm	Posting Date	Doc. Date	Crcy	Reference	Type	Period	PK	D/C	BusA	Tx	FBI	Amount LC	Amount	LC tax	Tax	Tex
████	217203				2011	9100000001	2	16.02.2011	16.02.2011	USD	RE NO. 2	SA	2	50	H				37.500,00	37.500,00	0,00	0,00	
████	217205				2011	9100000001	6	16.02.2011	16.02.2011	USD	RE NO. 2	SA	2	50	H				135.860,00	135.860,00	0,00	0,00	
████	610601				2011	9100000001	1	16.02.2011	16.02.2011	USD	RE NO. 2	SA	2	40	S	9000			37.500,00	37.500,00	0,00	0,00	
████	630041				2011	9100000001	7	16.02.2011	16.02.2011	USD	RE NO. 2	SA	2	40	S	9000			755,00	755,00	0,00	0,00	
████	630044				2011	9100000001	8	16.02.2011	16.02.2011	USD	RE NO. 2	SA	2	40	S	9000			6.235,00	6.235,00	0,00	0,00	

Figure 5-24. FIN\_CORR\_DISPLAY\_ISSUE

**Display Document: Initial Screen**

Document List | First Item | Editing Options

Keys for Entry View

Document Number: 9100000001  
 Company Code: █████  
 Fiscal Year: 2011

Performance Assistant

**Document 9100000001 █████ does not exist in fiscal year 2011**

Message no. F5A397

**System Response**

The required document either does not exist in the fiscal year or is still being posted.

When the document is read, archived documents are also considered.

Figure 5-25. FIN\_CORR\_DISPLAY\_ISSUE

To rectify this error, execute the following steps.

**Step 1:** Execute the FIN\_CORR\_MONITOR program (see Figure 5-26).

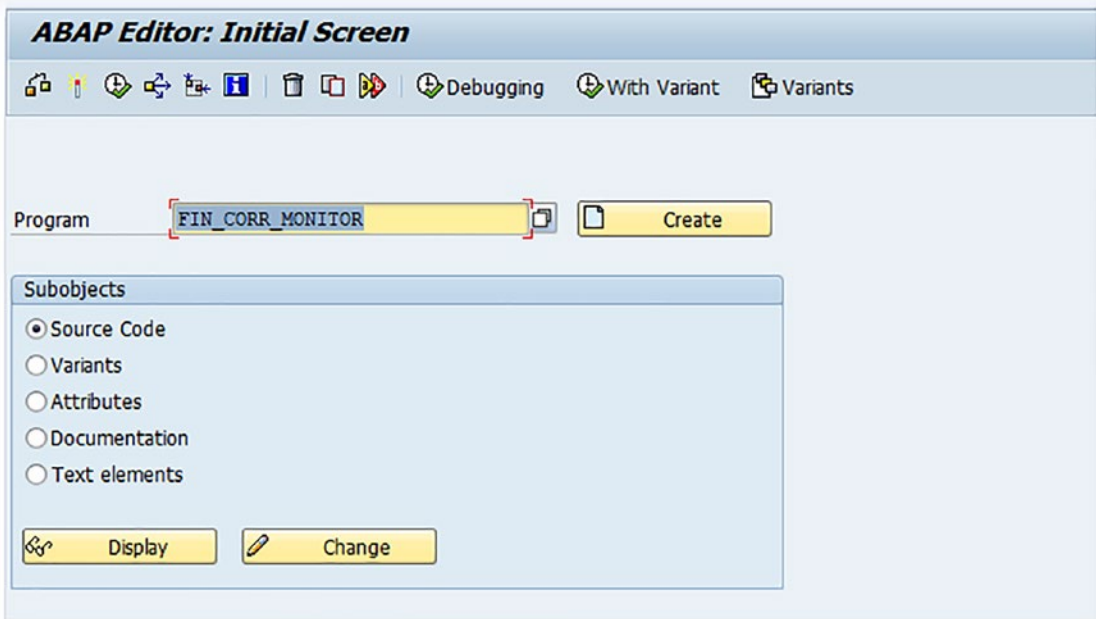


Figure 5-26. FIN\_CORR\_MONITOR

**Step 2:** Enter an error message that you are intending to correct and execute (see Figure 5-27).

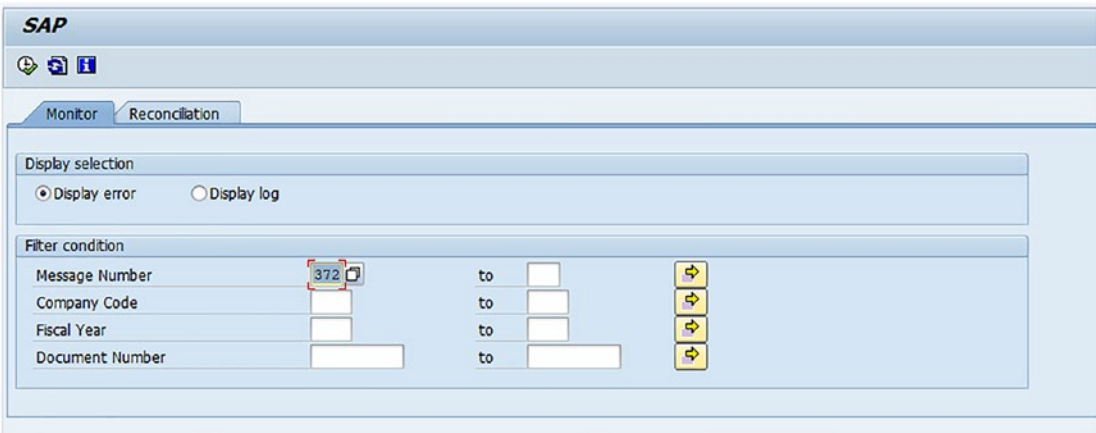
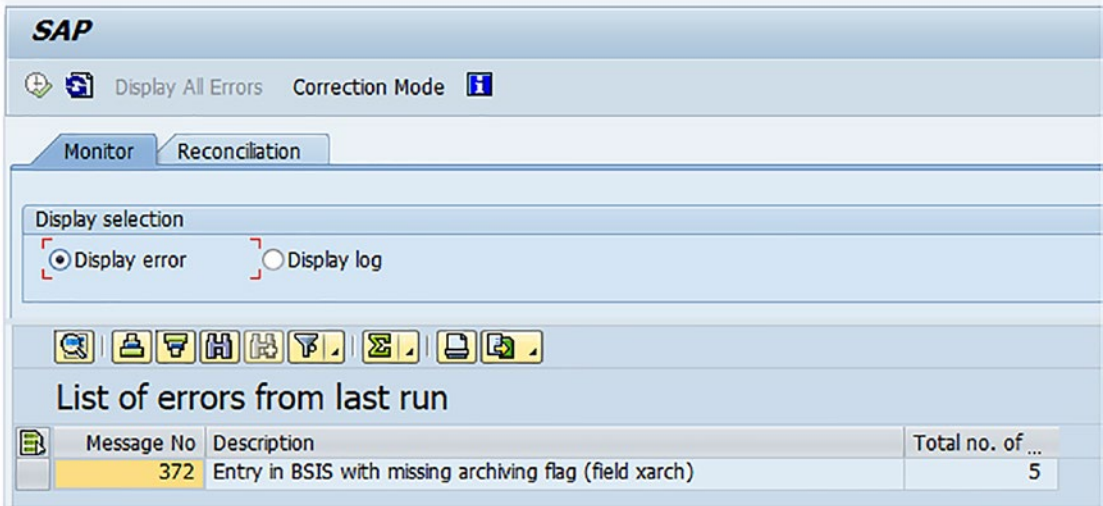


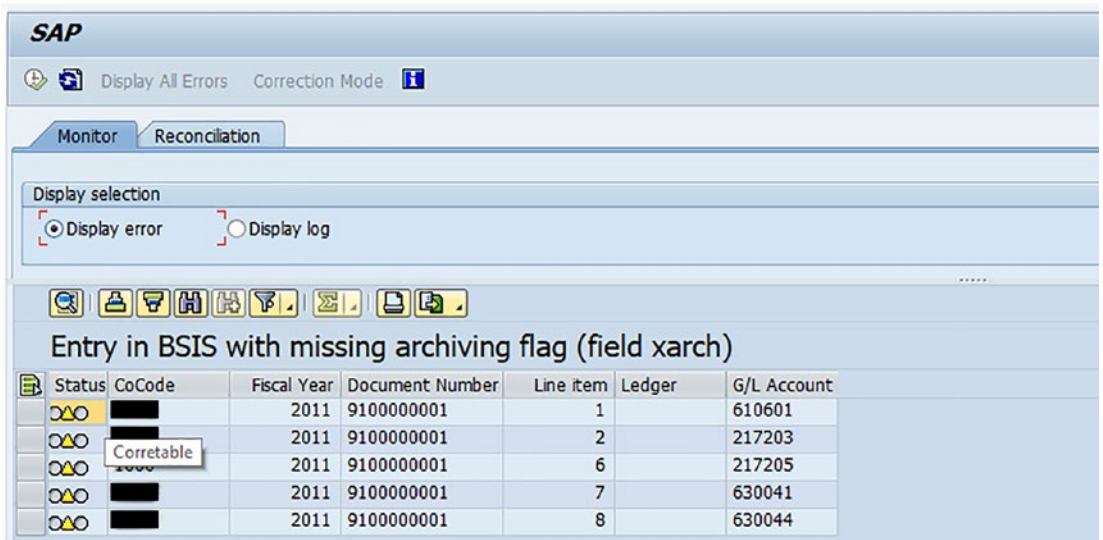
Figure 5-27. Display error: Reconciliation Monitor

The system shows how many documents or line items have that error message (see Figure 5-28).



**Figure 5-28.** Display error

You can navigate up to the document level by double-clicking the item (see Figure 5-29).



**Figure 5-29.** Drill down on the errors

**Step 3:** In the initial screen, select the item and click the Correction Mode button (see Figure 5-30).

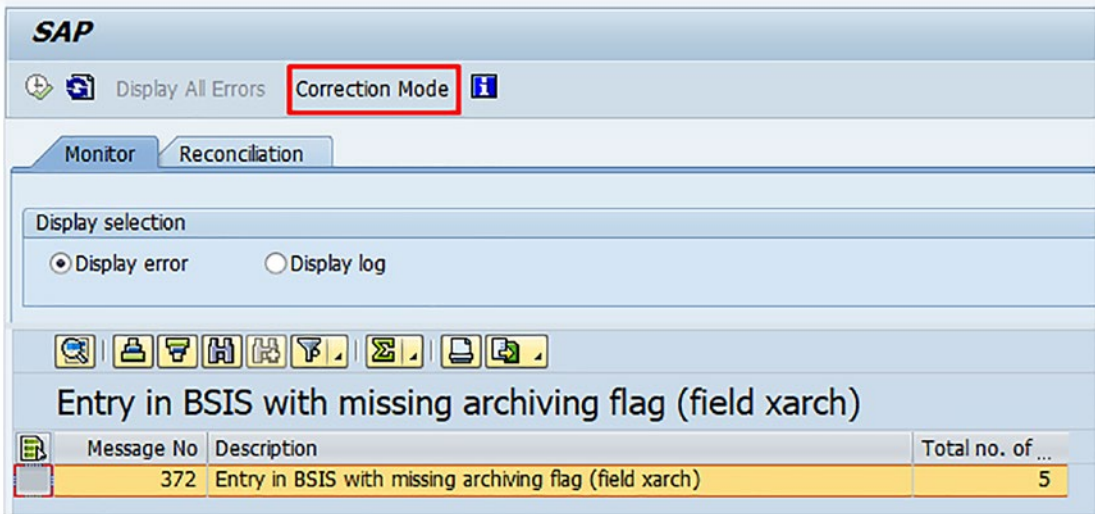


Figure 5-30. Correction mode

You will then see the screen in Figure 5-31, where you need to click the Correct button.

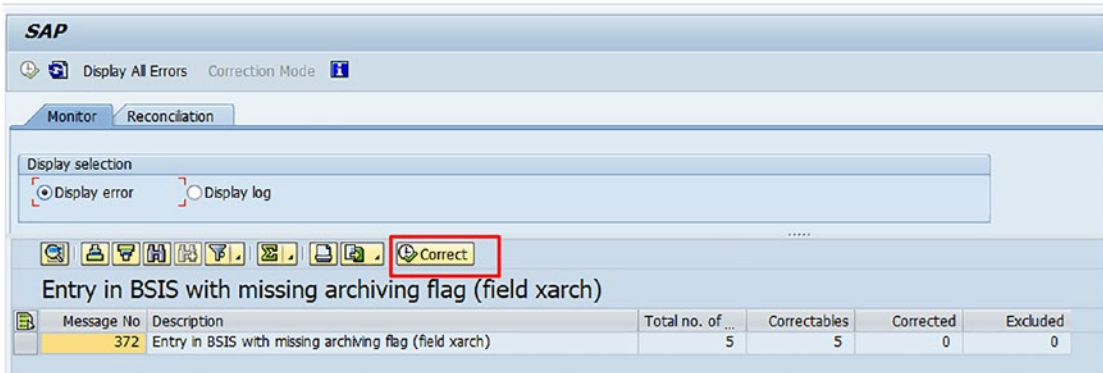
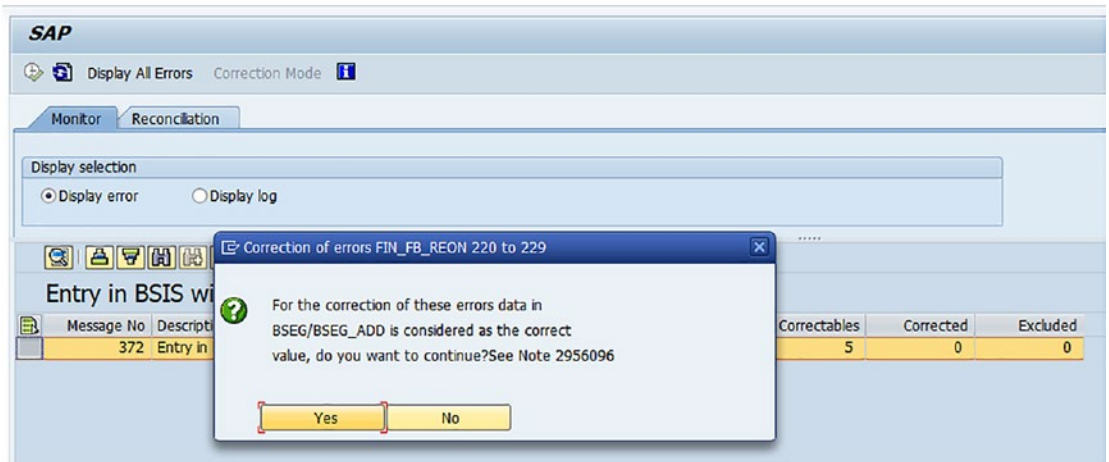


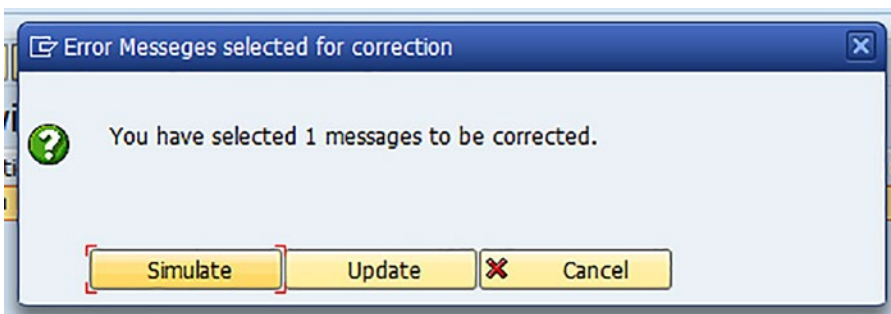
Figure 5-31. Correct the errors

**Step 4:** The system will ask for confirmation as to whether BSEG/BSEG\_ADD is considered the correct value (see Figure 5-32).



**Figure 5-32.** Confirmation message

If you click Yes, the system will correct the errors. The system will ask to execute in simulation and update modes (see Figure 5-33).



**Figure 5-33.** Simulate/update run

**Step 5:** Display the log. The system will display logs for all the corrections it made (see Figure 5-34).

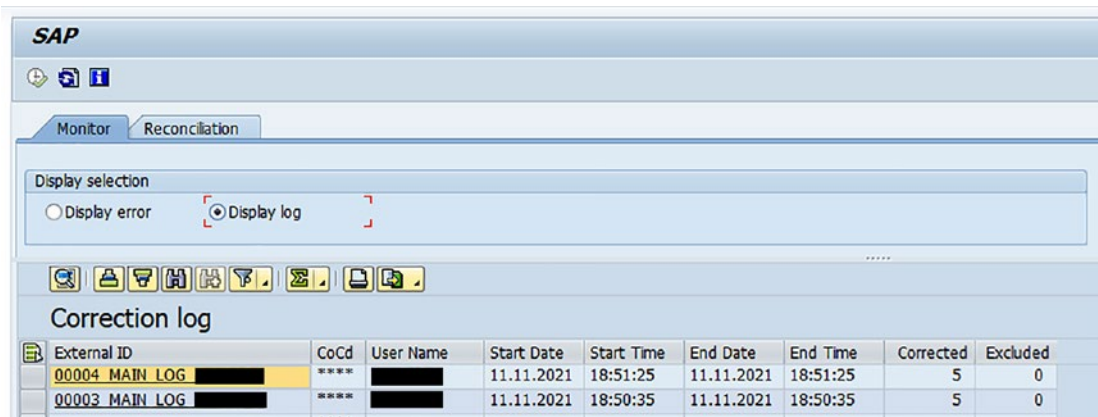


Figure 5-34. Display log

Figure 5-34 shows two logs—one for the simulation and one for update mode.

### Example 3: Error Message FIN\_FB\_RECON74: Inconsistent Amount for Updating in G/L for this Line Item (Ldg 0L)

Figures 5-35 to 5-37 show the screens from FIN\_CORR\_DISPLAY\_ISSUE.

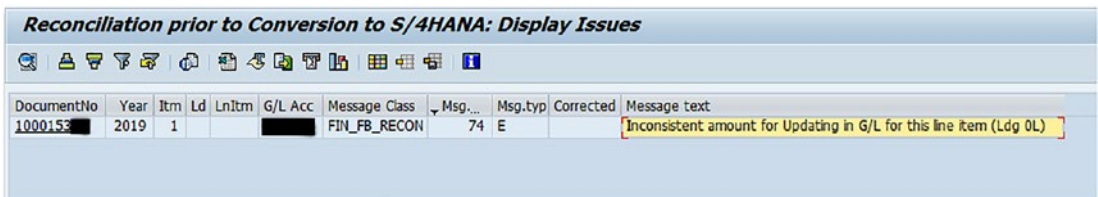


Figure 5-35. FIN\_CORR\_DISPLAY\_ISSUE



**Display Document: Data Entry View**

Display Currency    General Ledger View

Data Entry View

Document Number    Company Code    Fiscal Year    2019  
 Document Date    Posting Date    30.11.2019    Period    11  
 Reference    Cross-CC no.  
 Currency    Texts exist    Ledger Group

Item	PK	S	G/L Account	Order	Amount	Curr.	Σ	Amount in LC	LCurr	LC2 amount	LCur2	Tx	Tex
1	27		11000		466.798,31	RMB		466.798,31	RMB	66.192,00	USD		
2	37		11000		466.798,31-	RMB		466.798,31-	RMB	66.192,00-	USD		
3	50		00400		0,00	RMB		0,00	RMB	187,25-	USD		
4	40		00400		0,00	RMB		0,00	RMB	0,06	USD		
5	40		00400		0,00	RMB		0,00	RMB	187,19	USD		
										<b>0,00</b>	<b>RMB</b>		

Figure 5-36. FIN\_CORR\_DISPLAY\_ISSUE

**FAGLFLEXA: Display of Entries Found**

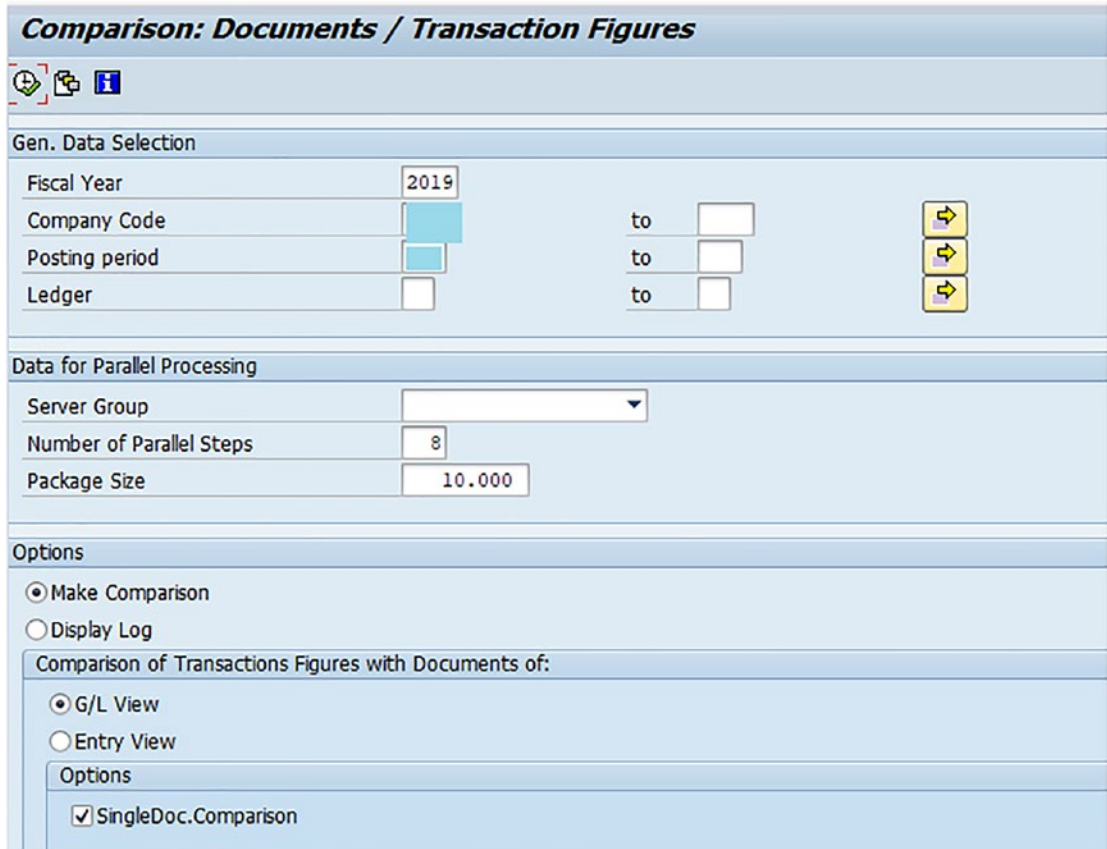
Table to be searched    FAGLFLEXA    General Ledger: Actual Line Items  
 Number of hits    24  
 Runtime    0    Maximum no. of hits    500

Year	Ld	LnItm	Σ TC Amou...	Σ LC Amount	Σ Amnt in ...	OthCrcyAmt	Quantity	OTC Amount	D/C
2019	0L	000001	0,00	1.320,08-	187,19-	0,00	0,000	1.320,08-	H
2019	0L	000002	66.191,94	468.118,39	66.379,19	0,00	0,000	468.118,39	S
2019	0L	000003	66.192,00-	466.798,31-	66.192,00-	0,00	0,000	466.798,31-	H
2019	0L	000004	0,00	0,00	187,25-	0,00	0,000	0,00	H
2019	0L	000005	0,00	0,00	0,06	0,00	0,000	0,00	S
2019	0L	000006	0,00	0,00	187,19	0,00	0,000	0,00	S
			<b>0,06-</b>	<b>0,00</b>	<b>0,00</b>				

Figure 5-37. Error analysis

Verify SAP Note 2714344.

Execute the TFC\_COMPARE\_VZ program to compare BSEG and FAGLFLEXA. Figures 5-38 and 5-39 show the screens of the report output.



**Figure 5-38.** Comparison of Document Transaction Figures screen



**Comparison of Document Transaction Figures**

G/L Accts/Subledger Accts

**Differences per Ledger**

Ld	Year	Peri...	Account	D/C	TC Amou...	Cr...	LC Amount	Crcy 1	Amnt in ...	Crcy 2	OthCrcyAmt	C	Messages
TX	2019	7											No differences occurred
TX	2019	8											No differences occurred
TX	2019	9											No differences occurred
TX	2019	10											No differences occurred
TX	2019	11											No differences occurred
TX	2019	12											No differences occurred
TX	2019	13											No differences occurred
TX	2019	14											No differences occurred
TX	2019	15											No differences occurred
TX	2019	16											No differences occurred

Success/Error Messages

**Messages**

Current Da...	Time	Document...	Fiscal Year	Description
14.11.2021	14:42:41	100015382	2019	Ledger 0L Difference Between G/L View and Entry View
14.11.2021	14:42:41	100015382	2019	Ledger IF Difference Between G/L View and Entry View
14.11.2021	14:42:41	100015382	2019	Ledger LL Difference Between G/L View and Entry View
14.11.2021	14:42:41	100015382	2019	Ledger TX Difference Between G/L View and Entry View

**Figure 5-39.** Comparison of Document Transaction Figures screen

Solution:

1. The inconsistencies can also be found/analyzed in the source system by using the TFC\_COMPARE\_VZ program.
2. If there is an inconsistency in the source (e.g., shown in phase R21 by error FINS\_RECON074), check SAP Note 2425426, which explains an option to find/localize certain inconsistencies (found in a SAP S/4HANA test-system conversion) automatically in the source ERP system.
3. Make sure SAP Note 2640057 and SAP Note 73141 are implemented before re-running phase MUJ.
4. Otherwise, contact SAP (component FIN-MIG-GL).

## Example 4: Error Message FIN\_FB\_RECON76: Inconsistent Amount in the Second Local Currency For This Line Item (Ldg 0L)

Figures 5-40 and 5-41 show the screen from FIN\_CORR\_DISPLAY\_ISSUE.

Run	CoCode	DocumentNo	Year	Item	DocumentNo	Ld	LnItem	G/L Acc	Message Class	Msg.No.	Msg.Type	Message text
50030	4900007728	2020	1					136000	FIN_FB_RECON	76	E	Inconsistent amount in 2nd local currency for this line item (Ldg 0L)
50030	4900007728	2020	2					520010	FIN_FB_RECON	76	E	Inconsistent amount in 2nd local currency for this line item (Ldg 0L)
50030	4900007728	2020	3					136000	FIN_FB_RECON	76	E	Inconsistent amount in 2nd local currency for this line item (Ldg 0L)
50030	4900007728	2020	4					520010	FIN_FB_RECON	76	E	Inconsistent amount in 2nd local currency for this line item (Ldg 0L)
50030	4900007728	2020	5					136000	FIN_FB_RECON	76	E	Inconsistent amount in 2nd local currency for this line item (Ldg 0L)
50030	4900007728	2020	6					520010	FIN_FB_RECON	76	E	Inconsistent amount in 2nd local currency for this line item (Ldg 0L)
50030	4900007728	2020	7					136000	FIN_FB_RECON	76	E	Inconsistent amount in 2nd local currency for this line item (Ldg 0L)
50030	4900007728	2020	8					520010	FIN_FB_RECON	76	E	Inconsistent amount in 2nd local currency for this line item (Ldg 0L)
50030	4900007728	2020	1					136000	FIN_FB_RECON	76	E	Inconsistent amount in 2nd local currency for this line item (Ldg 0L)
50030	4900007728	2020	2					520010	FIN_FB_RECON	76	E	Inconsistent amount in 2nd local currency for this line item (Ldg 0L)
50030	4900007728	2020	3					136000	FIN_FB_RECON	76	E	Inconsistent amount in 2nd local currency for this line item (Ldg 0L)
50030	4900007728	2020	4					520010	FIN_FB_RECON	76	E	Inconsistent amount in 2nd local currency for this line item (Ldg 0L)

Figure 5-40. FIN\_CORR\_DISPLAY\_ISSUE

**BSEG: Display of Entries Found**

Table to be searched: BSEG Accounting Document Segment  
 Number of hits: 241  
 Runtime: 0 Maximum no. of hits: 500

CoCode	DocumentNo	Year	Item	LID	FK	AccTy	D/C	Amount LC	Amount	Org.rctn	G/L amount	Curr.	Amount	Amount	TxCd	Amount	Amount	Original tax base amount
4900007728	2020	1	M	89	M	S		579,18	579,18	0,00	579,18	EUR	0,00	0,00		0,00	0,00	0,00
4900007728	2020	2	S	91	S	H		579,18	579,18	0,00	579,18	EUR	0,00	0,00		0,00	0,00	0,00
4900007728	2020	3	M	89	M	S		579,18	579,18	0,00	579,18	EUR	0,00	0,00		0,00	0,00	0,00
4900007728	2020	4	S	91	S	H		579,18	579,18	0,00	579,18	EUR	0,00	0,00		0,00	0,00	0,00
4900007728	2020	5	M	89	M	S		57,92	57,92	0,00	57,92	EUR	0,00	0,00		0,00	0,00	0,00
4900007728	2020	6	S	91	S	H		57,92	57,92	0,00	57,92	EUR	0,00	0,00		0,00	0,00	0,00
4900007728	2020	7	M	89	M	S		579,18	579,18	0,00	579,18	EUR	0,00	0,00		0,00	0,00	0,00

Figure 5-41. FIN\_CORR\_DISPLAY\_ISSUE

Local currency2 is not updated in the table.

Verify SAP Note 3019446 FIN\_CORR\_RECONCILE: FIN\_FB\_RECON 76, 77 does not consider the currency customizing correctly.

## Example 5: Error Message FIN\_FB\_RECON517: Fields Mismatch Between BSEG and NewGL Line Item Table

Figures 5-42 to 5-44 show the screens from FIN\_CORR\_DISPLAY\_ISSUE.

**Reconciliation prior to Conversion to S/4HANA: Display Issues**

Run	CoCode	DocumentNo	Year	Item	DocumentNo	Ld	LnItem	G/L Acc	Message Class	Msg.No.	Msg.Type	Message text
50030	490000	490000	2020	1	490000	OL	000001	1245000	FIN_FB_RECON	517	E	Fields mismatch between BSEG and NewGL, line item table 20200909/0000134000 20200903/0000134000
50030	490000	490000	2020	1	490000	IF	000001	1245000	FIN_FB_RECON	517	E	Fields mismatch between BSEG and NewGL, line item table 20200909/0000134000 20200903/0000134000
50030	490000	490000	2020	1	490000	LL	000001	1245000	FIN_FB_RECON	517	E	Fields mismatch between BSEG and NewGL, line item table 20200909/0000134000 20200903/0000134000
50030	490000	490000	2020	2	490000	OL	000002	520010	FIN_FB_RECON	517	E	Fields mismatch between BSEG and NewGL, line item table 20200909/0000520010 20200903/0000520010
50030	490000	490000	2020	2	490000	IF	000002	520010	FIN_FB_RECON	517	E	Fields mismatch between BSEG and NewGL, line item table 20200909/0000520010 20200903/0000520010
50030	490000	490000	2020	1				1245000	FIN_FB_RECON	76	E	Inconsistent amount in 2nd local currency for the line item (Log GL)
50030	500000	500000	2020	1	500000	IF	000001	1245000	FIN_FB_RECON	517	E	Fields mismatch between BSEG and NewGL, line item table 20200901/0000134000 20200922/0000134000
50030	500000	500000	2020	1	500000	LL	000001	1245000	FIN_FB_RECON	517	E	Fields mismatch between BSEG and NewGL, line item table 20200901/0000134000 20200922/0000134000
50030	500000	500000	2020	1	500000	TX	000001	1245000	FIN_FB_RECON	517	E	Fields mismatch between BSEG and NewGL, line item table 20200901/0000134000 20200922/0000134000

Figure 5-42. FIN\_CORR\_DISPLAY\_ISSUE

**FAGLFLEXA: Display of Entries Found**

Table to be searched: FAGLFLEXA    General Ledger: Actual Line Items

Number of hits: 8    Runtime: 0    Maximum no. of hits: 500

Year	DocumentNo	Ld	CoCode	LnItem	Period	Crcy	Year	Posting Date	DocumentNo	Tr.	TTY	Crcy	Unit	Ref. Tran.	R	Ver	LogSystem
2020	490000	OL		000001	9	EUR	2020	03.09.2020	490000	RMWI		EUR	KG	MKPF	0	1	
2020	490000	OL		000002	9	EUR	2020	03.09.2020	490000	RMWI		EUR	KG	MKPF	0	1	
2020	490000	IF		000001	9	EUR	2020	03.09.2020	490000	RMWI		EUR	KG	MKPF	0	1	
2020	490000	IF		000002	9	EUR	2020	03.09.2020	490000	RMWI		EUR	KG	MKPF	0	1	
2020	490000	LL		000001	9	EUR	2020	03.09.2020	490000	RMWI		EUR	KG	MKPF	0	1	
2020	490000	LL		000002	9	EUR	2020	09.09.2020	490000	RMWI		EUR	KG	MKPF	0	1	
2020	490000	TX		000001	9	EUR	2020	09.09.2020	490000	RMWI		EUR	KG	MKPF	0	1	
2020	490000	TX		000002	9	EUR	2020	09.09.2020	490000	RMWI		EUR	KG	MKPF	0	1	

Figure 5-43. FIN\_CORR\_DISPLAY\_ISSUE

**BKPF: Display of Entries Found**

Table to be searched: BKPF    Accounting Document Header

Number of hits: 1    Runtime: 0    Maximum no. of hits: 500

CoCode	DocumentNo	Year	Type	Doc. Date	Posting Date	Period	Entered on	Entered at	Changed	Last update	Translatn Date	User Name	TCode	Gr
490000		2020	WI	09.09.2020	09.09.2020	9	09.09.2020	17:57:45			09.09.2020		MI10	

Figure 5-44. Analysis of the error

Verify SAP Note 2714344.

## Example 6: Error FIN\_FB\_RECON 376: Entry on BSIK with Missing Archiving Flag (Field xarch)

Figure 5-45 shows the errors identified by the program, which can be corrected as per SAP Note 2956096.

2956096 - FIN_CORR_MONITOR: Information on correctable errors				
Version 2 from 19.01.2021 in English				
Description	Software Components	References	Attributes	Languages
FIN_FB_RECON 372, 373, 374, 375, 376, 377, 378, 379	Missing archival flag in index table entry	The field XARCH should be populated with 'X' in the secondary index tables when the documents are archived. Due to some issue the field is populated with space.	If the document is not present in the header table (BKPF), BSEG/BSEG_ADD and new GL item table (FAGLFLEXA), it is considered to be archived	The flag XARCH is updated to 'X' for the entry in the corresponding index table.

Figure 5-45. SAP Note 2956096

In order to correct these errors, you have to click Correction Mode for the FIN\_CORR\_MONITOR program (see Figures 5-46 and 5-47).

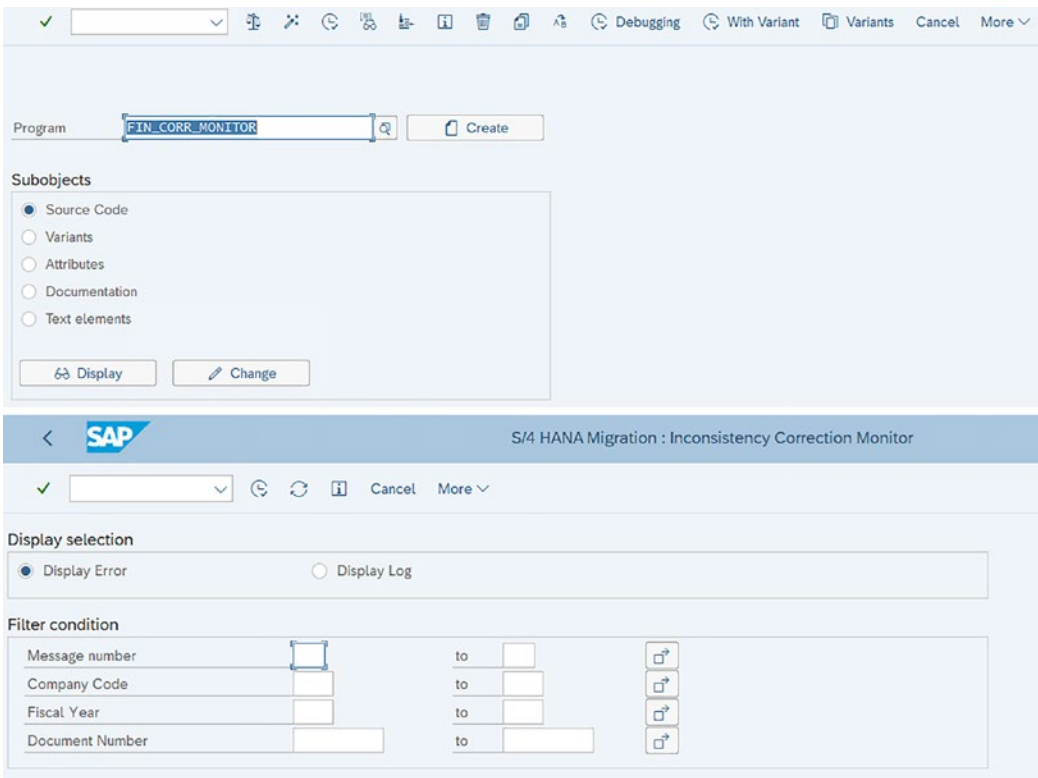
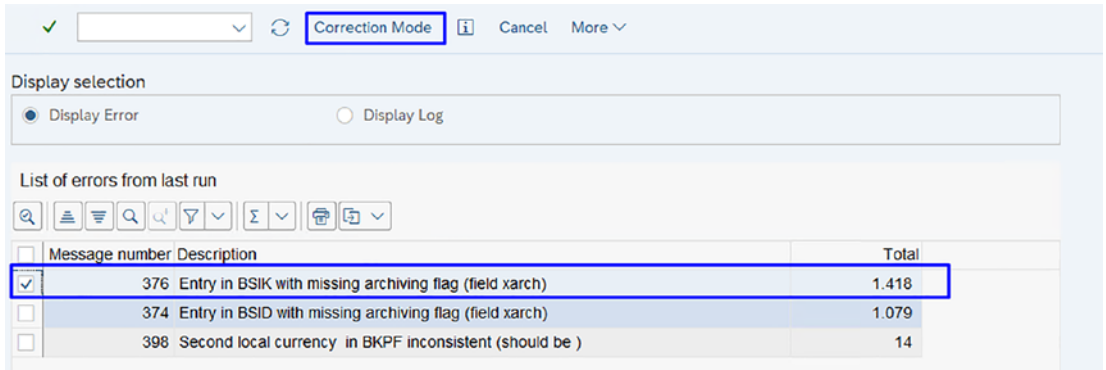


Figure 5-46. FIN\_CORR\_MONITOR program

Select the error message and click the Correction Mode button, as highlighted in Figure 5-47.

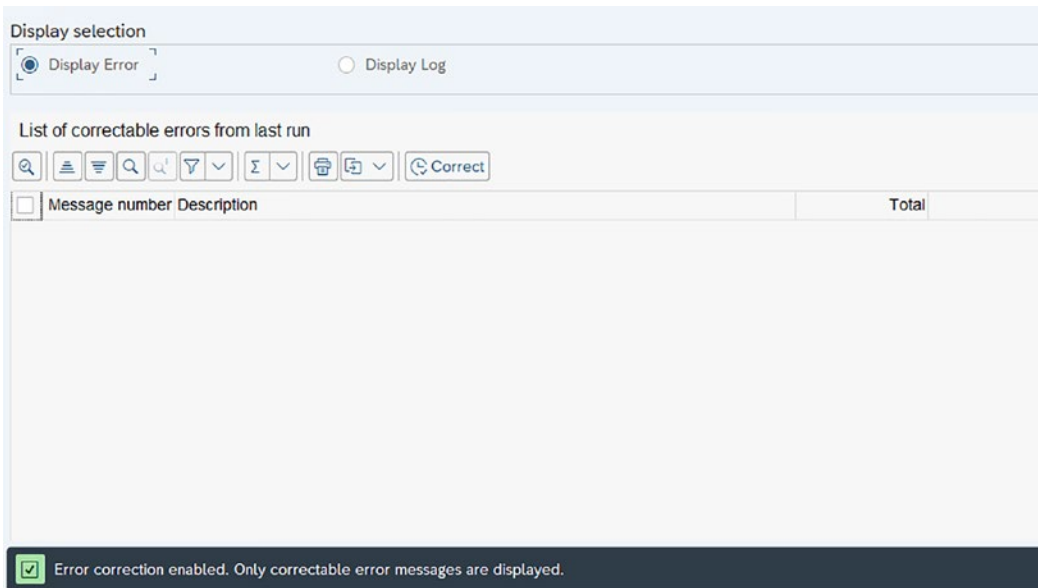


**Figure 5-47.** *The Correction Mode button*

If the message shown in Figure 5-48 is displayed, you have to make corrections to FIN\_CORR\_MONITOR as per the following notes.

- 2755360 - Reconciliation prior to S/4HANA conversion
- 2793849 - Analysis and correction of G/L inconsistencies in ECC prior to S/4HANA conversion- Application Coding
- 2836444 - Analysis and correction of G/L inconsistencies in ECC prior to S/4HANA conversion- User Interface





**Figure 5-48.** Display Error log screen

As part of these SAP Notes, you have to execute and make changes or corrections to FIN\_CORR\_MONITOR:

- Program Note 2755360 to be executed as per SAP Note 2755360
- Program Note 2793849 to be executed as per SAP Note 2793849
- Program Note 2836444\_NEW to be executed as per SAP Note 2836444

## Example 7: Error FIN\_FB\_RECON 374: Entry on BSID with Missing Archiving Flag (Field xarch)

Figure 5-49 shows the errors identified by the program, which can be corrected as per SAP Note 2956096.

2956096 - FIN_CORR_MONITOR: Information on correctable errors				
Description	Software Components	References	Attributes	Languages
FIN_FB_RECON 372, 373, 374, 375, 376, 377, 378, 379	Missing archival flag in index table entry	The field XARCH should be populated with 'X' in the secondary index tables when the documents are archived. Due to some issue the field is populated with space.	If the document is not present in the header table (BKPF), BSEG/BSEG_ADD and new GL item table (FAGLFLEXA), it is considered to be archived	The flag XARCH is updated to 'X' for the entry in the corresponding index table.

**Figure 5-49.** SAP Note 2956096

## Example 8: Error FIN\_FB\_RECON 398: Second Local Currency in BKPF Inconsistent

Figure 5-50 shows the errors identified by the program, which cannot be corrected as per SAP Note 2714344.

2714344 - Financial data migration to SAP S/4HANA: Most frequent Error Messages – Information and Recommendations						
Version 9 from 17.10.2020 in English						
Description	Product	References	Attributes	Languages	Rate This Document	
R20: Analyze Transactional Data	FI-GL	FINS_RECON 398	<p><b>Error text:</b> SECOND LOCAL CURRENCY &amp;2 IN BKPF INCONSISTENT (SHOULD BE &amp;3)</p> <p><b>Functional check:</b> Check BKPF-HWAE2 against the SAP S/4HANA currency settings for the 2nd the company code (transaction FINSCLDGER).</p>	<ul style="list-style-type: none"> <li>Inconsistent BKPF entries in the source system, mainly due to program errors, wrong handling of currency changes (e.g. adding second local currency in trans. OB22) etc.</li> </ul>	<p>1. Depends on situation. It need to be checked with business whether the wrong or missing value in the additional currency for previous postings is needed</p>	<p>1. Contact SAP (cc MIG-GL)</p>

Figure 5-50. SAP Note 2714344

## Preparation Phase SI Checks Execution (Functional)

Run the /SDF/RC\_START\_CHECK program (see Figures 5-51 and 5-52).

**SAP Readiness Check for SAP S/4HANA - Simplification Item Check**

Display Application Log Help

---

**Simplification Item Check Options**

Target SAP S/4HANA Version: 73554900103300008514 SAP S/4HANA 2020 [02 (05/2021) FP]

New relevance check in Online mode  
 New relevance & consistency check as background job  
 Display Last Check Result

▲ Implemented version 147 of SAP Note 2399707 is not up to date.  
 ▲ Implemented version 90 of SAP Note 2502552 is not up to date.

---

**Simplification Item Catalog Source**

Local Version [ 17.11.2021 07:12:21 UTC ]

Figure 5-51. SI Checks execution

Relevance	Last Cons.	Exempto	ID	Title	Job/Technology	Business Area	Category
Δ	⊗	⊗	S12: MasterData_BP	S4TWL - Business Partner Approach	Database and Data Management	Enterprise Information Management	Change of exist
Δ	⊗	⊗	S13: HR_LEARN	S4TWL - SAP Learning Solution	Human Resources	Core HR and Time Recording	Non-strategic-f
Δ	⊗	⊗	S11: Logistics_MM-IM	S4TWL - DATA MODEL IN INVENTORY MANAGEMENT	Supply Chain	Inventory	Change of exist
Δ	⊗	⊗	S11_FIN_GL	S4TWL - GENERAL LEDGER	Finance	Accounting and Financial Close	Change of exist
Δ	⊗	⊗	S12: FIN_AA	S4TWL - ASSET ACCOUNTING	Finance	Accounting and Financial Close	Change of exist
Δ	⊗	⊗	S12: Logistics_PP-MRP	S4TWL - Storage Location MRP	Manufacturing	Production Planning	Functionality ui
Δ	⊗	⊗	S14: HR_EREC	S4TWL - SAP E-Recruiting	Human Resources	Core HR and Time Recording	Non-strategic-f
Δ	⊗	⊗	S12: GENERIC_CHECKS	S4TWL - Generic Check for SAP S/4HANA Conversion a	IT Management	Administration and Usability	Change of exist
Δ	⊗	⊗	S12: SD_PRICE	S4TWL - Data Model Changes in SD Pricing	Sales	Order and Contract Management	Change of exist
Δ	⊗	⊗	S13: Logistics_General	S4TWL - Retail Information System	Solutions for Specific Industries	Retail	Functionality ui
Δ	⊗	⊗	S13: Logistics_MM-IM	S4TWL - Material Ledger Obligatory for Material Valuation	Supply Chain	Inventory	Change of exist
Δ	⊗	⊗	S15: MasterData_PM	S4TWL - Simplification of copy/reference handling	Database and Data Management	Enterprise Information Management	Change of exist

Figure 5-52. SAP Simplification Item Check

## Error Messages

### Module – Finance

#### S12: FIN\_MISC\_ML

Corrective actions: SAP has completed the required changes, as shown in Figure 5-53.

SAP repaired the inconsistencies between tables : ACDOCA vs. CKMLPP/CKMLCR. Therefore in transaction CKMREP I've adjusted the quantity & values in current period 9/2020 from tables CKMLPP/CKMLCR. Now they are in sync with tables ACDOCA values:

#### S122: GENERIC\_CHECKS

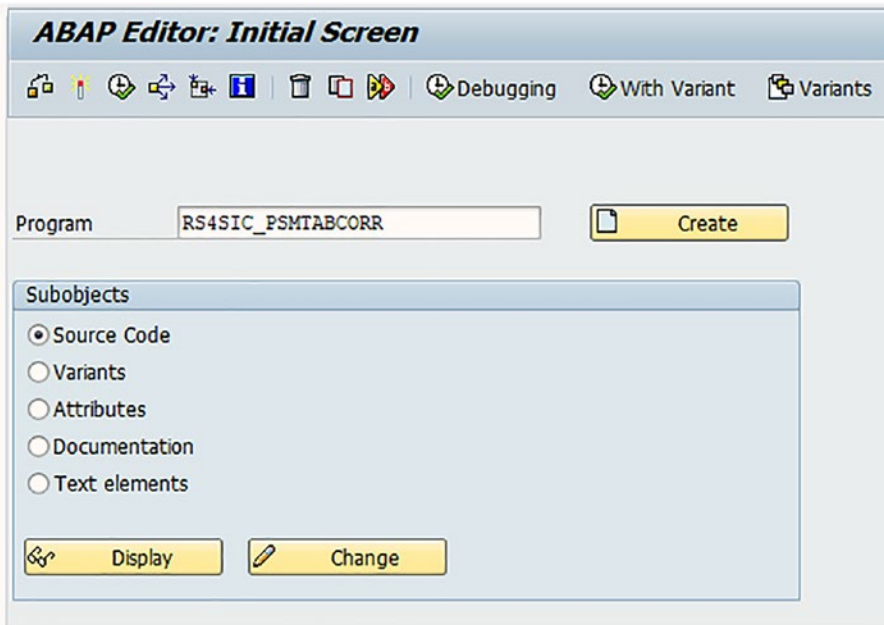
Relevance	Last Cons.	Exempto	ID	Title	Job/Technology	Business Area	Category
Δ	⊗	⊗	S122: GENERIC_CHECKS	S4TWL - Generic Check for SAP S/4HANA Conversion an	IT Management	Administration and Usability	Change of existing F

Figure 5-53. Generic checks

- SAP Note 1484142
- SAP Note 2749796

Corrective action: Report RS4SIC\_PSMTABCORR (see Figures 5-54 to 5-56)

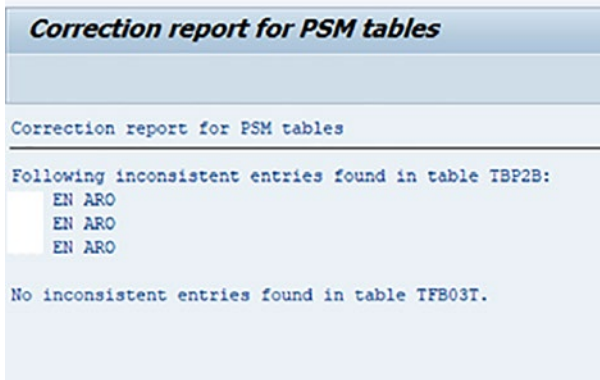




**Figure 5-54.** *RS4SIC\_PSMTABCORR*

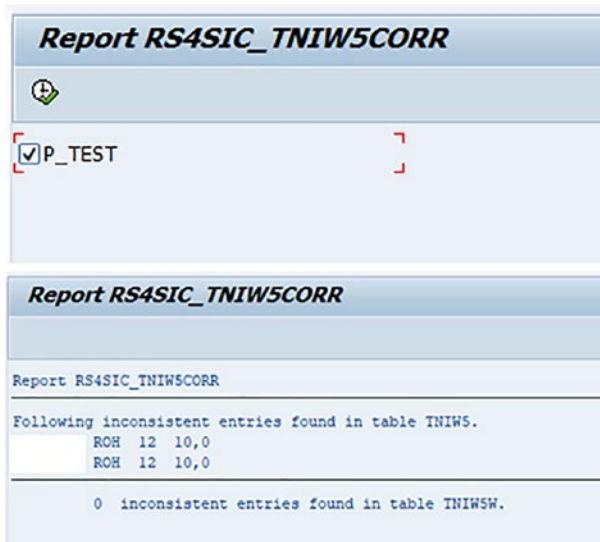


**Figure 5-55.** *RS4SIC\_PSMTABCORR test run*



**Figure 5-56.** Report for RS4SIC\_PSMTABCORR

Correction report RS4SIC\_TNIW5CORR (see Figure 5-57).



**Figure 5-57.** Correction report for RS4SIC\_TNIW5CORR

## SI1: FIN\_GL

Figures 5-58 and 5-59 show this error message.

Relevance	Last Con.	Exempted	ID	Title	Job/Technology	Business Area	Category
△	●	○	SI2: MasterData_BP	S4TWL - Business Partner Approach	Database and Data Management	Enterprise Information Management	Change of exist
△	●	○	SI3: HR_LEARN	S4TWL - SAP Learning Solution	Human Resources	Core HR and Time Recording	Non-strategic-f
△	●	○	SI1: Logistics_MM-IM	S4TWL - DATA MODEL BI INVENTORY MANAGEMENT	Supply Chain	Inventory	Change of exist
△	●	○	SI1: FIN_GL	S4TWL - GENERAL LEDGER	Finance	Accounting and Financial Close	Change of exist
△	●	○	SI2: FIN_AA	S4TWL - ASSET ACCOUNTING	Finance	Accounting and Financial Close	Change of exist
△	●	○	SI2: Logistics_PP-MRP	S4TWL - Storage Location MRP	Manufacturing	Production Planning	Functionality ui
△	●	○	SI2: MasterData_PM	S4TWL - Simplification of copy/reference handling	Database and Data Management	Enterprise Information Management	Change of exist
△	●	○	SI4: HR_EREC	S4TWL - SAP E-Recruiting	Human Resources	Core HR and Time Recording	Non-strategic-f
△	●	○	SI2: GENERIC_CHECKS	S4TWL - Generic Check for SAP S/4HANA Conversion a	IT Management	Administration and Usability	Change of exist
△	●	○	SI2: SD_PRIC	S4TWL - Data Model Changes in SD Pricing	Sales	Order and Contract Management	Change of exist
△	●	○	SI3: Logistics_General	S4TWL - Retail Information System	Solutions for Specific Industries	Retail	Functionality ui
△	●	○	SI3: Logistics_MM-IM	S4TWL - Material Ledger Obligatory for Material Valuation	Supply Chain	Inventory	Change of exist

Figure 5-58. SI1: FIN\_GL

Overview	Num...
• Highest consistency check return code: /	1
• Skip-able consistency error found, exemption can be applied to the item in simplification	1
• Item list.	1
• Check started at	1
• Check class: CLS42IC_FL_GL	1
• Check raises might be run-nd-date. Implement latest version of SAP Note 2507952.	1
• Implemented version: 90.	1
• Check ended at	1
• Consistency check running time: 1 seconds	1
• Consistency check result...	1
• Check Sub-ID: 'FL_GL_GENERAL_FL_CO', return code = 4.	3
• Check Sub-ID: 'FL_GL_AGG_SEVERITY', return code = 7.	3
• Maximum severity of occurred messages for : Error skip-able. See SAP Note 2245232 for possible solutions	1
• Check Sub-ID: 'FL_GL_START', return code = 7.	2
• Begin of check results for	1
• Check Sub-ID: 'FL_GL_13', return code = 7.	2
• Compare code QM01 and cont. area QM01 have different fiscal year variants K1 and K2	1
• Check Sub-ID: 'FL_GL_04', return code = 4.	3
• Check Sub-ID: 'FL_GL_05', return code = 4.	5
• Check Sub-ID: 'FL_GL_04', return code = 4.	3
• Check Sub-ID: 'FL_GL_02', return code = 7.	2
• Check Sub-ID: 'FL_GL_02', return code = 7.	3
• Check Sub-ID: 'FL_GL_AGG_SEVERITY', return code = 4.	2
• Check Sub-ID: 'FL_GL_S1AK1', return code = 4.	3
• Check Sub-ID: 'FL_GL_04', return code = 4.	3

Figure 5-59. Consistency check result

The system changes FYV of CO area to K1 (see Figure 5-60).

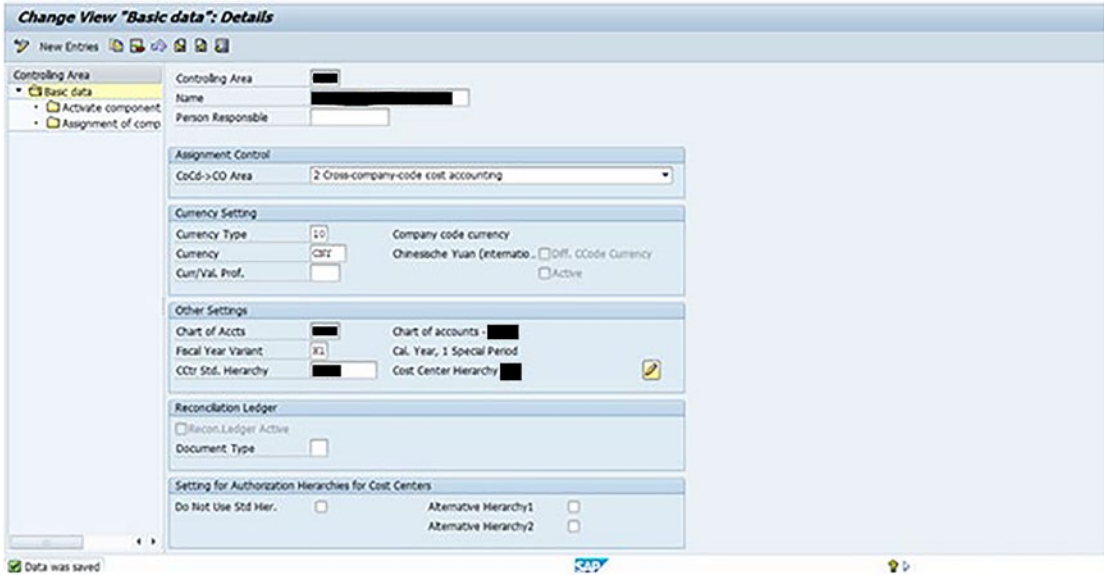


Figure 5-60. Controlling area data

## SI2: FIN\_AA

Sub ID is FI\_AA\_ASSETCLASS (see Figure 5-61).

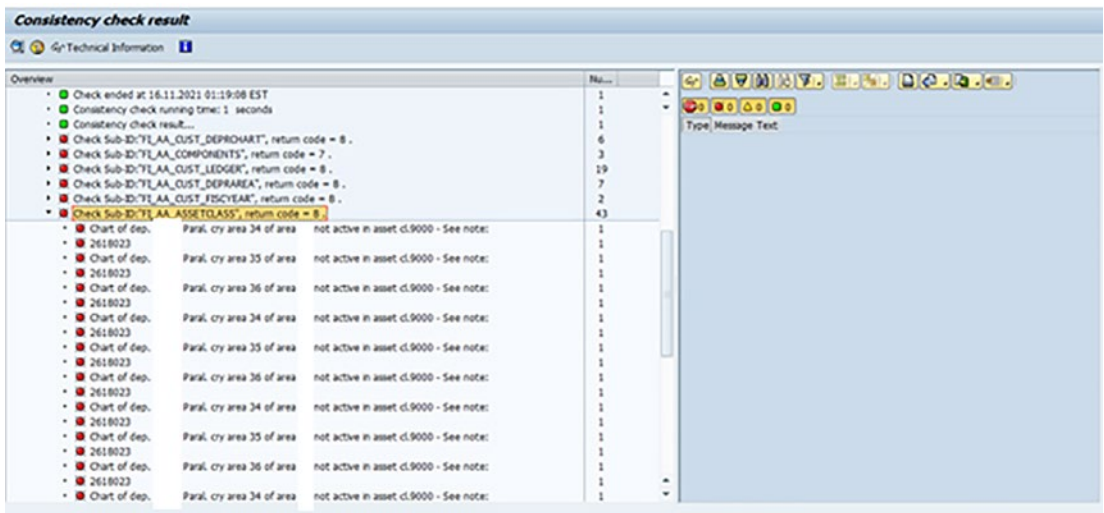
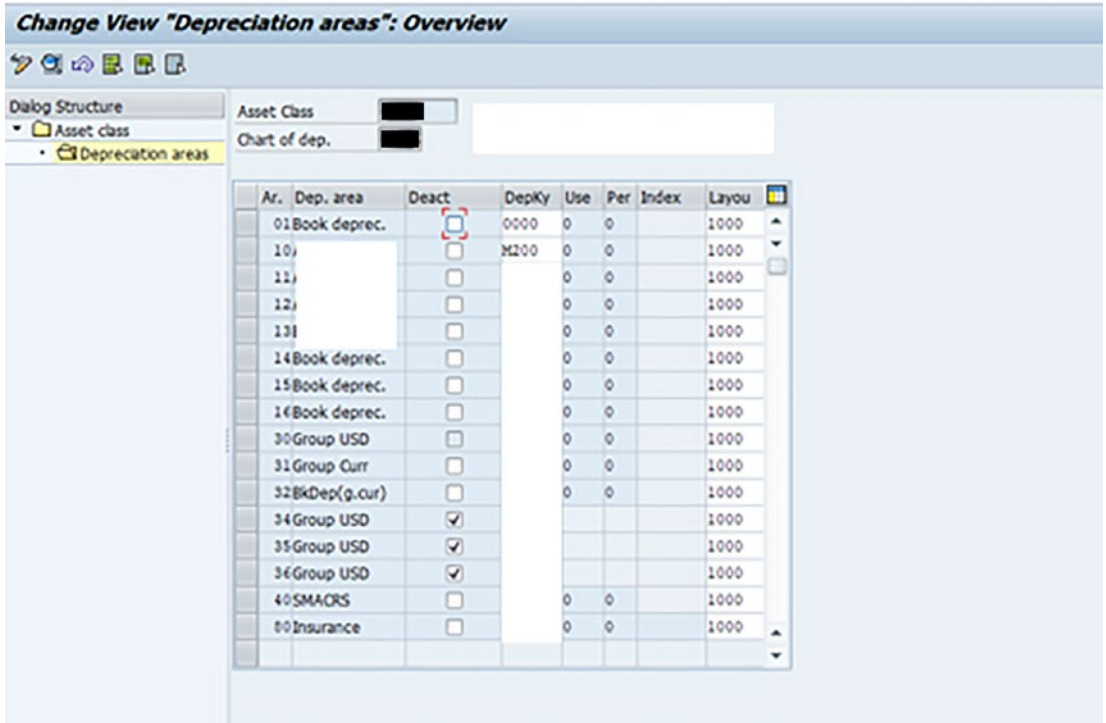


Figure 5-61. Consistency check results

**Path:** /nspro ► Financial Accounting ► Asset Accounting ► Valuation ► Determine Depreciation Areas in the Asset Class

**T-code:** OAYZ

Figure 5-62 shows the view before any changes.



**Figure 5-62.** Depreciation areas

Figure 5-63 shows the view after the changes.

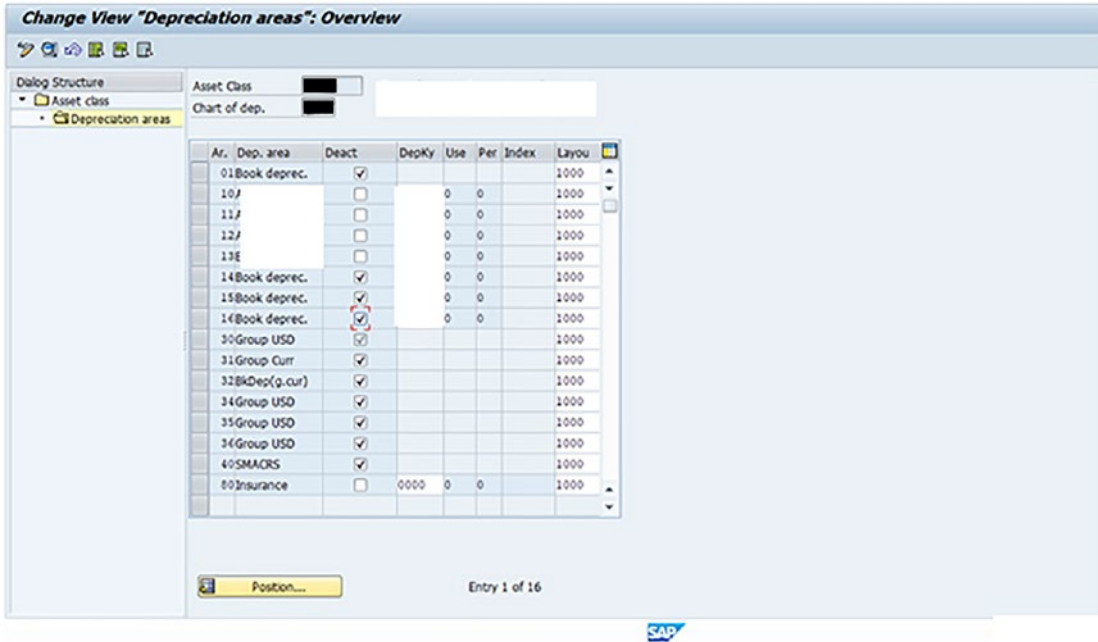


Figure 5-63. Depreciation area

After the corrections, Sub ID FI\_AA\_ASSETCLASS is no longer displayed (see Figure 5-64).

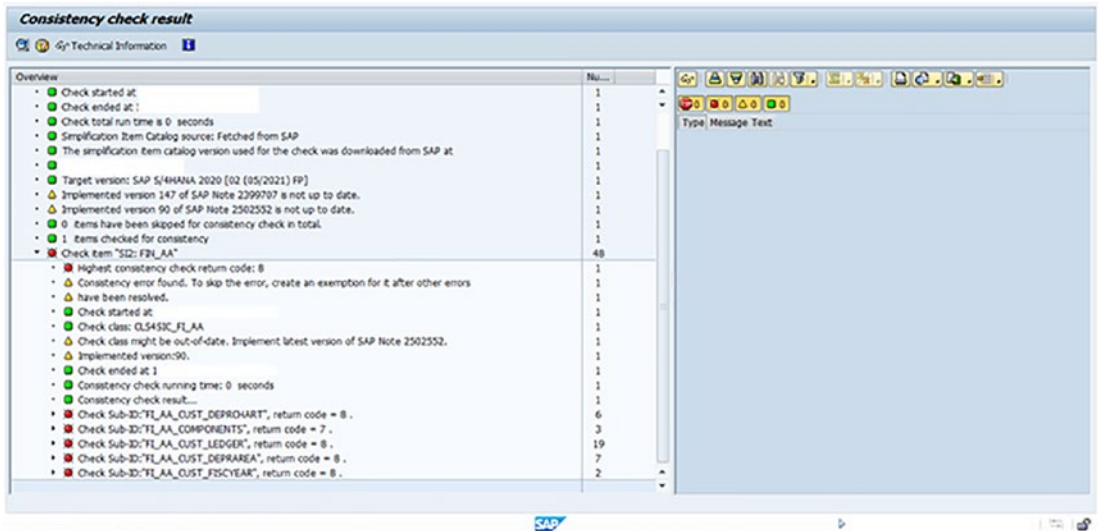
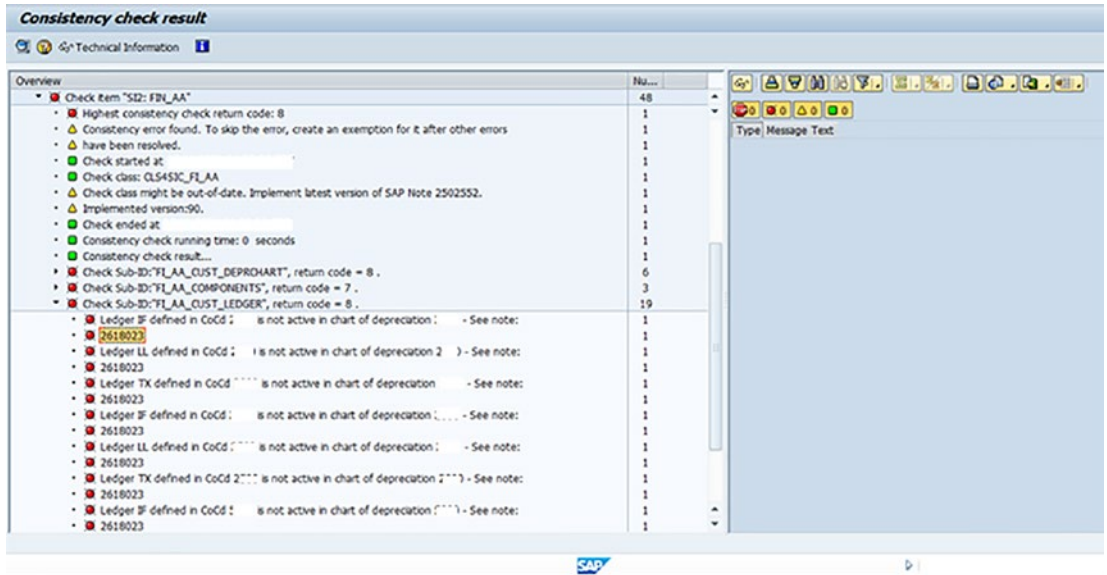


Figure 5-64. Consistency check results

## Sub ID FI\_AA\_CUST\_LEDGER

See Figure 5-65.



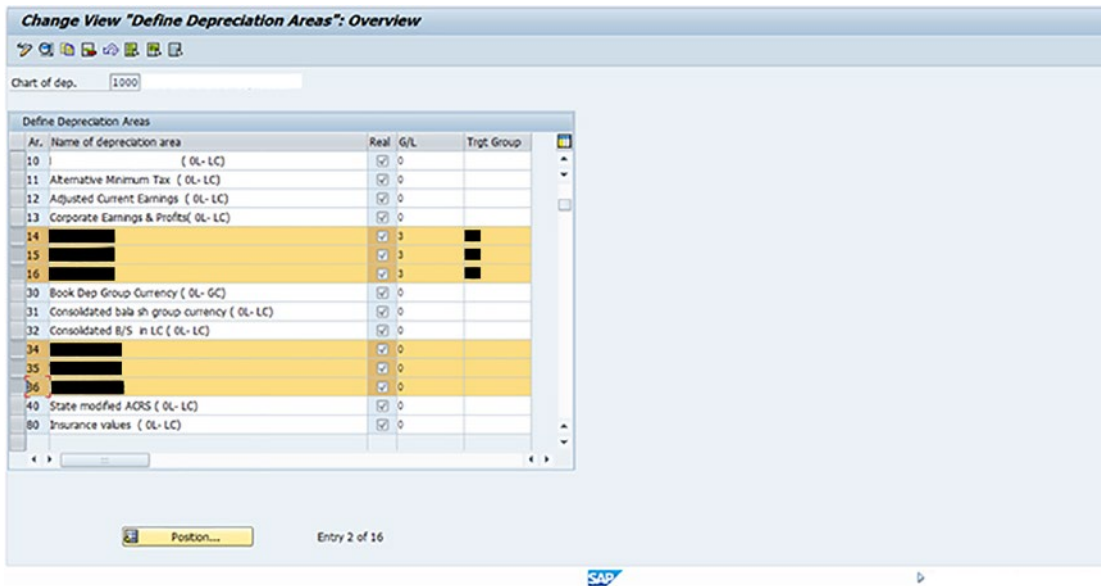
**Figure 5-65.** Consistency check results

Corrective action:

**Path:** /nspro ► Financial Accounting ► Asset Accounting ► Organisational Structure ► Copy Reference Chart of Depreciation/Depreciation Areas

**T-code:** OADB (see Figure 5-66)



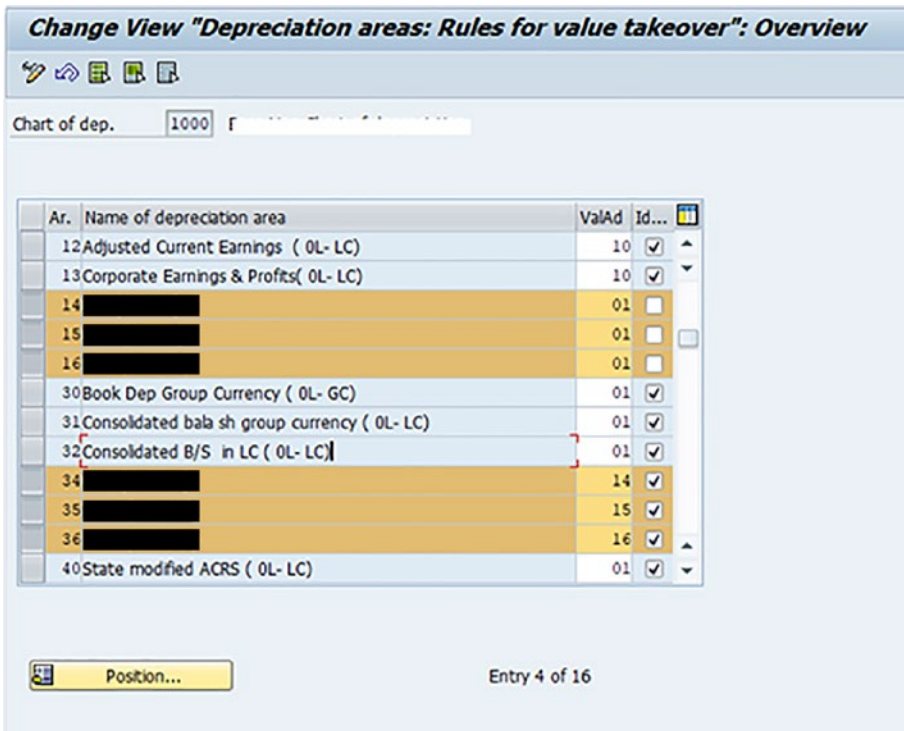


**Figure 5-66.** Define the depreciation area

**Path:** /nspro ► Financial Accounting ► Asset Accounting ► Valuation ► Depreciation Area ► Specify Transfer of APC Values

**T-code:** OABC (see Figure 5-67)

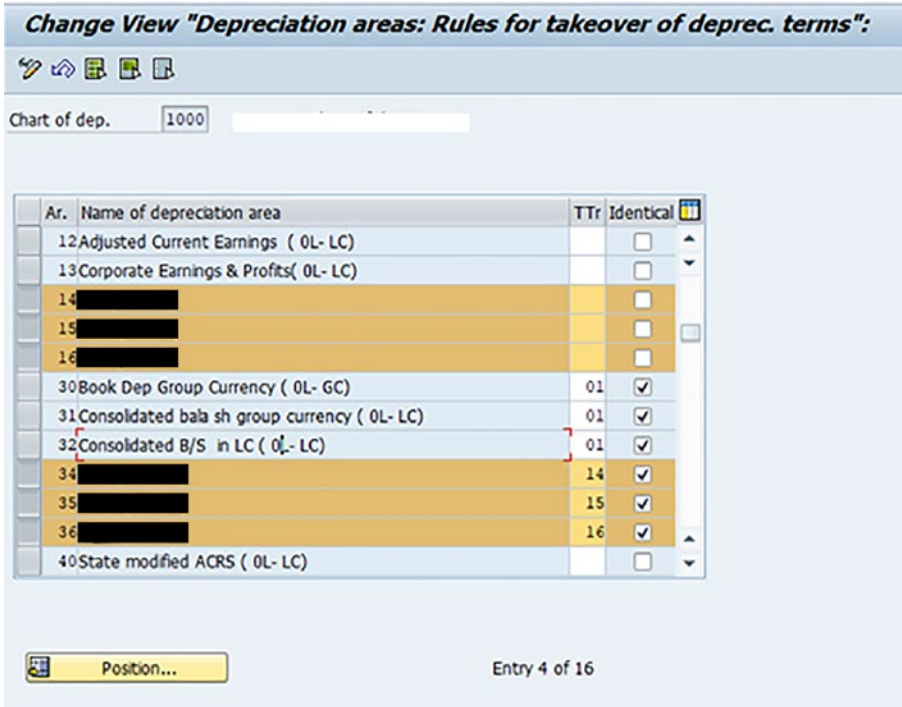




**Figure 5-67.** Specify transfer of APC values

**Path:** /nspro ► Financial Accounting ► Asset Accounting ► Valuation ► Depreciation Area ► Specify Transfer of Depreciation Terms




























**T-code:** OABD (see Figure 5-68)



**Figure 5-68.** Specify transfer of APC values

## Sub ID FI\_AA\_CUST\_DEPRCHART

See Figure 5-69.

<b>Consistency check result</b>	
  	
Overview	Nu...
•  The simplification item catalog version used for the check was downloaded from SAP at	1
• 	1
•  Target version: SAP S/4HANA 2020 [02 (05/2021) FP]	1
•  Implemented version 147 of SAP Note 2399707 is not up to date.	1
•  Implemented version 90 of SAP Note 2502552 is not up to date.	1
•  0 items have been skipped for consistency check in total.	1
•  1 items checked for consistency	1
▼  Check item "SIZ: FIN_AA"	47
•  Highest consistency check return code: 8	1
•  Consistency error found. To skip the error, create an exemption for it after other errors	1
•  have been resolved.	1
•  Check started at 1 .....	1
•  Check class: CLS4SIC_FI_AA	1
•  Check class might be out-of-date. Implement latest version of SAP Note 2502552.	1
•  Implemented version:90.	1
•  Check ended at : .....	1
•  Consistency check running time: 1 seconds	1
•  Consistency check result...	1
▼  Check Sub-ID: "FI_AA_CUST_DEPRCHART", return code = 8 .	6
•  Invalid assignment of chart of depreciation 0DE to company code 0001 - See note: 2618023	1
•  Invalid assignment of chart of depreciation 0DE to company code RECO - See note: 2618023	1
•  Invalid assignment of chart of depreciation 0DE to company code REOB - See note: 2618023	1
•  Invalid assignment of chart of depreciation 0DE to company code RERF - See note: 2618023	1
•  Invalid assignment of chart of depreciation 0RU to company code RU01 - See note: 2618023	1

**Figure 5-69.** Consistency check result

**Path:** /nspro ► Financial Accounting ► Asset Accounting ► Organizational Structure ► Assign Chart of Depreciation to Company code.

**T-code:** OAOB

Figure 5-70 shows the view before any changes.

**Change View "Maintain company code in Asset Accounting": Overview**

CoCd	Company Name	Chrt dep	Description
0001	SAP A.G.	000	Template chart of depreciation: Germany
0MB1	[REDACTED]		
000		000	depreciation
010	Company Code 1010	000	depreciation
100		000	depreciation
200		000	depreciation
300		000	depreciation
000		000	depreciation: [REDACTED]
500		000	depreciation: [REDACTED]
000		000	depreciation
000		000	depreciation
000		000	depreciation: [REDACTED]
AR01	Country Template AR		
ARG1	Country Template AR		
AT01	Country Template AT		
AU01	Country Template AU		
BE01	Country Template BE		
BR01	Country Template BR		
CA01	Country Template CA		
CH01	Country Template CH		

Position... Entry 1 of 66

Figure 5-70. Assign chart of depreciation to company code

Figure 5-71 shows the view after the changes.

**Change View "Maintain company code in Asset Accounting": Overview**

CoCd	Company Name	Chrt dep	Description
TR01	Country Template TR		
TW01	Country Template TW		
UA01	Country Template UA		
US01	Country Template US		
VE01	Country Template VE		
ZA01	Country Template ZA		

**Figure 5-71.** Assign chart of depreciation to company code

## Sub ID FI\_AA\_CUST\_DEPRAREA

See Figure 5-72.

**Consistency check result**

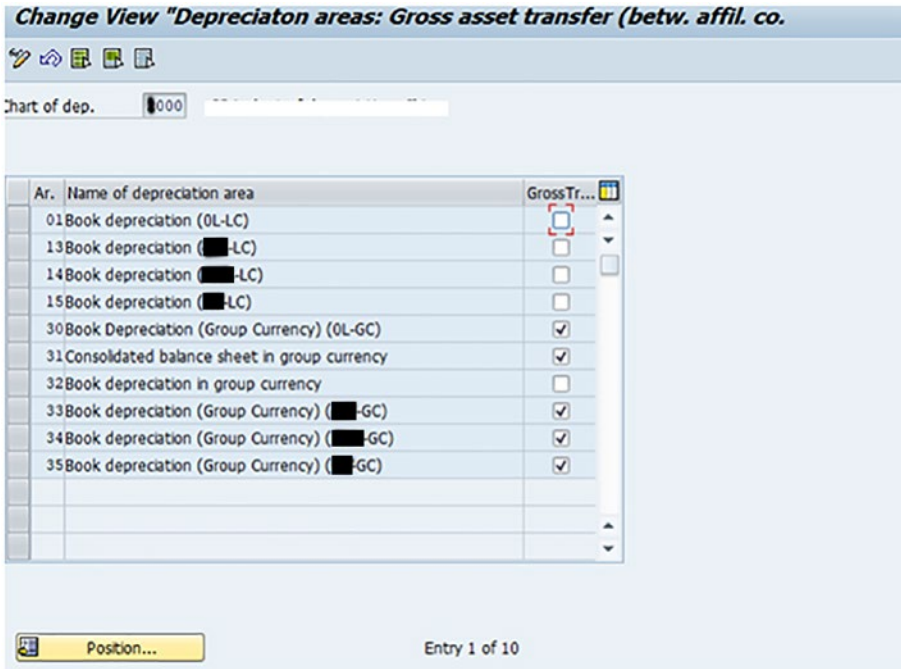
Technical Information

Overview	Nu...
<ul style="list-style-type: none"> <li> <span style="color: red;">❗</span> Check Sub-ID: "FI_AA_CUST_DEPRAREA", return code = 8 .                             <ul style="list-style-type: none"> <li> <span style="color: red;">❗</span> Deprec. area 01 in ch.of dep. is not set for gross transfer posting - See note:                                     <ul style="list-style-type: none"> <li><span style="color: red;">❗</span> 2618023</li> </ul> </li> <li> <span style="color: red;">❗</span> Deprec. area 13 in ch.of dep. is not set for gross transfer posting - See note:                                     <ul style="list-style-type: none"> <li><span style="color: red;">❗</span> 2618023</li> </ul> </li> <li> <span style="color: red;">❗</span> Deprec. area 14 in ch.of dep. is not set for gross transfer posting - See note:                                     <ul style="list-style-type: none"> <li><span style="color: red;">❗</span> 2618023</li> </ul> </li> <li> <span style="color: red;">❗</span> Deprec. area 15 in ch.of dep. is not set for gross transfer posting - See note:                                     <ul style="list-style-type: none"> <li><span style="color: red;">❗</span> 2618023</li> </ul> </li> <li> <span style="color: red;">❗</span> Deprec. area 01 in ch.of dep. is not set for gross transfer posting - See note:                                     <ul style="list-style-type: none"> <li><span style="color: red;">❗</span> 2618023</li> </ul> </li> <li> <span style="color: red;">❗</span> Deprec. area 13 in ch.of dep. is not set for gross transfer posting - See note:                                     <ul style="list-style-type: none"> <li><span style="color: red;">❗</span> 2618023</li> </ul> </li> <li> <span style="color: red;">❗</span> Deprec. area 14 in ch.of dep. is not set for gross transfer posting - See note:                                     <ul style="list-style-type: none"> <li><span style="color: red;">❗</span> 2618023</li> </ul> </li> <li> <span style="color: red;">❗</span> Deprec. area 15 in ch.of dep. is not set for gross transfer posting - See note:                                     <ul style="list-style-type: none"> <li><span style="color: red;">❗</span> 2618023</li> </ul> </li> <li> <span style="color: red;">❗</span> Deprec. area 01 in ch.of dep. is not set for gross transfer posting - See note:                                     <ul style="list-style-type: none"> <li><span style="color: red;">❗</span> 2618023</li> </ul> </li> <li> <span style="color: red;">❗</span> Deprec. area 13 in ch.of dep. is not set for gross transfer posting - See note:                                     <ul style="list-style-type: none"> <li><span style="color: red;">❗</span> 2618023</li> </ul> </li> <li> <span style="color: red;">❗</span> Deprec. area 14 in ch.of dep. is not set for gross transfer posting - See note:                                     <ul style="list-style-type: none"> <li><span style="color: red;">❗</span> 2618023</li> </ul> </li> <li> <span style="color: red;">❗</span> Deprec. area 15 in ch.of dep. is not set for gross transfer posting - See note:                                     <ul style="list-style-type: none"> <li><span style="color: red;">❗</span> 2618023</li> </ul> </li> </ul> </li> </ul>	25
<ul style="list-style-type: none"> <li> <span style="color: red;">❗</span> Check Sub-ID: "FI_AA_CUST_FISCYEAR", return code = 8 .                             <ul style="list-style-type: none"> <li> <span style="color: red;">❗</span> CoCd : Fiscal year 2020 is not yet closed - See note: 2618023                                     </li> </ul> </li> </ul>	2
	1

Figure 5-72. Consistency check result

T-code: OABE

Figure 5-73 shows the view before any changes.



**Figure 5-73.** *Gross asset transfer*



Figure 5-74 shows the view after the changes.

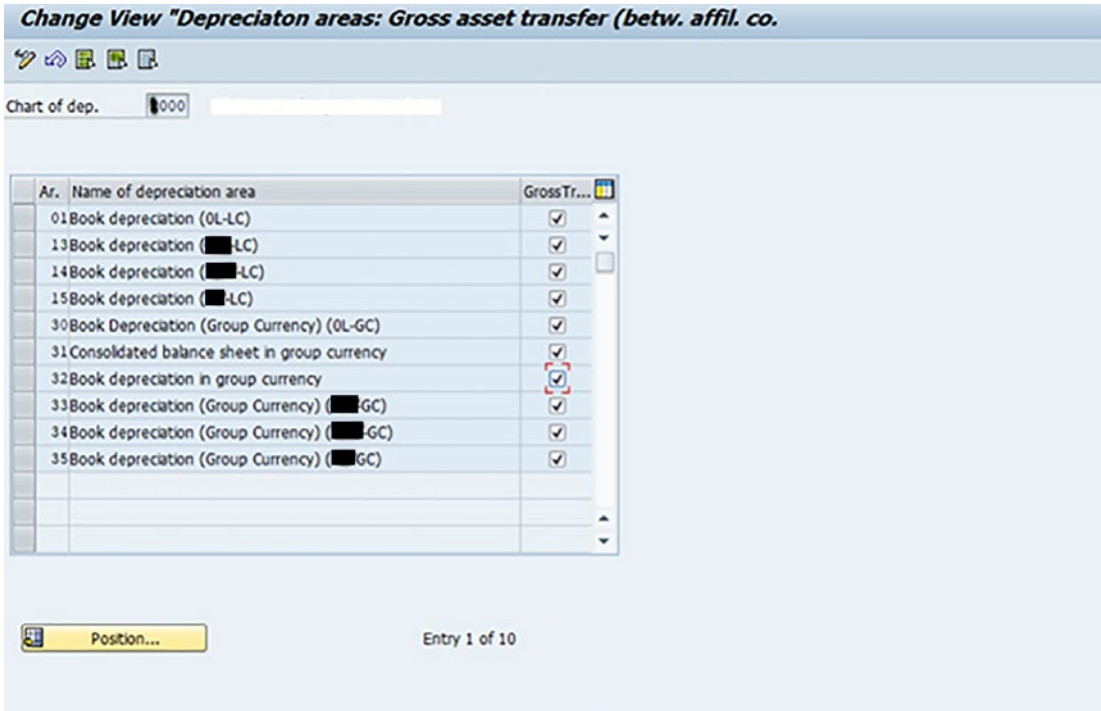


Figure 5-74. Gross asset transfer



## Sub ID FI\_AA\_COMPONENTS

See Figure 5-75.

Consistency check result		Nu...
Overview		
•  Implemented version 147 of SAP Note 2399707 is not up to date.		1
•  Implemented version 90 of SAP Note 2502552 is not up to date.		1
•  0 items have been skipped for consistency check in total.		1
•  1 items checked for consistency		1
•  Check item "S12: FI_AA"		25
•  Highest consistency check return code: 8		1
•  Consistency error found. To skip the error, create an exemption for it after other errors		1
•  have been resolved.		1
•  Check started at		1
•  Check class: CLS4SIC_FI_AA		1
•  Check class might be out-of-date. Implement latest version of SAP Note 2502552.		1
•  Implemented version:90.		1
•  Check ended at		1
•  Consistency check running time: 0 seconds		1
•  Consistency check result...		1
•  Check Sub-ID:"FI_AA_COMPONENTS", return code = 7 .		3
•  FI-AA (new) is not compatible with old deprec. calculation; see long text - See note:		1
•  2618023		1
•  Check Sub-ID:"FI_AA_CUST_DEPRAREA", return code = 8 .		9
•  Deprec. area 01 in ch.of dep. !   is not set for gross transfer posting - See note:		1
•  2618023		1
•  Deprec. area 13 in ch.of dep. !   is not set for gross transfer posting - See note:		1
•  2618023		1
•  Deprec. area 14 in ch.of dep. !   is not set for gross transfer posting - See note:		1
•  2618023		1
•  Deprec. area 15 in ch.of dep. !   is not set for gross transfer posting - See note:		1
•  2618023		1
•  Check Sub-ID:"FI_AA_CUST_FISCYEAR", return code = 8 .		2

Figure 5-75. Consistency check results

T-code: SFW5

EA-FIN should be active (see Figure 5-76).

Name	Description	Planned Status	Dep...	Doc...	Rel...	Softwarekompon...	Rel...	Anwendungskompon...	SAP...	Test...
ENTERPRISE_EXTENSIONS	Enterprise Extensions									
• /OUR/MAIN	Compatible Units	<input type="checkbox"/>				EA-APPL	602	PH-WOC-MO		
• /SDF/H5_MON	Web Service Monitoring	<input type="checkbox"/>				ST-PI		SV-SMG-DIA		
• EA-CP	Consumer Products	<input type="checkbox"/>				EA-APPL	600	SD		
• EA-DPP	DefenseForces&PublicSecurity	<input type="checkbox"/>				EA-DPPS		IS-DPS		
• EA-FIN	Financials Extension	Business function remains switch...				EA-APPL	600	FI		
• EA-FRC	FERC: Regulatory Reporting	<input type="checkbox"/>				EA-APPL	600	FI		
• EA-FS	Financial Services	Business function remains switch...				EA-FINSERV		TR		
• EA-GLT	Global Trade Management	<input type="checkbox"/>				EA-GLTRADE		LO-AB		
• EA-HR	Human Capital Management	<input type="checkbox"/>				EA-HRRXX	600	PA-PA		
• EA-ICM	Incentive and Sales Force Mgmt.	<input type="checkbox"/>				EA-APPL	600	ICM		
• EA-ISE	Industry-Spec. Sales Enhancement	<input type="checkbox"/>				EA-APPL	600	SD		

Figure 5-76. EA-FIN is active

## Sub ID FI\_AA\_CUST\_ACCOUNT

See Figure 5-77.

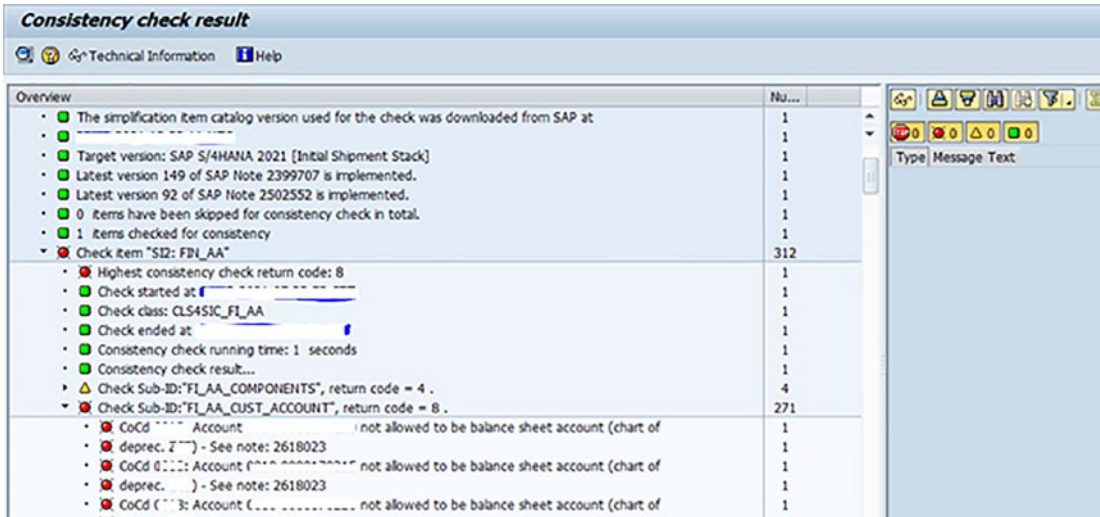


Figure 5-77. Consistency check details

CoCd 00XX: Account 00XY-0000NNNNN is not allowed to be balance sheet account (chart of deprec. ZCZ): See SAP Note 2618023.

As per SAP Note 2618023, new accounts are to be created or existing accounts are to be changed (see Figure 5-78).

### Message details

Message: »CoCd &4: Account &3-&1 not allowed to be balance sheet account (chart of depreciation &5)«

### Diagnosis

The specified account is defined as an asset balance sheet account in the specified chart of accounts (see message short text). This definition is **not** correct for the circumstance.

You should note that the Customizing definition of the respective depreciation area also has an influence on the consistency check for the general ledger accounts. This particularly affects depreciation areas that are set up for managing investment support measures on the liabilities side. In order for the consistency check to be correct, it is necessary for you to set the correct indicator in the definition of the affected depreciation area.

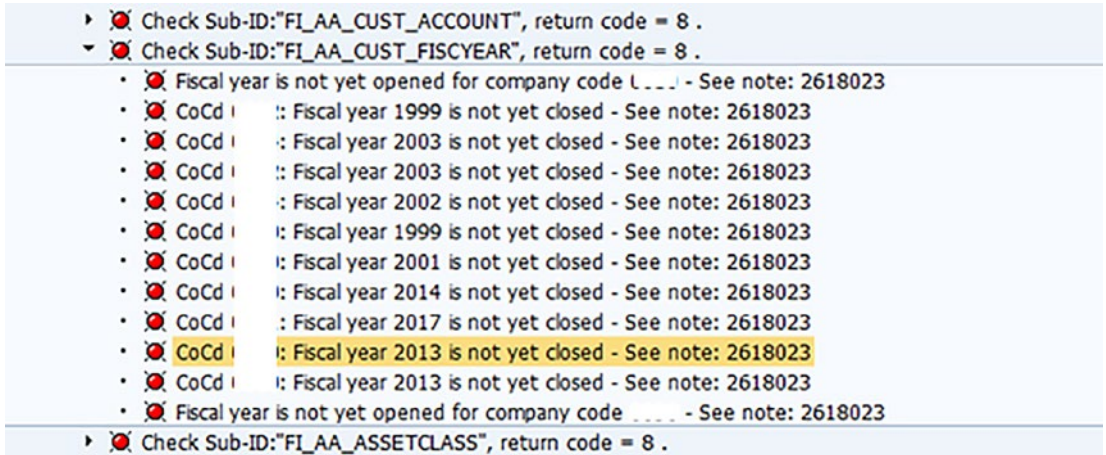
### Procedure

Change the account definition or assign a different account for the given set of circumstances.

Figure 5-78. SAP Note 2618023

## Sub ID FI\_AA\_CUST\_FISCYEAR

See Figure 5-79.



**Figure 5-79.** Consistency check

CoCd 00XX: Fiscal year YY99 is not yet closed; see SAP Note 2618023 (see Figure 5-80).

**Message: CoCode &1: Fiscal year &2 is not yet closed.**

### Diagnosis

The current fiscal year is still open in the specified company code (see message short text).

A maximum of one fiscal year is allowed to be open in a company code before you install SAP S/4HANA.

You are **not** allowed to install SAP S/4HANA. Document migration will **not** be possible.

### Procedure

Perform your year-end closing and make sure that the fiscal year mentioned is closed for the company code.

**Figure 5-80.** SAP Note 2618023

Refer to SAP Note 2618023. The fiscal year needs to be closed; only the current fiscal year can be open.

## Sub ID FI\_AA\_CUST\_DEPRAREA\_CURRENCY

See Figure 5-81.

• 2618023	1
▼ Check Sub-ID: "FI_AA_CUST_DEPRAREA_CURRENCY", return code = 8 .	3
• Company code : Parallel currency area 32 not in asset master record - See note:	1
• 2618023	1

**Figure 5-81.** Consistency check

Company code 00XX: Parallel currency area 32 not in asset master record; see SAP Note 2618023 (see Figure 5-82).

### Message details

**Message: CoCode &1: Parallel currency area &2 does not exist in the asset master record**

### Diagnosis

The depreciation area specified (see message short text) is defined as parallel currency area.

However, this parallel currency area does **not** exist in the asset master record of the specified company code even though the base depreciation area exists in the asset master record.

You are **not** allowed to install SAP S/4HANA. The document migration would **not** be possible.

### Procedure

If you are migrating from classic Asset Accounting to new Asset Accounting in SAP S/4HANA, then you must implement the missing parallel currency area in the asset master record **before** the installation of SAP S/4HANA and determine the values for this depreciation area. To determine the values, use program *Automatic Opening of a New Depreciation Area* (RAFABNEW).

**Figure 5-82.** SAP Note 2618023

Any missing parallel currency areas in the asset master record must be implemented before installing SAP S/4HANA. To determine the values for this depreciation area, use the Automatic Opening of a New Depreciation Area (RAFABNEW) program.



# Module - HR

## SI3: HR\_LEARN

See Figures 5-83 and 5-84.

Simplification Item List - SAP S/4HANA 2020 [Initial Shipment Stack]						
Relevance	Last Cons.	Exemptio.	ID	Title	Job/Technology	Business Area
▲	●	⊙	SI21: SD_VBEA_STUEE	S4TWL - VBFA - Indirect Docflow Relationships	Sales	Order and Contract Management
▲	●	⊙	SI22: GENERIC_CHECKS	S4TWL - Generic Check for SAP S/4HANA Conversion an...	IT Management	Administration and Usability
▲	●	▲	SI2: FIN_MISC_ML	S4TWL - Technical Changes in Material Ledger	Finance	Cost Management and Profitability P
▲	●	▲	SI3: HR_LEARN	S4TWL - SAP Learning Solution	Human Resources	Core HR and Time Recording
▲	●	⊙	SI5: CT_OM	S4TWL - Duplicate request entries in Output Manage...	Application Platform and Infrastructure	Process Management and Integrat...

Figure 5-83. SI3: HR\_LEARN

### Consistency check result

🔍 🔗 📄 Technical Information 🆘 Help

Overview	Nu...
• The simplification item catalog version used for the check was downloaded from SAP at	1
• 14.12.2020 11:43:58 UTC	1
• Target version: SAP S/4HANA 2020 [Initial Shipment Stack]	1
• Latest version 140 of SAP Note 2399707 is implemented.	1
• Latest version 82 of SAP Note 2502552 is implemented.	1
• 0 items have been skipped for consistency check in total.	1
• 1 items checked for consistency	1
• Check item "SI3: HR_LEARN"	22
• Highest consistency check return code: 7	1
• Skip-able consistency error found, exemption can be applied to the item in simplification	1
• Item list.	1
• Check started at 15.12.2020 08:18:39 CET	1
• Check class: CLS4SIC_LSO_ACTIVE_STATUS	1
• Check class might be out-of-date. Implement latest version of SAP Note 2965544.	1
• Implemented version:..	1
• Check ended at 15.12.2020 08:18:39 CET	1
• Consistency check running time: 0 seconds	1
• Consistency check result...	1
• Check Sub-ID:"CHECK_START", return code = 0 .	2
• Check Sub-ID:"CHECK_LSO_ACTIVATION", return code = 7 .	7
• SAP Learning solution is used in but LSO activation is inconsistent. Proceeding	1
• further will remove LSO functionality from this system. Kindly check SAP note 2383837 for	1
• usage of SAP Learning Solutions in S4 landscape.	1
• SAP Learning solution is used in but LSO activation is inconsistent. Proceeding	1
• further will remove LSO functionality from this system. Kindly check SAP note 2383837 for	1
• usage of SAP Learning Solutions in S4 landscape.	1
• Check Sub-ID:"CHECK_END", return code = 0 .	2

Figure 5-84. Simplification Item Check

As per Note 2383837, SAP customers running S/4HANA on premise, HCM, and SAP Learning Solution in one system are required to replace the SAP learning solution with SuccessFactors Learning.

Transaction Code: SM30

Table: T77S0

Group: HRLSO - HRLSO - Remove X (Deactivate). See Figure 5-85.

Group	Sem.abbr.	Value abbr	Description
HRLSO	HRLSO		SAP Learning Solution On/Off
HRLSO	JOPOS	LSOJOPOS	Positions and Jobs of User

Figure 5-85. Table T77S0

## Module – Material Management

### SI5: Logistics\_MM-IM

See Figures 5-86 to 5-88.



Figure 5-86. Logistics MM-IM

Overview	Nu...
Consistency check overall information	31
Consistency check performed in system	1
Software Update Manager(SUM) mode: No.	1
Check performed in background mode (sy-batch): No.	1
Check started at 18.06.2020 08:08:26 EST	1
Check ended at 18.06.2020 08:08:26 EST	1
Check total run time is 0 seconds	1
Simplification Item Catalog source: Fetched from SAP	1
The simplification item catalog version used for the check was downloaded from SAP at 18.06.2020 07:35:17 UTC	1
Target version: SAP S/4HANA 1909 [02 (05/2020) FP]	1
Latest version 133 of SAP Note 2399707 is implemented.	1
Latest version 76 of SAP Note 2502552 is implemented.	1
0 items have been skipped for consistency check in total	1
1 items checked for consistency	1
Check item "SIS: Logistics_MM-IM"	16
Highest consistency check return code: 7	1
Skip-able consistency error found, exemption can be applied to the item in simplification	1
Item list.	1
Check started at 18.06.2020 08:08:26 EST	1
Check class: CLS453C_MM_IM_SIS	1
Check ended at 18.06.2020 08:08:26 EST	1
Consistency check running time: 0 seconds	1
Consistency check result...	1
Check Sub-ID: "LIS_CUSTOMIZING_CHECK", return code = 7 .	7
Late lock mode is active and LIS processing is active in mandt: . Inconsistent system	1
state for MM-IM in S/4HANA. Skip it now but you have to adjust your customizing after the migration! See SAP note 2319579	1
Early lock mode is active and LIS processing is active in mandt: 1 . MM-IM document	1
processing will run without optimization after migration. You can skip this message and	1
adjust your customizing after the migration. See SAP note 2319579	1

Figure 5-87. Consistency check results

SAP Note 2319579  
Transaction: OMJI

**Set Material Block**

---

Material block for goods movements

Exclusive block  
 Late exclusive block      Waiting time  Seconds  
 Activate Late DB Update

Figure 5-88. Set material block

Transaction OMO9 (see Figure 5-89)



Figure 5-89. Transaction OMO9

## SI12: Logistics: MM-IM

See Figures 5-90 and 5-91.

ID	Relevance	Last	Cons.	Exempto.	ID	Title	Job/Technology	Business Area	Category
	△		●	⊙	SI2: MasterData_BP	S4TWL - Business Partner Approach	Database and Data Management	Enterprise Information Management	Change of exist
	△		●	⊙	SI2: Logistics_PLM	S4TWL - Classification - Data Cleanup before Migration	R&D/Engineering	Product Lifecycle Management	Change of exist
	△		●	△	SI2: Logistics_MM-IM	S4TWL - Document Flow Consistency for Goods Receipt	Supply Chain	Inventory	Change of exist
	△		●	⊙	SI2: GENERIC_CHECKS	S4TWL - Generic Check for SAP S/4HANA Conversion an	IT Management	Administration and Usability	Change of exist

Figure 5-90. Logistics MM-IM



Consistency check result			Nu...
<b>Overview</b>			
•	Check started at 20.08.2020 11:14:43 EST		1
•	Check ended at 20.08.2020 11:14:43 EST		1
•	Check total run time is 0 seconds		1
•	Simplification Item Catalog source: Uploaded from file		1
•	The simplification item catalog version used for the check was downloaded from SAP at		1
•	13.08.2020 04:23:20 UTC		1
•	Target version: SAP S/4HANA 1909 [02 (05/2020) FP]		1
•	Latest version 135 of SAP Note 2399707 is implemented.		1
•	Latest version 78 of SAP Note 2502552 is implemented.		1
•	0 items have been skipped for consistency check in total.		1
•	1 items checked for consistency		1
•	Check Item "S112: Logistics_MM-IM"		16
•	• Highest consistency check return code: 7		1
•	• Skip-able consistency error found, exemption can be applied to the item in simplification		1
•	• Item list.		1
•	• Check started at 20.08.2020 11:14:43 EST		1
•	• Check class: CLS45JC_MM_IM_S112		1
•	• Check ended at 20.08.2020 11:14:43 EST		1
•	• Consistency check running time: 0 seconds		1
•	• Consistency check result....		1
•	• Check Sub-ID: "DOC_FLOW_UPDATE_NOT_SET", return code = 7 .		7
•	• "Document flow update for stock postings and return delivery" indicator is not set in the		1
•	• Global Shipping Data in the following clients.		1
•	• For more details refer to SAP Note : 2542099.		1
•	• You can create an exception for this message. The exception allows you to proceed with the		1
•	• conversion.		1
•	•		1

Figure 5-91. Consistency Check results

Execute the corrective notes from SNOTE 2542099.

## S11: Logistics MM-IM

See Figures 5-92 and 5-93.

Simplification Item List - SAP S/4HANA 2020 [02 (05/2021) FP]							
Relevance	Last Con.	Exempt.	ID	Title	Obj/Technology	Business Area	Category
Δ	⊗	⊗	S12: MasterData_BP	S4TWL - Business Partner Approach	Database and Data Management	Enterprise Information Management	Change of exis...
Δ	⊗	⊗	S13: HR_LEARN	S4TWL - SAP Learning Solution	Human Resources	Core HR and Time Recording	Non-strategic-f...
Δ	⊗	⊗	S11: Logistics_MM-IM	S4TWL - DATA MODEL IN INVENTORY MANAGEMENT (...)	Supply Chan	Inventory	Change of exis...
Δ	⊗	⊗	S12: FIN_AA	S4TWL - ASSET ACCOUNTING	Finance	Accounting and Financial Close	Change of exis...
Δ	⊗	⊗	S12: Logistics_PP-MRP	S4TWL - Storage Location MRP	Manufacturing	Production Planning	Functionality u...
Δ	⊗	⊗	S11: FIN_GL	S4TWL - GENERAL LEDGER	Finance	Accounting and Financial Close	Change of exis...

Figure 5-92. Logistics MM-IM

Consistency check result		Nu...
Overview		
• <span style="color: green;">■</span> Check performed in background mode (sy-batch): No.		1
• <span style="color: green;">■</span> Check started at : .....		1
• <span style="color: green;">■</span> Check ended at 1 .....		1
• <span style="color: green;">■</span> Check total run time is 29 seconds		1
• <span style="color: green;">■</span> Simplification Item Catalog source: Fetched from SAP		1
• <span style="color: green;">■</span> The simplification item catalog version used for the check was downloaded from SAP at .....		1
• <span style="color: green;">■</span> .....		1
• <span style="color: green;">■</span> Target version: SAP S/4HANA 2020 [02 (05/2021) FP]		1
• <span style="color: orange;">▲</span> Implemented version 147 of SAP Note 2399707 is not up to date.		1
• <span style="color: orange;">▲</span> Implemented version 90 of SAP Note 2502552 is not up to date.		1
• <span style="color: green;">■</span> 0 items have been skipped for consistency check in total.		1
• <span style="color: green;">■</span> 1 items checked for consistency		1
▼ <span style="color: red;">■</span> Check item "SI1: Logistics_MM-IM"		19
• <span style="color: red;">■</span> Highest consistency check return code: 8		1
• <span style="color: green;">■</span> Check started at : .....		1
• <span style="color: green;">■</span> Check class: CLS4SIC_MM_IM_SI1		1
• <span style="color: orange;">▲</span> Check class might be out-of-date. Implement latest version of SAP Note 2502552.		1
• <span style="color: orange;">▲</span> Implemented version:90.		1
• <span style="color: green;">■</span> Check ended at : .....		1
• <span style="color: green;">■</span> Consistency check running time: 29 seconds		1
• <span style="color: green;">■</span> Consistency check result...		1
▼ <span style="color: red;">■</span> Check Sub-ID:"ALL_MATNR_IN_MARA", return code = 8 .		5
• <span style="color: red;">■</span> MANDT: 300, MATNR 00000000000802477 of table MSEG does not exist in table MARA - See note: 2197392		1
• <span style="color: red;">■</span> MANDT: 300, MATNR 000000000030000393 of table MSEG does not exist in table MARA - See note: 2197392		1
• <span style="color: red;">■</span> note: 2197392		1
▶ <span style="color: orange;">▲</span> Check Sub-ID:"KALNR_VAL_DOC", return code = 4 .		5

Figure 5-93. Consistency check results

As per Note 2197392, material documents related to the materials that are missing in MARA should be archived.

## Module – PP

### SI2: Logistics: PP\_MRP

See Figures 5-94 and 5-95.

⚠	⚠	⚠	S12Z -> SI2: Logistics: PP-MRP	S4TTL - Generic Check for SAP S/4HANA Conversion an... 11 Management	Administration and Usability	Change or ext...
⚠	⚠	⚠	S12Z -> SI2: Logistics: PP-MRP	S4TTL - Storage Location MRP	Manufacturing	Production Planning
⚠	⚠	⚠	S12Z -> SI2: Logistics: PP-MRP	S4TTL - Storage Location MRP	Manufacturing	Production Planning

Figure 5-94. Logistics PP-MRP

Consistency check result		Nu...
Consistency check overall information		97
•	Consistency check performed in system	1
•	Software Update Manager(SUM) mode: No.	1
•	Check performed in background mode (sy-batch): No.	1
•	Check started at 20.08.2020 11:18:20 EST	1
•	Check ended at 20.08.2020 11:18:20 EST	1
•	Check total run time is 0 seconds	1
•	Simplification Item Catalog source: Uploaded from file	1
•	The simplification item catalog version used for the check was downloaded from SAP at 13.08.2020 04:23:20 UTC	1
•	Target version: SAP S/4HANA 1909 [02 (05/2020) FP]	1
•	Latest version 135 of SAP Note 2399707 is implemented.	1
•	Latest version 78 of SAP Note 2502552 is implemented.	1
•	0 items have been skipped for consistency check in total.	1
•	1 items checked for consistency	1
•	Check item "SI2: Logistics_PP-MRP"	82
•	Highest consistency check return code: 8	1
•	Check started at 20.08.2020 11:18:20 EST	1
•	Check class: CLS4SIC_PP_MRP_SI2	1
•	Check ended at 20.08.2020 11:18:20 EST	1
•	Consistency check running time: 0 seconds	1
•	Consistency check result...	1
•	Check Sub-ID:"MRP_AREA_CHECKS_002", return code = 0 .	3
•	Check Sub-ID:"MRP_AREA_CUSTOMIZING_001", return code = 8 .	2
•	Please switch on MRP Areas in the customizing -	1
•	Check Sub-ID:"MRP_AREA_CUSTOMIZING_001B", return code = 8 .	3
•	Please ensure that planning file entries are converted for MRP areas in - see	1
•	SAP Note 2469139.	1

Figure 5-95. Consistency check result

After you execute the correction notes as per 2469139 and 2216528, the pre-upgrade check for storage location migration report MRP\_AREA\_STORAGE\_LOC\_MIGRATION issue will be resolved.

The system displays the list of simplification items, as shown in Figures 5-96 and 5-97.

## SI5: MasterData\_PM

Relevance	Last Cons.	Exemptio	ID	Title	LoB/Technology	Business Area	Category
Δ	●	○	SI2: MasterData_PP	S4TWL - Business Partner Approach	Database and Data Management	Enterprise Information Management	Change of exist
Δ	●	○	SI3: HR_LEASIN	S4TWL - SAP Learning Solution	Human Resources	Core HR and Time Recording	Non-strategic-f
Δ	●	○	SI1: Logistics_MM-IM	S4TWL - DATA MODEL IN INVENTORY MANAGEMENT	Supply Chain	Inventory	Change of exist
Δ	●	○	SI11: FBV_GL	S4TWL - GENERAL LEDGER	Finance	Accounting and Financial Close	Change of exist
Δ	●	○	SI2: FBV_AA	S4TWL - ASSET ACCOUNTING	Finance	Accounting and Financial Close	Change of exist
Δ	●	○	SI2: Logistics_PP-MRP	S4TWL - Storage Location MRP	Manufacturing	Production Planning	Functionality ur
Δ	●	○	SI5: MasterData_PM	S4TWL - Simplification of copy/reference handling	Database and Data Management	Enterprise Information Management	Change of exist
Δ	●	○	SI4: HR_ESEC	S4TWL - SAP E-Recruiting	Human Resources	Core HR and Time Recording	Non-strategic-f

Figure 5-96. Master data PM

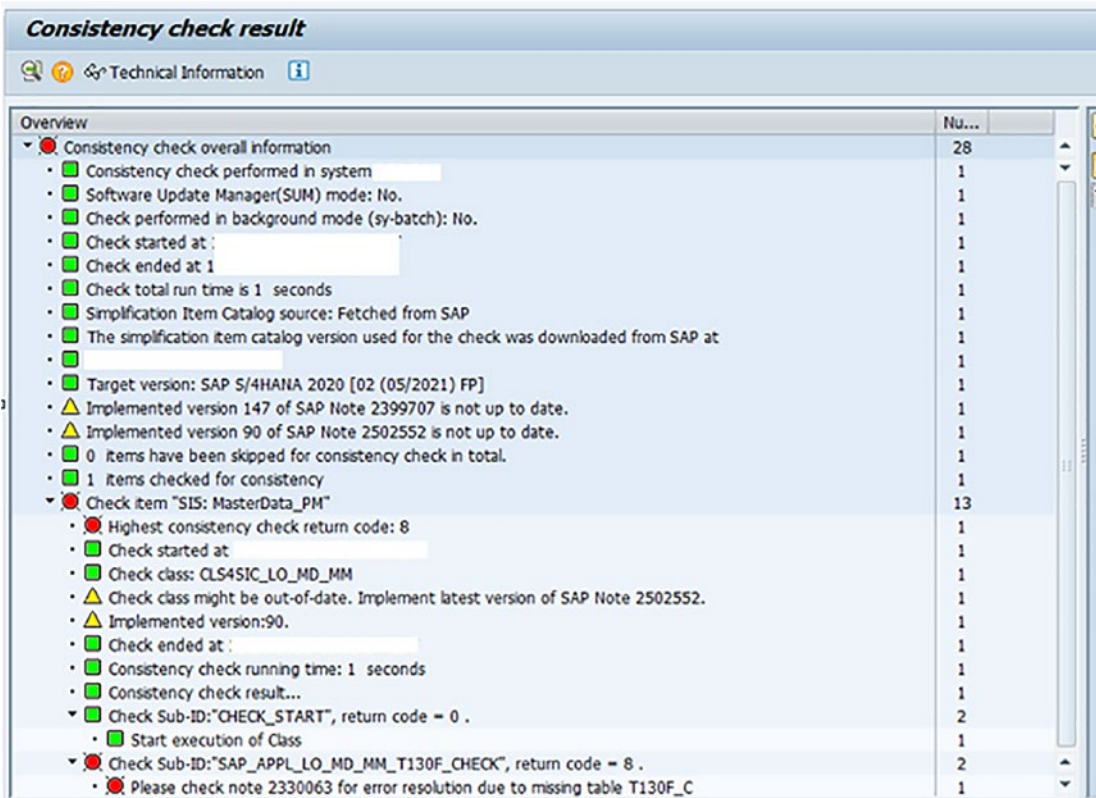


Figure 5-97. Consistency check result

Before any corrective actions, check tables T130F and T130F\_C (see Figure 5-98).

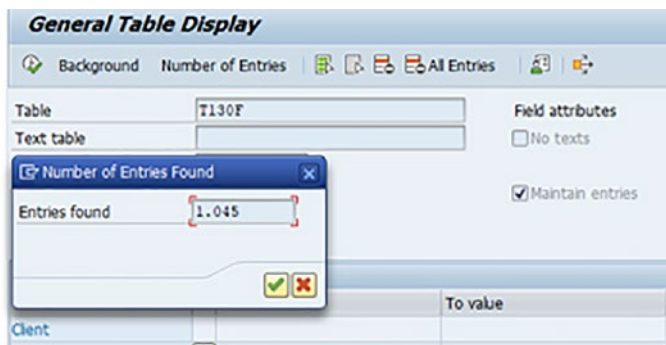
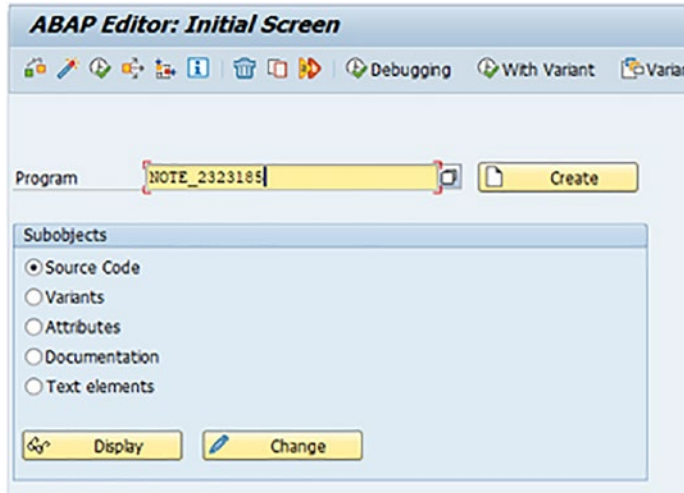


Figure 5-98. Table T130F

If there is an error that says that the T130F\_C table is missing, check Note 2330063 for error resolution.

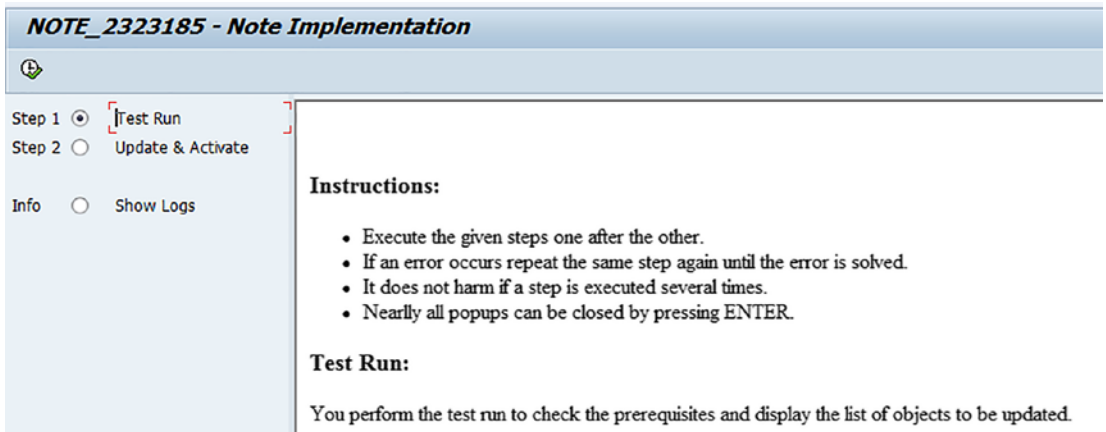


As per 2330063, NOTE\_2323185 should be implemented in the source system (see Figure 5-99).



**Figure 5-99.** NOTE\_2323185

**Step 1:** Execute the test run (see Figure 5-100).



**Figure 5-100.** NOTE\_2323185 test run

**Step 2:** Update and activate. the System creates the T130F\_C table.

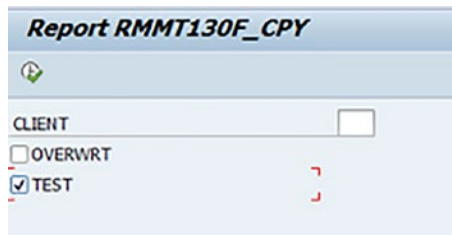
**Step 3:** Change the log (see Figure 5-101).

Ty...	Obj.	Object Name	Message Text
			Running in Update Mode
	TABD	T130F_C	Create Table Definition ( language EN )
	TABD	T130F_C	Update successful
	TABD	T130F_C	Add field(s) to table
	TABD	T130F_C	Field MANDT will be added
	TABD	T130F_C	Field FNAME will be added
	TABD	T130F_C	Field KZREF will be added
	TABD	T130F_C	Field REFTY will be added
	TABD	T130F_C	Field KZCPY will be added
	TABD	T130F_C	Field RFINI will be added
	TABD	T130F_C	Change Table Definition ( language EN )
	TABD	T130F_C	No update necessary
		Activation	DDIC activation successful
		Detailed Log	Click this message to view detailed activation logs with name NOTE_2323185:3

**Figure 5-101.** Change log

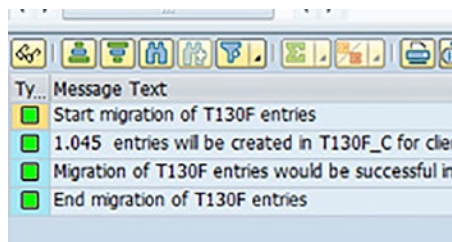
Verify the table entries in T130F\_C; there are no values. Execute the migration report RMMT130F\_CPY. (This report should be executed for all clients.)

Execute a test run and uncheck the test run after the desired results (see Figure 5-102).



**Figure 5-102.** Report RMMT130F\_CPY

The result is shown in Figure 5-103.



**Figure 5-103.** Result of migration report

Entries are updated to T130F\_C that are copied from the T130F table (see Figure 5-104).

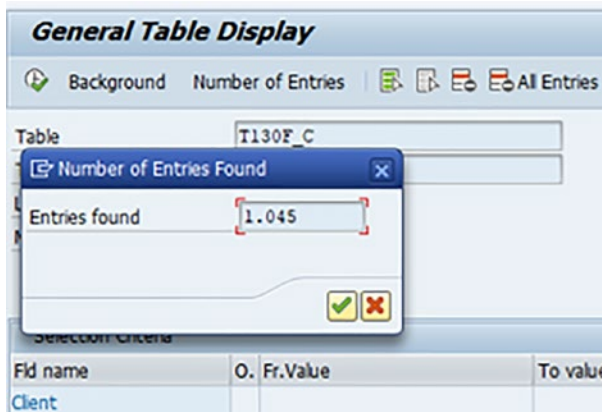


Figure 5-104. The T130F\_C table

## SI32: Logistics\_PLM

See Figures 5-105 and 5-106.

Simplification Item List - SAP S/4HANA 1909 [02 (05/2020) FP]								
Relevance	Last	Cons.	Exemptio.	ID	Title	Job/Technology	Business Area	Category
▲	●	●	○	SI2: MasterData_BP	S4TWL - Business Partner Approach	Database and Data Management	Enterprise Information Management	Change of exist
▲	●	●	○	SI32: Logistics_PLM	S4TWL - Classification - Data Cleanup before Migration	R&D/Engineering	Product Lifecycle Management	Change of exist

Figure 5-105. Logistics PLM

<b>Consistency check result</b>	
Technical Information  Help	
Overview	Nu...
<ul style="list-style-type: none"> <li> <span style="color: red;">●</span> Consistency check overall information                             <ul style="list-style-type: none"> <li><span style="color: green;">■</span> Consistency check performed in system ) 1</li> <li><span style="color: green;">■</span> Software Update Manager(SUM) mode: No. 1</li> <li><span style="color: green;">■</span> Check performed in background mode (sy-batch): No. 1</li> <li><span style="color: green;">■</span> Check started at 20.08.2020 11:13:48 EST 1</li> <li><span style="color: green;">■</span> Check ended at 20.08.2020 11:13:48 EST 1</li> <li><span style="color: green;">■</span> Check total run time is 0 seconds 1</li> <li><span style="color: green;">■</span> Simplification Item Catalog source: Uploaded from file 1</li> <li><span style="color: green;">■</span> The simplification item catalog version used for the check was downloaded from SAP at 13.08.2020 04:23:20 UTC 1</li> <li><span style="color: green;">■</span> Target version: SAP S/4HANA 1909 [02 (05/2020) FP] 1</li> <li><span style="color: green;">■</span> Latest version 135 of SAP Note 2399707 is implemented. 1</li> <li><span style="color: green;">■</span> Latest version 78 of SAP Note 2502552 is implemented. 1</li> <li><span style="color: green;">■</span> 0 items have been skipped for consistency check in total. 1</li> <li><span style="color: green;">■</span> 1 items checked for consistency 1</li> </ul> </li> <li> <span style="color: red;">●</span> Check item "SI32: Logistics_PLM" 7                             <ul style="list-style-type: none"> <li><span style="color: red;">●</span> Highest consistency check return code: 12 1</li> <li><span style="color: green;">■</span> Check started at 20.08.2020 11:13:48 EST 1</li> <li><span style="color: green;">■</span> Check class: CLS4SIC_INOB_DUPE_CHECK 1</li> <li><span style="color: red;">●</span> CLS4SIC_INOB_DUPE_CHECK not found; check the implementation status of SAP Note 2943919. 1</li> <li><span style="color: green;">■</span> Check ended at 20.08.2020 11:13:48 EST 1</li> <li><span style="color: green;">■</span> Consistency check running time: 0 seconds 1</li> </ul> </li> </ul>	

**Figure 5-106.** Consistency check results

Execute the corrective notes from SNOTE, Note 2943919 (see Figures 5-107 and 5-108).



## SI5: Masterdata\_PM

▲	●	●	SI2: GENERIC_CHECKS	S4TWL - Generic Check for SAP S/4HANA Conversion an	IT Management	Administration and Usability	Change of exist
▲	●	●	SI2: Logistics_PP-MRP	S4TWL - Storage Location MRP	Manufacturing	Production Planning	Functionality ur
▲	●	▲	SI3: HR_LEARN	S4TWL - SAP Learning Solution	Human Resources	Core HR and Time Recording	Functionality ur
▲	●	●	SI5: MasterData_PM	S4TWL - Simplification of copy/reference handling	Database and Data Management	Enterprise Information Management	Change of exist
▲	▲	●	SI1: Logistics_MM-IM	S4TWL - DATA MODEL IN INVENTORY MANAGEMENT	Suoviv Chan	Inventory	Change of exist

Figure 5-107. Master data PM

Consistency check result	
Overview	
	Nu...
● Consistency check overall information	26
● Consistency check performed in system	1
● Software Update Manager(SUM) mode: No.	1
● Check performed in background mode (sy-batch): No.	1
● Check started at 20.08.2020 11:23:06 EST	1
● Check ended at 20.08.2020 11:23:06 EST	1
● Check total run time is 0 seconds	1
● Simplification Item Catalog source: Uploaded from file	1
● The simplification item catalog version used for the check was downloaded from SAP at	1
● 13.08.2020 04:23:20 UTC	1
● Target version: SAP S/4HANA 1909 [02 (05/2020) FP]	1
● Latest version 135 of SAP Note 2399707 is implemented.	1
● Latest version 78 of SAP Note 2502552 is implemented.	1
● 0 items have been skipped for consistency check in total.	1
● 1 items checked for consistency	1
● Check item "SI5: MasterData_PM"	11
● Highest consistency check return code: 8	1
● Check started at 20.08.2020 11:23:06 EST	1
● Check class: CLS453C_LO_MD_MM	1
● Check ended at 20.08.2020 11:23:06 EST	1
● Consistency check running time: 0 seconds	1
● Consistency check result...	1
● Check Sub-ID:"CHECK_START", return code = 0 .	2
● Check Sub-ID:"SAP_APP1_LO_MD_MM_T130F_CHECK", return code = 8 .	2
● Please check note 2330063 for error resolution due to missing table T130F_C	1

Figure 5-108. Consistency check results

Execute the corrective notes from SNOTE, Note 23300063.

## SI2: Logistics\_PP-MRP

See Figures 5-109 to 5-111.

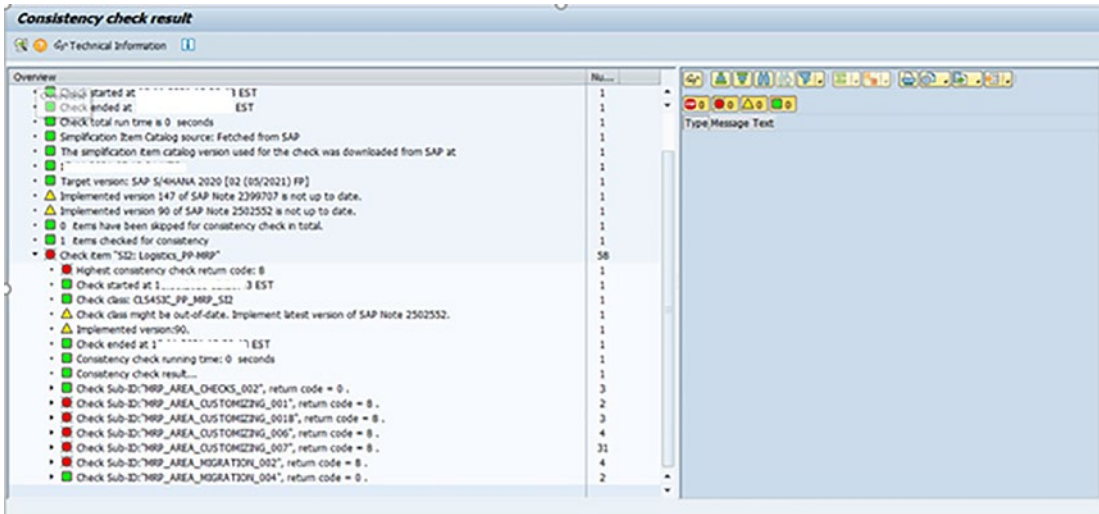


Figure 5-109. Logistics\_PP-MRP

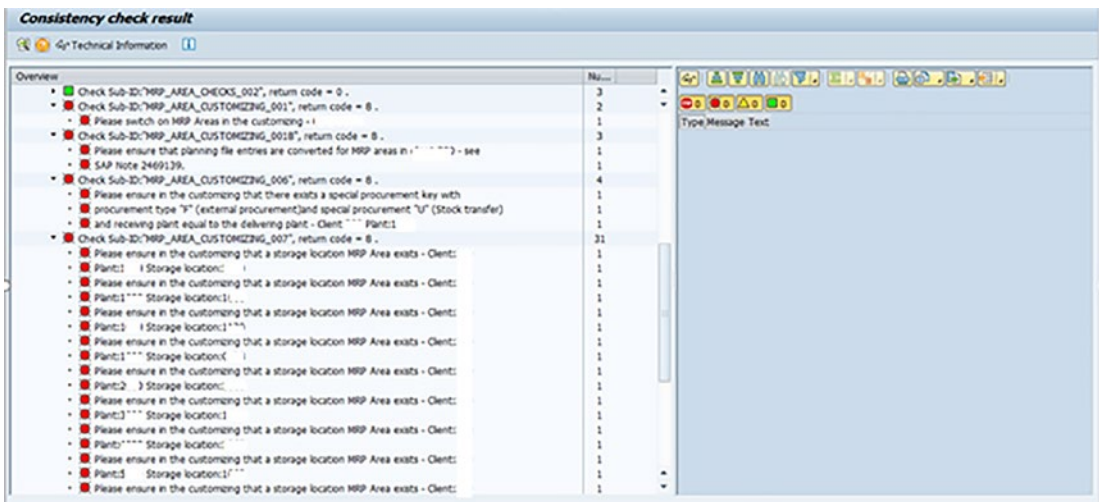


Figure 5-110. Logistics\_PP-MRP

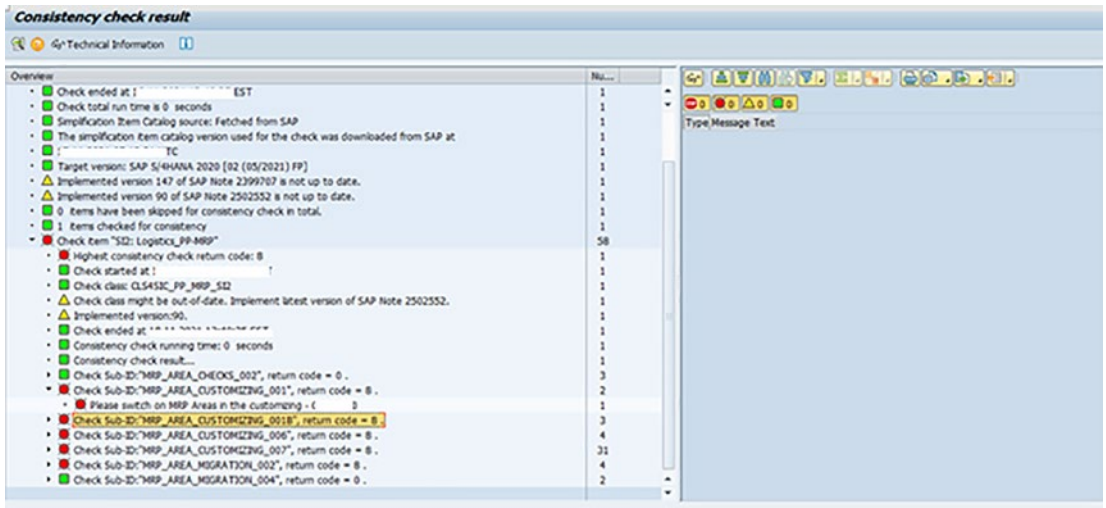


Figure 5-111. Consistency check results

Corrective actions:

1. Convert the planning file entries (see Figures 5-112 and 5-113).

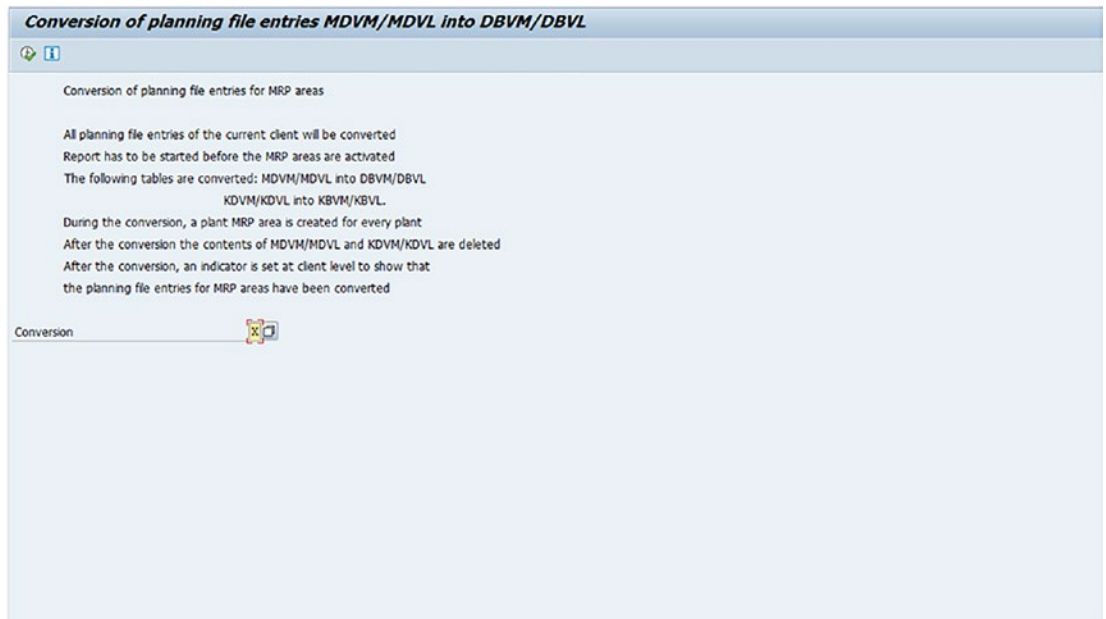


Figure 5-112. Conversion of planning



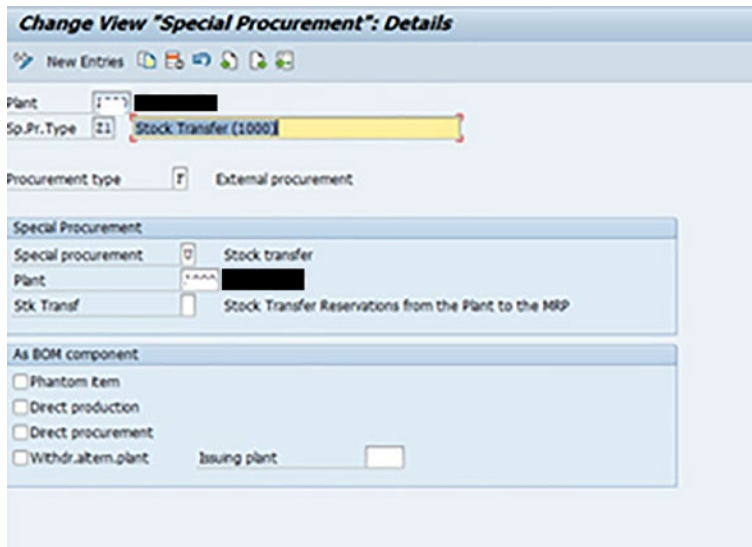
Figure 5-113. Conversion of planning file entries

- 2. Activate the MRP areas (see Figure 5-114).



Figure 5-114. Activation of MRP areas

- 3. Maintain a special procurement type when customizing for stock transfers within the same plant (see Figure 5-115).



**Figure 5-115.** Maintain special procurement

4. Verify MRP Type ND with MRP Procedure N (see Figure 5-116).



**Figure 5-116.** MRP types

MRP AREA for Plant:\*\*\*\* Storage location: \*\*\*\* (see Figure 5-117).

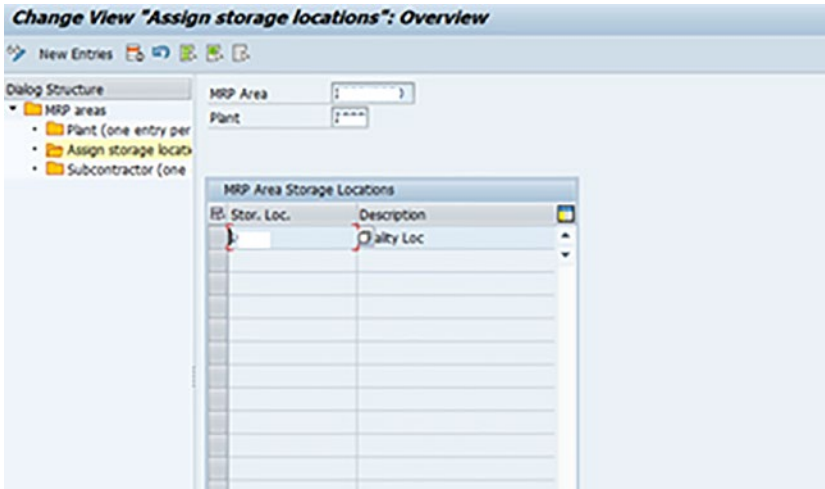


Figure 5-117. Assign storage location

## Module SD

See Figure 5-118.

SAP

Check Consistency for All Check Consistency Details Display Consistency Check Log Apply/Revoke Exemption Display Exemption Log

Simplification Item List - SAP S/4HANA 2020 [02 (05/2021) FP]

Exemption ID	Title	Lob/Technology	Business Area
SI2: SD_PRIC	S4TWL - Data Model Changes in SD Pricing	Sales	Order and Contract Management
SI14: SD_BILLING_CM	S4TWL - Billing Document Output Management	Sales	Order and Contract Management
SI16: SD_Miscellaneous minor deprecations in S	S4TWL - Miscellaneous minor functionalities in SD Area	Sales	Order and Contract Management
SI1: SD_GENERAL	S4TWL - SD Simplified Data Models	Sales	Order and Contract Management
SI4: SD_CM	S4TWL - Credit Management	Sales	Order and Contract Management
SI8: MasterData PM	S4TWL - Material Type SERV	Service	Service Master Data & Agreement M
SI1: CS_CIC	S4TWL - Customer Interaction Center (CIC)	Service	Service Operations & Processes
SI7: SD_ANA	S4TWL - Simplification in SD Analytics	Sales	Order and Contract Management
SI01: CS	S4TWL - Customer Service	Service	Service Operations & Processes
SI10: SD_ROLES	S4TWL - Business Role Internal Sales Representative	Sales	Order and Contract Management
SI13: SD_CAS	S4TWL - Sales Activities	Sales	Sales Force Support

Figure 5-118. Simplification Item List SD

Corrective actions:

**1. SI2: SD\_PRIC - Data Model Changes in SD Pricing**

Refer to SAP Note 2267308.

Data model simplifications in Sales and Distribution (SD) pricing have been made.



The following DDIC changes and interface changes have been made to the condition technique:

- DDIC changes
- Interface changes

Elements in KONV have also been changed. You need to make all the ABAP changes. No impact on business processes is expected.

## **2. SI14: SD\_BILLING\_OM: Billing Document Output Management**

Refer to SAP Note 2267376.

The new output management for SAP S/4HANA, called SAP S/4HANA output control, was introduced.

SAP S/4HANA output control only supports the “pure” output channels, while the NAST-based output can also be used for several kinds of post-processing.

SAP S/4HANA output control cannot be used if one of the following NAST transmission mediums is required:

- Eight special functions
- Nine events (SAP Business Workflow)
- A distribution (ALE)
- T tasks (SAP Business Workflow)

In this case, switch back to NAST-based output management. Choose Application Inactive if you want to switch back to NAST.

## **3. SI16: SD\_Miscellaneous minor deprecations in SD Area**

Refer to SAP Note 2267395.

In SAP S/4HANA, only the most recent and most comprehensive version is available for many of these objects. Deprecated versions have been disabled. In the SD area, a couple of deprecated BAPI function modules and SAPGUI transactions have been disabled. SAP Note 2228098 contains a list of objects not available in SAP S/4HANA and, if available, the respective successors object.



In the SD area, a couple of deprecated BAPI function modules and SAPGUI transactions have been disabled.

It is recommended to use the successor object instead of the deprecated object.

You need to make all the ABAP changes. No impact on business processes expected.

#### 4. **SI1: SD\_GENERAL - SD Simplified Data Models**

Refer to SAP Note 2267306.

The following data model simplifications have been implemented for the SD area:

- Eliminate the status tables VBUK and VBUP: Status fields have been moved to the corresponding header and item tables - VBAK and VBAP for sales documents, LIKP and LIPS for deliveries, and VBRK for billing documents.

This leads to increased performance:

- Selection of document header data and document header status requires one SELECT statement (VBAK) instead of two SELECT statements (VBAK and VBUK). This is similar for the item tables.

Views containing document header data and document header status can be built without the JOIN condition.

- Simplification of document flow table VBFA
- Field length extension of SD document category
- Data element VBTYP (Char1) has been replaced by data element VBTYPL (Char4)
- Field VBTYP\_EXT (Char4) has been eliminated
- Elimination of redundancies: Document index tables VAKPA, VAPMA, VLKPA, VLPMA, VRKPA, and VRPMA
- Elimination of redundancies

- Rebate index table VBOX: See simplification item “SD Rebate Processing replaced by Settlement Management,” SAP Note 2267377
- LIS tables S066, S067: See simplification item “Credit Management,” SAP Note 2270544

The changes are described in more detail in the guidelines attached to the related SAP Note 2198647.

You need to make all the ABAP changes. No effects on business processes are expected.

#### **5. SI4: SD\_CM 2270544 - Credit Management**

Credit Management (FI-AR-CR) is not available as part of SAP S/4HANA. The functional equivalent in SAP S/4HANA is SAP Credit Management (FIN-FSCM-CR).

Analyze the current system. If FI-AR-CR based credit management is active or not.

Indicators for the use of FI-AR-CR Credit Management are as follows:

- If you are using transaction FD31 or FD32 to maintain credit account master data (this data is stored in the KNKK and KNKA tables)
- If you are using transactions VKM1-4 to process sales documents (e.g., releasing blocked sales orders)
- Verify if exposure data is stored and updated continuously in database tables S066 and S067















You then need to convert to FIN-FSCM-CR based credit management.

#### **6. SI7: SD\_ANA - Simplification in SD Analytics**

Refer to SAP Note 2267348.

You need to analyze this by ABAP team for possible use.

7. **SI5: SD\_RRn** (see Figure 5-119).

•  Latest version 92 of SAP Note 2502552 is implemented.	1
•  0 items have been skipped for consistency check in total.	1
•  1 items checked for consistency	1
▼  Check item "SI5: SD_RRn"	11
•  Highest consistency check return code: 7	1
•  Skip-able consistency error found, exemption can be applied to the item in simplification	1
•  item list.	1
•  Check started at 24.12.2021 08:26:03 CET	1
•  Check class: CLS4SIC_SD_BIL_RA	1
•  Check ended at 24.12.2021 08:26:03 CET	1
•  Consistency check running time: 0 seconds	1
•  Consistency check result...	1
▼  Check Sub-ID:"SAP_SD_BIL_RA_CHECK_REVFIX", return code = 7 .	2
•  Migration from SD Revenue Recognition to Revenue Accounting required. See SAP note 2777486	1

**Figure 5-119.** Consistency check

Check Sub ID: SAP\_SD\_BIL\_RA\_CHECK\_REVFIX (see Figure 5-120).

Migration from SD Revenue Recognition to Revenue Accounting required. See SAP Note 2777486.

1. **Check Sub ID: SAP\_SD\_BIL\_RA\_CHECK\_REVFIX (Skippable Error)**

Error Message: Migration from SD Revenue Recognition to Revenue Accounting required. See SAP note 2777486

No SD Revenue Recognition Lines (VBREVE) with REVFIX = M have been found. Because the flag VBREVE-REVFIX (Fixed Revenue Line Indicator) ist set to "M" during the migration process with FARRIC\_OL this means that no data has been migrated.

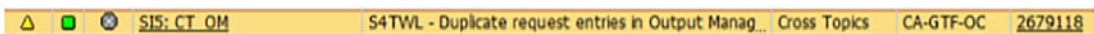
**Figure 5-120.** SAP Note 2777486

As per SAP Note 2777486, this is a skippable error.

## Warnings

### SI5: CT\_OM

See Figures 5-121 and 5-122.



**Figure 5-121.** CT\_OM

Consistency check result	
Technical Information  Help	
Overview	Nu...
<ul style="list-style-type: none"> <li>▼  Consistency check overall information 32</li> <li>•  Consistency check performed in system 1</li> <li>•  Software Update Manager(SUM) mode: No. 1</li> <li>•  Check performed in background mode (sy-batch): No. 1</li> <li>•  Check started at 18.06.2020 20:28:03 CET 1</li> <li>•  Check ended at 18.06.2020 20:28:04 CET 1</li> <li>•  Check total run time is 1 seconds 1</li> <li>•  Simplification Item Catalog source: Fetched from SAP 1</li> <li>•  The simplification item catalog version used for the check was downloaded from SAP at 1</li> <li>•  18.06.2020 17:41:17 UTC 1</li> <li>•  Target version: SAP S/4HANA 1909 [02 (05/2020) FP] 1</li> <li>•  Latest version 133 of SAP Note 2399707 is implemented. 1</li> <li>•  Latest version 76 of SAP Note 2502552 is implemented. 1</li> <li>•  0 items have been skipped for consistency check in total. 1</li> <li>•  1 items checked for consistency 1</li> <li>▼  Check item "SIS: CT_OM" 17</li> <li>•  Highest consistency check return code: 0 1</li> <li>•  Check started at 18.06.2020 20:28:04 CET 1</li> <li>•  Check class: CLS453C_APOC_CHECK_DUPL_ENTR 1</li> <li>•  Check class might be out-of-date. Implement latest version of SAP Note 2679118. 1</li> <li>•  Implemented version:. 1</li> <li>•  Check ended at 18.06.2020 20:28:04 CET 1</li> <li>•  Consistency check running time: 0 seconds 1</li> <li>•  Consistency check result... 1</li> <li>•  Check Sub-ID:"CHECK_START", return code = 0 . 2</li> <li>•  Start execution of Class 1</li> <li>▼  Check Sub-ID:"CHK_DUPLICATES_IN_ROOT", return code = 0 . 2               <ul style="list-style-type: none"> <li>•  No duplicate entries in APOC_D_OR_ROOT. 1</li> </ul> </li> <li>▼  Check Sub-ID:"CHK_DUPLICATES_IN_ITEM", return code = 0 . 2               <ul style="list-style-type: none"> <li>•  No duplicate entries in APOC_D_OR_ITEM 1</li> </ul> </li> <li>▼  Check Sub-ID:"CHK_DUPLICATES_IN_ITEM_E", return code = 0 . 2               <ul style="list-style-type: none"> <li>•  No duplicate entries in APOC_D_OR_ITEM_E. 1</li> </ul> </li> </ul>	

**Figure 5-122.** Consistency check results

As per Note 2679118, any duplicate entries in the following tables must be deleted:

- APOC\_D\_OR\_ROOT
- APOC\_D\_OR\_ITEM
- APOC\_D\_OR\_ITEM\_A
- APOC\_D\_OR\_ITEM\_E

# Important Checks in FI-GL Before Conversion in the ECC System

You need to conduct SI checks with the /SDF/RC\_START\_CHECK program via SE38. The Simplification Item check item ID SI1\_FI\_GL shows checks for the General Ledger (see Figure 5-123).

Relevance	Last. Con.	Exempti.	ID	Title	Lob/Technology	Business Area
△	●	⊙	SI2: MasterData_BP	S4TYVL - Business Partner Approach	Database and Data Management	Enterprise Information Management
△	●	⊙	SI1: Logistics_MMJM	S4TYVL - DATA MODEL IN INVENTORY MANAGEMENT (	Supply Chain	Inventory
△	△	⊙	SI1_FIN_GL	S4TYVL - GENERAL LEDGER	Finance	Accounting and Financial Close

Figure 5-123. Simplification item check

After fixing the error, you will see the results in Figure 5-124.

Overview	Nu...
• Check ended at 21.11.2021 07:10:28 EST	1
• Check total run time is 1 seconds	1
• Simplification Item Catalog source: Fetched from SAP	1
• The simplification item catalog version used for the check was downloaded from SAP at	1
• 17.11.2021 07:12:21 UTC	1
• Target version: SAP S/4HANA 2020 [02 (05/2021) FP]	1
• Implemented version 147 of SAP Note 2399707 is not up to date.	1
• Implemented version 90 of SAP Note 2502552 is not up to date.	1
• 0 items have been skipped for consistency check in total.	1
• 1 items checked for consistency	1
▼ Check item "SI1_FIN_GL"	32
• Highest consistency check return code: 4	1
• Check started at 21.11.2021 07:10:27 EST	1
• Check class: CLS4SIC_FI_GL	1
• Check class might be out-of-date. Implement latest version of SAP Note 2502552.	1
• Implemented version:90.	1
• Check ended at 21.11.2021 07:10:28 EST	1
• Consistency check running time: 1 seconds	1
• Consistency check result...	1
▶ Check Sub-ID:"FI_GL_GENERAL_FI_CO", return code = 4 .	3
▶ Check Sub-ID:"FI_GL_AGG_SEVERITY", return code = 4 .	3
▶ Check Sub-ID:"FI_GL_START", return code = 4 .	2
▶ Check Sub-ID:"FI_GL_04", return code = 4 .	3
▶ Check Sub-ID:"FI_GL_05", return code = 4 .	5
▶ Check Sub-ID:"FI_GL_34", return code = 4 .	3
▶ Check Sub-ID:"FI_GL_35", return code = 4 .	2
▶ Check Sub-ID:"FI_GL_END", return code = 4 .	2

Figure 5-124. Consistency Check results

You need to find the potential root cause of the error and resolve it. The SI Check Report is verified in all clients of the system except in 000 and 066, as client 000 is a technical client and client 066 is Early Watch Client. So there is no need to check them.

There are Sub ID of these checks, which you can see in detail in Figure 5-125.

Consistency check result	
Technical Information	
Overview	Nu...
•  Check class: CLS4SIC_FI_GL	1
•  Check class might be out-of-date. Implement latest version of SAP Note 2502552.	1
•  Implemented version:90.	1
•  Check ended at 21.11.2021 07:10:28 EST	1
•  Consistency check running time: 1 seconds	1
•  Consistency check result...	1
▼  Check Sub-ID:"FI_GL_GENERAL_FI_CO", return code = 4 ✓	3
•  CO and FI-GL postings are integrated by design in S/4HANA:Reconciliation posting/real-time	1
•  integration CO-FI is obsolete.	1
▼  Check Sub-ID:"FI_GL_AGG_SEVERITY", return code = 4 .	3
•  Maximum severity of occurred messages for client 300: Warning. See SAP Note 2245333 for	1
•  possible solutions	1
▼  Check Sub-ID:"FI_GL_START", return code = 4 . ✓	2
•  Begin of check results for client [redacted]	1
▼  Check Sub-ID:"FI_GL_04", return code = 4 ✓	3
•  Activate the company code validation (CO area ES01 / FiscYr 1995)	1
•  Activate the company code validation (CO area HU01 / FiscYr 1997)	1
▼  Check Sub-ID:"FI_GL_05", return code = 4 .	5
•  Activate control indicator "All Currencies" (CO area 0MB1 / FiscYr 1990)	1
•  Activate control indicator "All Currencies" (CO area ES01 / FiscYr 1995)	1
•  Activate control indicator "All Currencies" (CO area FR01 / FiscYr 1995)	1
•  Activate control indicator "All Currencies" (CO area PT01 / FiscYr 1995)	1
▼  Check Sub-ID:"FI_GL_34", return code = 4 . ✓	3
•  Account determination for transfer of CO postings into FI (transaction OK17) is not called	1
•  anymore.	1
▶  Check Sub-ID:"FI_GL_35", return code = 4 ✓	2
▶  Check Sub-ID:"FI_GL_END", return code = 4 ✓	2

**Figure 5-125.** Consistency Check results

You have to verify all the sub IDs and fix the errors as per SAP specified SAP Note on the screen.

Check 1: Reconcile FI-AA with FI-GL

Transaction: ABST/ABST2

All the differences must be eliminated prior to the conversion process (see Figure 5-126).



**Reconcil. prog. FI-AA <-> General ledger / adjustmt posting (Analysis)**

Sc	Ld	Doc.no.	Peri..	Year	Σ	1stLCDelta	2ndLCDelta
AS	OL			2021		11.014,78	11.014,78
				2021		11.014,78-	11.014,78-
				2021		855.826,38-	855.826,38-
				2021		855.826,38	855.826,38
				2021		1.528,17	1.528,17
				2021		774.208,47	774.208,47
				2021		774.208,47-	774.208,47-
				2021		7.563,10-	7.563,10-

Figure 5-126. ABST2 results

Check 2: Reconcile Accounts Payables and Accounts Receivables with Main GL using Reports SAPF190/TFC\_compare\_VZ (see Figure 5-127).

**Comparison of Document Transaction Figures**

CoCode	Ld	Year	Period	Account	D/C	TC Amount	Crcy	LC Amount	Crcy 1	Amnt in GC	Crcy 2	OthCrcyAmt	Crcy 3	Messages
	OL		1											No differences occurred
	OL		2											No differences occurred
	OL		3											No differences occurred
	OL		4											No differences occurred
	OL		5											No differences occurred
	OL		6											No differences occurred
	OL		7											No differences occurred
	OL		8											No differences occurred
	OL		9											No differences occurred
	OL		10											No differences occurred

Figure 5-127. TFC\_COMPARE\_VZ

Check 3: Reconcile MM with GL

Programs: RM07MBST/RM07MMFI (see Figure 5-128)



**List of Stock Values: Balances**

Bal. per	CoCd	Materials Crcy		Stock Account Crcy		Variance Crcy
G/L acct						
11/2021	000					
00000		898.627.104,94	EUR	5.764.959,72	EUR	892.862.145,22- EUR
00010		61.624,66	EUR	0,00	EUR	61.624,66- EUR
03000		762.797,70	EUR	0,00	EUR	762.797,70- EUR
04000		20.675.425,84	EUR	0,00	EUR	20.675.425,84- EUR
05000		5.267.704,04	EUR	0,00	EUR	5.267.704,04- EUR
10000		2.577.692.587,55	EUR	3.507.750,00	EUR	2.574.184.837,55- EUR
90000		5.886.709.769,30	EUR	10.637.205,28	EUR	5.876.072.564,02- EUR
90010		12.797,40	EUR	592,17	EUR	12.205,23- EUR
92000		690.827.541,85	EUR	1.343.835,98	EUR	689.483.705,87- EUR
<b>Total</b>						
			EUR		EUR	- EUR

Figure 5-128. Programs RM07MBST/RM07MMFI

Check 4: Reconcile Ledger: Transaction GCAC (see Figure 5-129)

**Ledger Comparison: Totals**

Comparison of

Record Type 0  
 Base Ledger 00 G/L Acct Transaction Figures  
 Base Ledger Version 000 FI planning version 0 ledger 0  
 Comparison Ledger 0L Leading Ledger  
 Comparison Ldgr Vers 000  
 Fiscal Year 2021  
 From Period 1  
 To Period 12

CoCd	Account	Crcy	Year	BaseLedger	CompLedger	Difference
List does not contain any data						

Figure 5-129. GCAC results

Check 5: Check FI documents with FI balance: F.03/FAGLF03

## Conclusions

Typically, conversions, upgrades, and migrations are stressful and frustrating for customers and consultants, as they involve risk in migrating the data from the source to the target system. To avoid risk and to minimize stress, the stakeholders must plan for the preparation and realization phase activities very carefully.

During the discovery phase, there is much to analyze on the source system. This analysis helps you make a list of preparation and realization activities and schedule them for a smoother transition to SAP S/4HANA.

Successful conversion projects are driven by effective planning and preparation of the source system.

## CHAPTER 6

# Preparation Phase (Preparation for Conversion of SAP ECC Asset Accounting to SAP S/4HANA New Asset Accounting) – Part 2

This chapter provides configuration and other activities to be completed as a part of preparation. This lesson focuses completely on Asset Accounting. Asset Accounting needs special attention, as there are several changes in this module.

In SAP S/4HANA, “New Asset Accounting” is the only Asset Accounting functionality. Classic asset accounting is not available once you move to SAP S/4HANA. You need to complete the basic configuration as a preparation activity for conversion before you execute SUM on the ECC system. The new Asset Accounting activation is at the client level. The Ledger and Account approaches are available after moving to S/4HANA.

SAP ECC to SAP S/4HANA Conversion happens broadly in two phases—the Preparation and Realization phases.

The Software Update Manager (SUM) supports these conversion activities. During the preparation phase, a simplification check is performed to determine the prerequisites for installing SAP S/4HANA.

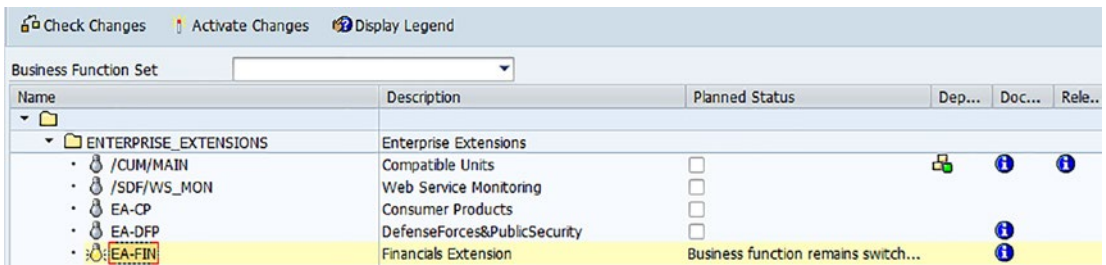
SUM can be executed only after the prerequisites have been met (that means the SI check should not have any errors). After SUM, you need to prepare for the Conversion cockpit, then the transaction data can be migrated.

## Conversion/Migration Scenarios

1. Even if you are using classic Asset Accounting on ECC, New Asset Accounting on ECC, or New Asset Accounting on HANA (ECC on HANA), migration to new Asset Accounting on S/4HANA is mandatory.
2. If you have never used classic Asset Accounting or new Asset Accounting, but are planning to implement new Asset Accounting on SAP S/4HANA, then the chart of depreciation migration is not needed.
3. If you are converting from SAP Simple Finance 1503 or 1605 (that is, Simple Finance 2.0 or Simple Finance 3.0), migration of chart of depreciation is not needed.
4. If you are upgrading from 1511 or 1610 or 1709 or 1809 or 1909 or 2020 to 2021 or higher versions (from one version of SAP S/4HANA to higher versions of SAP S/4HANA), migration of chart of depreciation is not needed.
5. All charts of depreciation that are assigned to a company code must be migrated. All the data of a company code must be migrated.

## EA-FIN Financial Extension

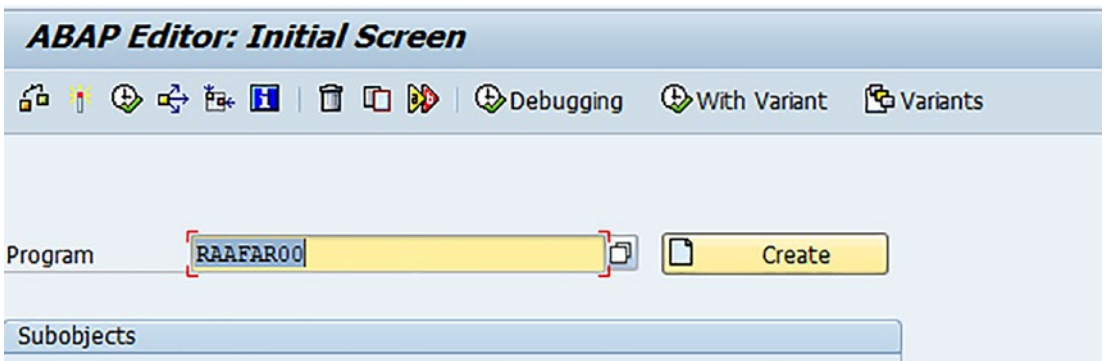
Using the new depreciation calculation engine is mandatory. Refer to SAP Note 1498047 on EA-FIN. If it is not activated in the source system, activate it in Sandbox system and test meticulously (see Figure 6-1).



**Figure 6-1.** EA-FIN activation

It is important to note that before the installation of the SAP S/4HANA, you must activate the Financials Extension (EA-FIN). If you need to activate the extension EA-FIN, refer to SAP Note 965032 before you activate it.

1. Create a test system with your production data.
2. Execute program RAAFAR00 in the test run first to make sure data in the old depreciation calculation is consistent (see Figures 6-2 to 6-4).



**Figure 6-2.** ABAP Editor: Initial screen

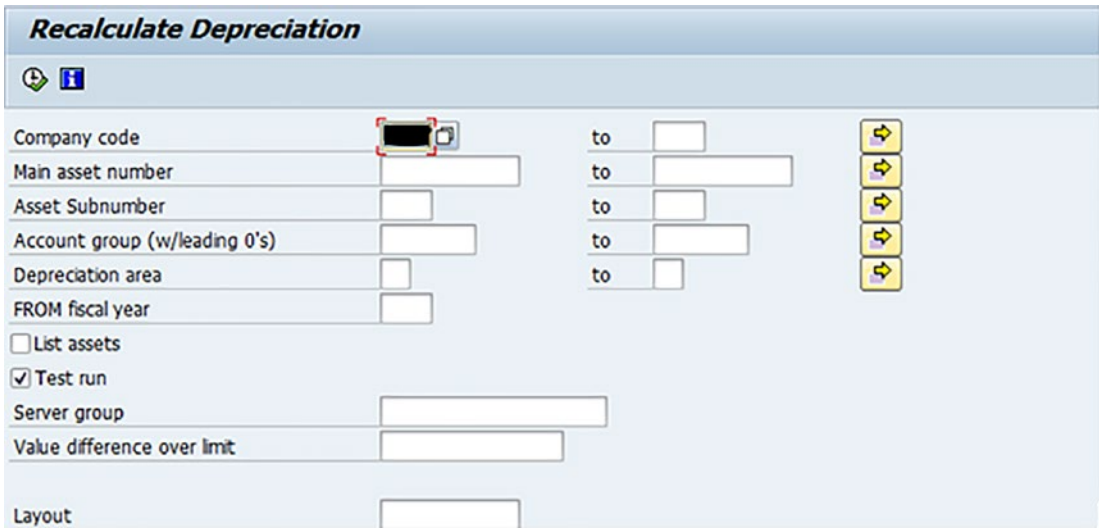


Figure 6-3. Recalculate depreciation

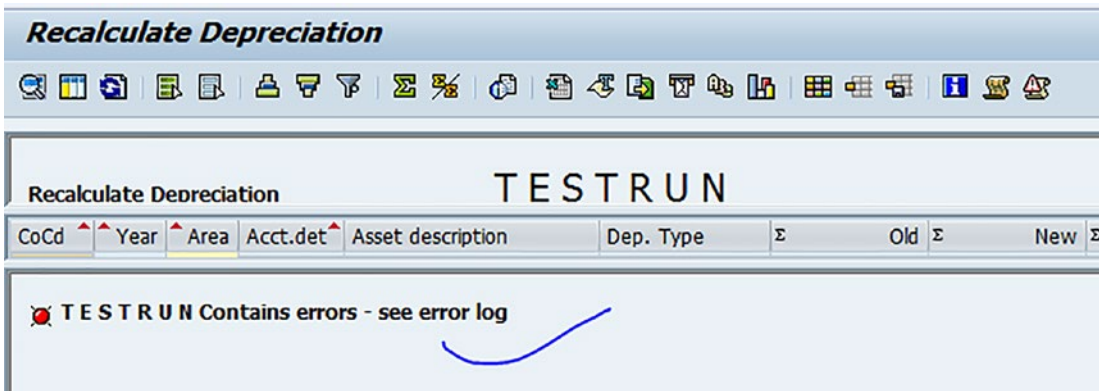


Figure 6-4. Program RAAFAR00

1. Analyze and fix the errors before you execute the update run.  
Refer to SAP Note 965032.
2. If all of the differences have been fixed, you can execute RAAFAR00 in the update run.
3. Activate EA-FIN. Note that this activation can no longer be undone. Refer to SAP Note 1121965 before activating.
4. Test your business processes.

5. Refer to SAP Note 1025126.
6. If all the business processes are working as desired, you can perform the same steps in the production system.

Before moving to SAP S/4HANA, you have to make sure all the prerequisites for new Asset Accounting are met. This is one of the requirements for moving to SAP S/4HANA.

## Example 2 Preparation Activity

Periodic asset postings, currencies:

1. Based on the source system functionality, verify if you have to execute the program RAPERB2000. Make sure that all the errors can be rectified. After conversion, this program is no longer available.
2. In the Source system, you might be having entries on OB22. Verify if you have implemented the corresponding parallel currency areas in Asset Accounting. If not, define additional depreciation areas for Group currencies.

In this example, we have two currencies for one company code: the Local Currency and the Global Currency (see Figure 6-5).

The screenshot shows the 'Company Code Settings for the Ledger' configuration in SAP. At the top, the 'Ledger' is set to '0L' and the 'Company Code' is '1710'. The main configuration area is divided into three sections:

- Company Code Settings:** Fiscal Year Variant is 'Cal. Year, 4 Special Periods', Posting period variant is 'Variant 1710', Accounting Principle is 'IG', and Functional Currency is '10 Company Code Currency (USD - US Dollar)'. There is an unchecked checkbox for 'Parallel Accounting Using G/L Accounts'.
- Local Currency - 1st FI Currency:** Currency Type is '10 Company Code Currency (USD - US Dollar)' and Source Currency Type is '00'.
- Global Currency - 2nd FI Currency:** Currency Type is '30 Group Currency (USD - US Dollar)' and Source Currency Type is '10 Company Code Currency (USD - US Dollar)'.

**Figure 6-5.** Ledger to company code

The ledger is 0L assigned to GAAP. The chart of depreciation must have two depreciation areas (see Figure 6-6).



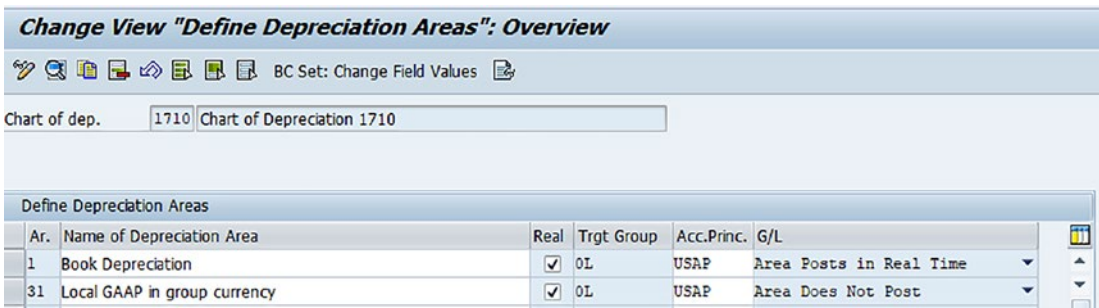


Figure 6-6. Depreciation area

Book depreciation posts in real-time and group depreciation does not post. This is only for reporting purposes.

- Make sure that no update terminates from direct postings in the system (see Figure 6-7).

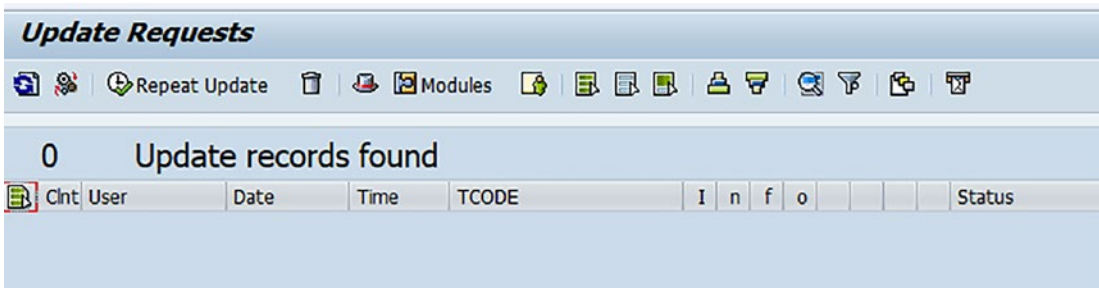


Figure 6-7. Update requests

Perform a complete period-end closing in Asset Accounting for the previous period to be closed. Execute the periodic depreciation posting run (RAPOST2000).

Reconcile your general ledger with the Asset Accounting subsidiary ledger, both for your leading valuation and for parallel valuations (see Figures 6-8 and 6-9).

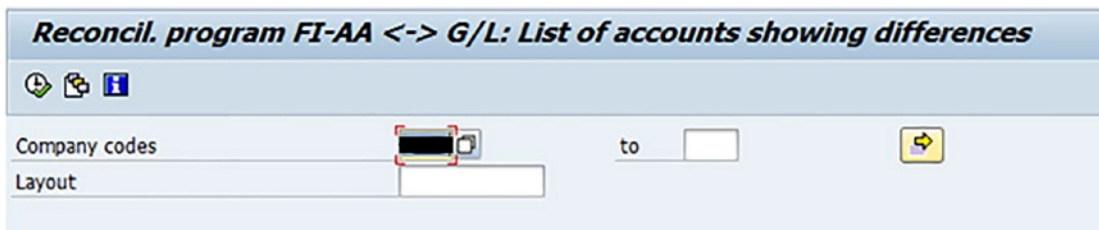
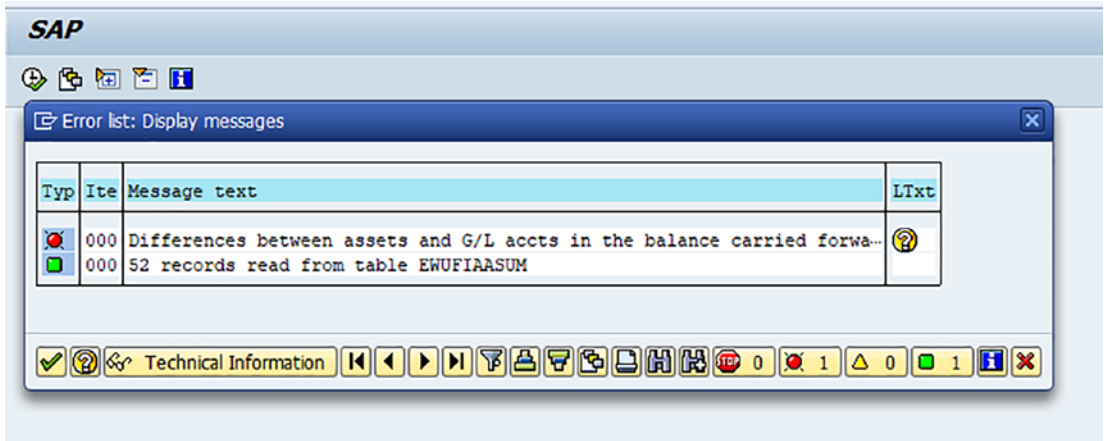
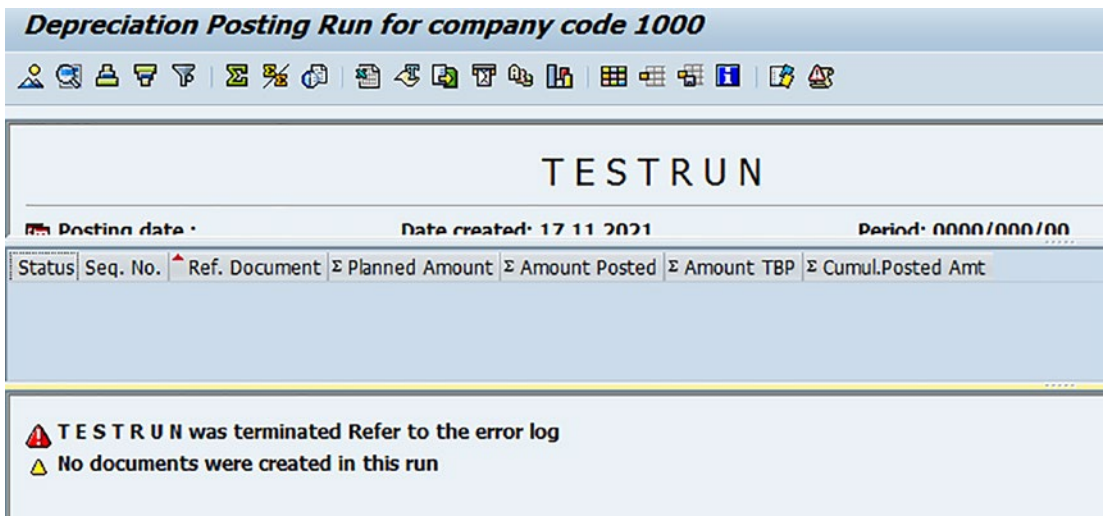


Figure 6-8. Reconcil. program



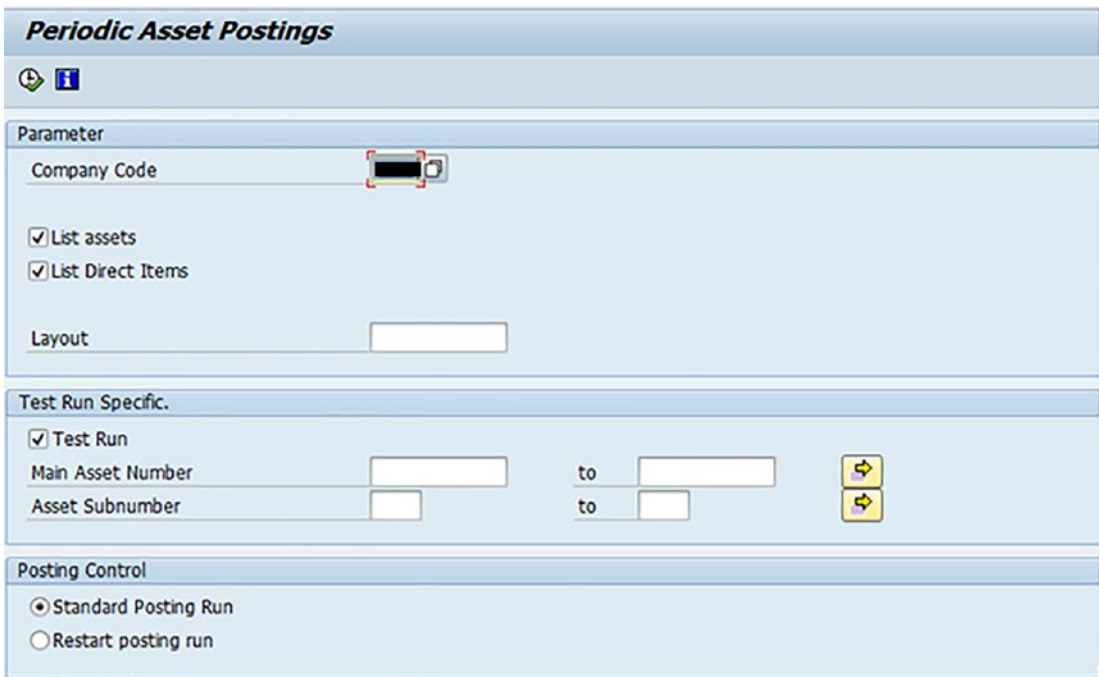
**Figure 6-9.** RAPOST2000

Execute the periodic APC postings (RAPERB2000) completely and without errors; a current timestamp must be set (see Figure 6-10).



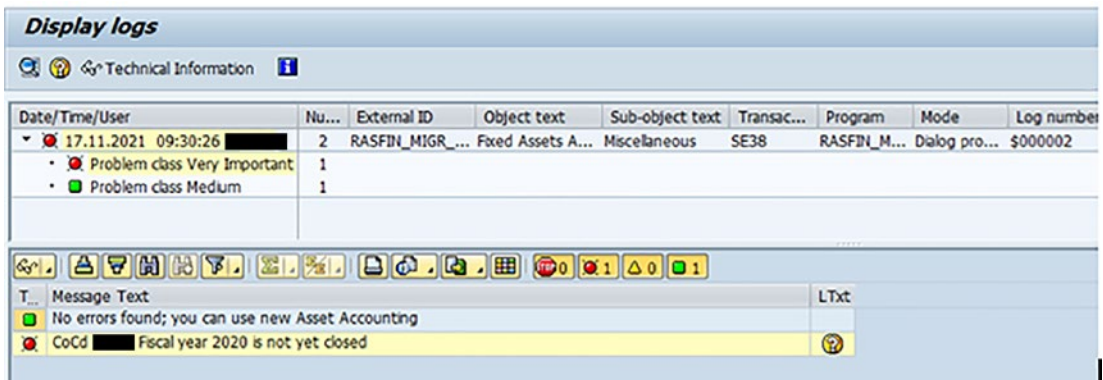
**Figure 6-10.** RAPERB2000

All periodic APC postings must be completed before SUM (see Figure 6-11).



**Figure 6-11.** Periodic Asset postings

The migration must take place at a time when only one fiscal year is open in Asset Accounting. If not, the system throws an error message, as prerequisites are not met for conversion (see Figure 6-12).



**Figure 6-12.** Display logs – RASFIN\_MIGR\_PRECHECK

The same appears as an error in the Simplification Item Check Report (see Figures 6-13 and 6-14).

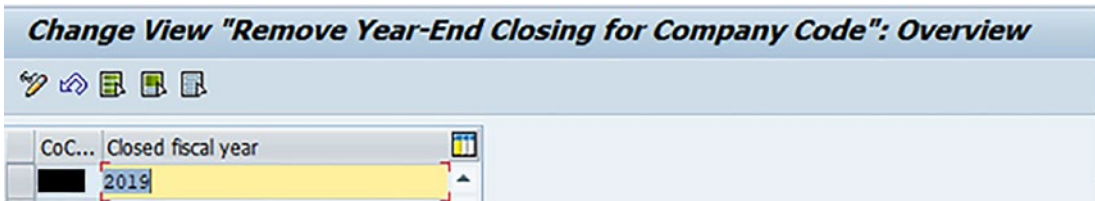
Relevance	Last Con...	Exempti...	ID	Title
▲	⊗	⊗	SI2: MasterData_BP	S4TWL - Business Partner Approach
▲	⊗	⊗	SI3: HR_LEARN	S4TWL - SAP Learning Solution
▲	⊗	⊗	SI1: Logistics_MM-IM	S4TWL - DATA MODEL IN INVENTORY MANAC
▲	⊗	▲	SI1 FIN_GL	S4TWL - GENERAL LEDGER
▲	⊗	⊗	SI2: FIN_AA	S4TWL - ASSET ACCOUNTING
▲	⊗	⊗	SI2: Logistics_PP-MRP	S4TWL - Storage Location MRP

Figure 6-13. SAP Simplification Item List

• Target version: SAP S/4HANA 2020 [02 (05/2021) FP]	1
• ▲ Implemented version 147 of SAP Note 2399707 is not up to date.	1
• ▲ Implemented version 90 of SAP Note 2502552 is not up to date.	1
• 0 Items have been skipped for consistency check in total.	1
• 1 Items checked for consistency	1
▼ ⊗ Check item "SI2: FIN_AA"	11
• ⊗ Highest consistency check return code: 8	1
• Check started at 17.11.2021 04:32:04 EST	1
• Check class: CLS4SIC_FI_AA	1
• ▲ Check class might be out-of-date. Implement latest version of SAP Note 2502552.	1
• ▲ Implemented version:90.	1
• Check ended at 17.11.2021 04:32:05 EST	1
• Consistency check running time: 1 seconds	1
• Consistency check result...	1
▼ ⊗ Check Sub-ID:"FI_AA_CUST_FISCYEAR", return code = 8 .	2
• ⊗ CoCd █████ Fiscal year 2020 is not yet closed - See note: 2618023	1

Figure 6-14. Simplification Item Check and Consistency check results

Verify which fiscal year is closed in your company code in Customizing for Asset Accounting under Preparations for Going Live. Choose SPRO ► Financial Accounting (New) ► Asset Accounting ► Preparing for Production Startup ► Tools Reset Year-End Closing. Reset year-end closing per company code (see Figure 6-15).



**Figure 6-15.** Year-end closing

You need to close the fiscal year 2020 and keep 2021 open. Close all the fiscal years except the current fiscal year. Lock the asset accounting via 0B52 (posting periods ) to avoid further asset transactions. Refer to SAP Note 2406313 for any deactivated company codes.

Even status “Company code deactivated - later reporting allowed” does not work here. This status normally means that all fixed assets are deactivated, a year-end closing has been performed for all fiscal years of the company code, and the company code is deactivated. This is often not the case.

As per SAP Note 2406313, if a company code has the status “Company code deactivated - later reporting allowed,” this means that the company code has been deactivated from the point of view of Asset Accounting. This means that, among other things, the following conditions are met:

- All assets of the company code are deactivated.
- A year-end closing has been performed for all fiscal years of the company code.
- The company code is deactivated. (Customizing activity: Financial Accounting (new) ► Asset Accounting (new) ► Preparations for Going Live ► Production Startup ► Activate Company Code”)

## SAP Note 2406313 Shows Two Alternatives

### Alternative 1: Archiving No Migration (Conversion)

We recommend that you archive all Asset Accounting-relevant data of the company code. You must execute archiving before the technical upgrade, still on SAP ERP 6.0. To fully archive all data of a company code, proceed as described in SAP Note 2154712. A migration of the chart of depreciation is not required if all of the data of the assigned company codes is archived.

## Alternative 2: Manual Migration of Chart of Depreciation and Migration of Transaction Data

Alternatively, you can migrate the chart of depreciation manually and then migrate the transaction data of the company code. For technical reasons, only the current fiscal year can be open for a migration. Any fiscal years preceding it must be closed. This is possible only if you have also deactivated the company code and have ensured that the conditions described previously have been met. Otherwise, you cannot meet the technical condition required for the migration, which is to carry forward the year-end closing.

As a general rule, it is not possible and not recommended to automatically migrate the chart of depreciation, since this is based on old (outmoded) customizing settings.

Proceed as follows:

1. Migrate the chart of depreciation manually (for more information, see the Migration Guide in the application documentation).
2. Change the status of the company code in Asset Accounting, since status 3 (Company code deactivated - later reporting allowed) is not allowed for the migration.

Change the status in customizing for Asset Accounting (new) at Preparations for Going Live ► Production Startup ► Activate Company Code.

3. Migrate the documents of the company code.
4. Following the successful migration of the company code, change the status of the company code back again. This ensures that in the future, further posts to the company code cannot be made.

Refer to the SAP Note for further information.

## Checking the Prerequisites Before Starting SUM for Conversion

Before SAP S/4HANA 1809, we used to execute precheck reports for Asset Accounting RASFIN\_MIGR\_PRECHECK. Refer to the SAP Note 1939592. The later Simplification Item Check Report includes these Asset Accounting checks. Both show the same results (see Figures 6-16 to 6-18).



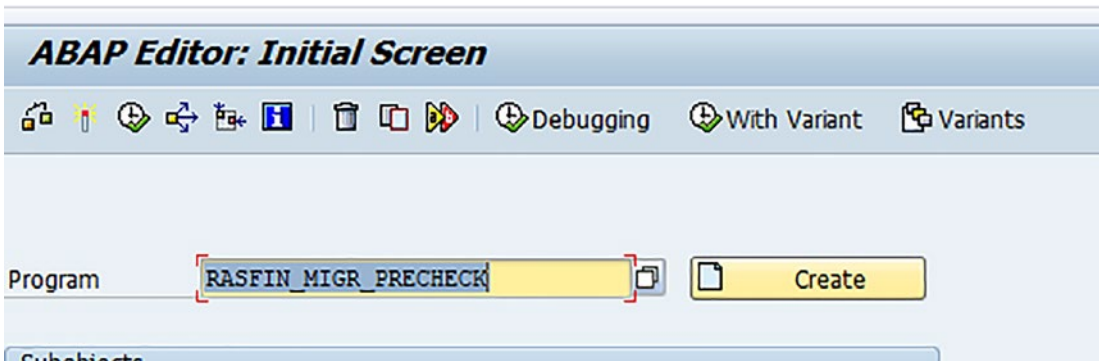


Figure 6-16. Precheck

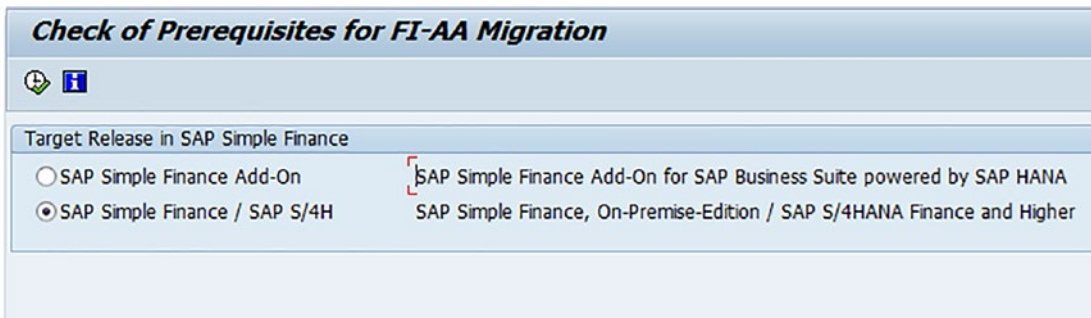


Figure 6-17. Prerequisites for FI-AA migration

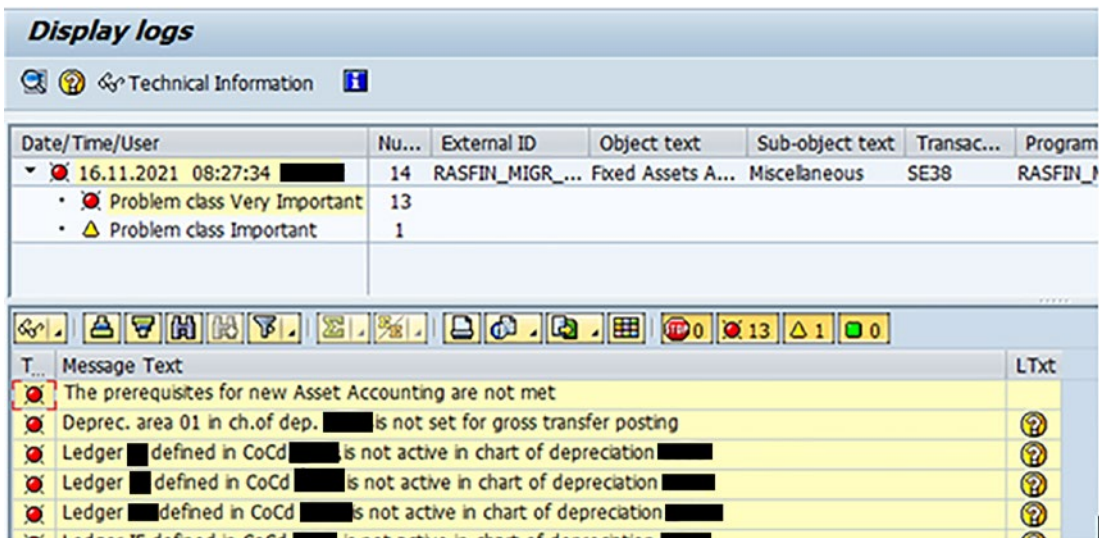


Figure 6-18. RASFIN\_MIGR\_PRECHECK



You can also use report /SDF/RC\_START\_CHECK Simplification Item-Check (SI-Check) (see Figures 6-19 and 6-20).

Relevance	Last Con...	Exempti...	ID	Title	Lob/Tech
▲	●	▲	SI1: FIN_GL	S4TWL - GENERAL LEDGER	Finance
▲	●	▲	SI2: FIN_AA	S4TWL - ASSET ACCOUNTING	Finance

Figure 6-19. Simplification Items List

Overview	Nu...
● Highest consistency check return code: 8	1
▲ Consistency error found. To skip the error, create an exemption for it after other errors have been resolved.	1
● Check started at 16.11.2021 04:50:54 EST	1
● Check class: CLS4SIC_FI_AA	1
▲ Check class might be out-of-date. Implement latest version of SAP Note 2502552.	1
▲ Implemented version:90.	1
● Check ended at 16.11.2021 04:50:55 EST	1
● Consistency check running time: 1 seconds	1
● Consistency check result...	1
▶ ● Check Sub-ID:"FI_AA_CUST_DEPRCHART", return code = 8 .	6
▶ ● Check Sub-ID:"FI_AA_COMPONENTS", return code = 7 .	3
▶ ● Check Sub-ID:"FI_AA_CUST_LEDGER", return code = 8 .	13
● Ledger IF defined in CoCd [redacted] is not active in chart of depreciation [redacted] - See note: 2618023	1
● Ledger LL defined in CoCd [redacted] is not active in chart of depreciation [redacted] - See note: 2618023	1
● Ledger TX defined in CoCd [redacted] is not active in chart of depreciation [redacted] - See note: 2618023	1

Figure 6-20. Simplification Item List

The Asset Accounting element ID SI2 FIN\_AA (which you can see in Figure 6-20) shows the checks for Asset Accounting.

We can also see some additional information in the error message itself. Refer to SAP Note 2618023 for reasons and to see how to fix the error.

Figures 6-21 and 6-22 show an example of fixing some of the error messages from the SI check report.

# Check Item “SI2: FIN\_AA”

## Sub ID – FI\_AA\_ASSETCLASS

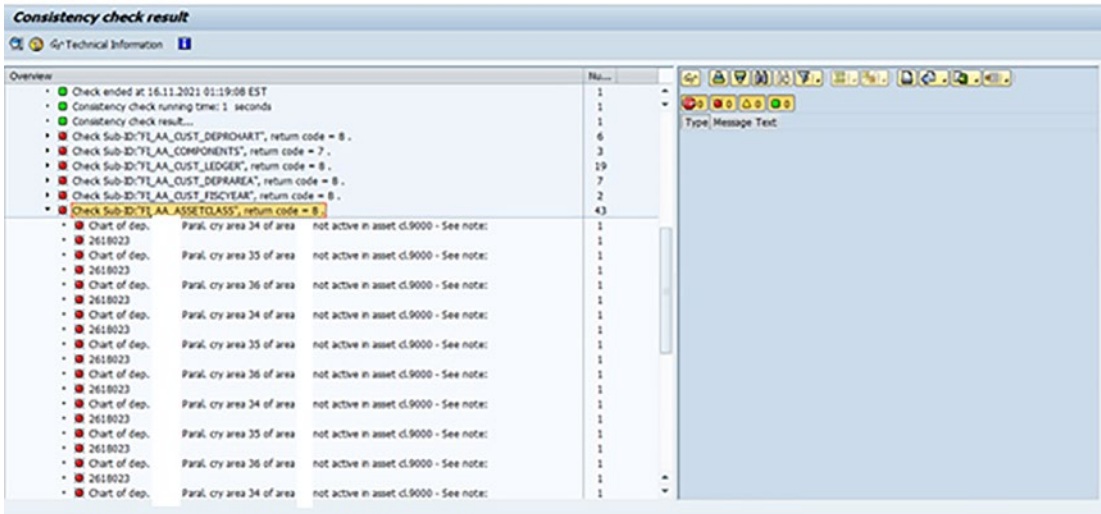


Figure 6-21. Consistency Check results

**Path:** /nspro ► Financial Accounting ► Asset Accounting ► Valuation ► Determine Depreciation Areas in the Asset Class

**T-code:** OAYZ

Figure 6-22 shows it before the changes.

**Change View "Depreciation areas": Overview**

Asset Class: [Redacted] Chart of dep.: [Redacted]

Ar.	Dep. area	Deact	DepKy	Use	Per	Index	Layout
01	Book deprec.	<input type="checkbox"/>	0000	0	0		1000
10		<input type="checkbox"/>	M200	0	0		1000
11		<input type="checkbox"/>		0	0		1000
12		<input type="checkbox"/>		0	0		1000
13		<input type="checkbox"/>		0	0		1000
14	Book deprec.	<input type="checkbox"/>		0	0		1000
15	Book deprec.	<input type="checkbox"/>		0	0		1000
14	Book deprec.	<input type="checkbox"/>		0	0		1000
30	Group USD	<input type="checkbox"/>		0	0		1000
31	Group Curr	<input type="checkbox"/>		0	0		1000
32	BkDep(g.cur)	<input type="checkbox"/>		0	0		1000
34	Group USD	<input checked="" type="checkbox"/>					1000
35	Group USD	<input checked="" type="checkbox"/>					1000
34	Group USD	<input checked="" type="checkbox"/>					1000
40	SMAORS	<input type="checkbox"/>		0	0		1000
00	Insurance	<input type="checkbox"/>		0	0		1000

Figure 6-22. Depreciation area

Figure 6-23 shows it after the changes.

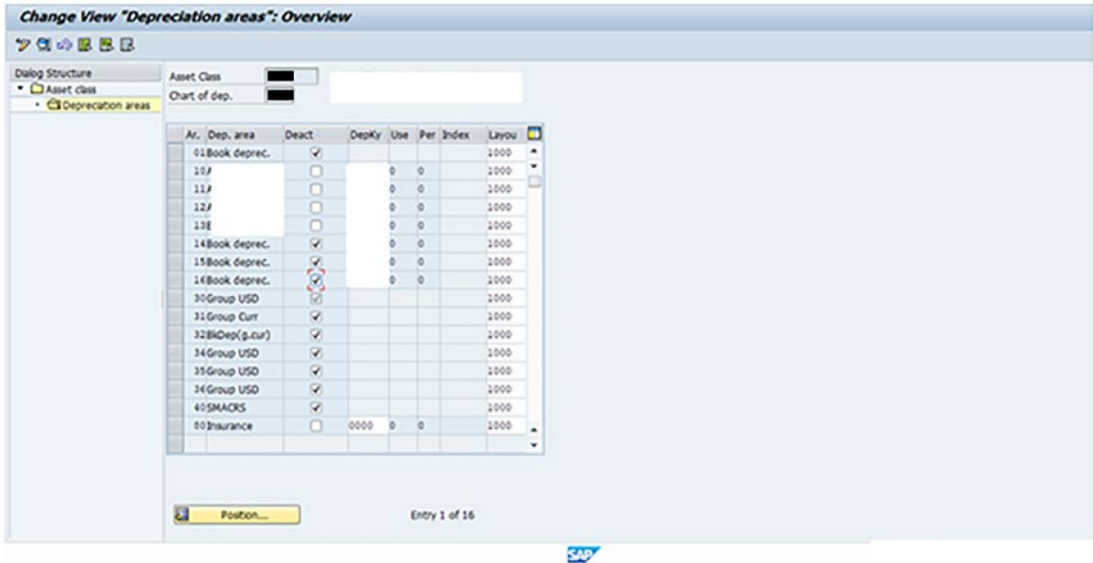


Figure 6-23. Depreciation area

After Corrections, Sub ID – FI\_AA\_ASSETCLASS is no longer displayed (see Figure 6-24).

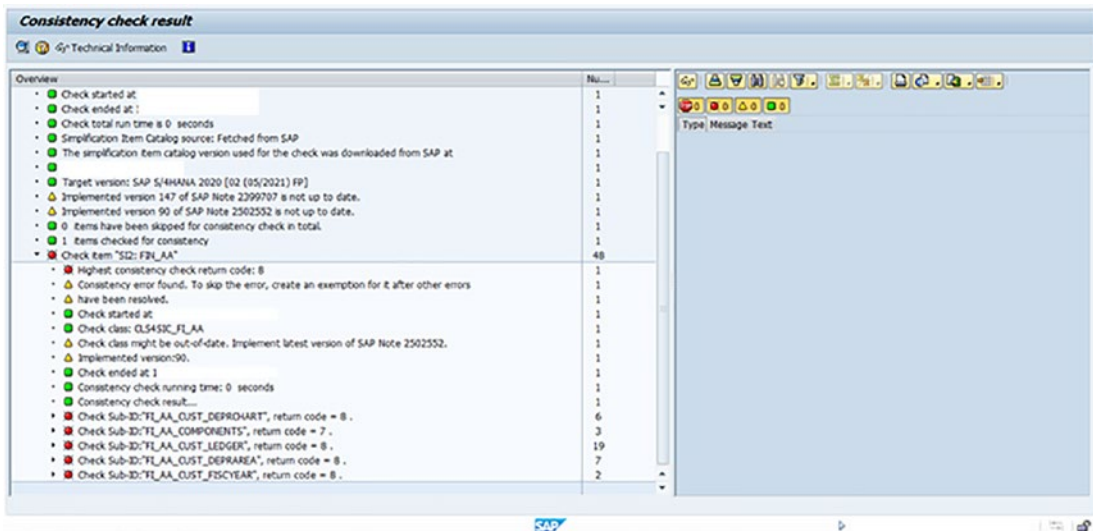


Figure 6-24. Consistency Check results

Sub ID – FI\_AA\_CUST\_LEDGER (see Figure 6-25).

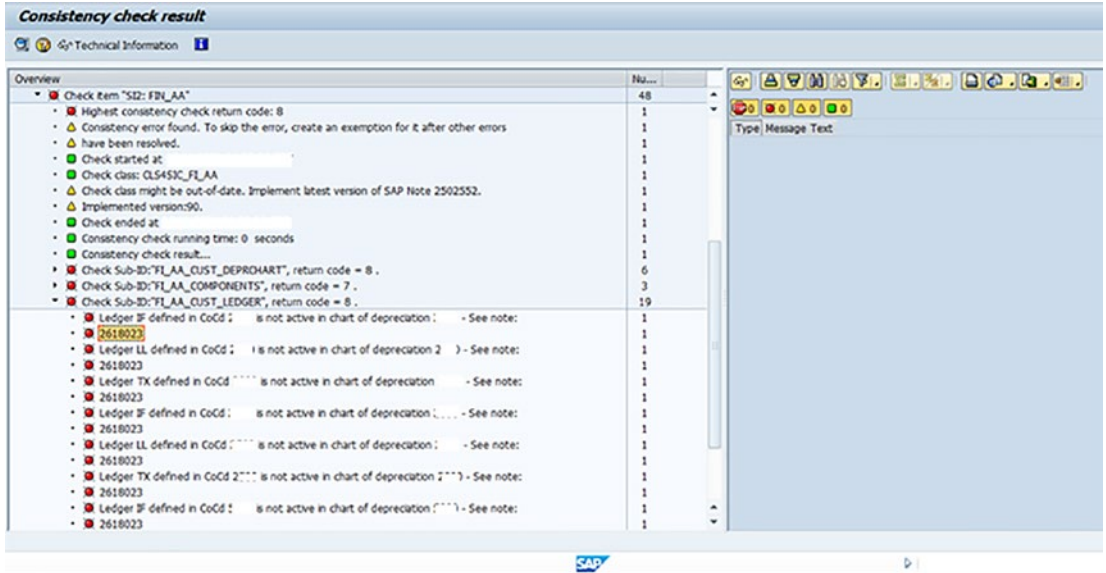
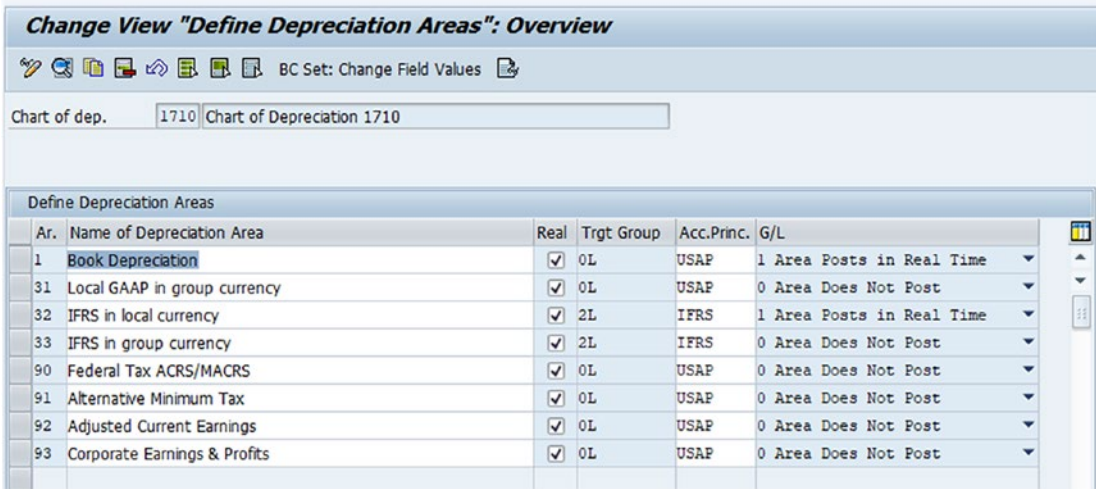


Figure 6-25. Consistency Check Results

## Correction Action

Path: /nspro ► Financial Accounting ► Asset Accounting ► Organizational Structure ► Copy Reference Chart of Depreciation/Depreciation Areas

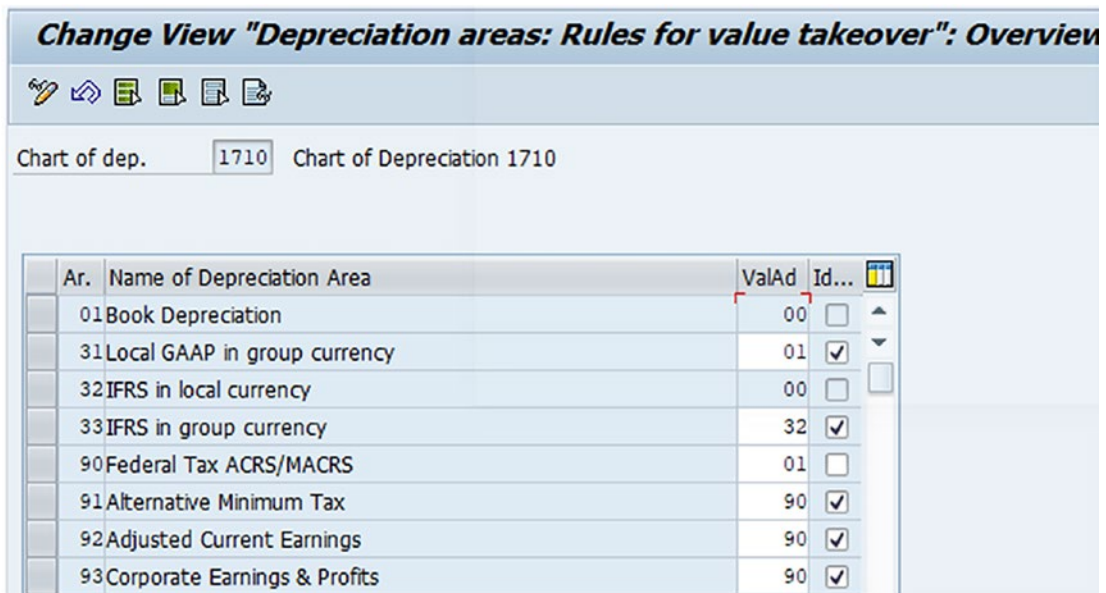
**T-code:** OADB (see Figure 6-26).



**Figure 6-26.** Define depreciation area

**Path:** /nspro ► Financial Accounting ► Asset Accounting ► Valuation ► Depreciation Area ► Specify Transfer of APC Values

**T-code:** OABC (see Figure 6-27).

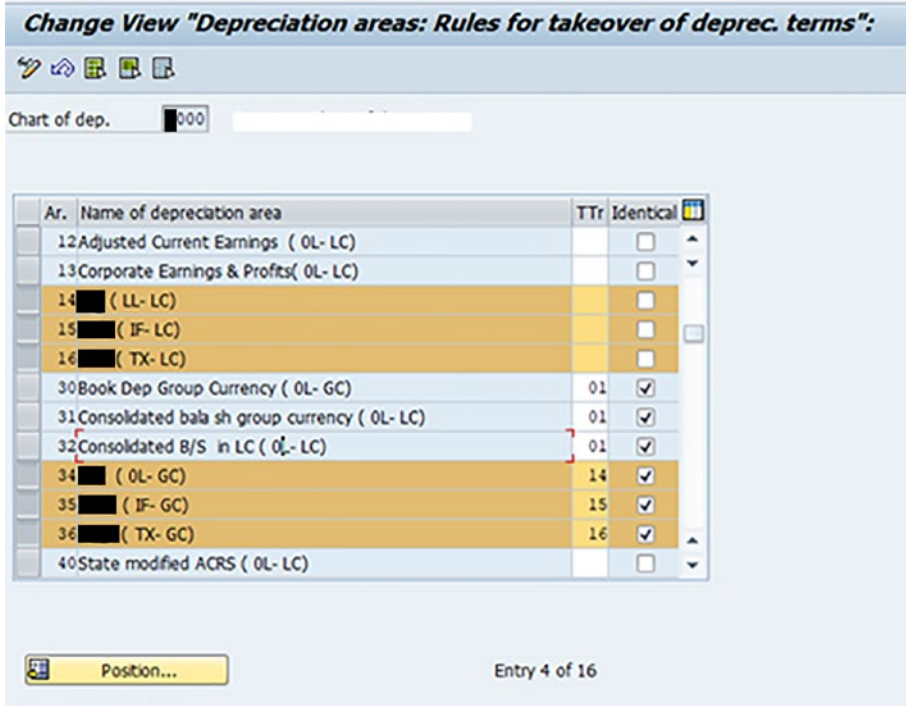


**Figure 6-27.** Specify transfer of APC values



**Path:** /nspro ► Financial Accounting ► Asset Accounting ► Valuation ► Depreciation Area ► Specify Transfer of Depreciation Terms

**T-code:** OABD (see Figure 6-28).



**Figure 6-28.** Specify transfer of APC values



Sub ID - FI\_AA\_CUST\_DEPRCHART (see Figure 6-29).

Consistency check result	
Technical Information	
Overview	Nu...
<ul style="list-style-type: none"> <li>✔ The simplification item catalog version used for the check was downloaded from SAP at</li> <li>✔ 11.11.2021 06:43:22 UTC</li> <li>✔ Target version: SAP S/4HANA 2020 [02 (05/2021) FP]</li> <li>⚠ Implemented version 147 of SAP Note 2399707 is not up to date.</li> <li>⚠ Implemented version 90 of SAP Note 2502552 is not up to date.</li> <li>✔ 0 items have been skipped for consistency check in total.</li> <li>✔ 1 items checked for consistency</li> <li>✖ Check item "SIZ: FIN_AA"</li> </ul>	<ul style="list-style-type: none"> <li>1</li> <li>1</li> <li>1</li> <li>1</li> <li>1</li> <li>1</li> <li>1</li> <li>47</li> </ul>
<ul style="list-style-type: none"> <li>✖ Highest consistency check return code: 8</li> <li>⚠ Consistency error found. To skip the error, create an exemption for it after other errors have been resolved.</li> <li>✔ Check started at 16.11.2021 05:56:10 EST</li> <li>✔ Check class: CLS4SIC_FI_AA</li> <li>⚠ Check class might be out-of-date. Implement latest version of SAP Note 2502552.</li> <li>⚠ Implemented version:90.</li> <li>✔ Check ended at 16.11.2021 05:56:11 EST</li> <li>✔ Consistency check running time: 1 seconds</li> <li>✔ Consistency check result...</li> <li>✖ Check Sub-ID:"FI_AA_CUST_DEPRCHART", return code = 8.</li> </ul>	<ul style="list-style-type: none"> <li>1</li> <li>1</li> <li>1</li> <li>1</li> <li>1</li> <li>1</li> <li>1</li> <li>1</li> <li>1</li> <li>6</li> </ul>
<ul style="list-style-type: none"> <li>✖ Invalid assignment of chart of depreciation 0DE to company code 0001 - See note: 2618023</li> <li>✖ Invalid assignment of chart of depreciation 0DE to company code RECO - See note: 2618023</li> <li>✖ Invalid assignment of chart of depreciation 0DE to company code REOB - See note: 2618023</li> <li>✖ Invalid assignment of chart of depreciation 0DE to company code RERF - See note: 2618023</li> <li>✖ Invalid assignment of chart of depreciation 0RU to company code RU01 - See note: 2618023</li> </ul>	<ul style="list-style-type: none"> <li>1</li> <li>1</li> <li>1</li> <li>1</li> <li>1</li> </ul>

Figure 6-29. Consistency check result

**Path:** /nspro ► Financial Accounting ► Asset Accounting ► Organizational Structure ► Assign Chart of Depreciation to Company code.

**T-code:** OA0B

Figure 6-30 shows before the changes.

Change View "Maintain company code in Asset Accounting": Overview			
CoCd	Company Name	Chrt dep	Description
0001	SAP A.G.		
0003	SAP US (IS-HT-SW)		
0MB1	IS-B Musterbank Deutschl.		
1710	Company Code 1710	1710	Chart of Depreciation 1710

Figure 6-30. Assign chart of depreciation to company code

Figure 6-31 shows after the changes.

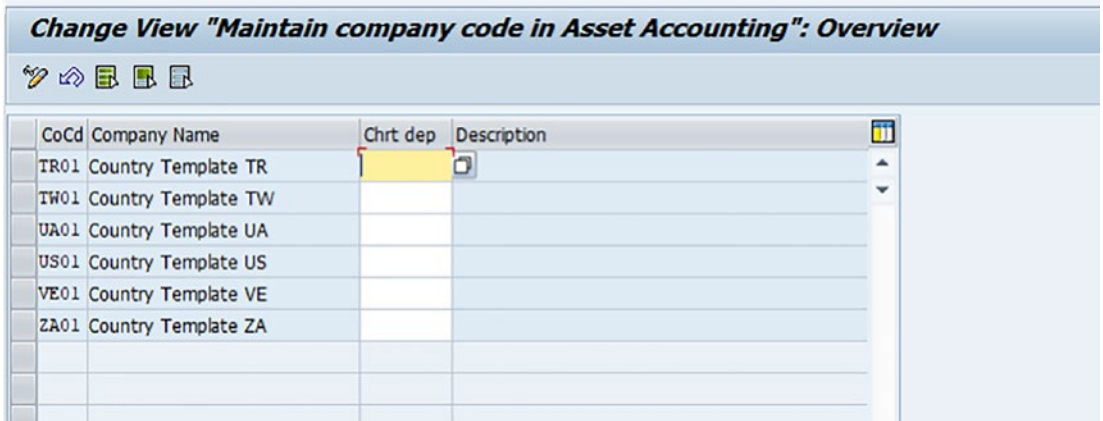


Figure 6-31. Assign chart of depreciation to company code

Sub ID - FI\_AA\_CUST\_DEPRAREA (see Figures 6-32 and 6-33).

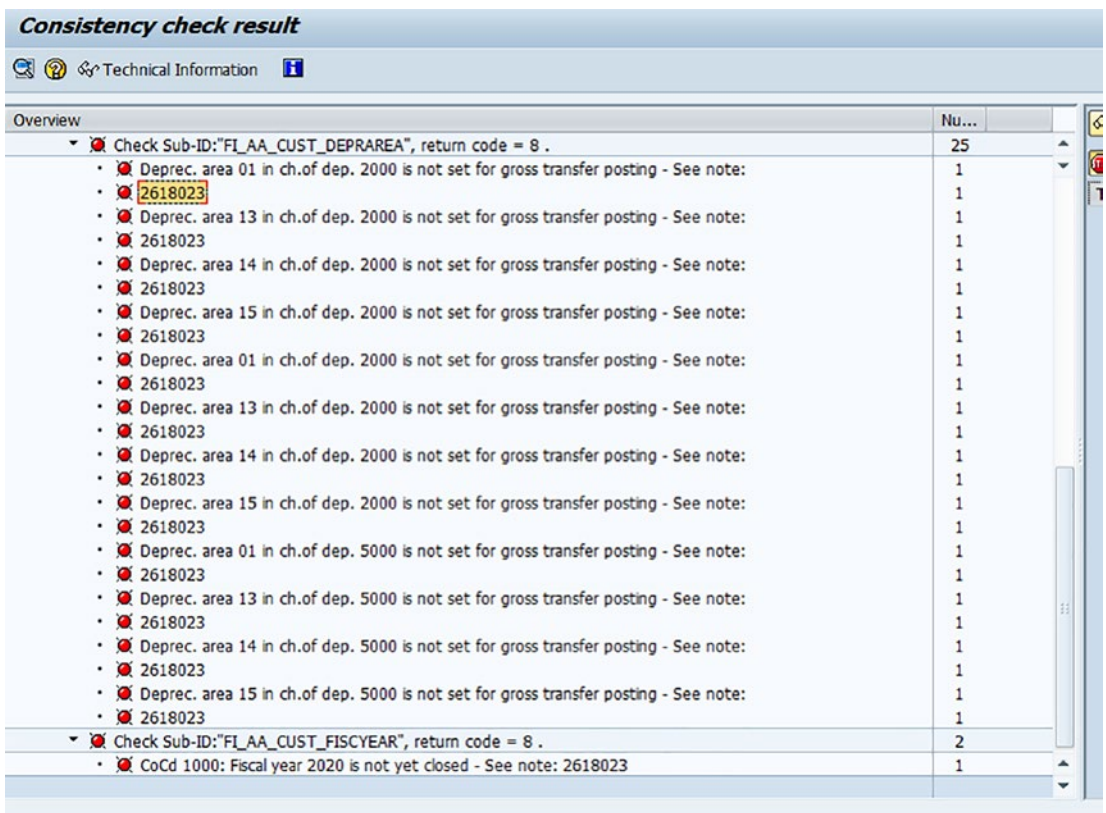


Figure 6-32. Consistency check result

T-code: OABE

Figure 6-33 shows it before changes.

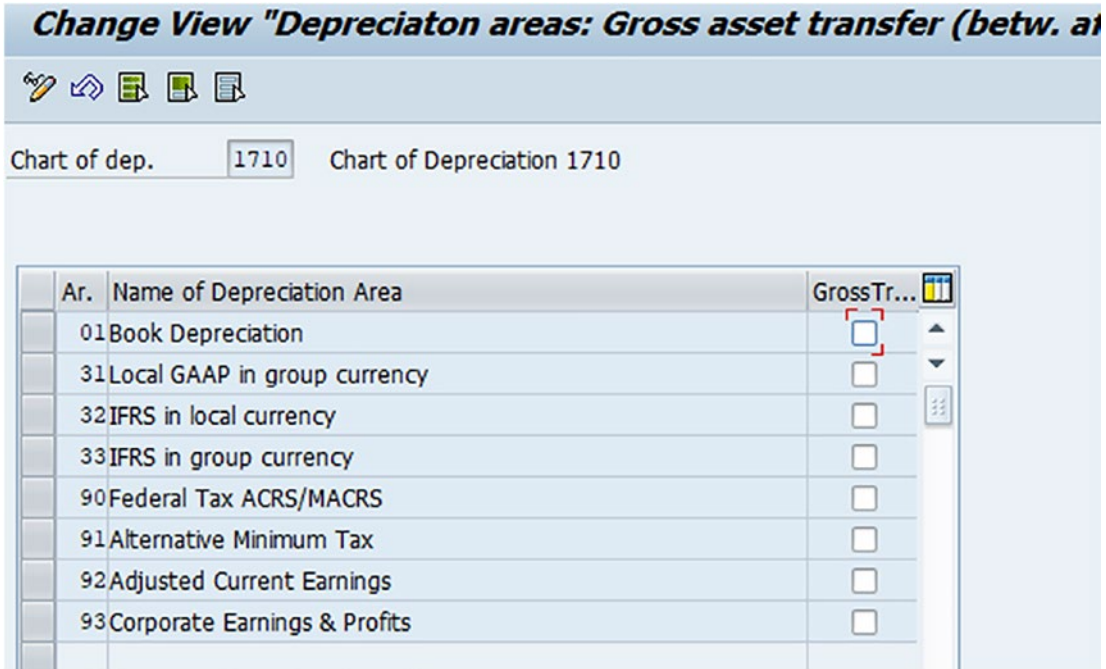
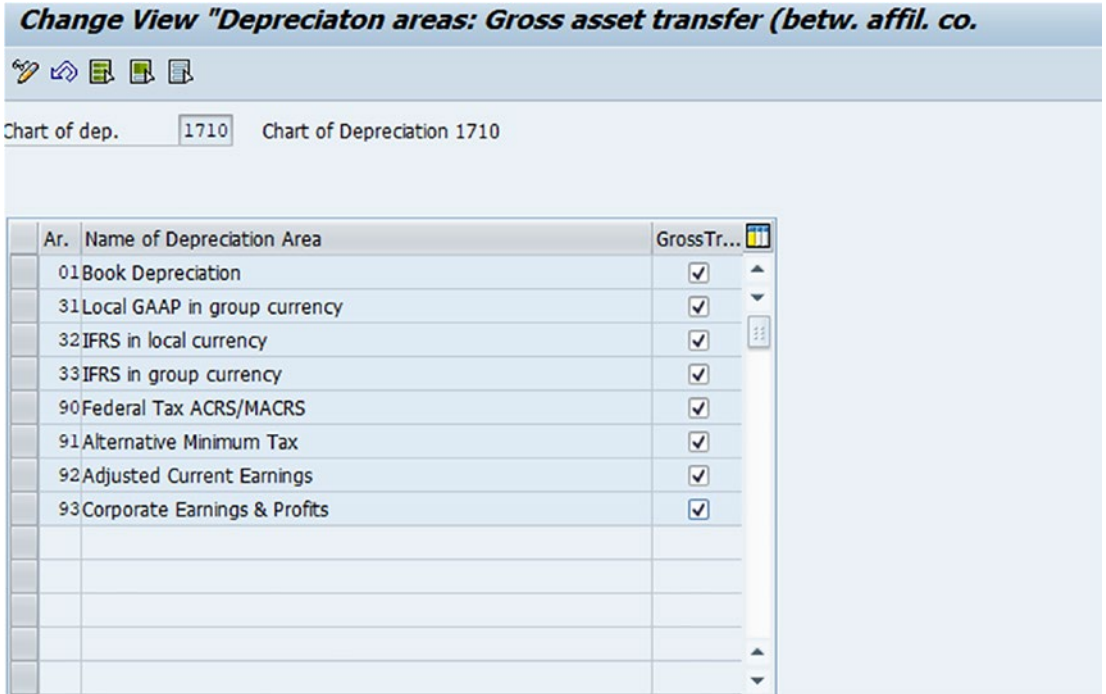


Figure 6-33. Gross Asset Transfer

Figure 6-34 shows after the changes.



**Figure 6-34.** Gross asset transfer

Sub ID - FI\_AA\_COMPONENTS (see Figure 6-35).

<b>Consistency check result</b>	
Technical Information	
Overview	Nu...
<ul style="list-style-type: none"> <li>•  Implemented version 147 of SAP Note 2399707 is not up to date.</li> <li>•  Implemented version 90 of SAP Note 2502552 is not up to date.</li> <li>•  0 items have been skipped for consistency check in total.</li> <li>•  1 items checked for consistency</li> <li>▼  Check item "SI2: FIN_AA"</li> </ul>	<ul style="list-style-type: none"> <li>1</li> <li>1</li> <li>1</li> <li>1</li> <li>25</li> </ul>
<ul style="list-style-type: none"> <li>•  Highest consistency check return code: 8</li> <li>•  Consistency error found. To skip the error, create an exemption for it after other errors have been resolved.</li> <li>•  Check started at 16.11.2021 10:34:54 EST</li> <li>•  Check class: CLS4SIC_FI_AA</li> <li>•  Check class might be out-of-date. Implement latest version of SAP Note 2502552.</li> <li>•  Implemented version:90.</li> <li>•  Check ended at 16.11.2021 10:34:54 EST</li> <li>•  Consistency check running time: 0 seconds</li> <li>•  Consistency check result...</li> <li>▼  Check Sub-ID:"FI_AA_COMPONENTS", return code = 7 .</li> </ul>	<ul style="list-style-type: none"> <li>1</li> <li>1</li> <li>1</li> <li>1</li> <li>1</li> <li>1</li> <li>1</li> <li>1</li> <li>1</li> <li>3</li> </ul>
<ul style="list-style-type: none"> <li>•  FI-AA (new) is not compatible with old deprec. calculation; see long text - See note: 2618023</li> <li>▼  Check Sub-ID:"FI_AA_CUST_DEPRAREA", return code = 8 .</li> </ul>	<ul style="list-style-type: none"> <li>1</li> <li>1</li> <li>9</li> </ul>
<ul style="list-style-type: none"> <li>•  Deprec. area 01 in ch.of dep. 5000 is not set for gross transfer posting - See note: 2618023</li> <li>•  Deprec. area 13 in ch.of dep. 5000 is not set for gross transfer posting - See note: 2618023</li> <li>•  Deprec. area 14 in ch.of dep. 5000 is not set for gross transfer posting - See note: 2618023</li> <li>•  Deprec. area 15 in ch.of dep. 5000 is not set for gross transfer posting - See note: 2618023</li> <li>▼  Check Sub-ID:"FI_AA_CUST_FISCYEAR", return code = 8 .</li> </ul>	<ul style="list-style-type: none"> <li>1</li> <li>1</li> <li>1</li> <li>1</li> <li>1</li> <li>1</li> <li>2</li> </ul>

Figure 6-35. Consistency check results

T-code: SFW5

The EA-FIN should be active (see Figure 6-36).



Name	Description	Planned Status	Dep...	Doc...	Rela...	Softwarekompon...	Rela...	Anwendungskompon...	SAP...	Test...
ENTERPRISE_EXTENSIONS	Enterprise Extensions									
• /CUM/MAIN	Compatible Units	<input type="checkbox"/>				EA-APPL	602	PH-WOC-MO		
• /SDF/WS_MON	Web Service Monitoring	<input type="checkbox"/>				ST-PI		SV-SMG-DIA		
• EA-CP	Consumer Products	<input type="checkbox"/>				EA-APPL	600	SD		
• EA-DPP	DefenseForces&PublicSecurity	<input type="checkbox"/>				EA-DPPS		IS-DFS		
• EA-FIN	Financials Extension	Business function remains switch...				EA-APPL	600	FI		
• EA-FRC	FERC: Regulatory Reporting	<input type="checkbox"/>				EA-APPL	600	FI		
• EA-FS	Financial Services	Business function remains switch...				EA-FINSERV		TR		
• EA-GLT	Global Trade Management	<input type="checkbox"/>				EA-GLTRADE		LO-AB		
• EA-HR	Human Capital Management	<input type="checkbox"/>				EA-HRDOX	600	PA-PA		
• EA-ICM	Incentive and Sales Force Mgmt.	<input type="checkbox"/>				EA-APPL	600	ICM		
• EA-ISE	Industry-Spec. Sales Enhancement	<input type="checkbox"/>				EA-APPL	600	SD		
• EA-PLM	PLM Extension	Business function remains switch...				EA-APPL	600	PLM		
• EA-PS	Public Services	<input type="checkbox"/>				EA-PS		PSM		
• EA-RET	Retail	<input type="checkbox"/>				EA-RETAIL		LO-ISR-SWT		
• EA-SCM	SCM Extension	Business function remains switch...				EA-APPL	600	PP		
• EA-TRV	Travel Management Extension	Business function remains switch...				EA-HRDOX	600	FL-TV		
• JVA	Joint Venture Accounting	<input type="checkbox"/>				EA-APPL	600	CA-JVA		
ENTERPRISE_BUSINESS_FUNCTIONS	Enterprise Business Functions									

Figure 6-36. EA-FIN is active

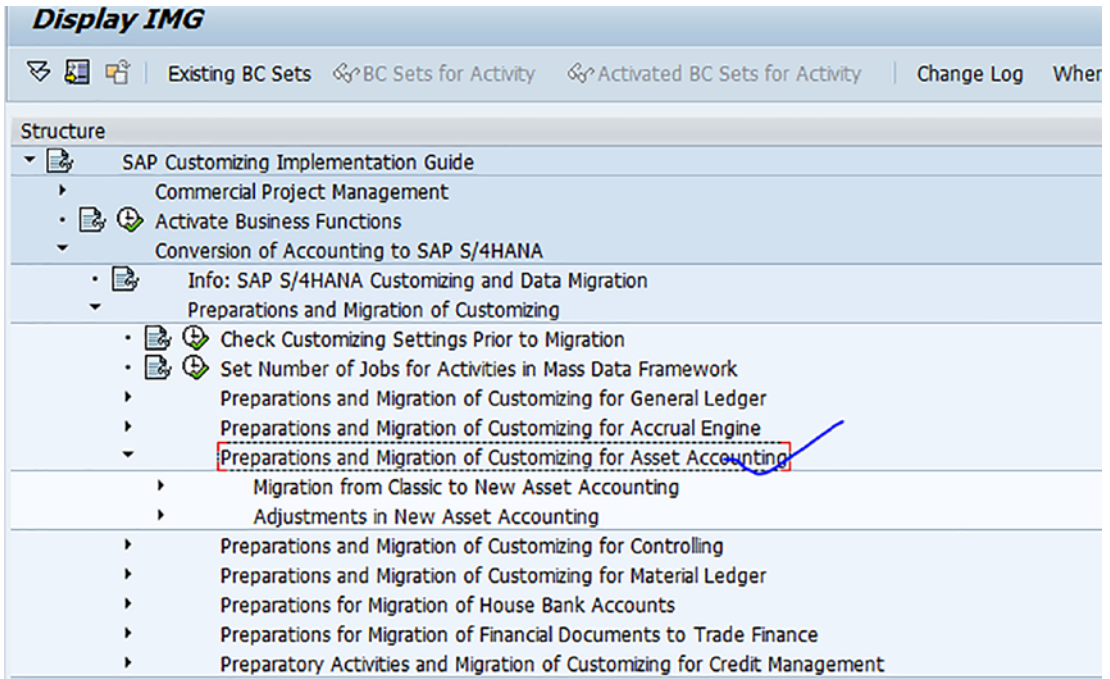
## An Overview of the SAP Asset Accounting Migration Flow

As the first step of conversion, you should check if the prerequisites for the migration to new Asset Accounting have been met. If not, you need to do them manually. Here are the steps to be considered for adjusting the chart of depreciation.

1. Financial Accounting (New) ► Asset Accounting ► Organizational Structure ► Assign Chart of Depreciation to Company Code. This step is to verify assignment.
2. To verify currencies and accounting principles to the ledger/ company code, use the following steps.
3. SPRO: Financial Accounting (New) ► Financial Accounting Global Settings (New) ► Ledgers ► Ledger.
4. Which parallel currency areas are assigned for the accounting principles in your depreciation area?
5. SPRO: Financial Accounting (New) ► Asset Accounting ► Valuation ► Depreciation Areas ► Define Depreciation Areas.
6. Check the transfer of APC values for your parallel currency areas.

7. SPRO: Financial Accounting (New) ► Asset Accounting  
► Valuation ► Depreciation Areas ► Specify Transfer of APC Values:
  - a) Check the copy rules for depreciation terms for your parallel currency areas.
  - b) SPRO: Financial Accounting (New) ► Asset Accounting  
► Valuation ► Depreciation Areas ► Specify Transfer of Depreciation Terms.
  - c) Check the currencies that are assigned to your depreciation areas.
  - d) SPRO: Financial Accounting (New) ► Asset Accounting ► Valuation ► Currencies ► Define Valuation Areas for Foreign Currencies.
  - e) Check the currency types/valuations that are assigned to your depreciation areas.
  - f) SPRO: Financial Accounting (New) ► Asset Accounting ► Valuation ► Currencies ► Specify the Use of Parallel Currencies.
8. Perform period-end closing:
  - a. Need to lock the system and users to avoid postings during migration
  - b. Execute period-end closing for the previous month in Asset Accounting.
  - c. Reconcile the general ledger with the Asset Accounting.
9. Check the prerequisites automatically:  
Run Simplification Item Checks (SI checks) to check the prerequisites for conversion. Ask the consultant to take a backup.
10. Then run SUM to install SAP S/4HANA.
11. After SUM, run the following steps (see Figure 6-37).

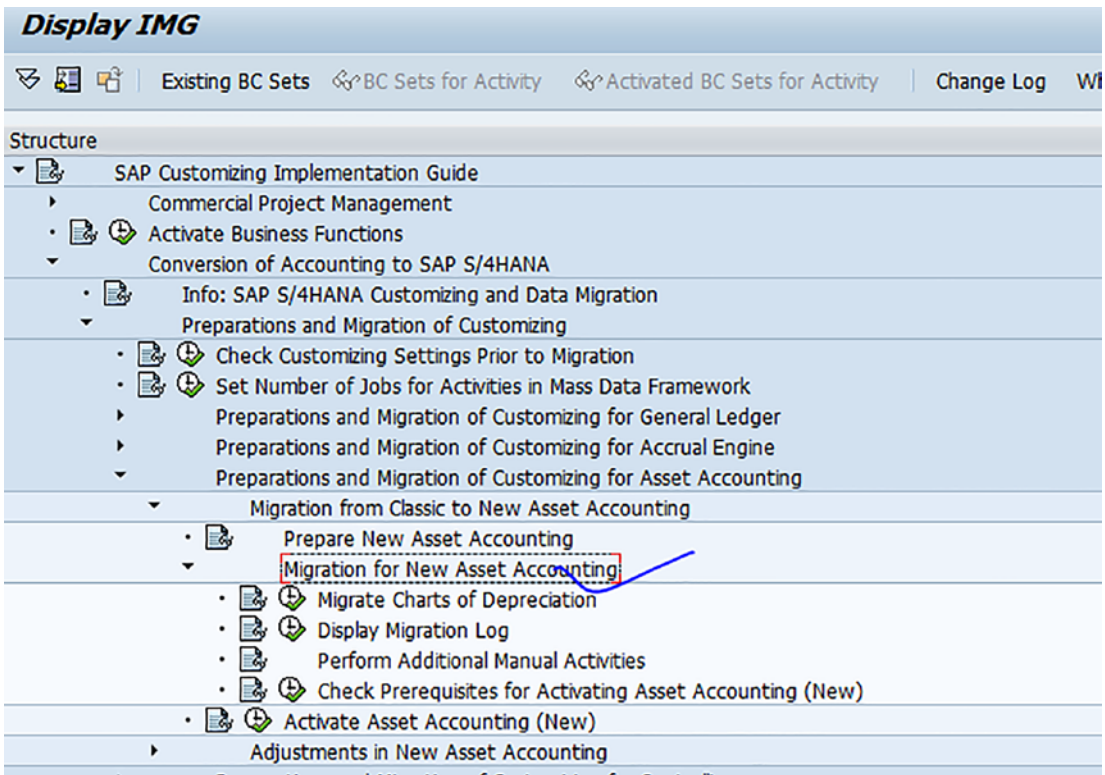




**Figure 6-37.** Preparation and migration of customizing for Asset Accounting

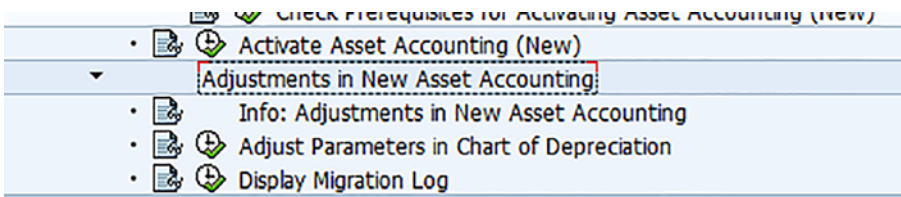
Run the steps sequentially. That means the Asset Accounting step is after the GL and Accrual Engine preparations steps.

12. Migration to new Asset Accounting in SAP S/4HANA (see Figure 6-38).



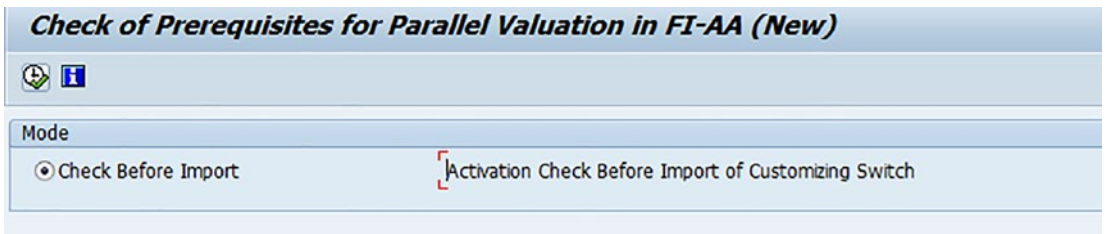
**Figure 6-38.** Migration for New Asset Accounting

Then perform additional customizing settings manually, as shown in Figure 6-39.

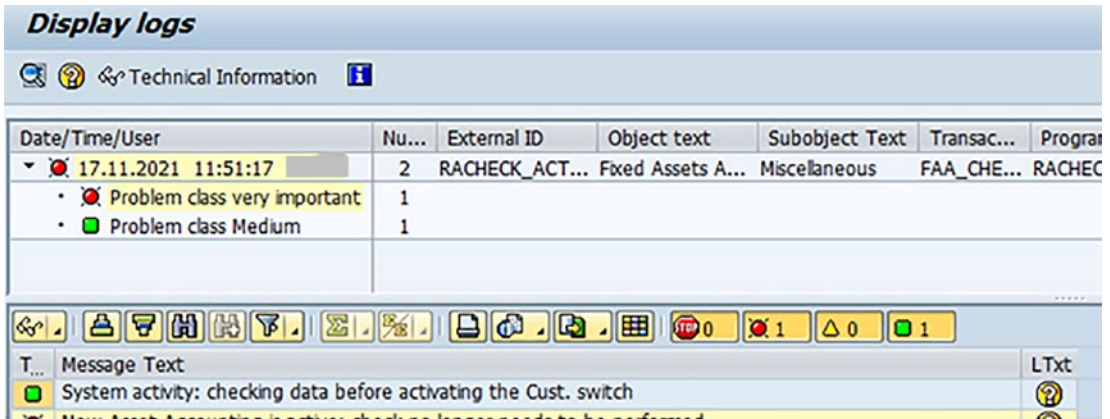


**Figure 6-39.** Adjustments in New Asset Accounting

You check if all the prerequisites for activating New Asset Accounting are met (see Figures 6-40 and 6-41).

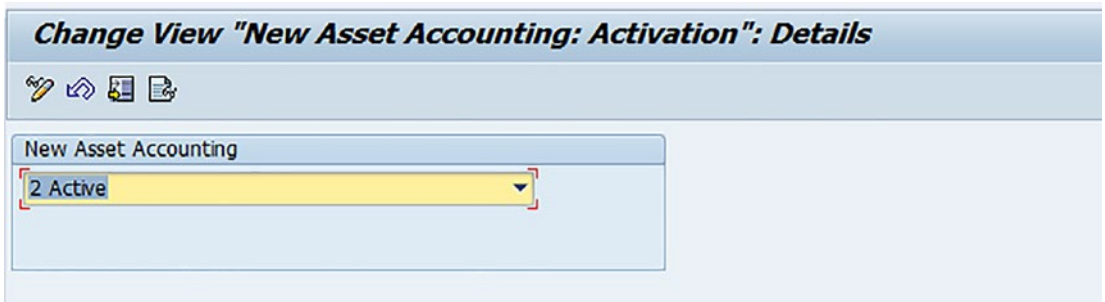


**Figure 6-40.** Prerequisites for parallel valuation



**Figure 6-41.** Prerequisites to Activate New Asset Accounting

Finally, you need to activate new Asset Accounting (see Figure 6-42).



**Figure 6-42.** Activate New Asset Accounting

There are two possibilities when you are activating new Asset Accounting:

1. The activation is successful in the client system.
2. The activation is partially successful in the client system.

With a partial successful activation, you need to analyze the errors in Customizing for Asset Accounting (New), Check Prerequisites for Activating Asset Accounting (New) (execute the FAA\_CHECK\_ACTIVATION transaction). See Figures 6-43 and 6-44.

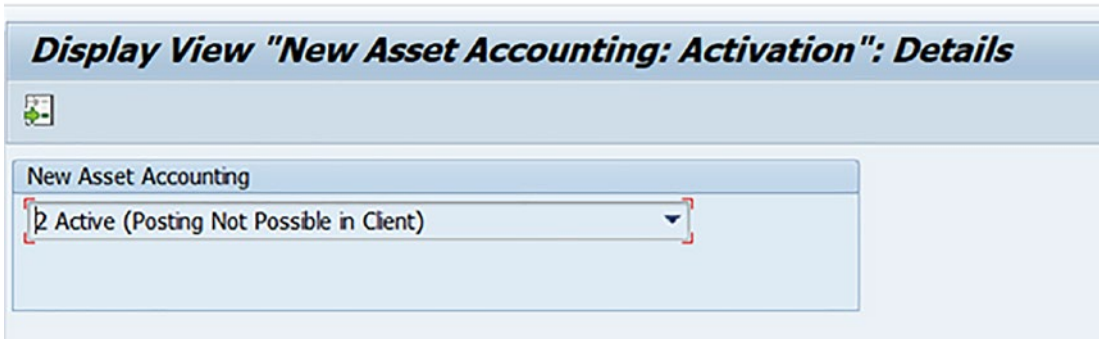


Figure 6-43. New Asset Accounting details view

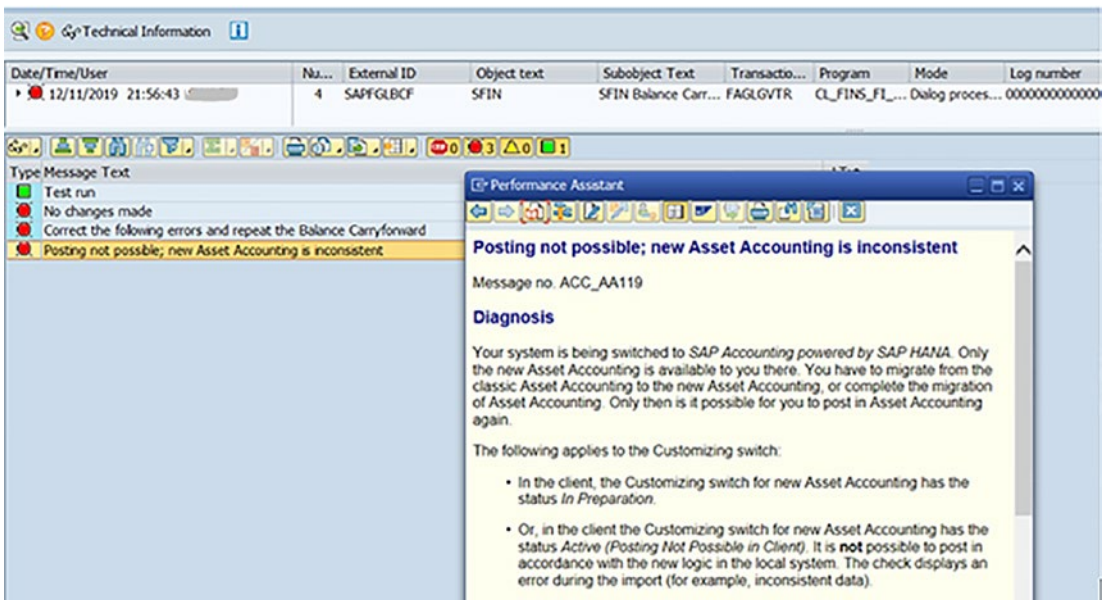


Figure 6-44. FAA\_CHECK\_ACTIVATION

To force activation in non-productive systems, use transaction code FAA\_DO\_ACTIVATION. Authorization object S\_TABU\_DIS is necessary with ACTVT = '02' and DICBERCLS. Activate new Asset Accounting using the FAA\_DO\_ACTIVATION transaction. You have to correct all of the errors before finally activating. It should appear as shown in Figure 6-45.



Figure 6-45. FAA\_DO\_ACTIVATION

## Configuration of Chart of Depreciation Under Ledger Approach

During migration to Asset Accounting (new) or during the activation of Asset Accounting (new), the system checks the prerequisites. If the system does not configure properly, it throws error messages. Ledgers assigned to the company code and the ledgers that are to be posted via the chart of depreciation should be identical. If they are not, it is not possible to migrate to Asset Accounting (new) and activate it.

In Asset Accounting (new) of SAP S/4HANA, you must make sure that all ledgers in which the company code updates its balances in the general ledger are also updated via Asset Accounting.

For example, you might have assigned two ledgers to the company code. In Asset Accounting, you might have only one ledger assigned in the chart of depreciation. Because all the ledgers are not assigned to the chart of depreciation, the system throws error messages.

## Parallel Accounting Using the Ledger Approach

This example helps to ensure that both settings are correct before the system conversion process. Define the accounting principles and the Assign Accounting principles to Ledger groups (see Figure 6-46).



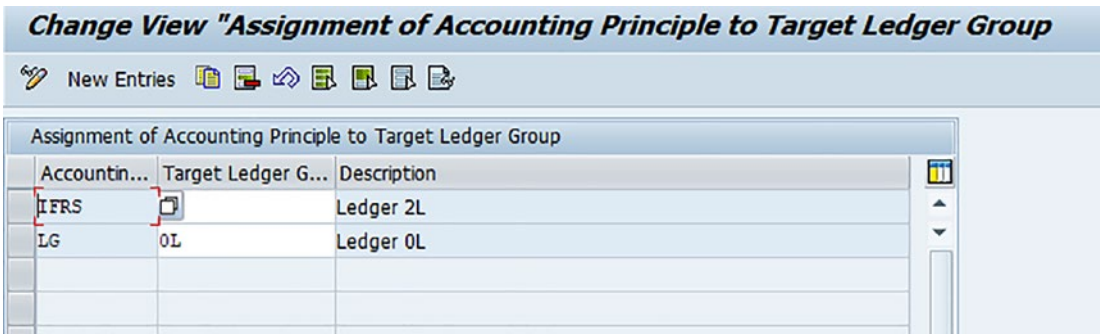


Figure 6-46. Assignment of accounting principles to target ledger group

Define Settings for Ledgers and Currency Types (see Figures 6-47 to 6-49).

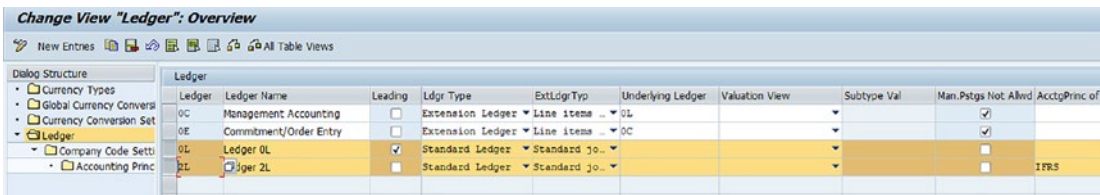


Figure 6-47. Change view ledger overview

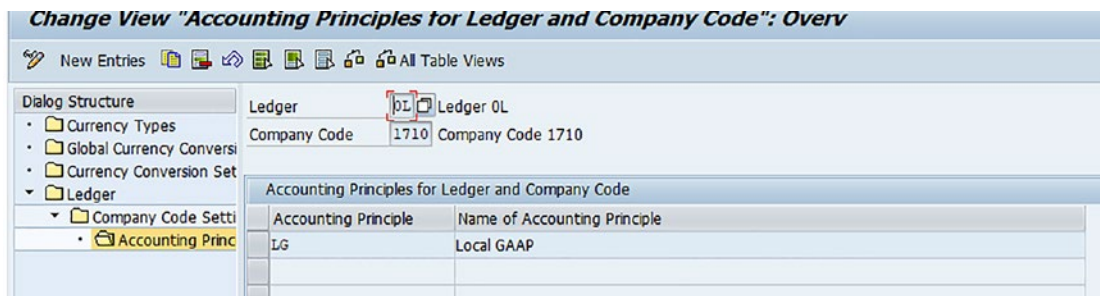
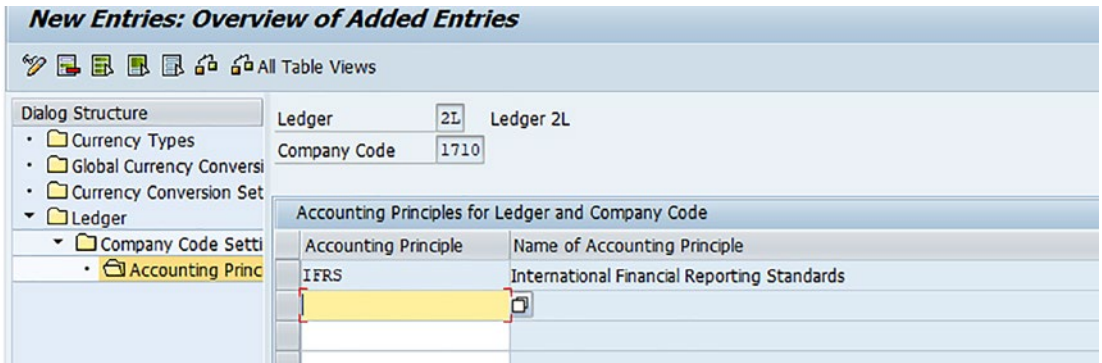
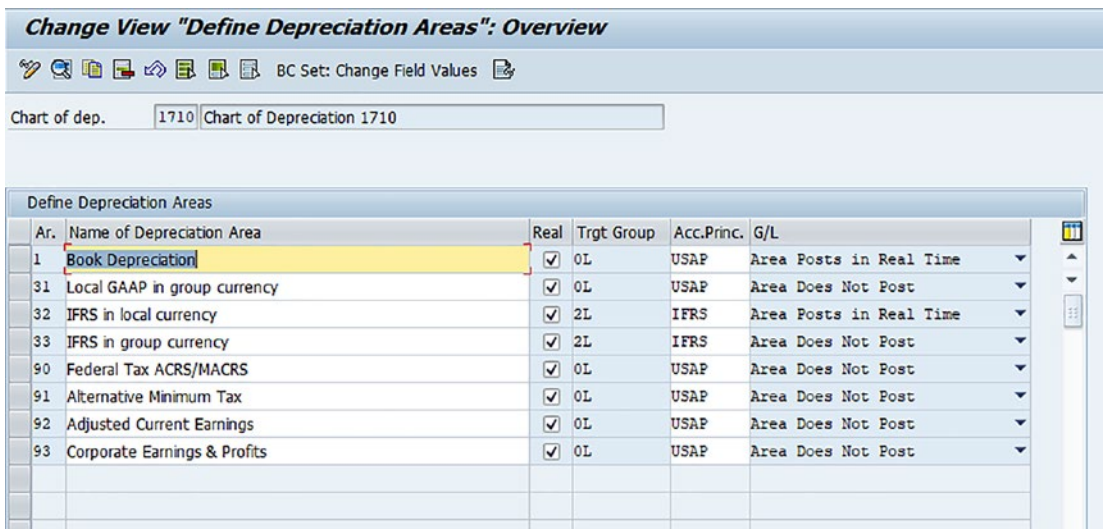


Figure 6-48. Change View Accounting Principles for Ledger and Company Code



**Figure 6-49.** Define Settings for Ledgers and Currency Types

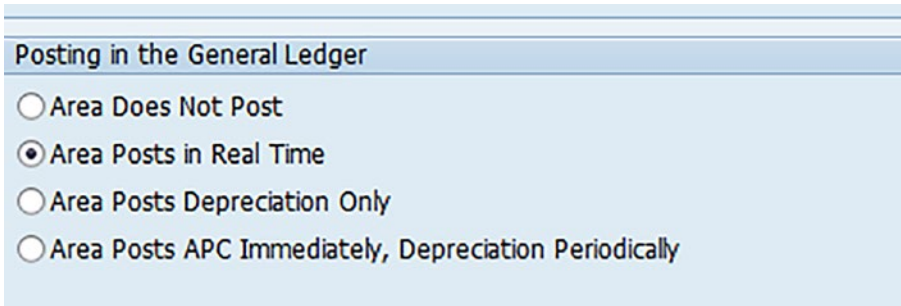
Choose Asset Accounting ► General Valuation ► Depreciation Areas ► Define Depreciation Areas ► Define Depreciation Areas. The chart of depreciation with two ledgers (0L and 2L) is shown in Figure 6-50.



**Figure 6-50.** Define Depreciation Areas

With Asset Accounting (new), the posting indicator supports the following four values (see Figure 6-51).





**Figure 6-51.** Posting indicators

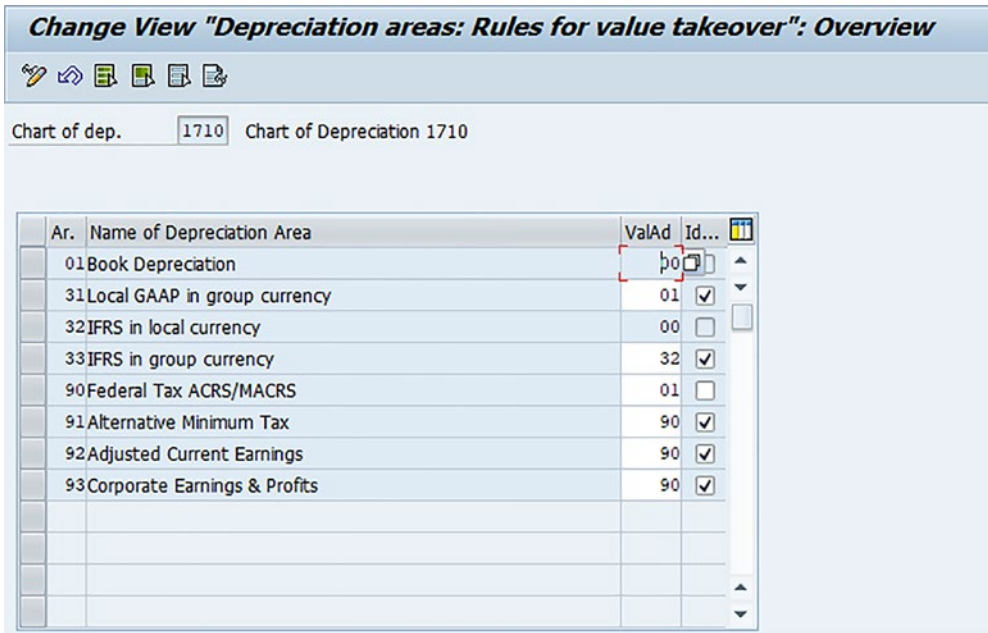
For the depreciation areas, choose the correct posting indicator. For the ledger approach, the leading area of the parallel valuation also contains the Area Posts in the Realtime option.

## Specify Transfer of APC Values

Verify the “Specify Transfer of APC Values” option for depreciation areas that post their APC to general ledger accounting in real-time. Leading areas need to be set to 00. Those depreciation areas never use values from a different depreciation area. Set the key to initial; the system displays the key 00 for the depreciation area when you press Enter.

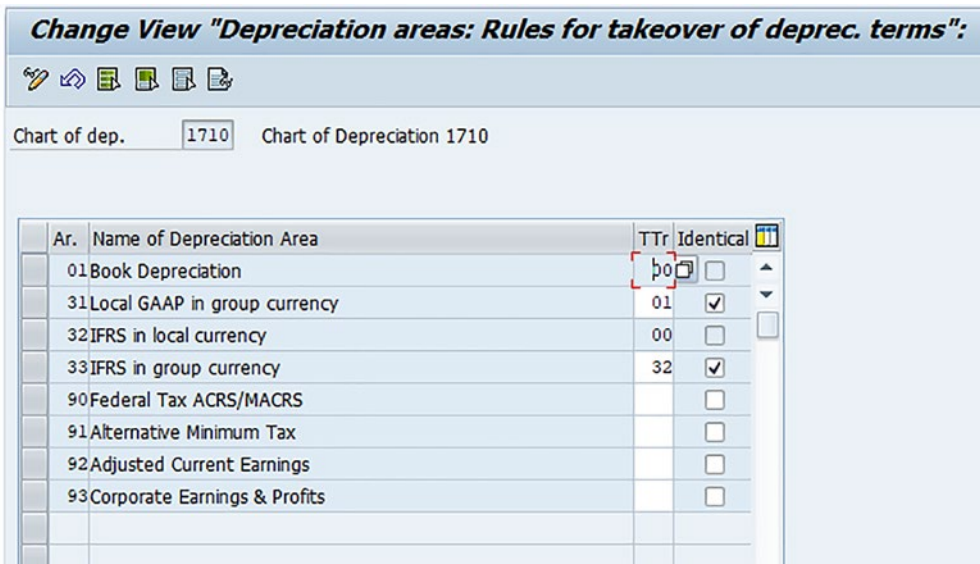
Check the entry. Depreciation areas 01 and 32 should have entry 00.

Choose Financial Accounting under Asset Accounting ► General Valuation ► Depreciation Areas ► Specify Transfer of APC Values (see Figure 6-52).



**Figure 6-52.** Specify transfer of APC values

Specify Transfer of Depreciation Terms (see Figure 6-53).



**Figure 6-53.** Specify Transfer of Depreciation Terms

Specify the Use of Parallel Currencies (see Figure 6-54).

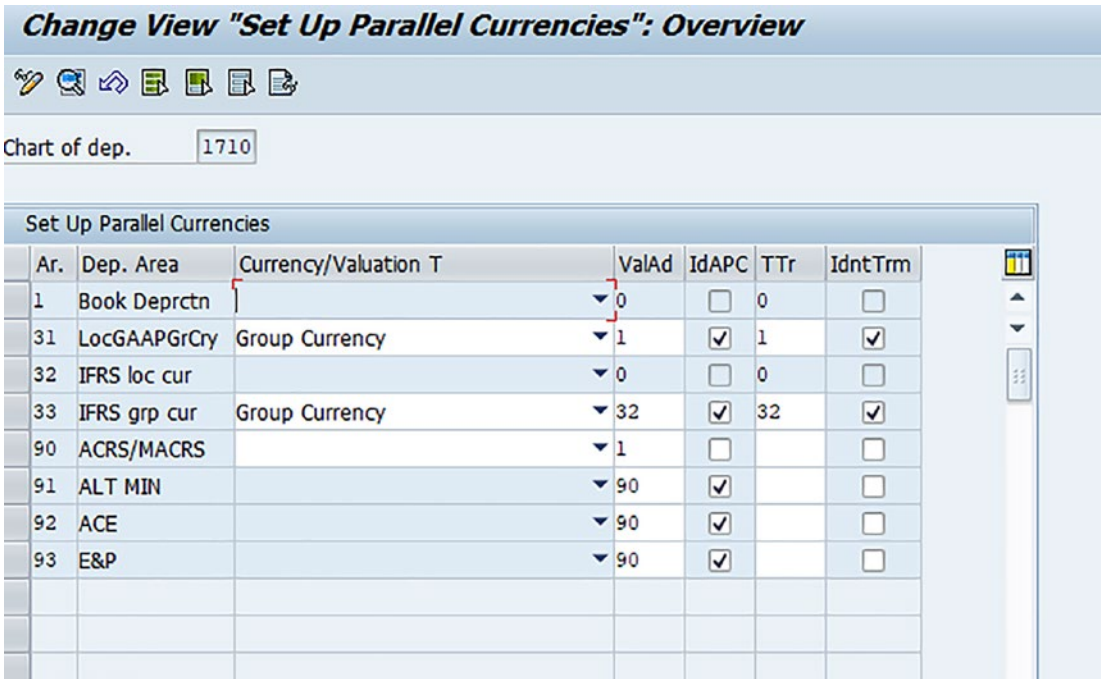


Figure 6-54. Specify the Use of Parallel Currencies

## Technical Clearing Account for Integrated Asset Acquisition

You can assign the technical clearing account by choosing Accounting > Asset Accounting > Integration with General Ledger Accounting > Technical Clearing Account for Integrated Asset Acquisition > Define Technical Clearing Account for Integrated Asset Acquisition (see Figure 6-55).

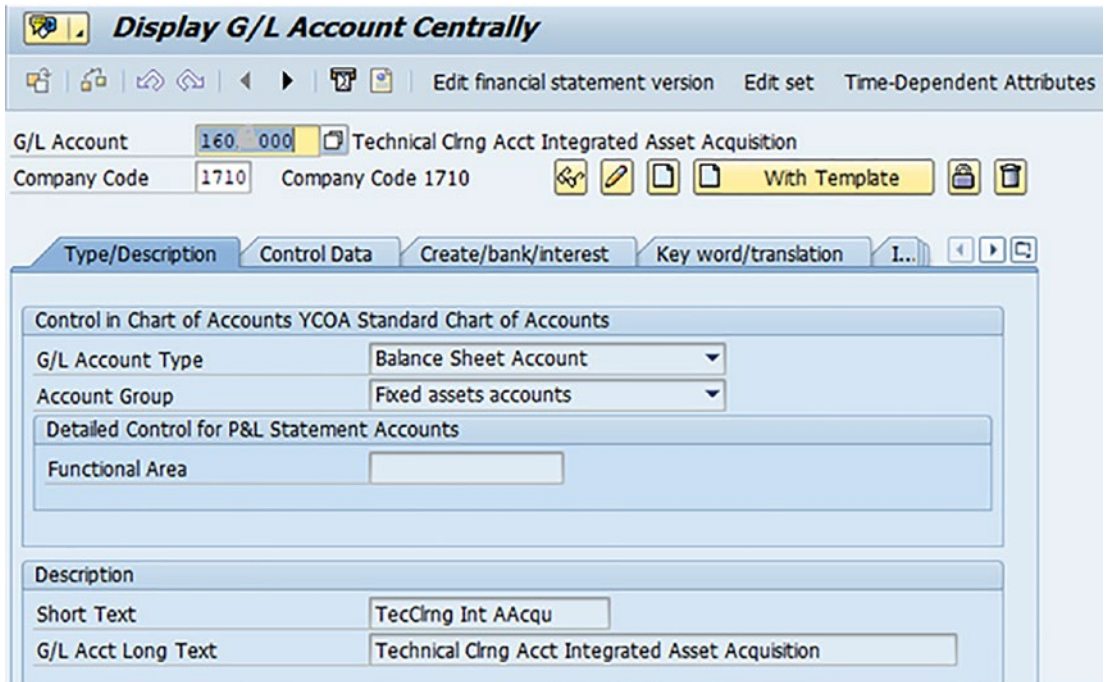


Figure 6-55. Define Technical Clearing Account for Integrated Asset Acquisition

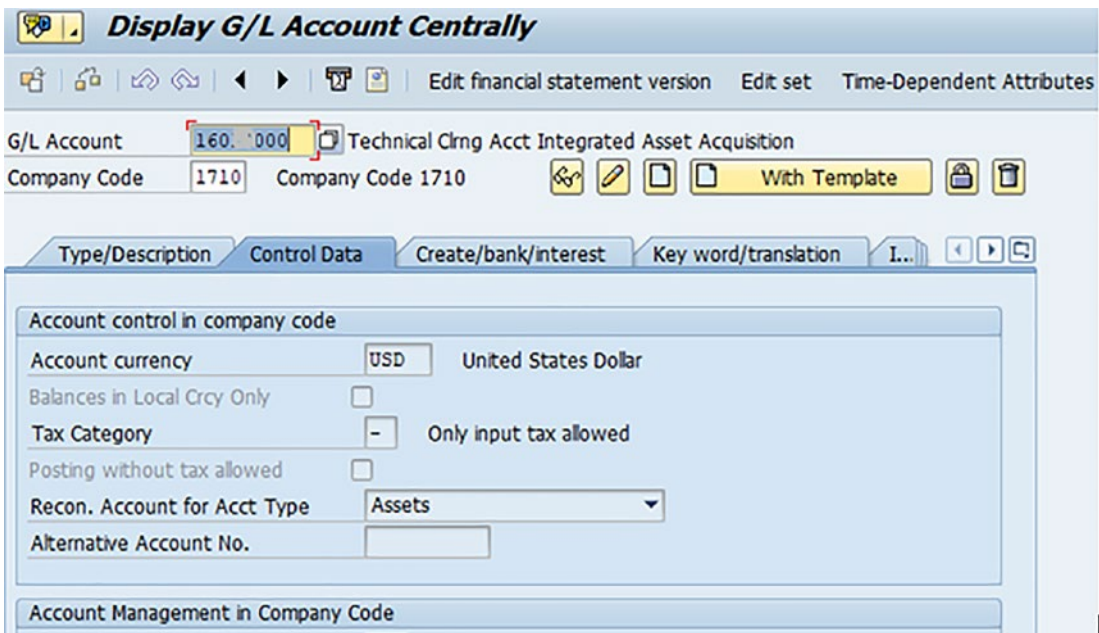
The balance of this account is zero at any time. With the ledger approach, it balances to zero per ledger and account assignment. With the account approach, you need to assign the technical clearing account for integrated asset acquisition together with the contra account.

The Technical Clearing Account Parameters account is a balance sheet created as a reconciliation account for fixed asset accounts.

There is no need to set management of line items because the account is a reconciliation account (see Figures 6-56 and 6-57).



**Figure 6-56.** *Technical Clearing Account Parameters*



**Figure 6-57.** *Technical Clearing Account Parameters*

This account must be given only in the configuration shown above, not in the A090. (The account cannot be defined in the account determination for Asset Accounting, such as with tables T095, T095B, and T095P.)

Be sure to remember these points:

- It is not possible to reverse Finance and Asset Accounting documents (FB08, AB08) that have been posted before conversion, so you need to verify if you have any business need to reverse them as a part of preparation activity. Once the system is converted, you can post a manual transfer posting rather than use FB08 and AB08. Negative postings are not supported after conversion. Identify the need for these well in advance.
- Batch input is no longer supported for AB01.
- Transaction types restricted to depreciation areas are not supported.
- You can use AB01L in place of ABSO\_OLD.

SAP S/4HANA New Asset Accounting has many benefits that help you meet different business needs. Consider these examples:

- Flexible leading valuation.
- One depreciation area for each accounting principle/valuation that posts in real-time.
- Delta areas are no longer needed to portray a parallel valuation.
- Different fiscal year variants can be assigned to different ledger groups. A prerequisite is that the variants should have the same start and end date.
- We can see separate documents for each accounting principle.
- The depreciation areas have equal status. No need for the hard coupling of depreciation area 01 as the “leading depreciation area.”
- For each accounting principle or valuation system, post in real-time.
- No redundancy in data storage.
- Reconciliation between G/L and AA is ensured by design.
- Reconciliation step in financial close is not required.
- All nonstatistical items are updated as universal journal entries.
- Reporting for previous fiscal years is possible even after migration.
- Assignment of depreciation area to accounting principle.
- Simplified chart of depreciation.
- New document display AB03.
- New transactions for ledger group.
- Flexible account determination.
- Simple close, fast close, and soft close.
- Transparency throughout the period.
- Plan values in real-time. These values will be updated with every master data change and every asset transaction.
- Elimination of reconciliation steps as Asset Accounting and GL posts to single universal journal entry table ACDOCA.
- Fast depreciation posting run AFAB. New program for depreciation.

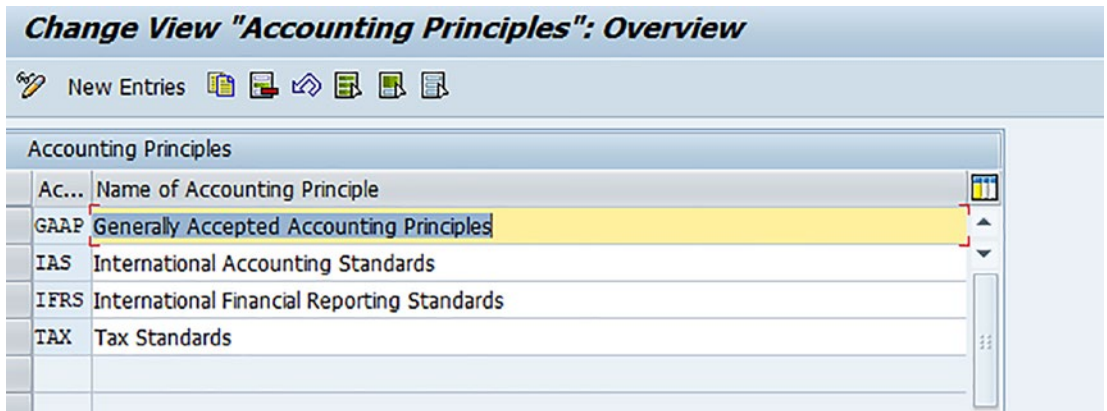
- The system creates a corresponding ledger group-specific document.
- Automatic postings are made to the technical clearing account for integrated asset acquisitions.
- You can post to accounting principles or depreciation areas in transaction AB01L.
- Only relevant accounting principles are represented on the asset.
- If a certain accounting principle is not needed to post APC online to the general ledger, the posting is redirected to account for the non-operating expenses (T095-KTNAIB field).
- You can assign the settlement rule for each line per depreciation area using transaction AIAB.
- Accounting principle-specific postings can also be posted from Controlling.
- FAGLVTR helps for balance carry forward in Asset Accounting. No need to execute twice—once for GL and the other run for AA. A single run works for both.
- The Display Asset Worklist app shows a clear picture of the fixed asset masters that you are responsible for.

## Configuration of a Chart of Depreciation Using the Account Approach

Define the accounting principles and assign them to ledgers as shown here:

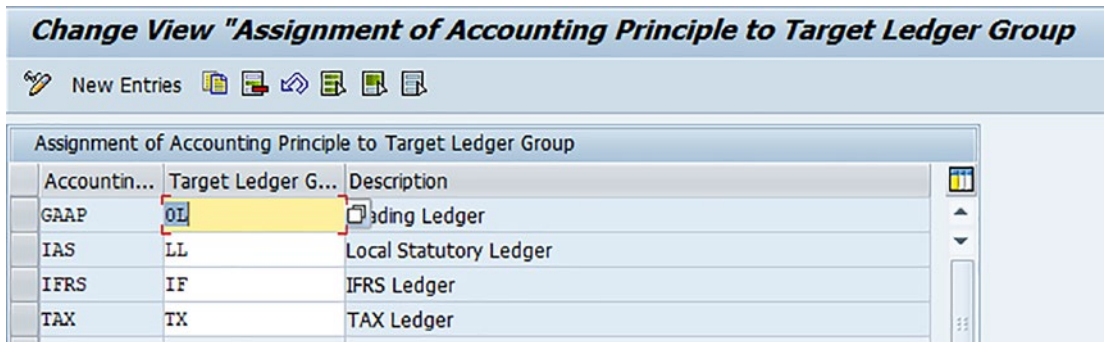
Define accounting principles in Customizing for Financial Accounting under Financial Accounting Global Settings ► Ledgers ► Parallel Accounting ► Define Accounting Principles (see Figure 6-58).





**Figure 6-58.** Define Accounting Principles

Assign Accounting Principle to Ledger Groups (see Figure 6-59).



**Figure 6-59.** Assign Accounting Principle to Ledger Groups

Define Ledger Groups as follows:

Financial Accounting (New) ► Financial Accounting Global Settings (New) ► Ledgers ► Ledger ► Define Ledger Group (see Figure 6-60).

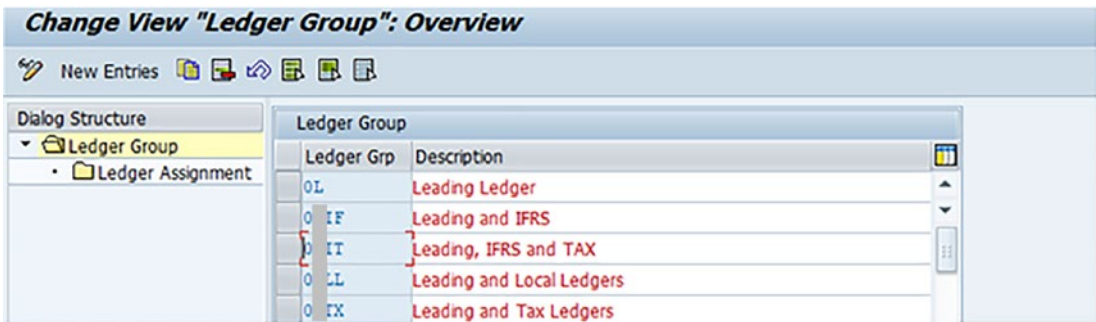


Figure 6-60. Define Ledger Group

Enter 0L and select the representative ledger in the Group field (see Figure 6-61).

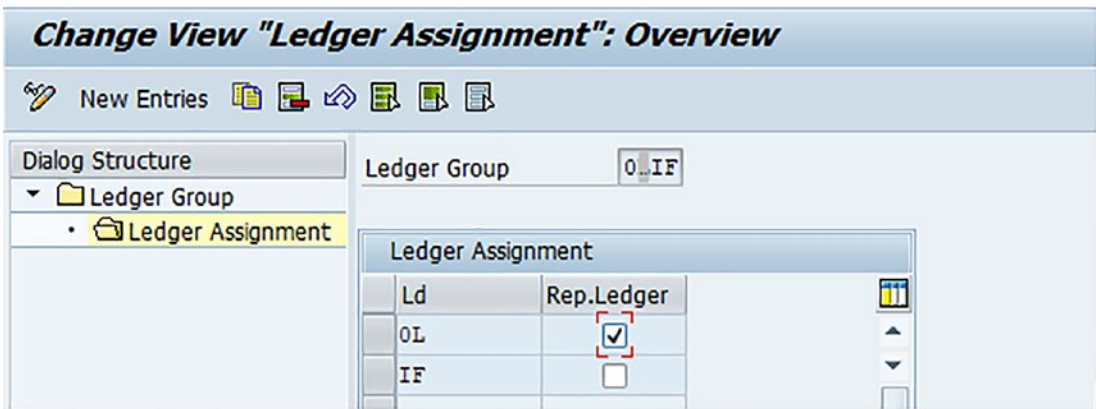


Figure 6-61. Ledger Assignment

Enter 0L and select the representative ledger in the Group field (see Figure 6-62).

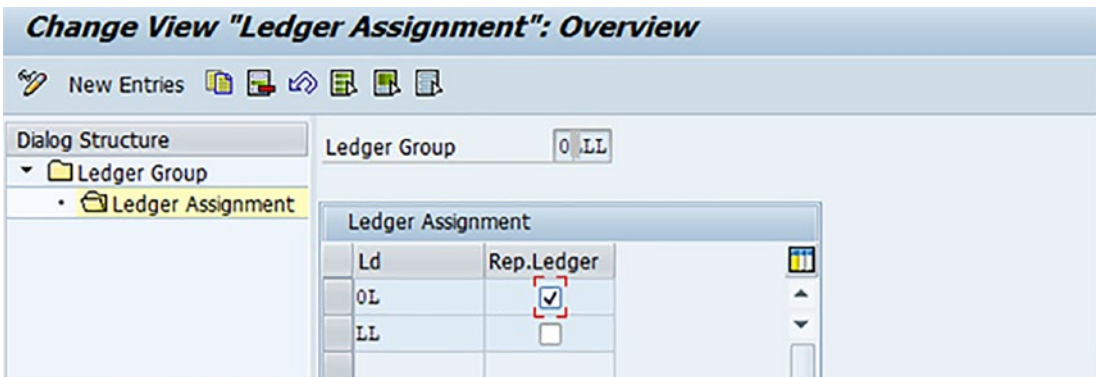


Figure 6-62. Ledger assignment

Define Settings for Ledgers and Currency Types: Financial Accounting ► Financial Accounting Global Settings ► Ledger ► Define Settings for Ledgers and Currency Types (see Figure 6-63).

Company Code 1710 Company Code 1710

Company Code Settings for the Ledger

Company Code Settings

Fiscal Year Variant Cal. Year, 4 Special Periods

Posting period variant Variant 1710

Accounting Principle IG

Functional Currency 10 Company Code Currency (USD - US Dollar)

Parallel Accounting Using G/L Accounts

Local Currency - 1st FI Currency

Currency Type 10 Company Code Currency (USD - US Dollar) Source Currency Type 00

Global Currency - 2nd FI Currency

Currency Type 30 Group Currency (USD - US Dollar) Source Currency Type 10 Company Code Currency (USD - US Dollar)

**Figure 6-63.** Define Settings for Ledgers and Currency Types

You get a message, as shown in Figure 6-64.

Consistency Check: Display messages

Typ	Itc	Message Text
	000	You have set indicator Parallel Accounting by G/L Accounts

**Figure 6-64.** Information message

Press Enter to accept. We have to add both accounting principles to the 0L ledger (see Figure 6-65).



Figure 6-65. Overview of Accounting principle to ledger

Chart of depreciation (see Figures 6-66 and 6-67).

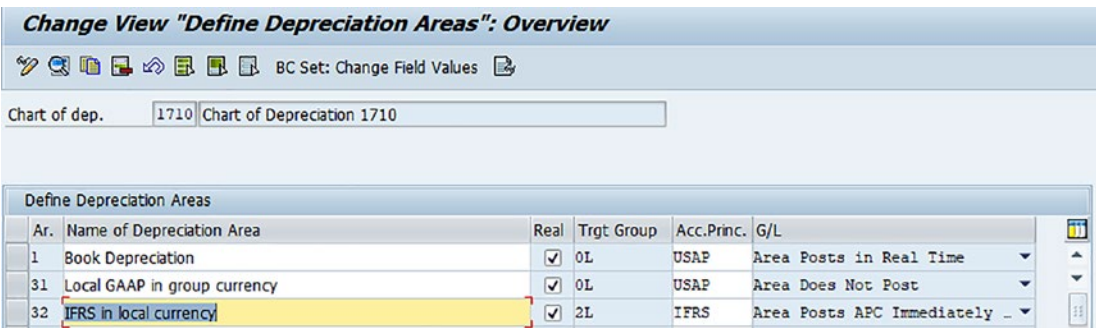


Figure 6-66. Change Define Depreciation Areas view

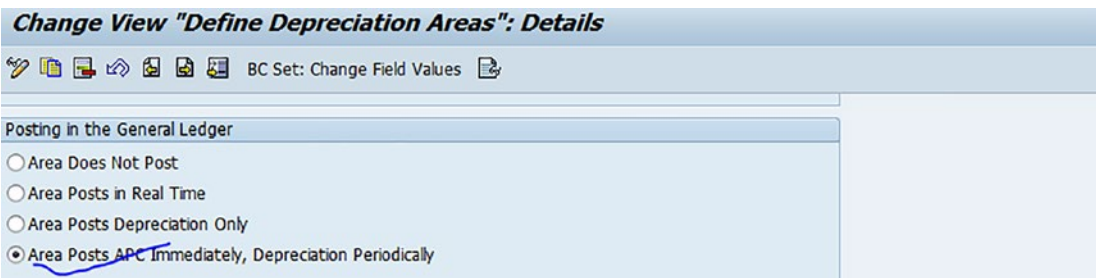
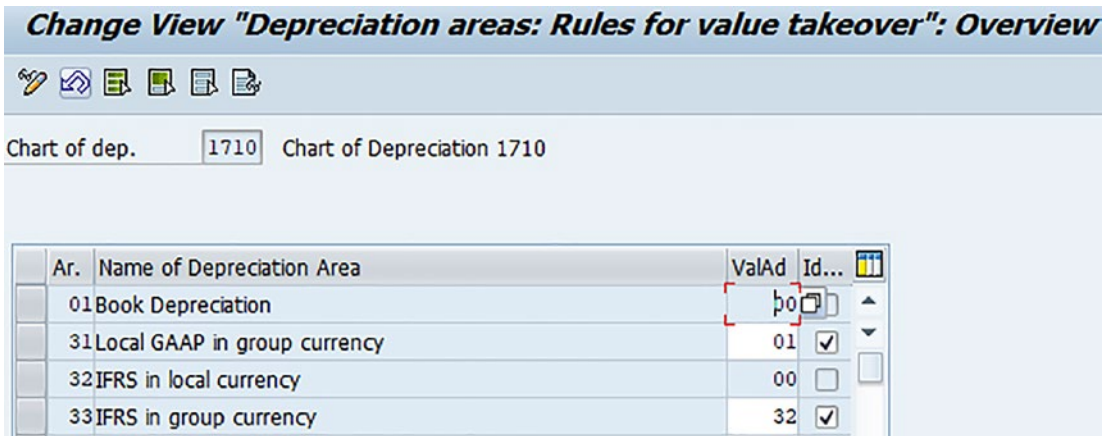


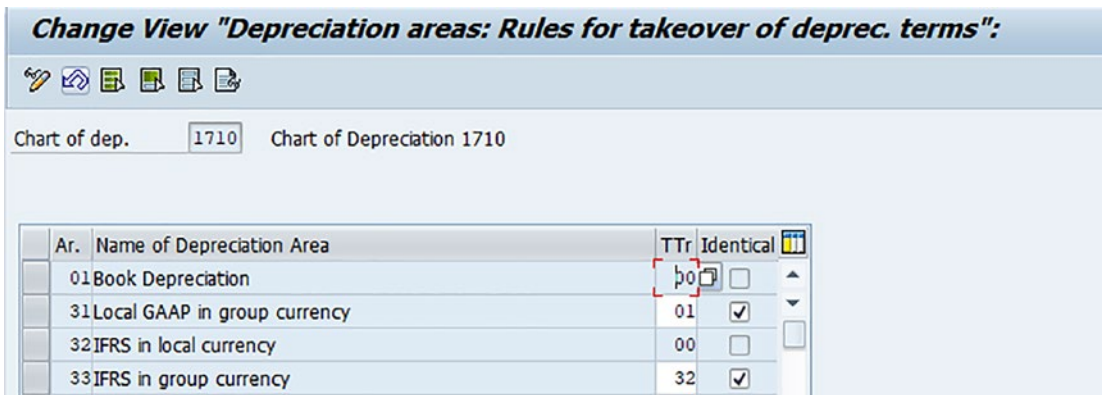
Figure 6-67. Chart of depreciation

Specify Transfer of APC Values (see Figure 6-68).



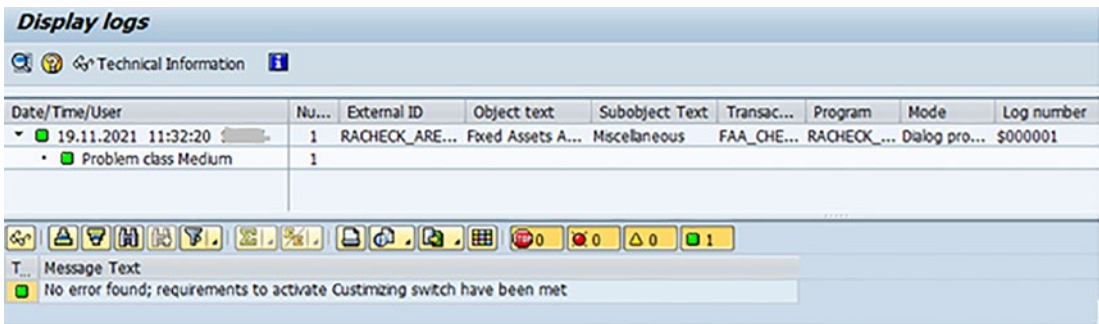
**Figure 6-68.** Specify transfer of APC values

Specify Transfer of Depreciation Terms (see Figure 6-69).



**Figure 6-69.** Specify transfer of depreciation terms

Check Active Charts of Depreciation for Asset Accounting: Financial Accounting ► Asset Accounting ► Overview for Experts ► Check Active Charts of Depreciation for Asset Accounting (see Figure 6-70).



**Figure 6-70.** Check active charts of depreciation for Asset Accounting

## Conclusions

Before a system conversion to SAP S/4HANA, you must perform year-end closing for the previous years and period-end closing activities for the current fiscal year and the current period in Asset Accounting and other subledgers. This must be done to make sure a clear cutoff is made for the conversion. Reconcile GL with all other subledgers (submodules FI) along with FI-AA.

A few advantages of New Asset Accounting are the following:

- The New Fixed Asset Accounting based on ACDOCA.
- No redundancy in data storage. It posts only in the universal journal entry table.
- Reconciliation between G/L and AA is ensured by design. So reconciliation time can be saved.
- All non-statistical items are updated in ACDOCA.
- Even after migration, reporting for previous fiscal years is possible.
- Transparent assignment of depreciation area to ledgers and accounting principles.
- Depreciation posted with all details.
- Accumulated depreciation and depreciation cost by asset.
- Auditability and simplicity.
- Independent and complete depreciation areas of equal power.



- Simplified chart of depreciation:
  - New document display
  - New transactions for ledger group specifics
  - Quick and transparent throughout the period
  - Asset balances in real time
  - APC postings not needed anymore
  - Plan values in real-time
  - Elimination of reconciliation steps
  - Fast depreciation posting run
  - New data structures and parallel processing
  - Navigation and drill-down per accounting principle and ledger
  - Posting to different periods is now possible

This chapter covered Credit Management Preparations for Conversion, Material ledger Preparation for Conversion, Actual Costing Preparation for Conversion, Trade Finance Preparation for Conversion, Revenue Recognition Preparation for Conversion, and Preparation for Classic Cash Management for Conversion. The next chapter covers the most important preparation activities of SAP S/4HANA conversion.



## CHAPTER 7

# Preparation Phase (Preparation Prior to Conversion) – Part 3

This chapter provides an overview of the preparation and migration activities that are needed during SAP S/4HANA conversion related to the following functional core areas:

- Credit Management Preparations for Conversion
- Material Ledger Preparation for Conversion
- Actual Costing Preparation for Conversion
- Trade Finance Preparation for Conversion
- Revenue Recognition Preparation for Conversion
- Preparation for Classic Cash Management for Conversion

## Credit Management Preparations for Conversion

Consultants working on the conversion project should verify use of the SAP Credit Management. If the current source system has FI-AR-CR-based credit management, or FI-AR Credit management along with FSCM-based Credit Management FIN-FSCM-CR, then you have to plan for preparation and migration after SUM. (After the system conversion process.) You need not do anything before SUM. You only need to identify the use of the Credit Management in the source system. If FSCM-based credit management is in practice in the source system, no activity is required. But due to technical reasons, it is better to run migration steps even if the source system has FSCM based Credit Management.

## Determining if the Source System Has Credit Management Functionality

Ask the client if they are using transaction FD31/ FD32 (master data) or verify at table level KNKK and KNKA (see Figures 7-1 and 7-2).

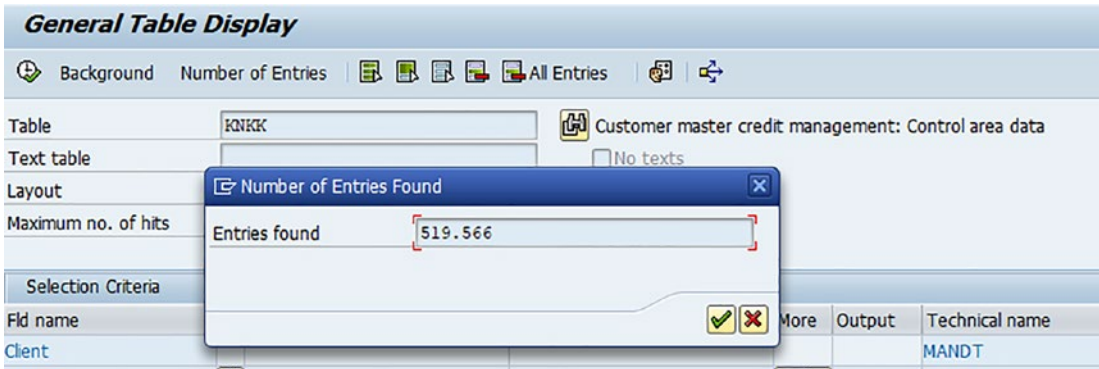


Figure 7-1. Table KNKK

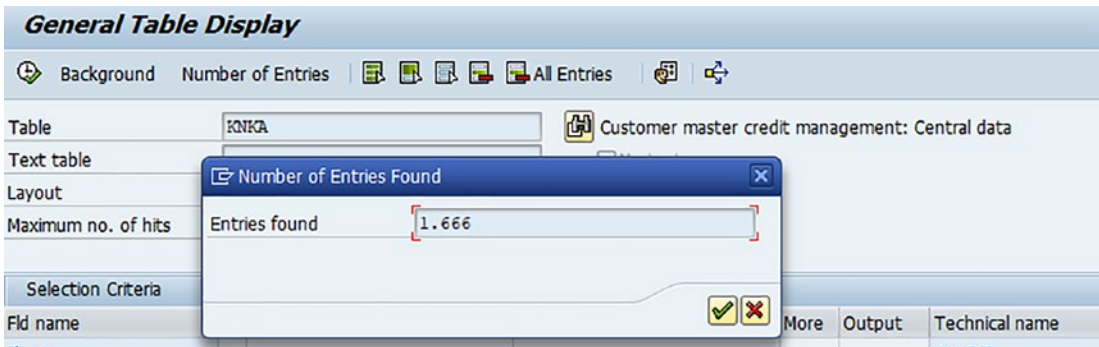
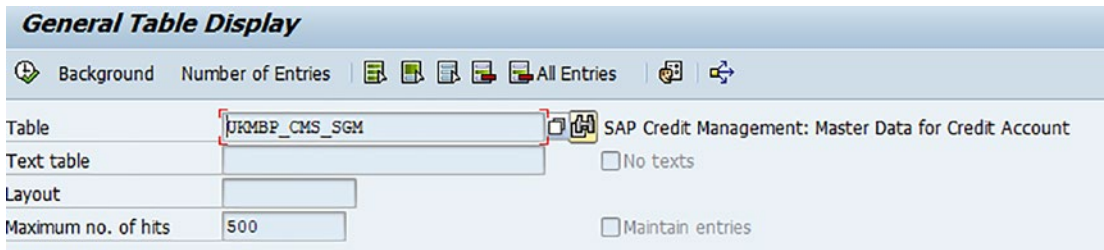


Figure 7-2. Table KNKA

Also verify with the client whether they are using the VKM1 to VKM4 transaction codes (to release blocked sales orders).

## Identifying the Use of FSCM-CR (FSM-Based Credit Management)

Verify with the client whether they are using transaction BP/UKM\_BP. Or you can verify this at the table level, by using UKMBP\_CMS\_SGM (see Figure 7-3).



**Figure 7-3.** Table UKMBP\_CMS\_SGM

Or to process sales documents, you can use the UKM\_CASE transaction.

If FI-based (SD-based) credit management is in use, you have to FIN-FSCM-CR after SUM. This movement includes configuration and master data, credit exposure, and credit decision data.

## Prerequisites for Migrating to SAP Credit Management

1. To finish all documents associated with payment, guarantee a letter of credit to be mentioned to the client.
2. Complete the accounting data migration.
3. Refer to SAP Notes 2227014 and 2270544.

## The Influence on User Activity and Business Processes

I provide some of the transactions here, but you should verify these based on SAP Help or the SAP Guide, or notes about complete changes.

F. 28, F. 31, F. 32, F. 33, F. 34, FCV1, FCV2, FCV3, FD32, FDK43, VKM1, VKM2, VKM3, VKM4, VKM5, and so on.

## Credit Management Preparation and Migration Activities After SUM

After SUM, find the menu path shown in Figure 7-4 in the SAP S/4HANA system.

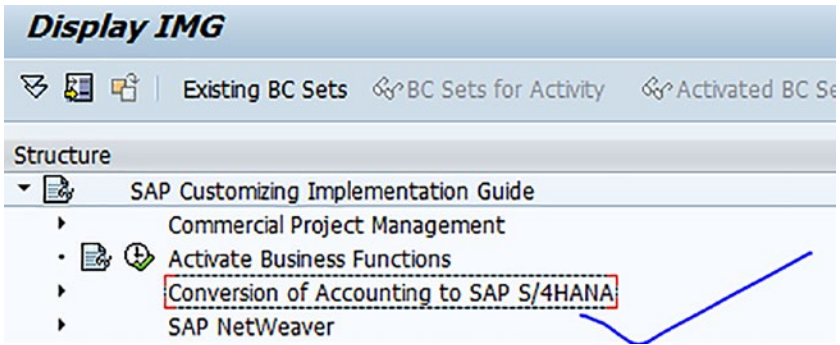


Figure 7-4. The SPRO path

You can find three parts for “Conversion of Accounting to SAP S/4HANA” (see Figure 7-5).

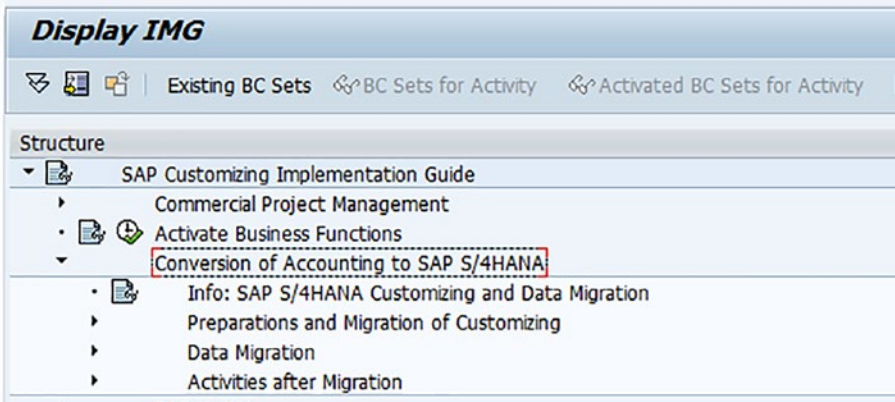
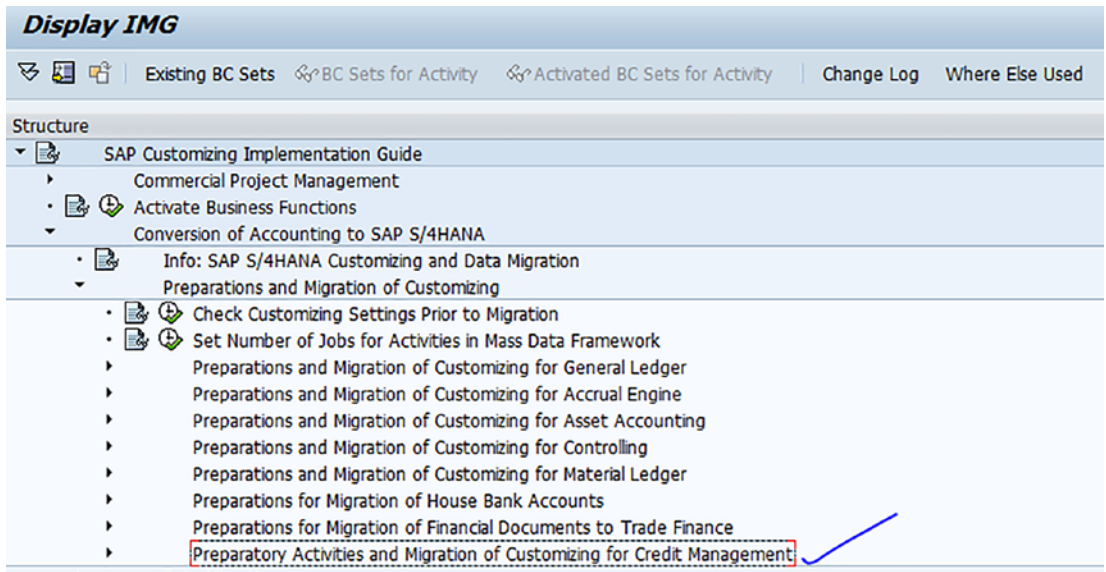


Figure 7-5. SPRO path: Conversion of accounting to SAP S/4HANA

1. Preparations and migration of customizing
2. Data migration
3. Activities after migration

In the first part, “Preparations and Migration of Customizing,” you'll find Preparatory Activities and Migration of Customizing for Credit Management. See Figure 7-6.

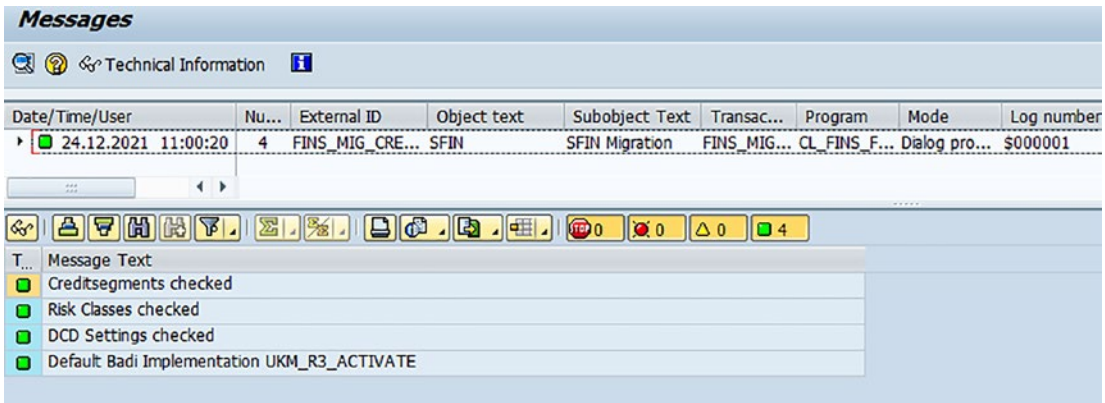


**Figure 7-6.** *Preparatory Activities and Migration of Customizing for Credit Management*

Under that, you can find the following:

- Define Settings for Credit Management Migration
- Migrate Credit Management Customizing
- Define Credit Analyst Group as Business Partner Group
- Assigning Credit Representative Group to Credit Analyst Group
- Define Customer Credit Group
- Assign Credit Management Group to Customer Credit Group
- Assign Credit Management Processor to Credit Analyst Group
- Check and Define Credit Management Customizing
- Check Customizing Settings

Once you complete these, the last step is checking the customizing settings. You should not get any errors, as shown in Figure 7-7.

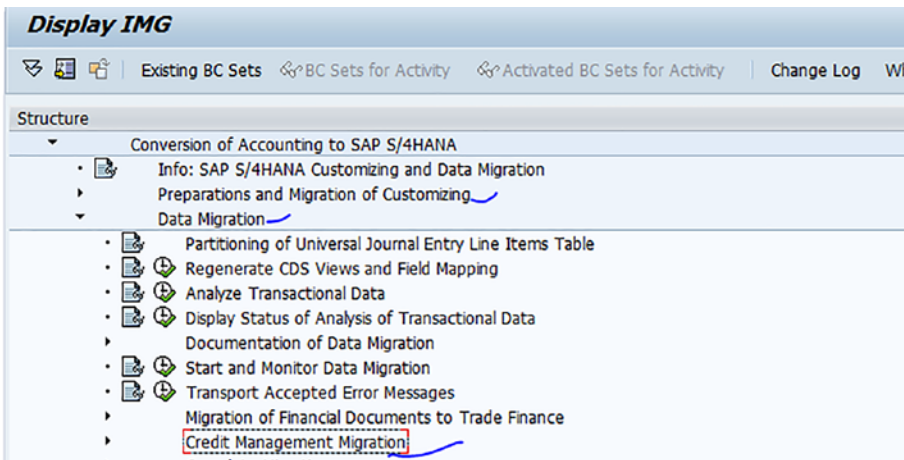


**Figure 7-7.** Check customizing settings

Figure 7-7 shows whether the setup for credit management customizing is accurate for the migration or not. If you get any warning or errors, that means you are missing something or something is wrong with the setup of FSCM based customizing.

After the preparation activities are completed, you can migrate to credit management.

Find an IMG task: Credit Management Migration under Data Migration (see Figure 7-8).



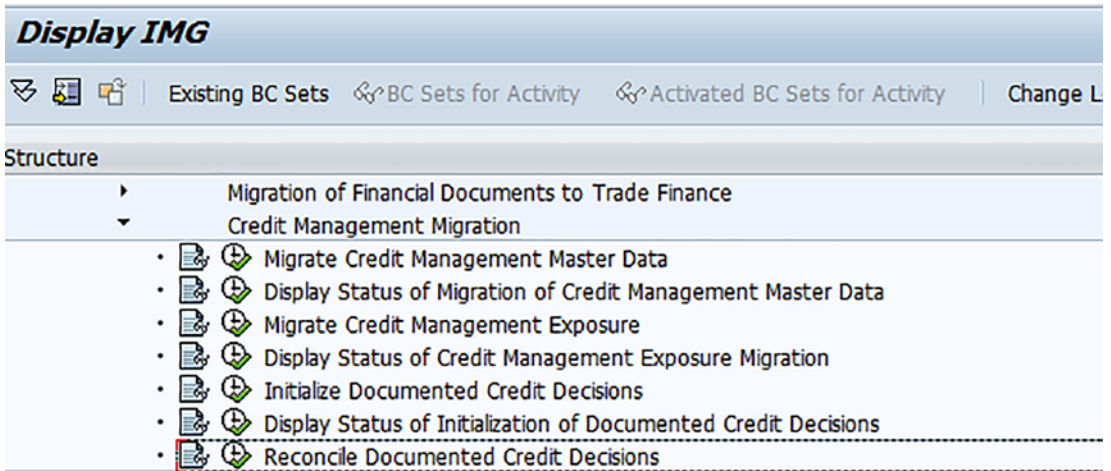
**Figure 7-8.** Credit Management Migration

The Credit Management Migration Task includes the following subtasks :

- Migrate Credit Management Master Data

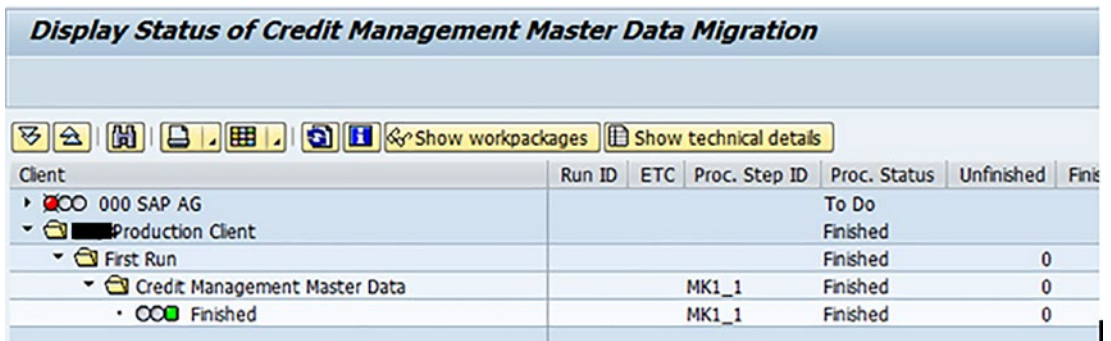


- Display Status of Migration of Credit Management Master Data
- Migrate Credit Management Exposure
- Display Status of Credit Management Exposure Migration
- Initialize Documented Credit Decisions
- Display Status of Initialization of Documented Credit Decisions
- Reconcile Documented Credit Decisions (see Figure 7-9)



**Figure 7-9.** Credit Management Migration tasks

Once the first step of the “Migrate Credit Management Master Data” process is done, you can find screen in the second step. Display the screen shown in Figure 7-10. You should not get an error.



**Figure 7-10.** Display the status of credit management



As per SAP Note 2518127, as part of the credit management master data migration, the credit accounts are created in FIN-FSCM-CR credit management only for the account numbers of the customers with the credit limit specification (KNKK-KNKLI). No credit accounts are created for the customer numbers (KNKK-KUNNR) if they differ from the credit accounts (KNKK-KNKLI). If you need additional credit accounts in the case of deviating customer numbers, you must create them after the migration.

If a credit limit check is performed for the customer in FI-AR-CR credit management, the credit limit of the customer defined in KNKK-KNKLI is used for the check. As a result, there is a parent-child relationship between the two customers. The migration does not transfer a relationship of this kind to the Business Partner. If the customer used in KNKK-KUNNR is a subordinate credit account to the customer defined in KNKK-KNKLI in FIN-FSCM-CR credit management, you must create a corresponding Business Partner relationship after the migration. Note that in FIN-FSCM-CR credit management, you must specify a credit limit for both Business Partners. This is because the credit limit check is performed for both Business Partners in the case of a credit assignment for the subordinate Business Partner.

## Material Ledger Preparation for Conversion

The data model changes, and simplification makes using the Material Ledger compulsory. It is part of SAP S/4HANA. Even if the source ECC system does not have ML, it automatically activates ML during conversion. Whereas Actual Costing is optional and not mandatory to use.

After conversion, when using the system, if customers add plants, then you need to activate the Material Ledger (ML) manually using the OMX1 transaction code.

- Currency customizing of Material Ledger is to be done using the OMX2 and OMX3 transaction codes.
- Default Material Ledger Type 0000 is no longer used.
- You can define up to three currencies for ML Type. Defining the currency and valuation types that are fitting for the Material Ledger is mandatory.

Here are the steps to be implemented:

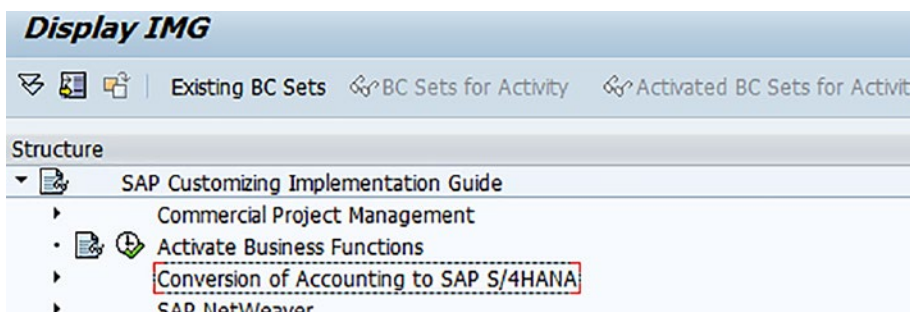
1. Use the OMX2 transaction code for currencies.
2. Use the OMX3 transaction code to assign this ML type to plants or valuation areas.

## Before SUM (Before System Conversion)

Before running SUM, all costing runs should be completed whether or not Actual Costing CKMLCP/CKMLCPAVR is in use. If they are in use, you must complete them without any errors. The post-closing step should be positively executed, which means no materials with an “open” status exist. After conversion, it will no longer be possible to alter the costing runs created prior to system conversion. Make sure there are no incomplete costing runs.

## Material Ledger Preparation Activities

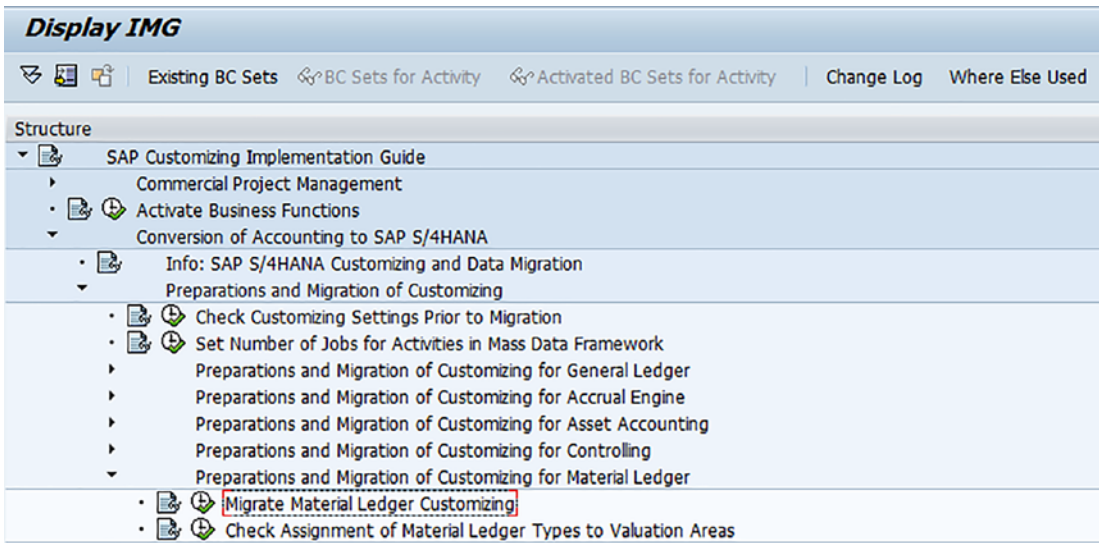
Once the system is converted (after SUM), you can find the “Conversion of Accounting to SAP S/4HANA” option in SPRO (see Figure 7-11).



**Figure 7-11.** The Cockpit in SPRO

You can find the “Preparations and Migration of Customizing for Material Ledger” option using this menu path:

SPRO>>>>> Conversion of Accounting to SAP S/4HANA>>>>> Preparations and Migration of Customizing ► Preparations and Migration of Customizing for Material Ledger >>>>> Migrate Material Ledger Customizing (see Figure 7-12).



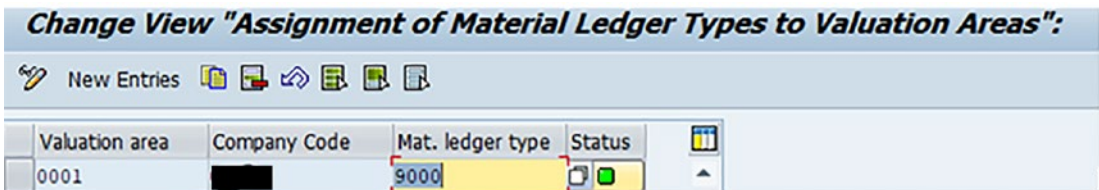
**Figure 7-12.** *The Migrate ML Customizing screen*

The Material Ledger is required if the current system has Materials Management - Inventory Management. It is mandated that you migrate the Material Ledger even if you are using ML in the source system and using a simple Finance system. It is not needed when you are upgrading from SAP S/4HANA 1610 to 2021 or higher versions.

This step helps in migrating the customizing settings for the ML. Note that this step has to be performed only after “Preparations and Migration of Customizing for GL” and other the previous steps.

Execution in the background is not recommended. Contact SAP if there are any error messages during this step.

Once this step is completed, the ML customizing settings will be migrated. After migration, check the assignment of Material Ledger types to plant or valuation areas. If assignments do not happen, you can assign them manually (see Figure 7-13).



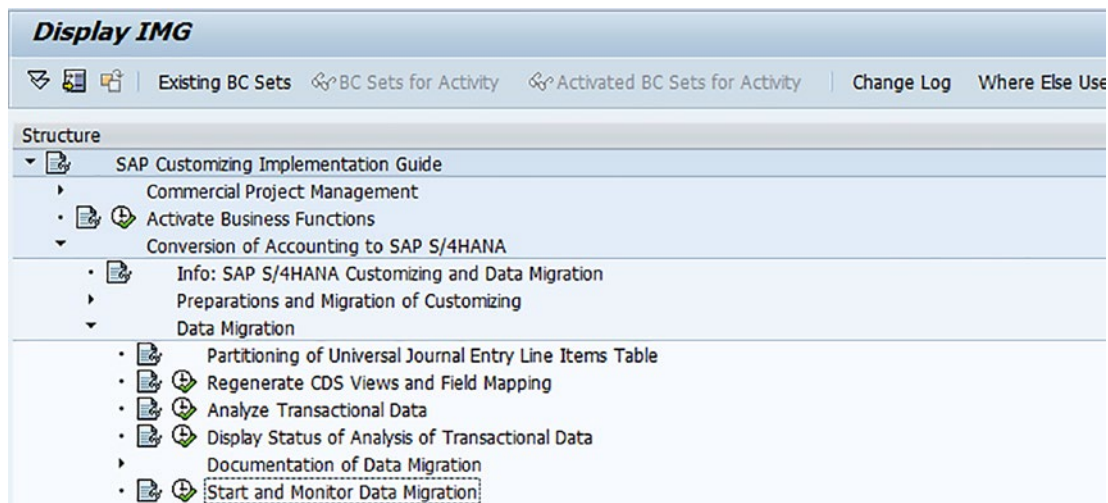
**Figure 7-13.** *The correct assignment*

ML type should be the same for all valuation areas within a company code.

## Material Ledger Data Migration

Refer to this menu path:

SPRO >>>>> Conversion of Accounting to SAP S/4HANA >>>>> Data Migration  
>>>>> Start and Monitor Data Migration (see Figure 7-14).



*Figure 7-14. The Migration Monitor IMG*

## Start and Monitor Data Migration

After the preparation activities, you start the Data Migration Monitor. This monitor covers “Migration of Material Ledger data” as well.

### Step M10 of the Migration Monitor

Step M10 is called Migrate Material Ledger Master Data. Since it is mandatory in SAP S/4HANA, this step must be performed to activate ML for all valuation areas. This creates ML master data tables: CKMLHD, CKMLPR, CKMLPP, and CKMLCR in all ML currencies for periods more recent than the last period of the previous year. All aggregate tables—such as inventory aggregate values stored in tables MBEW, EBEW, QBEW, OBEW, and their historic data tables MBEWH, EBEWH, QBEWH, and OBEWH—are migrated into ACDOCA, the new universal journal entry table.

This migration does not activate Actual Costing.

## Step M11 of the Migration Monitor

Step M11 is called Migrate Material Ledger Order History.

If ML was not in use in any of the valuation areas earlier to such conversion, this activity step converts all current purchase order history data stored in the EKBE, EKBEH, EKBZ, and EKBZH tables and the production order history data stored in the MLAUFCR and MLAUFCRH tables into the ML currencies.

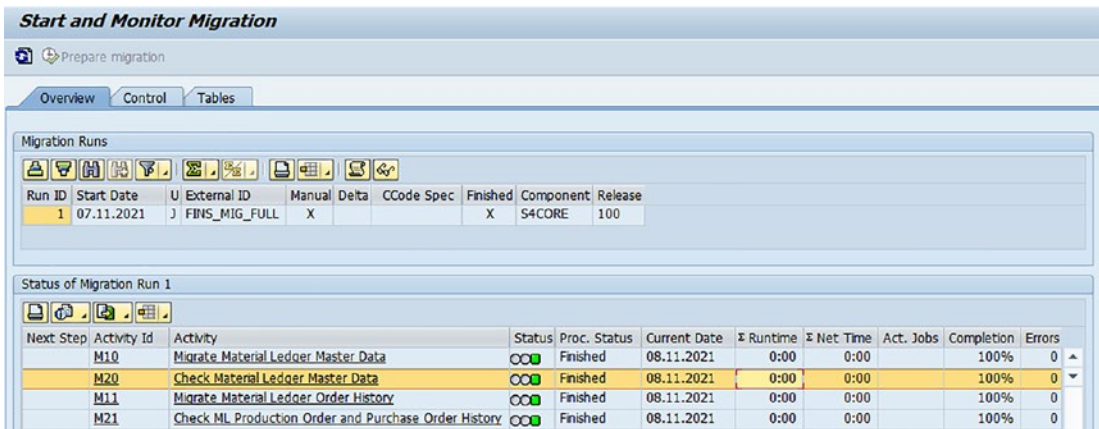
## Step M21 of the Migration Monitor

Step M21 is called Check ML Production Order and Purchase Order History.

The task is to verify whether all production order history and purchase order history table data is converted into the ML currencies.

Under Preparations and Migration of Customizing, verify SAP Note 2345739.

Once Material Ledger Data Migration is completed by the monitor, you can see that information, as shown in Figure 7-15.



**Figure 7-15.** Successful Material Ledger data migration from Steps M10 to M21

A common error during migration is with the OMX1 transaction. You will not be able to see the valuation area with Material Ledger Type 9000. The reason is that the order of customizing steps for assigning a ML type to the valuation area has been changed as of S/4HANA 1610 (see Figure 7-16).

<b>Change View "Activation of Material Ledger": Overview</b>							
Valuation Area	Company Code	Mat. ...	Status	ML Act.	Price Deter.	Price Det. Bir	
0001	██████	9000	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2		
0003	██████	9000	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2		

**Figure 7-16.** The order of customizing steps for assigning a ML type to the valuation area has been changed as of S/4HANA 1610

The sequence is as follows:

1. Define Material Ledger type in transaction OMX2 .There is no default Material Ledger Type 0000 anymore. Customizing in Financial applications allows you to assign more than three currency and valuation types as being relevant in your company code. As the Material Ledger still supports only three currency and valuation types, you can no longer use an ML Type that references currency settings defined in FI or CO (the "Currency Types from FI" and "Currency Types from CO" flags). Instead, you have to explicitly define the currency and valuation types that are relevant to the Material Ledger.
2. Assign corresponding Material Ledger type to the valuation area in OMX3.
3. Activate Material Ledger for the corresponding valuation area in OMX1.

For periods before the migration, you must use only the CKM30LD transaction. For periods after the migration, it may have new data as well as migrated, old data. The migrated data is summed up on category level (receipts, consumption and so on). KM3 shows an overview for migrated data as well as new data. For individual lines of old data, use transaction CKM30LD. The warning for "Unmigrated Data" should be shown in CKM3 if there is old data in table MLCD in the period and ML Actual Costing is active and productive. In the CKM30LD transaction before migration, you can see single-level and multi-level price differences from table MLCD (as explained previously). For the data that was migrated from ECC to S/4HANA, check the details provided in SAP Note 2426371.



# Actual Costing Preparation for Conversion

Before running SUM, and during the preparation phase, you have to verify that you can validate if ML (Material Ledger) and Actual Costing are active in the source system

Choose SPRO >>>> Controlling >>>> Product Cost Controlling >>>> Actual Costing/Material Ledger >>>> Actual Costing (see Figure 7-17).

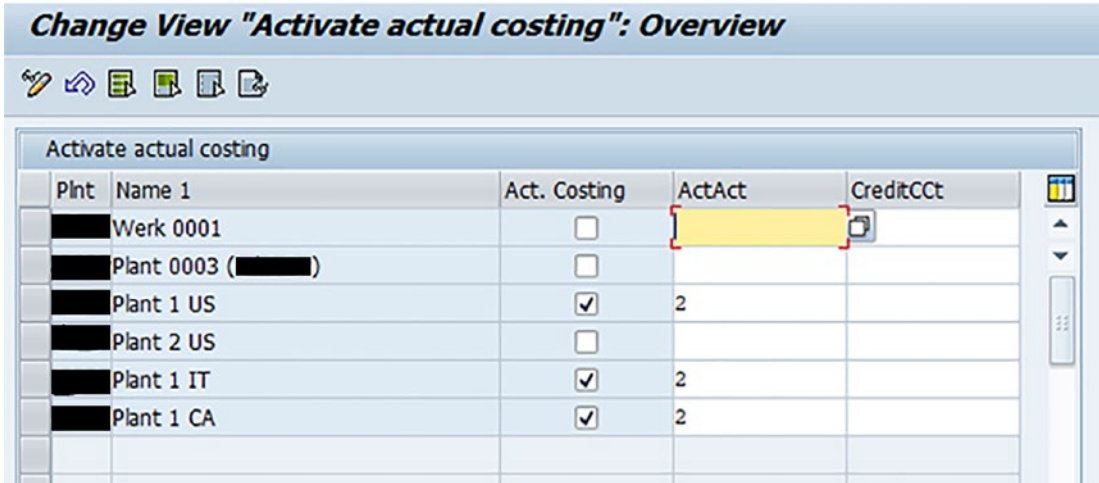


Figure 7-17. Actual Costing SPRO screen

If you see the checkbox, that means that Actual Costing is active for that plant.

You can see this at the table level also. Table T001W, field MGVUPD.

In SAP S/4HANA, the data model for ML has been changed and the processes are simplified. Before starting the ML conversion, install notes are specified in SAP Note 2345739.

Material Ledger is mandatory but Actual Costing is not. If the source system has Actual Costing, the data will be migrated to new data structures to aid fast and resourceful cost calculations.

You must have a run cost cockpit before the system reaches downtime and you should not have any errors in the CKMLCP log.

As the posting logic Actual Costing has changed, you need to do some adjustments in the account determination:

1. Transaction OBYC
2. Transaction PRL



3. Transaction GBB/Account Modification AUI
4. Transactions PRV and KDV

Refer to SAP Note 2345739 for all the prerequisite SAP Notes to be installed for Actual Costing as a part of preparation activity. Refer to SAP Note 2352383 as well.

Refer to SAP Note 2387172, in addition to Actual Costing, if the source system has the Actual Cost Component Split (the OMXF transaction) or you have activated WIP at Actual Costs (the OMXW transaction).

## Trade Finance Preparation for Conversion

Consultants working on SAP S/4HANA conversion activities should verify if the source system has the Foreign Trade functionality in the areas SD-FT or MM-FT. This feature is unaccommodated in SAP S/4HANA, post-conversion. If a system has related custom code, it does not work after system conversion. The Foreign Trade (SD-FT) functionality will not be available; customers can use SAP S/4HANA for international trade once they move to SAP S/4HANA.

If customers are interested in using Trade Finance Transactions like Letter of Credit in SAP S/4HANA, they have to migrate from SD-FT to TRM-TF. This is integrated with Sales.

Option 1: SAP S/4HANA International Trade

Option 2: SAP GTS

To perform these activities, refer to the following SAP Notes along with the SAP S/4HANA Conversion Guide and other SAP Help documents

- 2223144
- 2376556
- 2869019
- 2267310

## Pre-Transition Checks

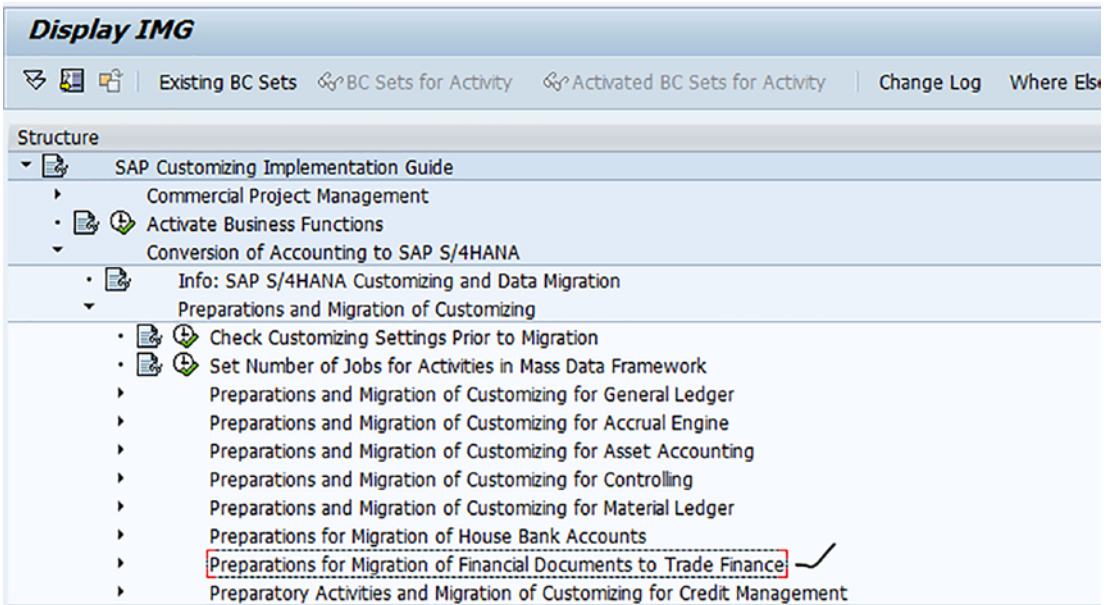
Legal Control Service related: Refer to the SAP Note 2213485

Letter of Credit Related: SAP Note 2213485.

Preference Management Related: SAP Note 2213485

All the preparation activities must be performed before SUM. Once SUM is completed and in SAP S/4HANA, you have preparation activities related to Foreign Trade. These are the activities after SUM in SAP S/4HANA system, not in the ECC system.

Choose SPRO >>>> Conversion of Accounting to SAP S/4HANA >>>> Preparations and Migration of Customizing >>>> Preparations for Migration of Financial Documents to Trade Finance (see Figure 7-18).



**Figure 7-18.** The IMG screen for Preparations for Migration of Financial Documents to Trade Finance

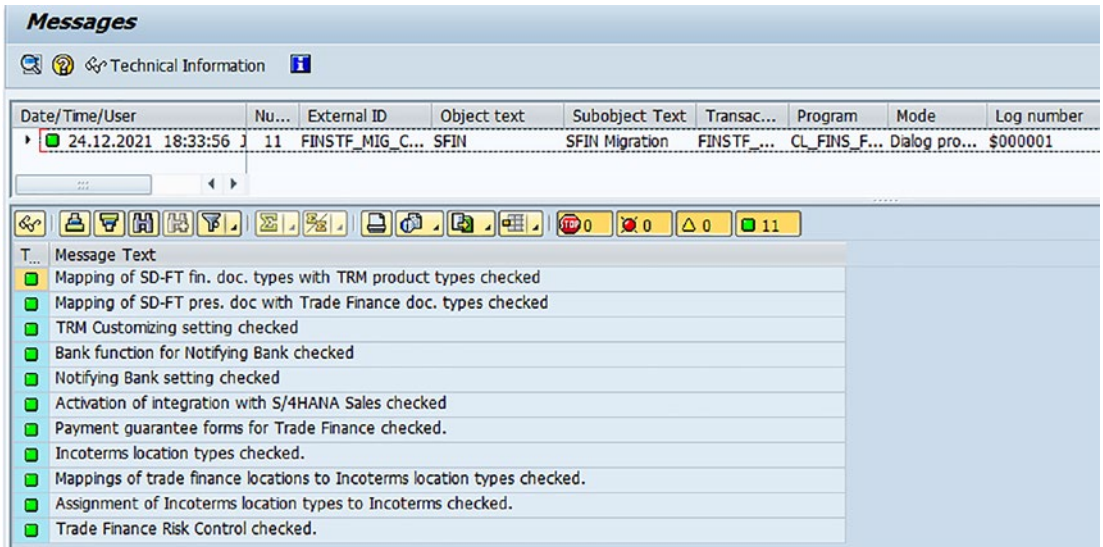
## Preparing for Migration of Financial Documents to Trade Finance

Here are the preparation steps:

1. Set the migration needs
2. Map SD-FT Financial Document Types with TRM 850 Product Types
3. Map SD-FT Presented Document with TRM TF Document Types
4. Set bank function for advising bank
5. Map SD-FT Banks with Business Partners

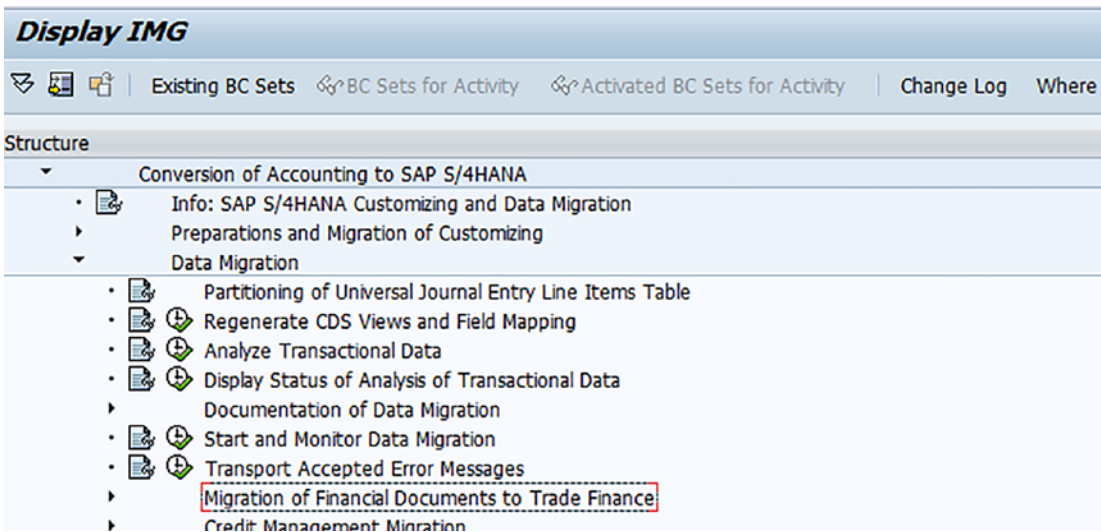
6. Map company codes in SD-FT and in trade finance
7. Check and define customizing for integration with sales
8. Check customizing settings

Once this configuration is completed, check the customizing settings. You should not see any errors. See the example in Figure 7-19.



**Figure 7-19.** Successful execution of the “Check Customizing Settings” step

Choose Data Migration >>>> Migration of Financial Documents to Trade Finance (see Figure 7-20).



**Figure 7-20.** The “Migration of Financial Documents to Trade Finance” path

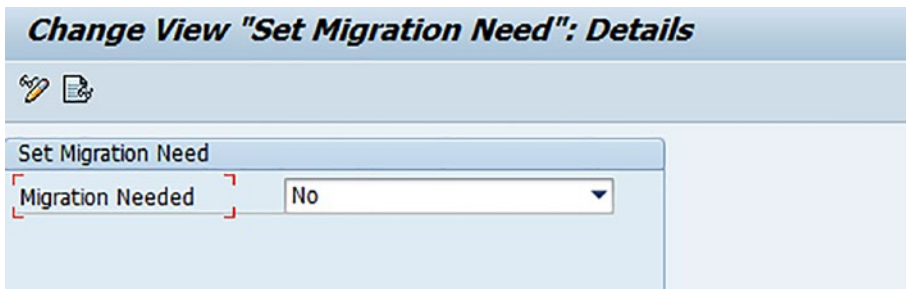
Here are the migration steps:

1. Migrate master data of financial documents
2. Display migration status of master data of financial documents
3. Assign sales orders to trade finance transactions
4. Display status of assignments of sales orders to trade finance
5. Initialize risk check decisions
6. Display status of initialization of risk check decisions
7. Reconcile risk check decisions

## Business Case 2

If Foreign Trade migration is not needed, then you have to set status at follows:

SPRO >>>> Conversion of Accounting to SAP S/4HANA >>>> Preparations and Migration of Customizing >>>> Preparations for Migration of Financial Documents to Trade Finance >>>> Set Migration Need (see Figure 7-21).



**Figure 7-21.** Migration not needed

## Revenue Recognition Preparation for Conversion

SD-based revenue recognition will not be available after moving to SAP S/4HANA. The new functionality is called “Revenue Accounting and Reporting.” This should be used after converting the system to SAP S/4HANA. This provisions the revenue accounting standards as specified in IFRS15 and by local GAAPs.

### Business Process

As SD-based revenue recognition will not be available after converting the system, the older functionality will work.

### Which Transaction Codes Are Affected?

The following transaction codes are affected: OVACT, OVEP, VF42, VF43, VF44, VF45, VF46, VF47, and VF48. Refer to the SAP Notes/SAP Help for more information.

The Simplification Item Check Report shows the items related to revenue recognition.

To migrate SD Sales orders and subsequent documents to the Revenue Accounting solution, the operational load process has been introduced. Refer to SAP Note 2267342 to understand the need for a migration and a pre-check if SD Revenue Recognition data exists. See the following SI Check Item (see Figures 7-22 and 7-23).

Relevance	Last Co...	Exempti...	ID	Title	Job/Technology	Business Area
△	⊗	△	SIS_Logistics_MM-PM	S4TWL - Performance optimizations within Material Doc.	Supply Chain	Inventory
△	⊗	⊗	SIS_MasterData_PM	S4TWL - Simplification of copy/reference handling	Database and Data Management	Enterprise Information Managem
△	⊗	△	SIS_SD_RRn	S4TWL - ERP SD Revenue Recognition	Finance	Advanced Accounting and Finan
△	⊗	△	SIS_FIN_MISC_ML	S4TWL - Conversion to S/4HANA Material Ledger and A.	Finance	Cost Management and Profitabili
△	⊗	△	SIS_MasterData_PM	S4TWL - Foreign Trade fields in Material Master	Finance	Enterprise Risk and Compliance

Figure 7-22. SI check report

**Consistency check result**

Technical Information Help

Overview

- Consistency check overall information
  - Consistency check performed in system
  - Software Update Manager(SUM) mode: No.
  - Check performed in background mode (sy-batch): No.
  - Check started at 24.12.2021 11:13:01 CET
  - Check ended at 24.12.2021 11:13:02 CET
  - Check total run time is 1 seconds
  - Simplification Item Catalog source: Fetched from SAP
  - The simplification item catalog version used for the check was downloaded from SAP at 22.12.2021 12:32:11 UTC
  - Target version: SAP S/4HANA 2021 [Initial Shipment Stack]
  - Latest version 149 of SAP Note 2399707 is implemented.
  - Latest version 92 of SAP Note 2502552 is implemented.
  - 0 items have been skipped for consistency check in total.
  - 1 items checked for consistency
- Check item "SIS: SD\_RRn"
  - Highest consistency check return code: 7
  - Skip-able consistency error found, exemption can be applied to the item in simplification item list.
  - Check started at 24.12.2021 11:13:01 CET
  - Check class: CLS4SIC\_SD\_BIL\_RA
  - Check ended at 24.12.2021 11:13:02 CET
  - Consistency check running time: 1 seconds
  - Consistency check result...
  - Check Sub-ID:"SAP\_SD\_BIL\_RA\_CHECK\_REVFIX", return code = 7 .
    - Migration from SD Revenue Recognition to Revenue Accounting required. See SAP note 2777486

Figure 7-23. SI Check Report: Revenue recognition Item details

## How Do You Resolve This Error?

The resolution as per SAP Note 2777486 is the following error message:

Migration from SD Revenue Recognition to Revenue Accounting required.  
 No SD Revenue Recognition Lines (VBREVE) with REVFIX = M have been found.



Because the VBREVE-REVFIX (Fixed Revenue Line Indicator) flag is set to “M” during the migration process with FARRIC\_OL, it means that no data has been migrated.

Refer to SAP Note 2777486. Before conversion, you must migrate those sales orders and contracts that are not entirely delivered or invoiced or both, processed by SD Revenue Recognition to SAP Revenue Accounting and Reporting. It should also include deferred revenue yet to be realized for which you suppose subsequent actions, for example growth in quantity, create credit memo, or withdraw invoice.

First you must evaluate, before you start conversion to SAP S/4HANA, whether a migration to SAP Revenue Accounting and Reporting is conceivable for your business. Refer to SAP Notes 2227824 and 2267342.

The complete migration guide for SD Revenue Recognition processes has been released for customers in SAP Note 2733866.

## Preparation for Classic Cash Management for Conversion

This section speaks about the preparation activities needed for cash management prior to SUM during the SAP system conversion process.

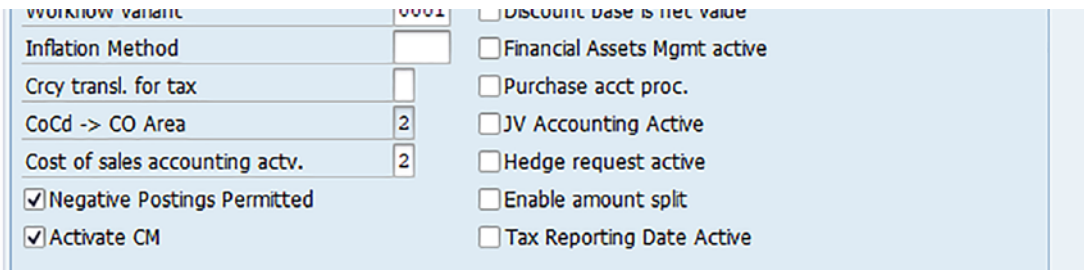
Once customers move to SAP S/4HANA, the best cash management solution is SAP S/4HANA Finance for cash management. The SAP ECC classic Cash Management and Liquidity Planner are not available after moving to SAP S/4HANA.

## Cash and Liquidity Management to SAP S/4HANA

Consultants working on the conversion project need to verify if the customer’s ECC system has classic Cash and Liquidity Management functionality in use. If the customer has been using classic cash management, they have to convert their system first. Then they have to implement SAP S/4HANA Finance for cash management as a separate task.

To determine if Classic Cash management is in use, access transaction OBY6. The checkbox for “Check Cash Management” will indicate whether Cash and Liquidity Management are active per company code. Refer to SAP Note 2149337. You can also find data in the classic cash management tables in SAP ECC (see Figure 7-24).





**Figure 7-24.** Check cash management

Go to transaction code OBY6. If the Activate CM checkbox is checked, Cash Management is active for the company code.

Also verify cash management usage in tables. Sometimes during implementation consultants might check this knowingly or unknowingly, so verify usage of this functionality in tables shown here:

- FDM1 and FDM2
- FDS1 and FDS2
- FDSB and FDSB2
- FDD1 and FDES
- FDESIST and FDFIEP
- FDI1, FDRE, FDLF, and FDLF2

If there are entries in those tables, speak with your customer and know the usage of this functionality. Also verify if FLQSUM and FLQSUM\_FC have entries. If you see entries in those tables, Liquidity Planner has been used.

The classic Cash and Liquidity Mgt. FIN-FSCM-CM and FIN-FSCM-LP are not part of SAP S/4HANA. You have to use S/4HANA Finance for cash management based on FSCM. If classic cash management is in use, you can migrate master data and transactional data to SAP S/4HANA. But refer to the SAP Notes and guide for more information.

## After Accounting Conversion

If you are using classic Cash and Liquidity Management, you can migrate relevant master data and transactional data to SAP S/4HANA. You can do this after completion of migration of accounting. Then change and assign necessary roles to the user IDs.

You have assigned roles to users. Activate the business function FIN\_FSCM\_CLM. Then configure full scope for Cash Management Scope. Refer to SAP Note 2769531 and check for prechecks.

Then, you must complete all the necessary configurations for cash management in SAP S/4HANA.

## Conclusions

To optimize the move to SAP S/4HANA, it is ideal to demonstrate the benefits of SAP Credit Management (Component: FIN-FSCM-CR). For example, demonstrating the advanced and automated credit management processes, HANA-based reporting and analytics, SAP Fiori apps for credit management, and so on, will help SAP customers to plan for the future and enhance their credit-management functionalities.

Similarly, identifying uses of SD Revenue Recognition in advance will help customers understand the functionalities of Revenue Accounting and Reporting. It will help show them the need for additional time to spend on the Revenue Accounting migration process before conversion.

One of the most important tasks in conversion is Foreign Trade. Consultants working on the project should verify if they can set the status "Not Needed for Migration" if foreign trade is not in use. If that is relevant, they must plan for migration of FI transactions to trade finance. It is important to check whether foreign trade processes are in use in third-party foreign trade systems.

The next chapter is an overview of the SUM tool. It covers the Conversion Cockpit preparation activities, the Data Migration Monitor, and the activities after the conversion activities.

## CHAPTER 8

# Realization Phase (Preparation and Migration of Customizing)

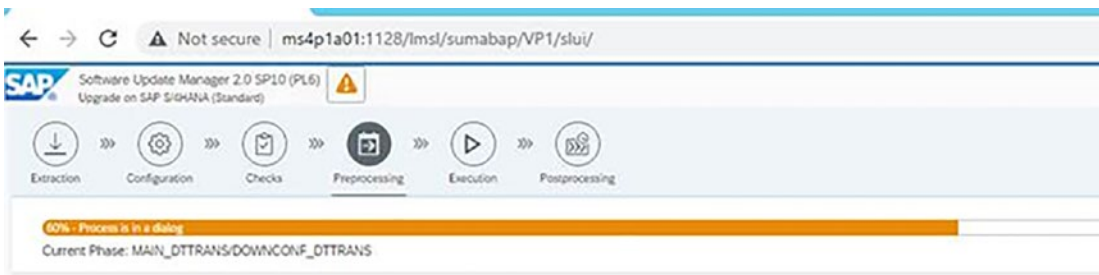
After the preparation phase, consultants start working with the SUM (Software Update Manager) tool. This tool is used to convert the system to SAP S/4HANA. Consultants might have executed the Maintenance Planner before the SUM. The SUM tool requires the `stack.xml` file that's generated by the Maintenance Planner as an input.

## The Role of the Software Update Manager (SUM) Tool

SUM does the following:

- Database migration
- Installation of the SAP S/4HANA software
- Logistics data migration (finance data will be migrated by the Conversion Monitor during execution of the Conversion Cockpit, not by SUM)

The SUM has six steps—Extraction, Configuration, Checks, Preprocessing, Execution, and Postprocessing (see Figure 8-1).



**Figure 8-1.** SUM steps (on the top)

Note that from the Execution step, you can consider it as downtime until you close the Conversion Cockpit.

Usually, consultants who run SUM will let other consultants and customers know when they have to release all the transport requests to have a clean development cut. They also inform customers on the Development lock phase. The selection Lock is likely if upgrade media (upgrade DVDs) happens. Once they lock, no developments can be done. So you cannot do SE80 or Note implementations, no importing requests, or releasing requests, and so on.

## 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?

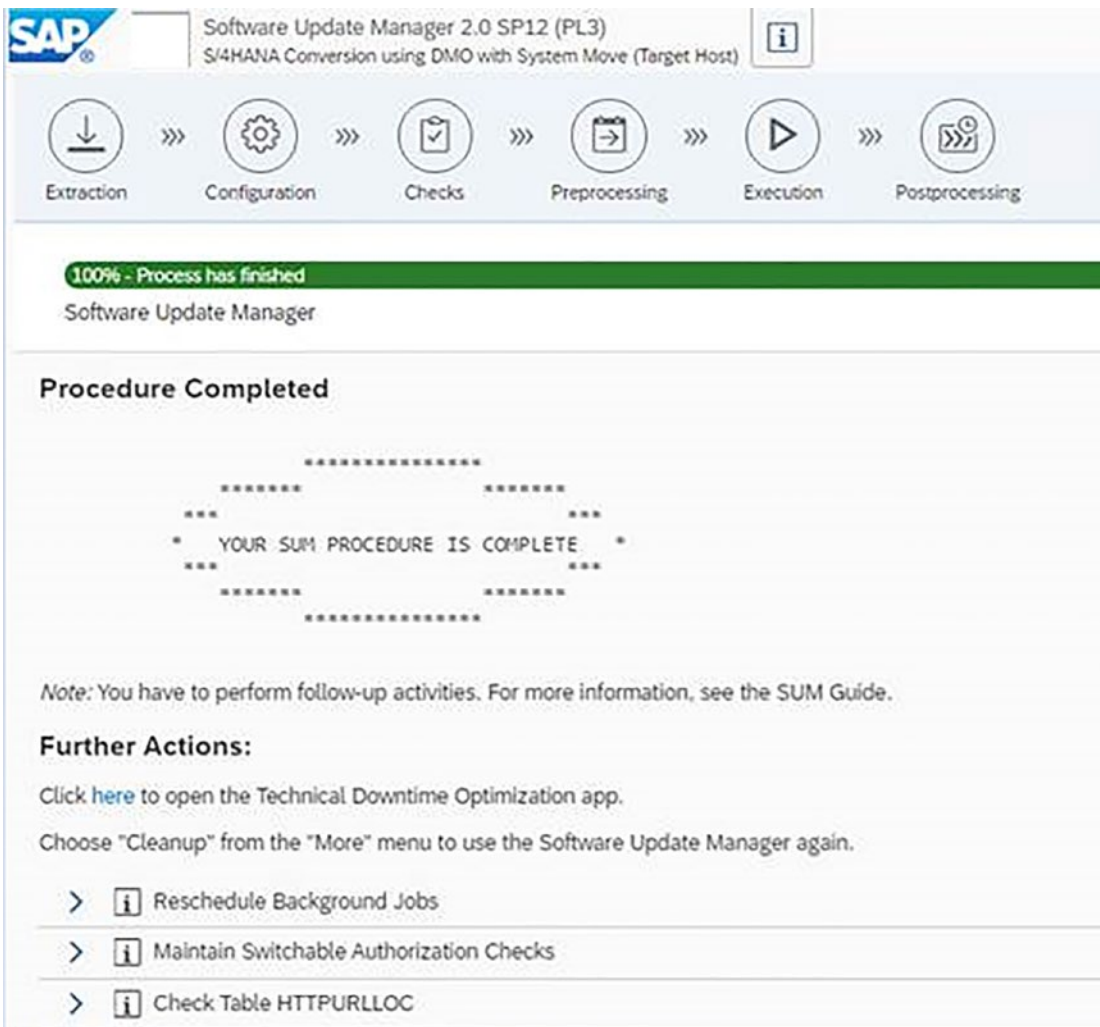
When SUM reaches downtime, the consultant who runs SUM will notify the business users and other consultants working on the project, lock all users, stop batch jobs, stop all interfaces to avoid dumps, and so on. They also do some other activities and ramp down activities as specified in the SUM and conversion guides. They also take a backup at this stage. That way, they will be able to go back to this stage if they get any errors. You must educate users not to log on during this downtime phase.

## When Will the SPAU Activities Be Done?

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

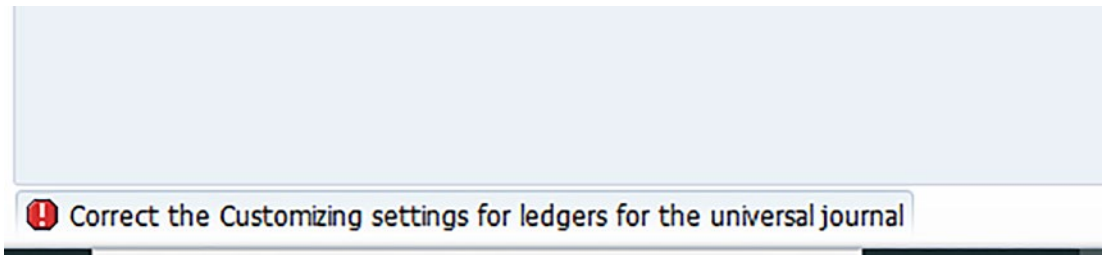
After post-processing, you can consider that SUM ends after the end of the technical downtime. But in conversion projects, after SUM, you cannot release the system for user activity, as Finance Consultants have to prepare the system for conversion and do the data migration. Post-migration activities 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 Cockpit (see Figure 8-2).



**Figure 8-2.** The end of SUM

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 an error similar to Figure 8-3.

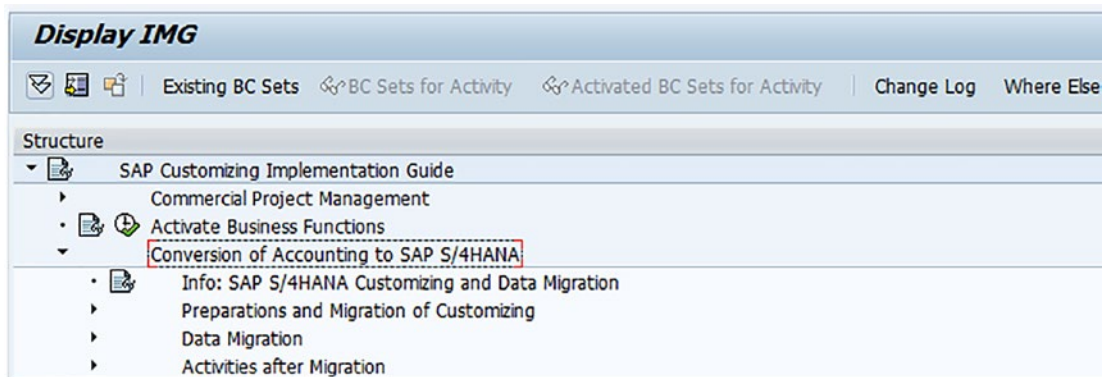


**Figure 8-3.** Error after SUM and before actual data conversion

The next step after SUM is the conversion of accounting to SAP S/4HANA.

## What Is the Menu Path for the Conversion Cockpit?

Here is the menu path for SAP S/4HANA Conversion Cockpit: SPRO >>> Conversion of Accounting to SAP S/4HANA (see Figure 8-4).



**Figure 8-4.** IMG path for conversion of accounting to SAP S/4HANA

## Converting Accounting to SAP S/4HANA

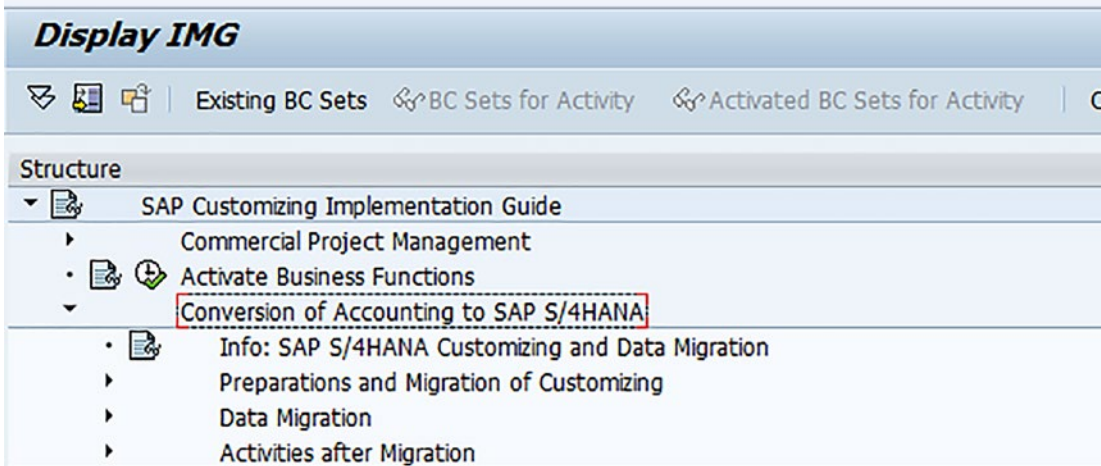
After the technical conversion step (after SUM), the Cockpit must be configured and executed. There are three broad steps for converting Accounting to SAP S/4HANA.

1. Preparations and migration of customizing
2. Data migration



3. Activities after migration

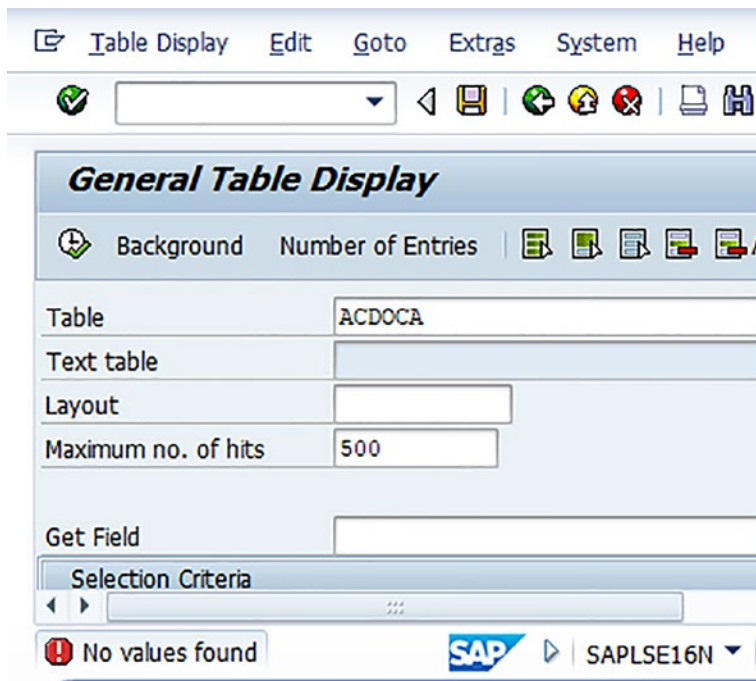
The steps in the Cockpit are sequential. You should not execute them randomly (see Figure 8-5).



**Figure 8-5.** SPRO screen of the Conversion Cockpit

Let’s first look at the Preparations and Migration of Customizing. These are the preparation activities for the Cockpit. These tasks must be completed based on the source system. For example, if the source system does not have an Accrual Engine or manual accruals, you can skip this. Similarly, trade finance is based on the source system, so you need to complete its preparation activities.

Before you start preparation, verify in the converted system if there is any data in ACDOCA. As soon as SUM finishes, the ACDOCA table must not show any entries. It should be empty (see Figure 8-6).



**Figure 8-6.** The ACDOCA table entries after SUM and before executing the Conversion Cockpit

## Special Authorizations to Execute the Cockpit

The most important is that authorizations to be added to the user ID to execute Data Migration and to monitor and migrate the house banks.

Here are the objects that are to be added to the user ID to the concerned consultant, so they can execute steps related to the Cockpit.

1. Authorization F\_CLM\_BAM, activity 01 and 02
2. SAP\_FI\_BL\_BANK\_MASTER\_DATA or SAP\_BR\_AP\_ACCOUNTANT
3. Authorization object CO-CCA: Cost Element Master (K\_CSKB)
4. Authorization for activity 16 (Execute) of the FINS\_MIG authorization object as well as developer authorization (authorization object S\_DEVELOP)

5. To be able to perform the migration, make sure you are assigned the authorization In particular, on role SAP\_SFIN\_MIGRATION. FINS\_MIG authorization object

## Preparations and Migration of Customizing

Preparations and migration of customizing for GL (see Figure 8-7):

1. Preparations and Migration of Customizing for Accrual Engine
2. Preparations and Migration of Customizing for AA
3. Preparations and Migration of Customizing for CO
4. Preparations and Migration of Customizing for Material Ledger
5. Preparations for Migration of House Bank Accounts
6. Preparations for Migration of Financial Documents to Trade Finance
7. Preparatory Activities and Migration of Customizing for Credit Management

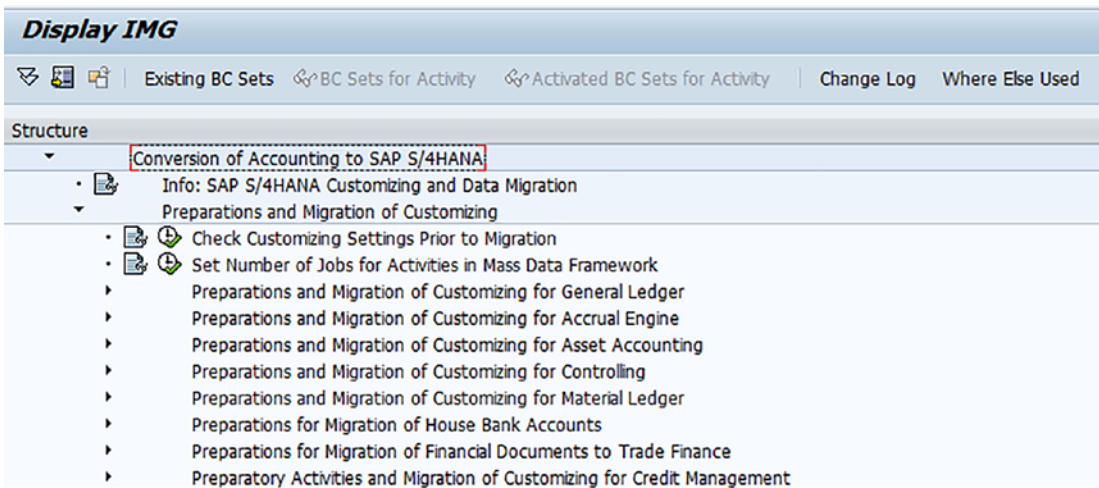


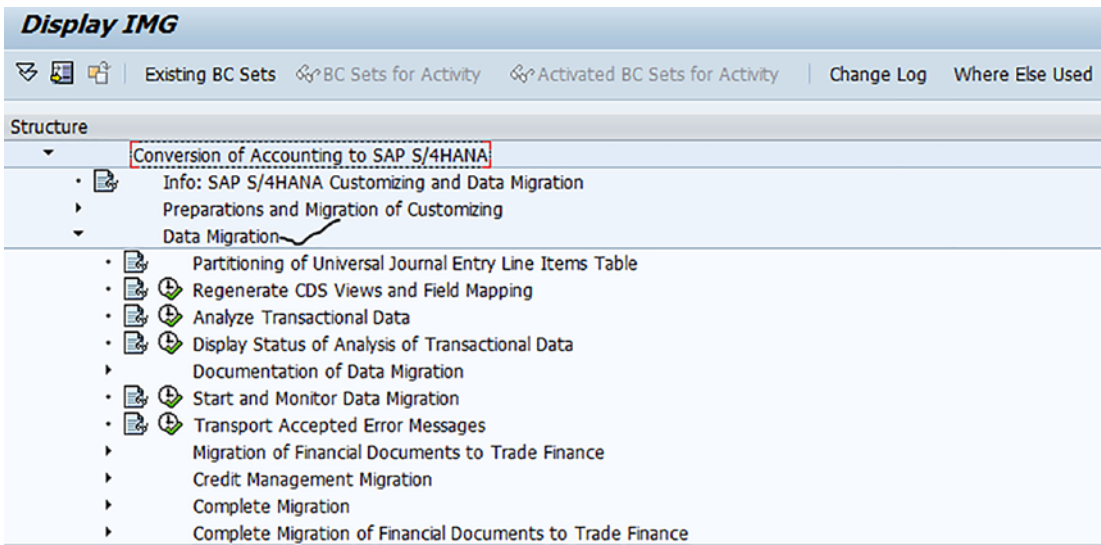
Figure 8-7. Preparation steps and activities from the Conversion Cockpit

## Data Migration

During the data migration step, you move the finance data to SAP S/4HANA Finance. The table ACDOCA (Universal Journal Entry Line Items) is filled with data from General Ledger, Controlling, Material Ledger, and Asset Accounting. This is based on the data volume in the source system's number of records. If you have a large number of records, you can consider partitioning the ACDOCA table in order to prevent negative effects. As per the SAP Help document, if you expect significantly fewer than 1 billion records, including future growth, you don't have to consider partitioning.

If you expect the number of records to reach or exceed 1 billion records, follow the instructions of SAP Note 2289491, "Best Practices for Partitioning of Finance Tables."

1. Partitioning of Universal Journal Entry Line Items Table
2. Regenerate CDS Views and Field Mapping
3. Analyze Transactional Data
4. Display Status - Analysis of Transactions
5. Documentation of Data Migration
6. Start and Monitor Data Migration
7. Transport Accepted Error Messages
8. Migration of Financial Documents to Trade Finance
9. Credit Management Migration
10. Complete Migration
11. Complete Migration of Financial Documents to Trade Finance  
(see Figure 8-8)



**Figure 8-8.** Data Migration steps

The “Start and Monitor Data Migration” step has the following internal steps:

1. Migration of Cost Elements
2. Technical Check of Transactional Data
3. Material Ledger Migration
4. Enrichment of Data
5. Migration of Line Items
6. Migration of Balances
7. Migration of General Ledger Allocations to Journal Entry Tables
8. Calculation of Depreciation and Totals Values
9. Migration of House Bank Accounts

---

**Note** All these steps will be executed sequentially by the monitor. If there are any issues, they are displayed in the log. Consultants should clear error logs and can repeat the steps again.

---

## Activities After Migration

1. Transfer Application Indexes
2. Display Status of Transfer of Application Indexes
3. In FI Documents, fill the Offsetting Account
4. Display Status of Filling the Offsetting Account in FI Documents
5. Enrichment of Balance Carryforward
6. Manual Activities for Trade Finance
7. Manual Activities for Credit Management
8. Migration of Accrual Engine Data

## Tasks Before Starting Preparation Activities for the Cockpit

Before you start the conversion activities, always read the full text of the conversion guide for SAP S/4HANA. Also refer to SAP Note 2332030.

It is most important to run the steps in order, not randomly. Don't skip any of the errors and be sure to understand the warning messages fully. You can execute some IMG buttons only once. Don't run them twice. Don't set the migration to completion until business validates the reports and confirms you. If you set the status to completed, you cannot reset the status. Users can create postings after you have set the migration status to completion.

Before starting "Conversion of Accounting to SAP S/4HANA" in SPRO, verify the active business functions. See if the SAP S/4HANA always-on business functions are activated or not. Refer to the following to see this: SPRO ► Activate Business Functions (see Figures 8-9 and 8-10).

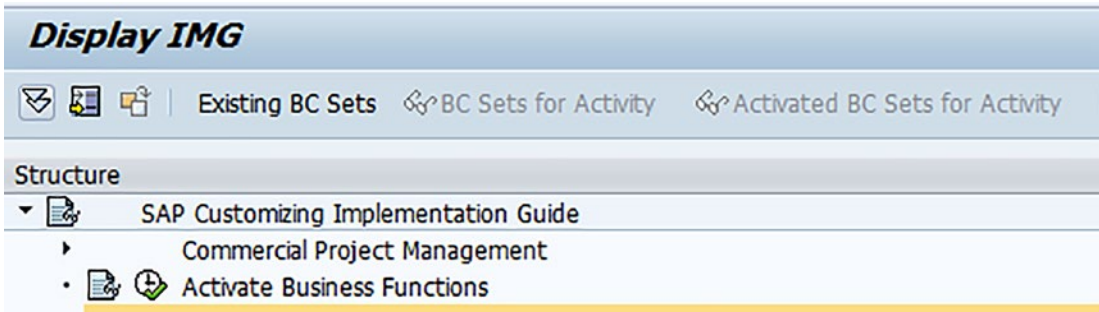


Figure 8-9. IMG for Activating Business Functions

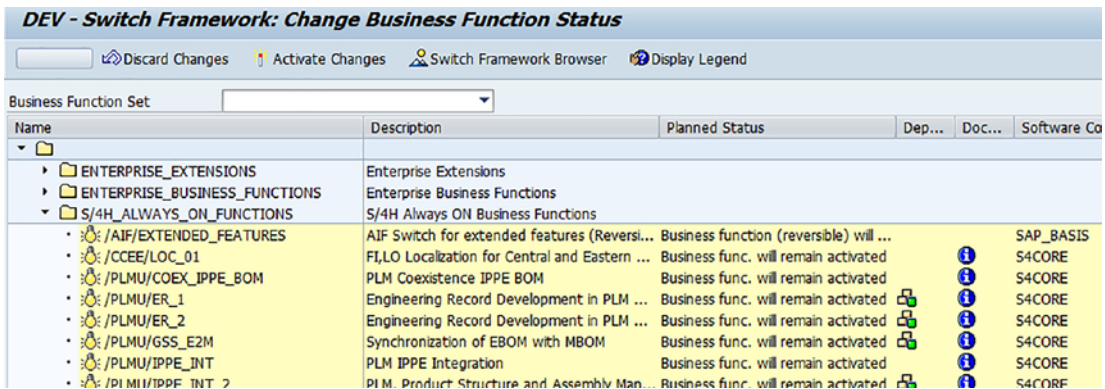


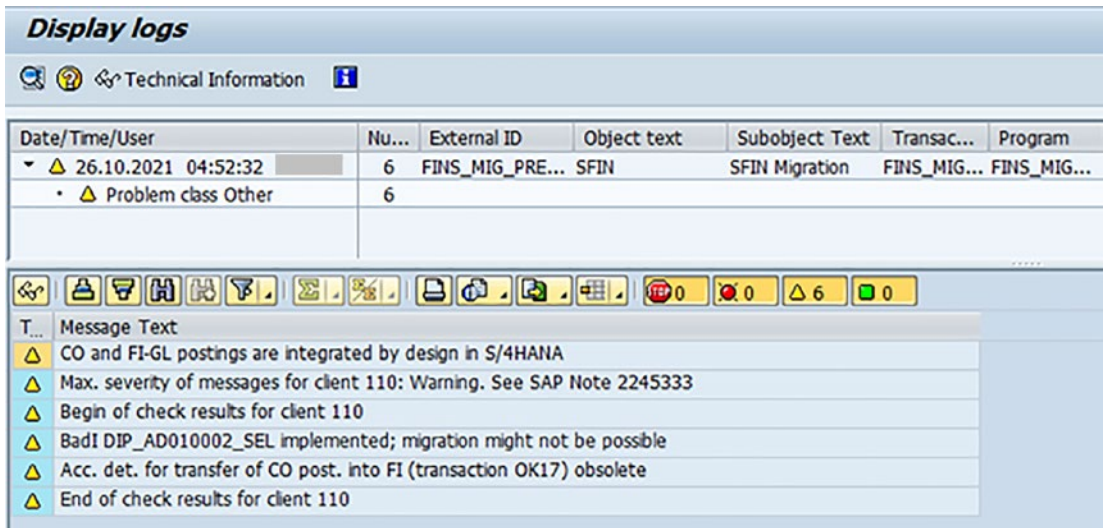
Figure 8-10. All always-on business functions are in activation mode correctly

## Preparations and Migration of Customizing

The menu path is SPRO ► Preparations and Migration of Customizing ► Check Customizing Settings Prior to Migration.

In this step, you need to check whether the customizing settings are correct for migration to SAP S/4HANA Finance. You will do this check to determine whether the ledger, company code, and controlling area settings meet all the prerequisites for conversion. Refer to SAP Note 2129306 (see Figure 8-11).



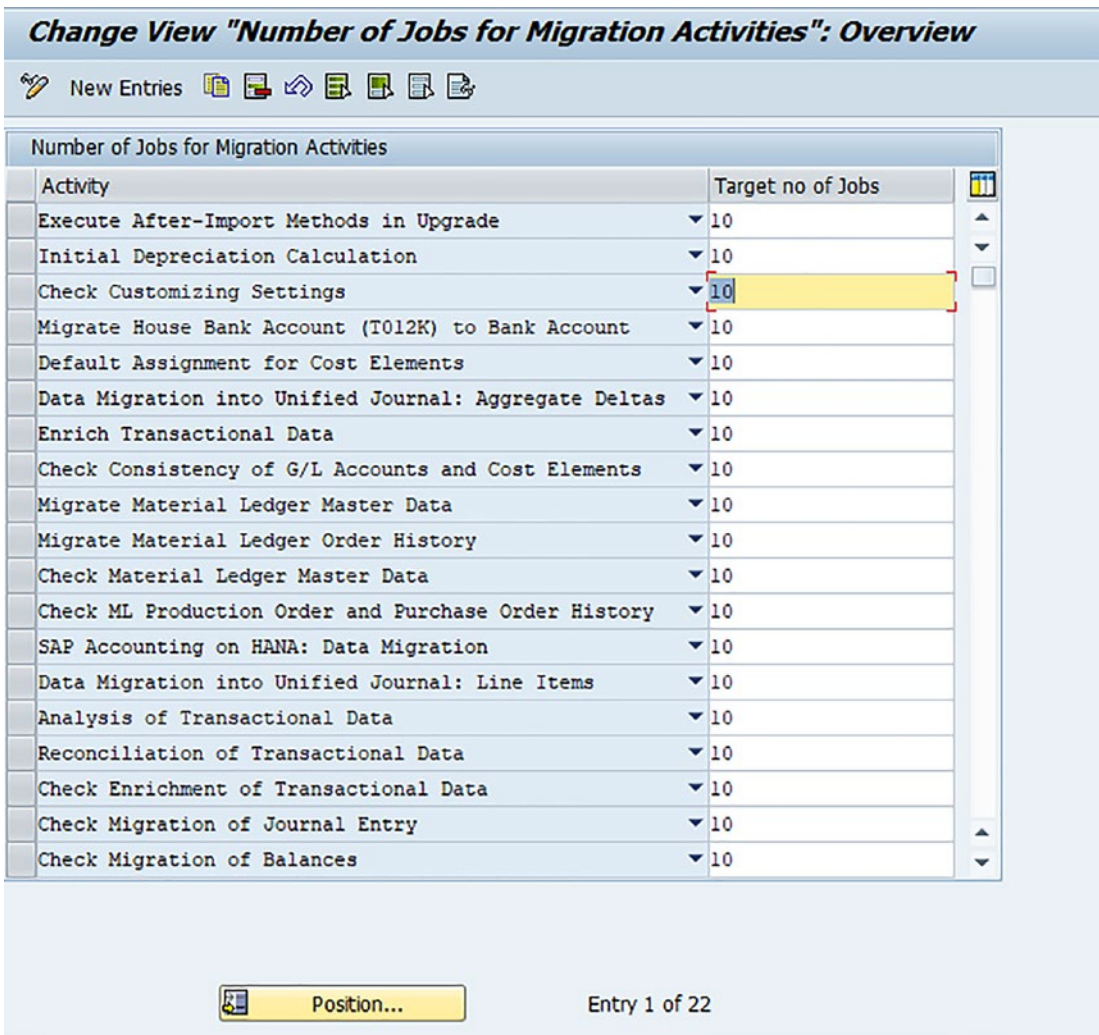


**Figure 8-11.** Successful execution of the Check Customizing Settings Prior to Migration step

The next step before starting preparation is to set number of jobs for activities in mass data framework. The menu path is SPRO ► Preparations and Migration of Customizing ► Set Number of Jobs for Activities in Mass Data Framework.

This divides the data into packages and starts parallel jobs to process the data in parallel. In this step, you define the number of jobs for each activity, into which the system divides the dataset to be migrated. Refer to SAP Note 2351294.

Figure 8-12 shows ten jobs for each activity. You may increase or decrease the number of jobs.



**Figure 8-12.** Set the number of jobs and activities in the Mass Data framework

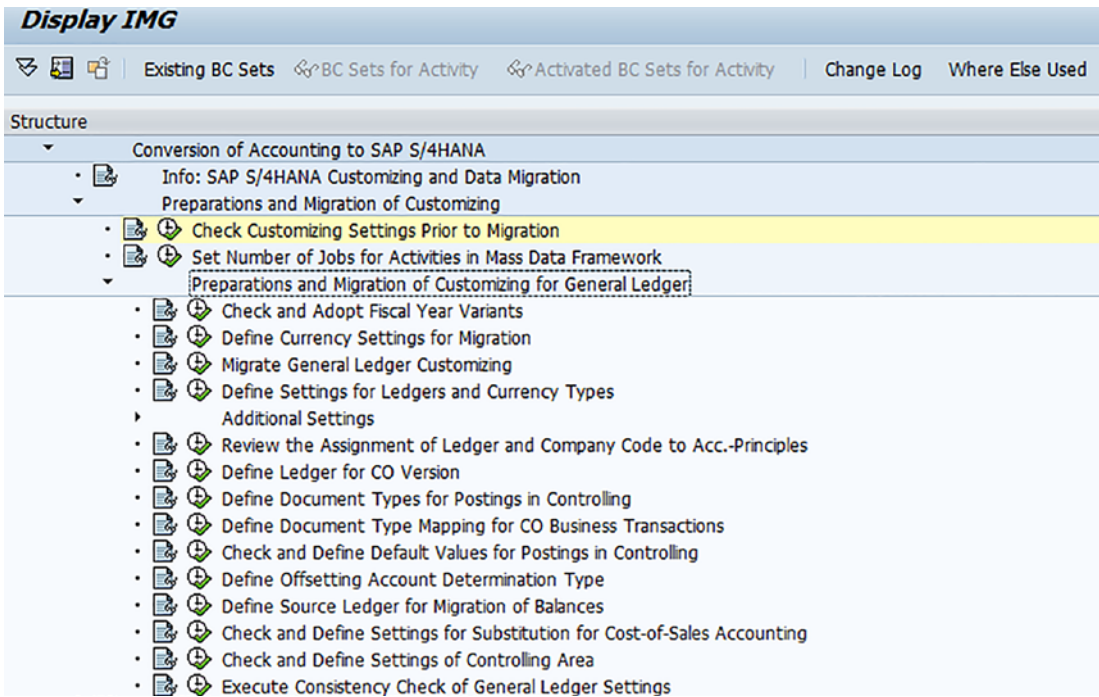
## Preparations and Migration of Customizing for GL

After the previous two steps, you'll start the Preparations and Migration of Customizing for General Ledger. The menu path is SPRO >>> Conversion of Accounting to SAP S/4HANA >>> Preparations and Migration of Customizing for General Ledger.

This process has the following substeps:

1. Check and adopt fiscal year variants

2. Define currency settings for migration
3. Migrate General Ledger customizing
4. Define settings for ledgers and currency types
5. Additional settings
6. Review the assignment of ledger and company code to Acc. principles
7. Define the ledger for CO version
8. Define document types for postings in CO
9. Define document type mapping for CO business transactions
10. Check and define default values for postings in CO
11. Define offsetting account determination type
12. Define the Source Ledger for migration of balances
13. Check and define settings for substitution for cost-of-sales accounting
14. Check and define settings of the Controlling Area
15. Execute consistency check of General Ledger settings (see Figure 8-13)



**Figure 8-13.** The substeps for preparing the Migration of GL

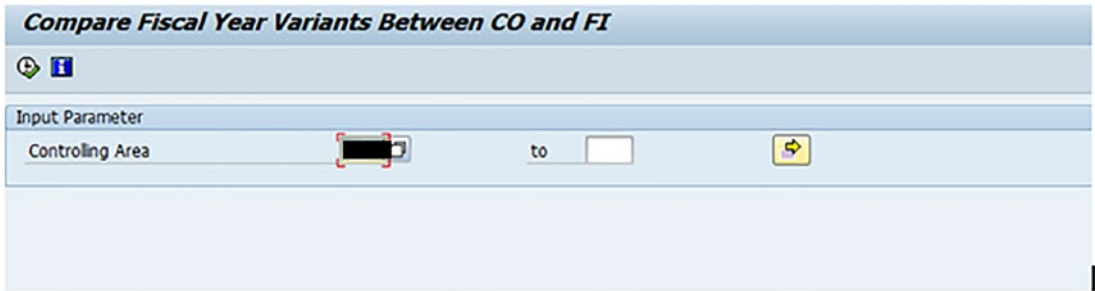
The following is a brief explanation of the previous steps.

## Check and Adopt Fiscal Year Variants

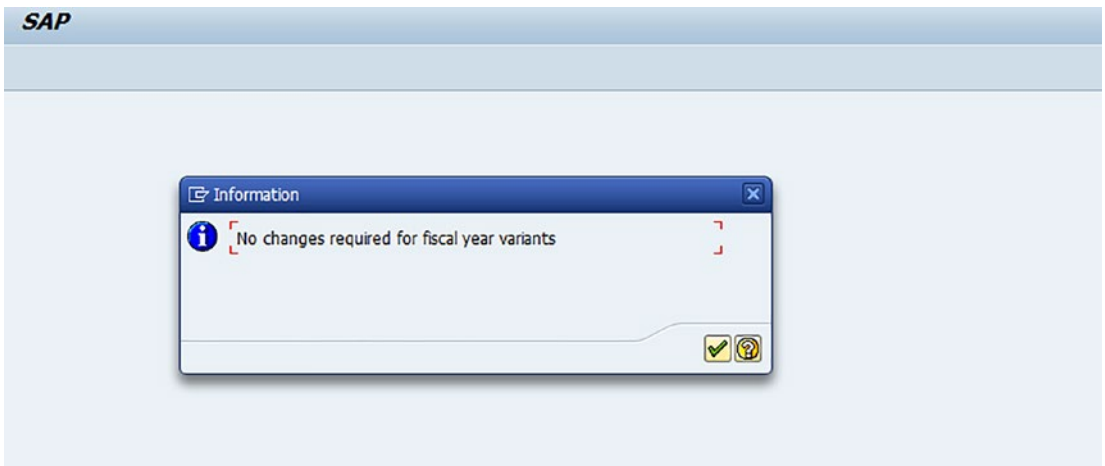
Here, you need to compare the fiscal year variants between controlling areas and their assigned company codes. When executing this IMG activity, the system compares fiscal year variants between Controlling and Financial Accounting.

If the system does not meet the conversion prerequisites, it sends a proposal for the configuration change upon executing this IMG task.

If the source system has multiple controlling areas, it must be run for all controlling areas used in production (see Figures 8-14 and 8-15).



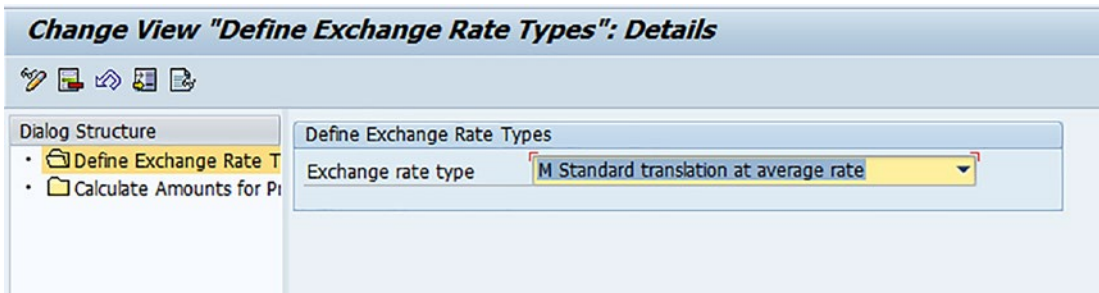
*Figure 8-14. Program input screen*



*Figure 8-15. Output and SAP recommendation*

## Define Currency Settings for Migration

Here, you configure currency settings for migration. This IMG task helps in creating currency settings for migration to ensure that the universal journal contains amounts for the needed currency types. If you don't provide the exchange rate type here, the affected items will be migrated with an amount of zero. First define the exchange rate type (see Figure 8-16).



**Figure 8-16.** An example of configuration

The calculation depends on the posting date and the exchange rate types you specify here. In my example, I configured the sub-screen “Calculate Amounts for Prev. CO Specify. Currencies,” as shown in Figure 8-17.



**Figure 8-17.** Calculate Amounts for Prev. CO Specify. Currencies

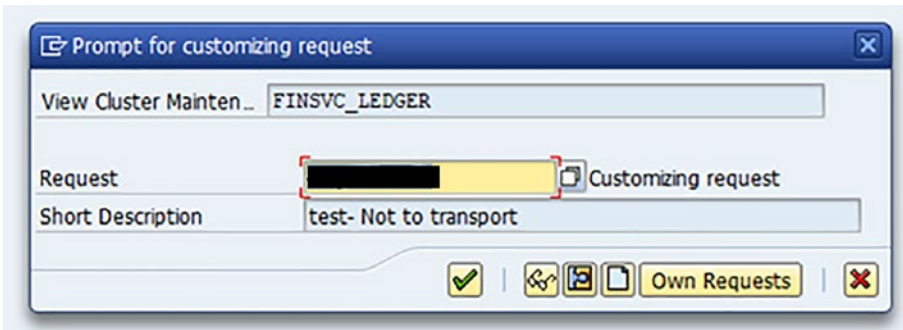
## Migrate General Ledger Customizing

Here, you migrate the General Ledger customizing to the new S/4HANA configuration.

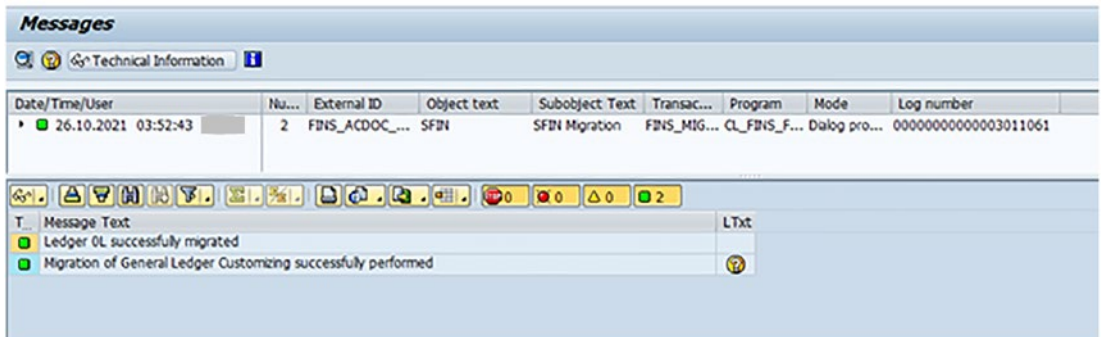
The following settings are migrated:

- Assignment of company codes to ledgers
- Currency settings of the ledgers
- Fiscal year variant of the ledgers
- Open period variant of the ledgers
- Settings for real-time integration of CO-FI (see Figures 8-18 and 8-19)



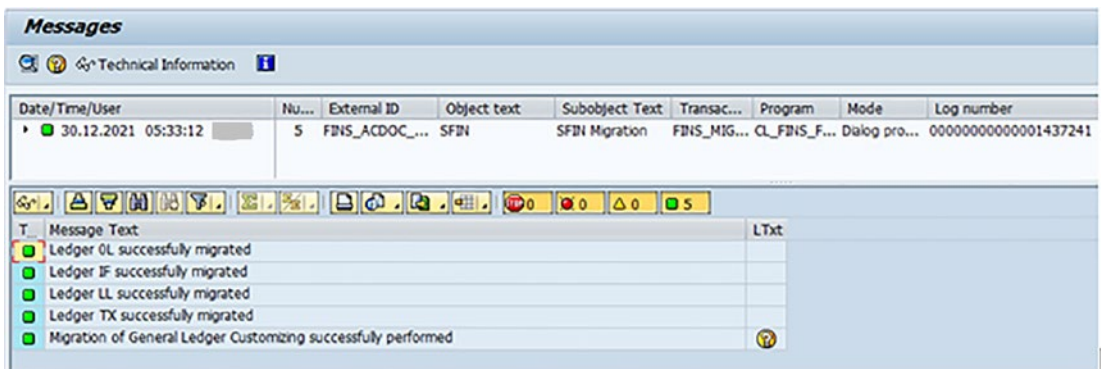


**Figure 8-18.** Customizing request step. This can be moved to QAS and PRD



**Figure 8-19.** The output of “migrate General Ledger Customizing” when there is only one ledger

If you have more ledgers in the source system, the Migration screen appears, as shown in Figure 8-20.



**Figure 8-20.** If the source system has multiple ledgers, you'll see this after executing the “Migrate General Ledger Customizing” step



Note that if the source system has multiple ledgers, they migrate all at once. The system creates customizing requests. You can move the requests to QAS and PRD without requiring re-execution in the QAS and PRD systems.

## Define Settings for Ledgers and Currency Types

The currency types and currency conversion settings that you use in Accounting can be edited. You can also define ledger settings and assign accounting principles for ledgers to the company codes.

This is a mandatory configuration and company codes should have been configured with currency, fiscal year variant, and open period variant (see Figure 8-21).

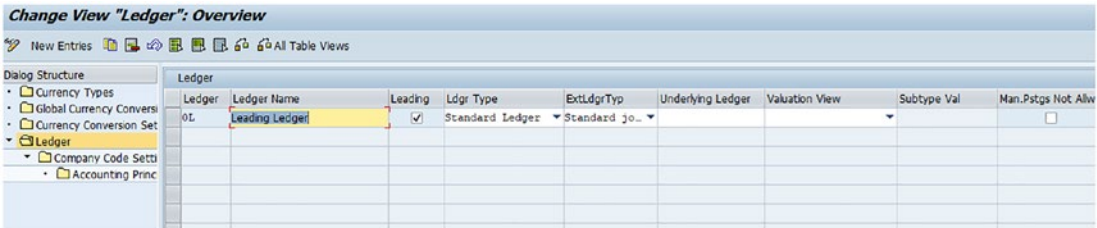


Figure 8-21. Define the settings for ledgers and currency types

During this step, if there is profit center activation needed, the system sends messages like the ones shown in Figure 8-22.

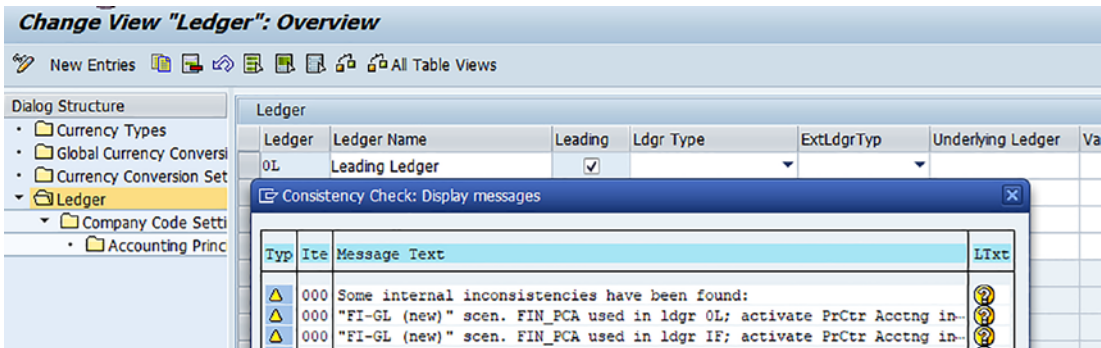
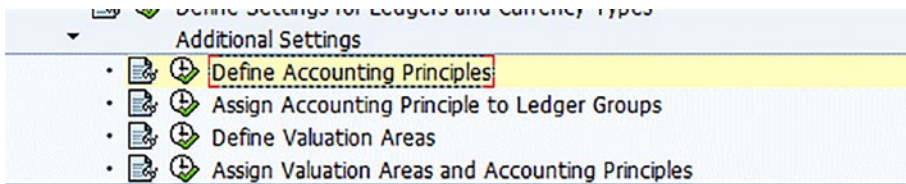


Figure 8-22. Requirements of profit center activation

After the system conversion is completed, you'll need to configure basic settings for profit center accounting.

## Additional Settings

The configuration steps shown in Figure 8-23 are self-explanatory. You should not need more explanation about this.



**Figure 8-23.** Additional configuration needed

## Review the Assignment of Ledger and Company Code to Acc.-Principles

This IMG task provides an overview of which accounting principles are assigned to which combinations of ledger and company code. You can delete unwanted assignments of ledger and company code settings. Refer to the SAP Help before you complete this configuration (see Figure 8-24).

**Change View "Assignment of Ledger and Company Code to Acc.-Principles"**

New Entries

Le...	Company ...	Acc.Princ.	Name of Accounting Principle	Company Name	Ledger Name
0L	████	60	IFRS / P1	SAP A.G.	Ledger 0L
0L	████	GAAP	Generally Accepted Accounting Principles	SAP A.G.	Ledger 0L
0L	████	IAS	International Accounting Standards	SAP A.G.	Ledger 0L
0L	████	USAP	USA GAAP	SAP US (IS-HT-SW)	Ledger 0L
0L	████	60	IFRS / P1	IS-B Musterbank Deutschl.	Ledger 0L
0L	████	60	IFRS / P1	Country Template AR	Ledger 0L
0L	████	60	IFRS / P1	Country Template AR	Ledger 0L
0L	████	60	IFRS / P1	Country Template AT	Ledger 0L
0L	████	60	IFRS / P1	Country Template AU	Ledger 0L

**Figure 8-24.** Review the assignment of ledger and company code to Acc.-Principles

## Define Ledger for CO Version

Here, you assign G/L ledgers to control (CO) versions. CO version 0 must be assigned to the Leading Ledger. You can't assign a CO version to an extension ledger.

The Leading Ledger 0L must be always assigned to CO version 0. The Leading Ledger is representative of Controlling (see Figure 8-25).

CO Area	Version	Ledger (Compat.)	Controlling Area Name	Version Description	Ledger Name
████	0	0L	Controlling Area A000	Plan/actual version	Ledger 0L
████	0	0L	Country Template UAE		Ledger 0L
████	0	0L	Kostenrechnungskreis █████	Plan/Actual Version	Ledger 0L
████	0	0L	Kostenrechnungskreis █████	Plan/Act - Version	Ledger 0L
████	0	0L	Kostenrechnungskreis █████	Plan/Actual Version	Ledger 0L
████	0	0L	Kostenrechnungskreis █████	Plan/actual version	Ledger 0L
████	0	0L	Kostenrechnungskreis █████	Plan Version 0	Ledger 0L

Figure 8-25. Ledger for CO version

## Define Document Types for Postings in CO

Here, you have to create new document types for postings in the Controlling. This task has to be done using transaction OBA7. In SAP S/4HANA, we have a separate document type for controlling postings with the indicator G/L account set. In SAP S/4HANA, all controlling business transactions also use document type CO (see Figures 8-26 and 8-27).

Type	Description
AA	Asset Posting
AB	Journal Entry
AD	Accruals/Deferrals
AF	Depreciation Pstngs
AN	Net Asset Posting
AP	Periodic asset post
CC	Sec. Cost CrossComp.
CH	Contract Settlement
CL	CL/OP FY Postings
CO	Secondary Cost

Figure 8-26. Newly created document types for CO and CC

**New Entries: Details of Added Entries**

Document Type

**Properties**

Number range

Reverse DocumentType

Authorization Group

**Account types allowed**

Assets

Customer

Vendor

Material

G/L Account

Secondary Costs

**Control data**

Net document type

Cust/vend Check

Negative Postings Permitted

Inter-Company

Enter trading partner

**Special usage**

BI Only

**Default values**

Exchange Rate Type for FC Documents

**Required during document entry**

Reference Number

Document Header Text

**Joint venture**

Debit Rec.Indic

Rec.Ind. Credit

**Figure 8-27.** CC document type properties

Normal postings and cross-company postings will have separate document types per business transaction. So create the CC document type for cross-postings.

## Defining the CO Document Type

See Figures 8-28 and 8-29.

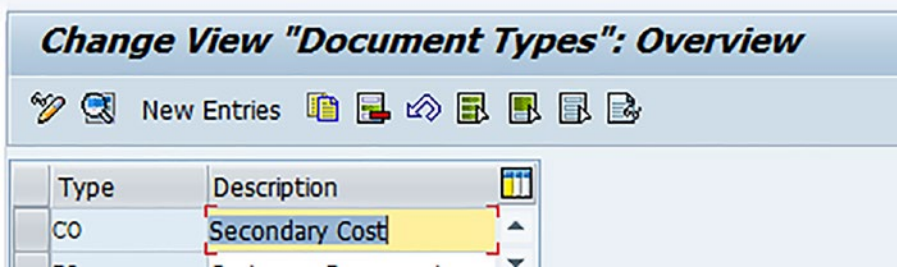


Figure 8-28. Document types overview

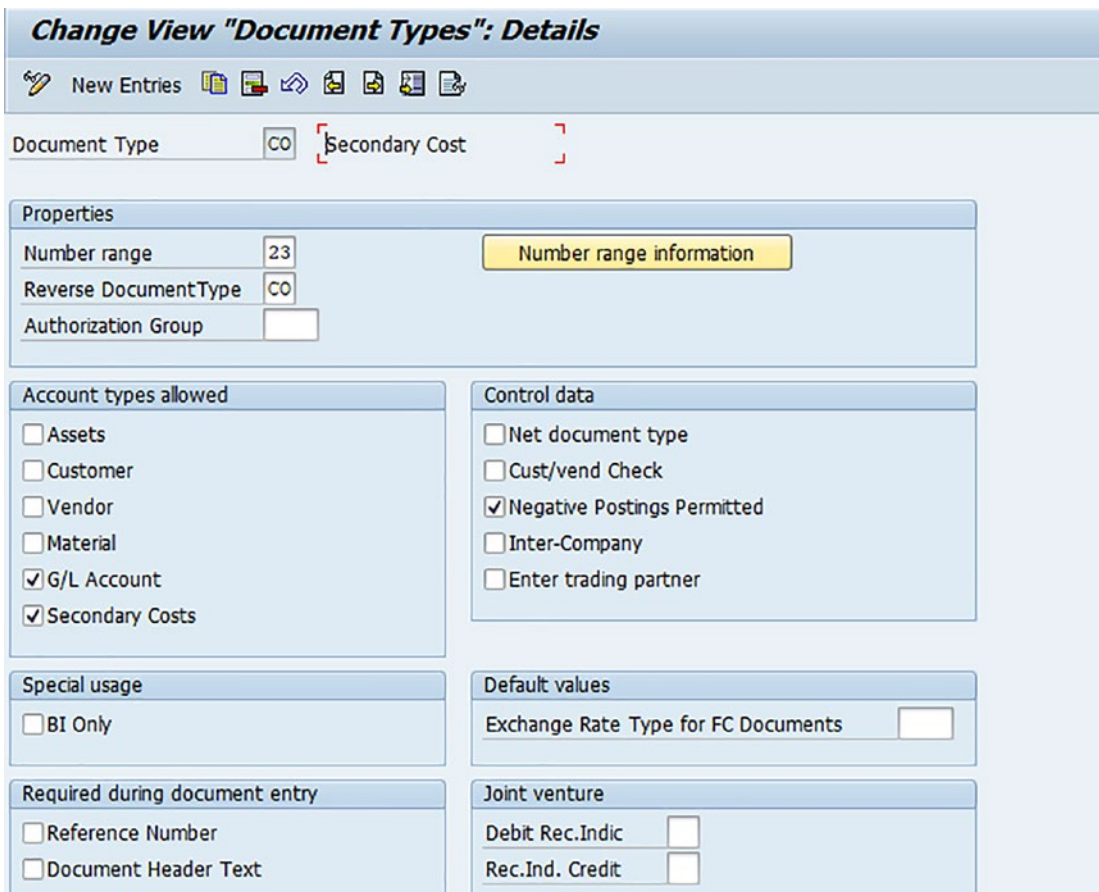


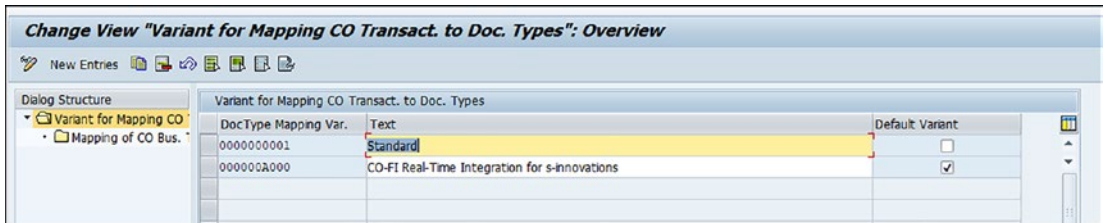
Figure 8-29. Creation of CO document type and its properties to be configured



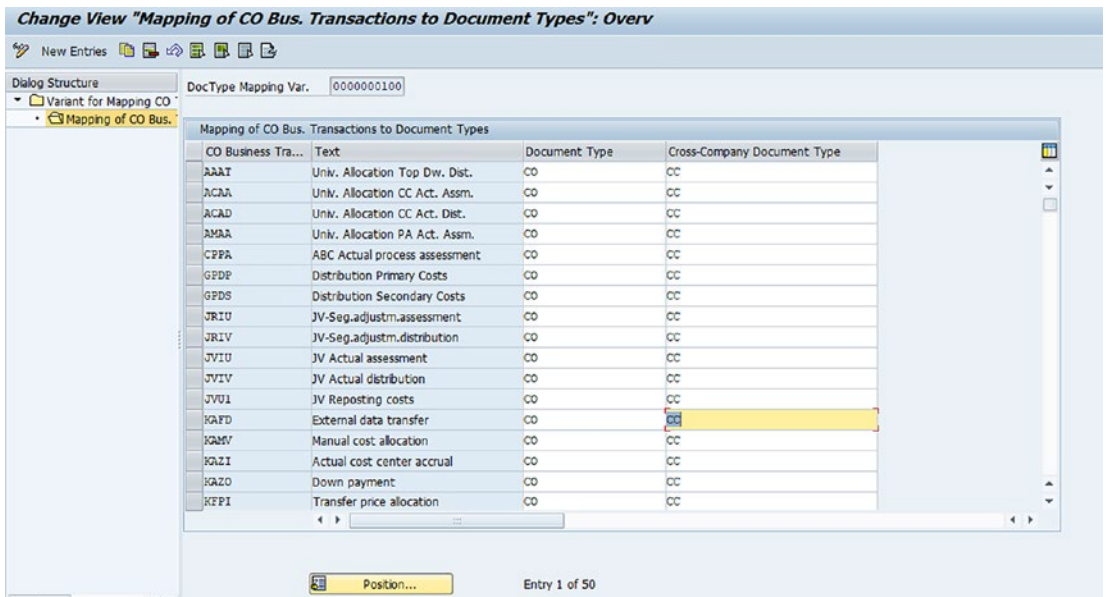
## Define Document Type Mapping for CO Business Transactions

Here, you define a mapping variant that maps CO business transactions to document types. This is to be assigned to all CO business transactions that do actual postings.

The mapping variant 0000000100 is provided as an example. This variant maps all CO business transactions to the document type C0 (see Figures 8-30 and 8-31).



**Figure 8-30.** CO Mapping variant



**Figure 8-31.** CO document types assigned to the mapping variant

## Check and Define Default Values for Postings in CO

Here, you define the default values for use in CO business transactions whose user interfaces do not allow you to enter a document type or a ledger group for posting purposes (see Figure 8-32).

**Change View "Default Values for Postings in Controlling": Overview**

Default Values for Postings in Controlling

Company Code	Valid From	Default Ledger Group	DocType Mapping Var.
██████	01.01.1900		000000001
██████	01.01.1900		0000000001
██████	01.01.1900		0000000001
██████	01.01.1900		000000A000
██████	01.01.1900	0L	000000A000
██████	01.01.1900	0L	000000A000
██████	01.01.1900		0000000001

**Figure 8-32.** Check and define default values for postings in CO

## Define Offsetting Account Determination Type

SAP recommends choosing the highest amount option, as shown in Figure 8-33.

**New Entries: Details of Added Entries**

Define Offsetting Account Determination

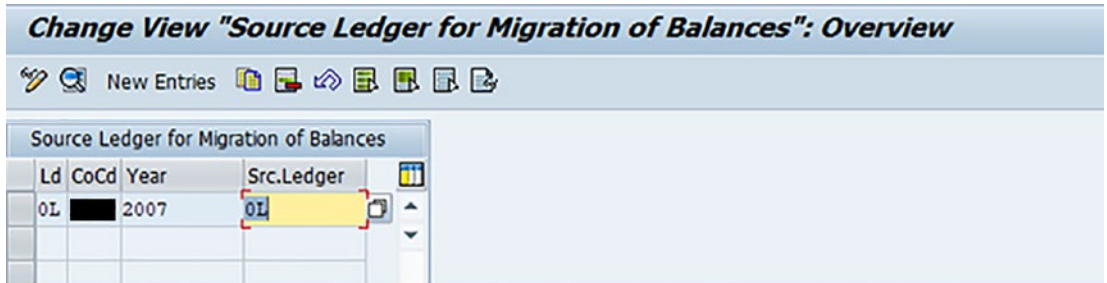
Offsetting Acct Determination: Always display offsetting account with the highest amount

**Figure 8-33.** Configuration needed for “Define Offsetting Account Determination Type”



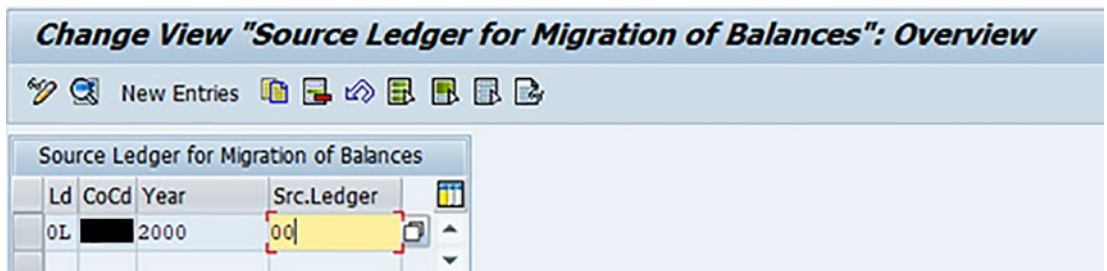
## Define Source Ledger for Migration of Balances

In this activity you define the source and target ledgers. In the following example, the current ECC system has a new GL. So, there is a source 0L and a target 0L (see Figure 8-34).



**Figure 8-34.** *New GL as source*

If the current system has a classic GL, the source ledger is 00 and 0L is used as the target ledger (see Figure 8-35).



**Figure 8-35.** *New classic GL as source*

If the customer used the first classic ledger and then moved to a new GL, this entry should be shown as follows (see Figure 8-36):

**Entry 1:**

Target Ledger: 0L

Company Code: 1000

From Year: 2000

Source Ledger: 00

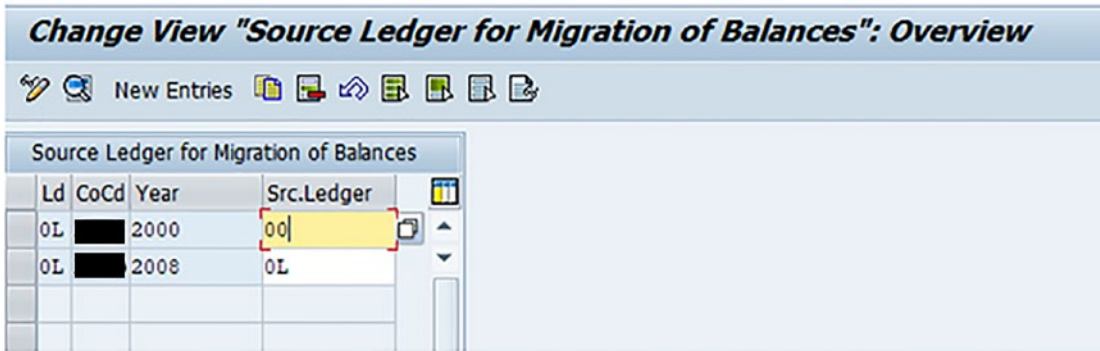
**Entry 2:**

Target Ledger: 0L

Company Code:1000

From Year: 2008

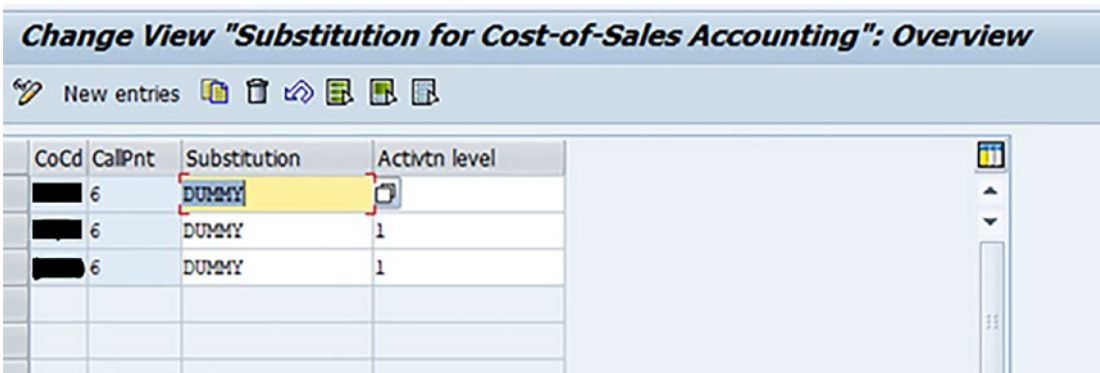
Source Ledger: 0L



**Figure 8-36.** Source ledger configuration (00 for Class GL entry/0L for New GL entry)

## Check and Define Settings for Substitution for Cost-of-Sales Accounting

This task is relevant when you are using functional areas for cost-of-sales accounting (see Figure 8-37).

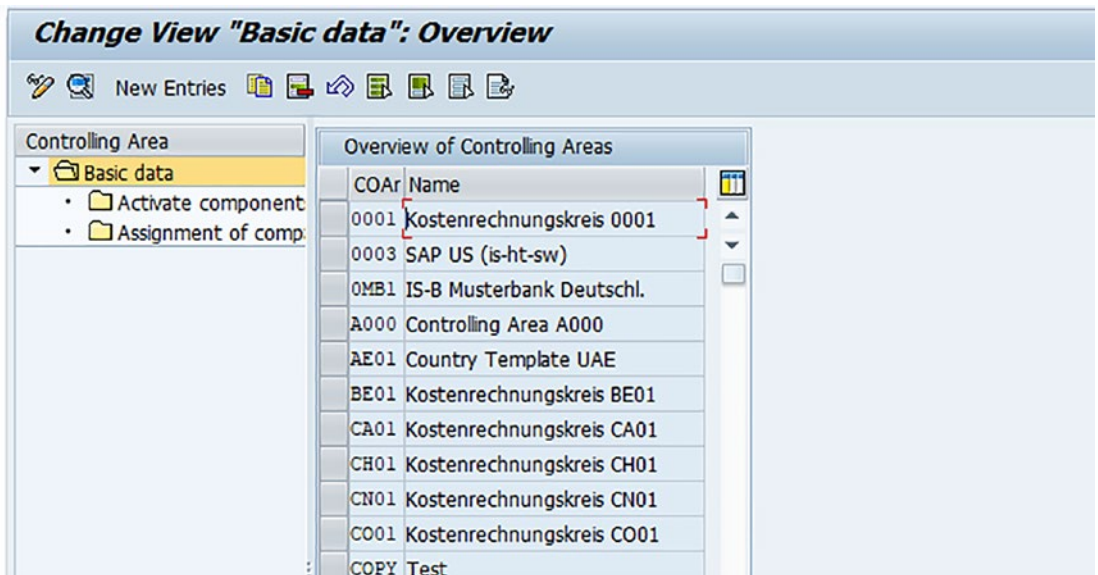


**Figure 8-37.** Check and define settings for substitution for cost-of-sales accounting

## Check and Define Settings of Controlling Area

This task is to check the settings of controlling areas, activate components/control indicators, and indicate the CoCd validation at least for the current fiscal year and all future fiscal years.

You cannot make postings to account assignment objects such as cost centers or orders in SAP S/4HANA from company codes other than the company code defined in the master data of the account assignment object (see Figure 8-38).



*Figure 8-38. Controlling area configuration*

## Execute Consistency Check of GL Settings

This check should not have any error messages, as shown in Figure 8-39.

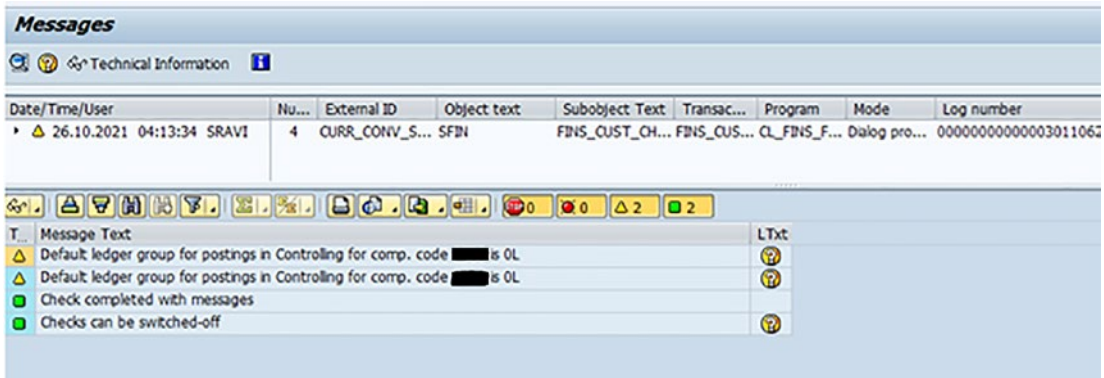


Figure 8-39. Execute consistency check of General Ledger settings

After all of these steps are complete, the first preparation activity is done. The next preparation activity is “Preparations and Migration of Customizing - Accrual Engine.”

You must now verify activation of the Business Functions for S/4HANA Finance (see Figure 8-40).

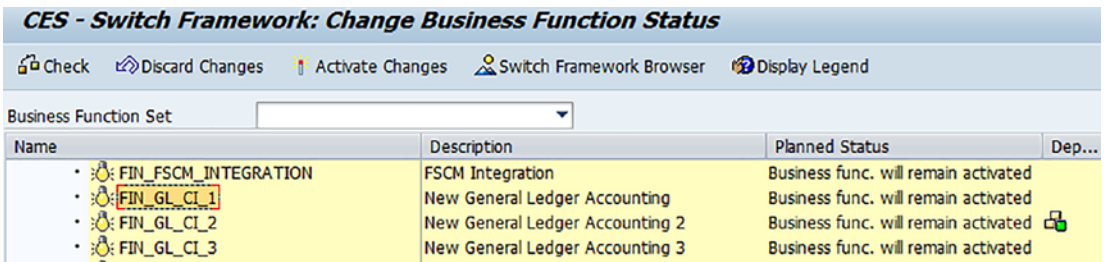


Figure 8-40. FIN\_GL\_CI\_1 to 3 Business Functions activation verification

## Preparation and Migration of Customizing: Accrual Engine

Here are the substeps:

- Preparations and Migration of Customizing - Accrual Engine
- Migration Precheck for Customizing
- Migrate Customizing for Accrual Engine
- Manual Migration Steps for Account Determination
- Manual Migration Steps for Validation

- Transform Customer-Developed Accrual Methods into ABAP Classes
- Replace BAdI Implementations Used to Modify Accrual Postings
- Preparation of Migration of Transactional Data

These steps are necessary if the current system has an Accrual Engine. You must migrate customizing settings for the Accrual Engine.

## Migration Precheck for Customizing

A new Accrual Engine has been released with SAP S/4HANA 1809. It integrates with the General Ledger and supports all currencies in the General Ledger.

As of now, the old Accrual Engine still exists and is still being used by applications such as the following:

- Accruals for Rights Management
- Revenue Recognition for License Sales
- Accruals for License Acquisitions
- Accruals for Real Estates

After a conversion or upgrade to release S/4HANA 1809 or higher, you need to migrate old data to the new tables of the S/4HANA Accrual Engine. Refer to SAP Note 2795791. Verify if this is relevant for your system

The migration is necessary after an upgrade from SAP S/4HANA version less than 1809 to a version higher than or equal to 1809, or when you are converting the system from ECC or Simple Finance.

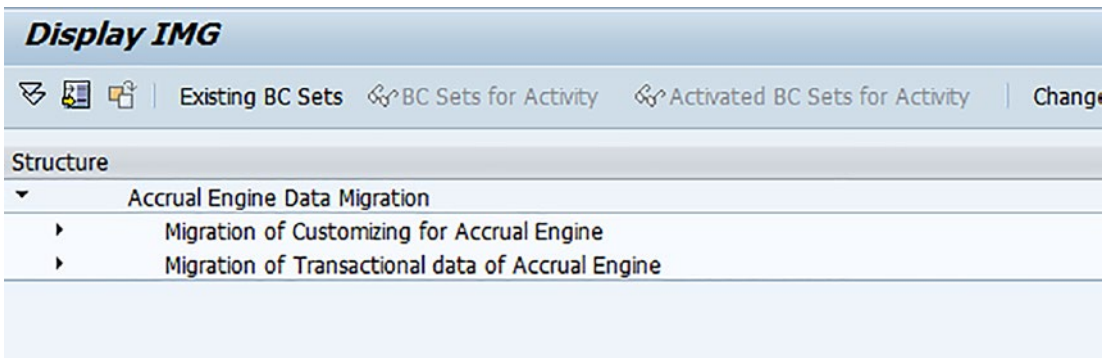
The transactional data of the Accrual Engine consists of Accrual Objects and Accrual Postings.

The S/4HANA Accrual Engine has changed the data model of customizing and transactional data. Several of the old tables have been replaced with new tables. Both types of tables, customizing and transactional data, need to be migrated after the customer has upgraded to S/4HANA 1809 or higher.

Consultants can perform the migration of Accrual Engine customizing with the SPRO task to migrate customizing for the Accrual Engine. The transaction code is ACE\_MIGRATE\_CUST.

The menu path is as follows: SPRO >>> Conversion of Accounting to SAP S/4HANA >>> Preparations and Migration of Customizing >>> Preparations and Migration of Customizing for Accrual Engine.

Or you can use the ACEMIGIMG transaction (see Figure 8-41).

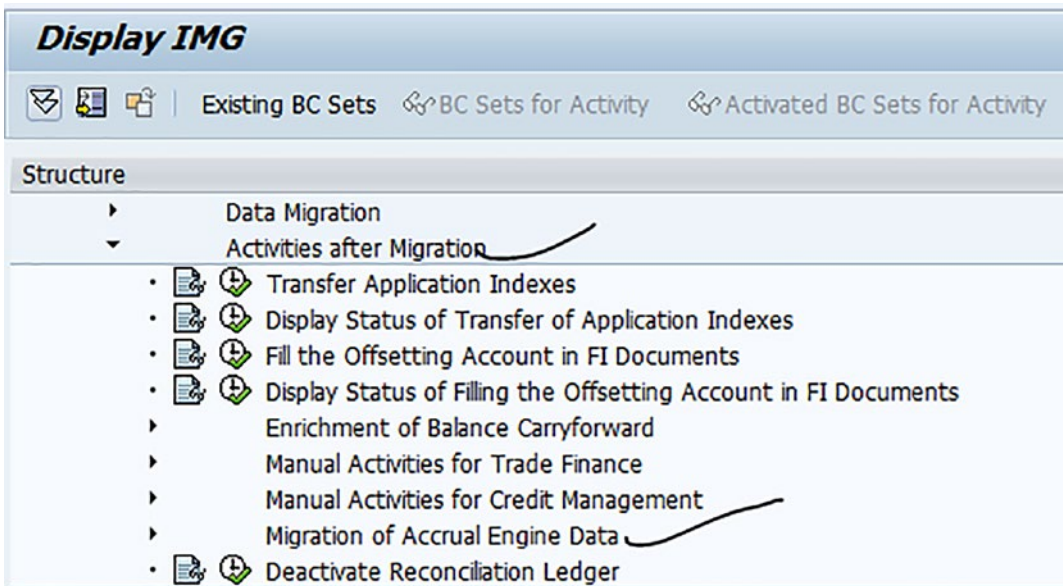


**Figure 8-41.** IMG transaction ACEMIGIMG

This transaction has documentation, which you can access by pressing the F1 button.

**Step 1:** Migration of Accrual Engine Customizing. The menu path is Conversion of Accounting to SAP S/4HANA >>> Preparations and Migration of Customizing >>> Preparations and Migration of Customizing for Accrual Engine.

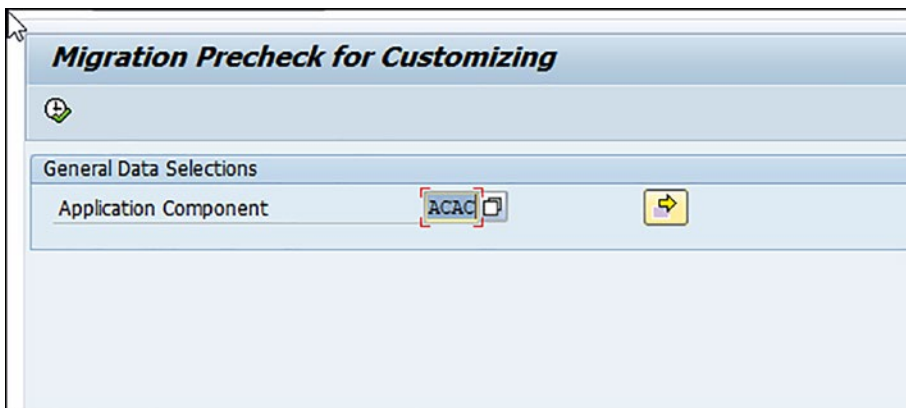
**Step 2:** The menu path is Migration of Accrual Engine Transactional Data (= accrual objects and accrual postings): Conversion of Accounting to SAP S/4HANA >>> Activities after Migration >>> Migration of Accrual Engine Data. This migration can only be performed after the migration of all other postings in the system (see Figure 8-42).



**Figure 8-42.** The menu path of Migration of ACE

## Migration of Customizing and Migration of Transactional Data

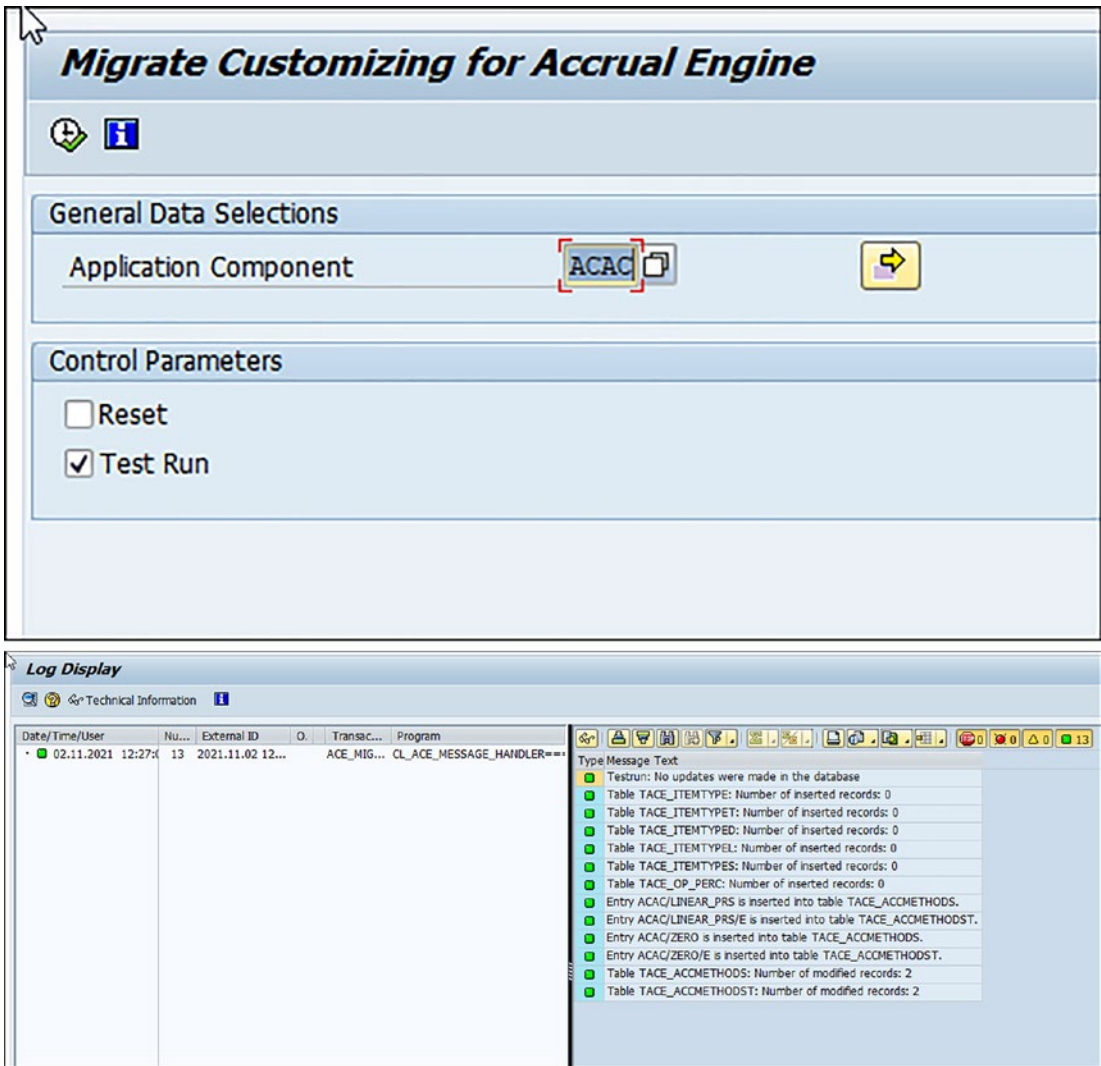
The content of the customizing tables is migrated in the customizing system. Afterward, the result of this migration is transported into the productive system (see Figure 8-43).



**Figure 8-43.** Migration precheck

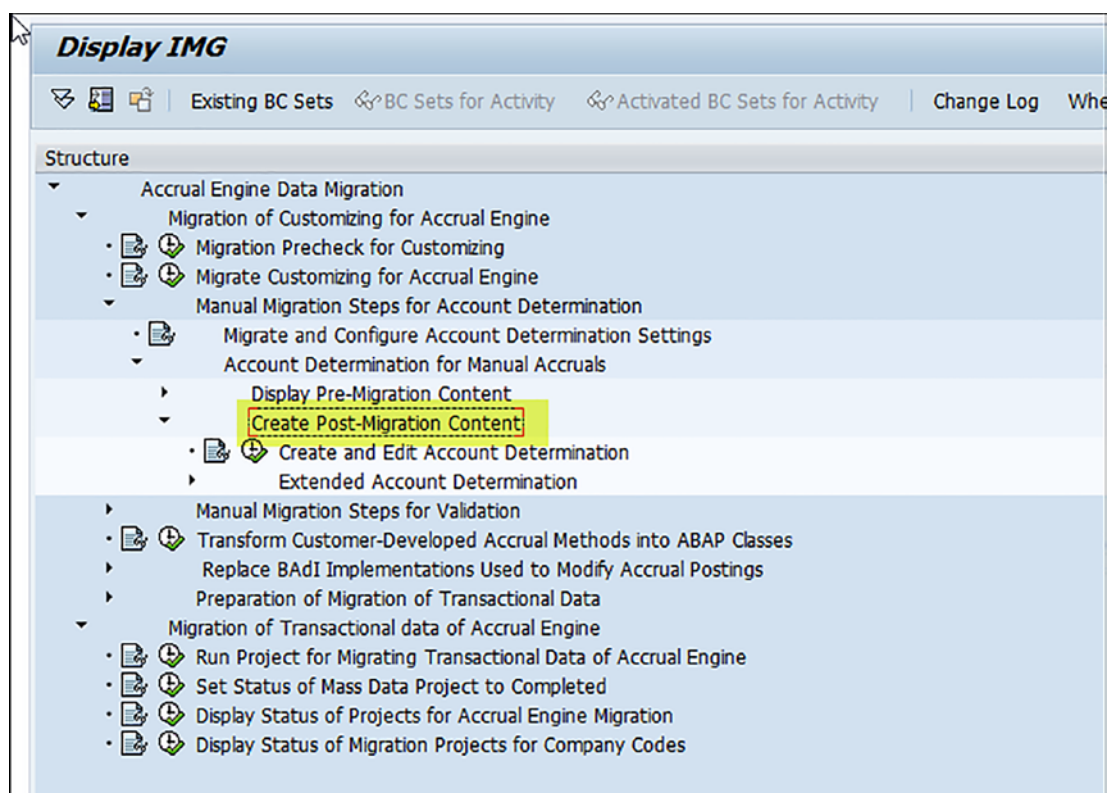
Migrate customizing for the Accrual Engine (see Figure 8-44).





**Figure 8-44.** Migration of customizing

Using the ACEMIGIMG transaction, you can display the content of the account determination of the old Accrual Engine in the Display Pre-Migration Content folder (see Figure 8-45).



*Figure 8-45. Display pre-migration content*

## Manual Migration Steps for Account Determination

This step restores the account determination settings so that you can use the manual accruals functions again after migration.

You can display your pre-migration account determination settings as a reference. Use these settings as a basis for your new account determination for manual accruals.

If you used the simple account determination in the old Accrual Engine, you need to enter two rows in the account determination of the SAP S/4HANA Accrual Engine for each row of the account determination of the old Accrual Engine.

In the simple account determination of the old Accrual Engine, each row contained a start account and a target account, while the account determination of the SAP S/4HANA Accrual Engine contains only one account in each row.

## Can You Use the System Before the Migration of Accrual Engine Data?

Yes, you can use the system and perform all kinds of postings without performing this Accrual Engine migration. The applications related to Accrual Engine will not work until the Accrual Engine is migrated. At a different point in time, the Accrual Engine can be migrated. In my earlier projects, I planned this process on the weekend after the system went live.

## Does the Authorization Change?

The S/4HANA Accrual Engine uses new authorization objects:

- F\_ACES\_DST contains the ledger instead of accounting principle.
- F\_ACES\_PST contains the application component and activity.

It does not contain the company code, because during posting the additional authorization object F\_FAGL\_LDR is checked, which contains the company code and ledger.

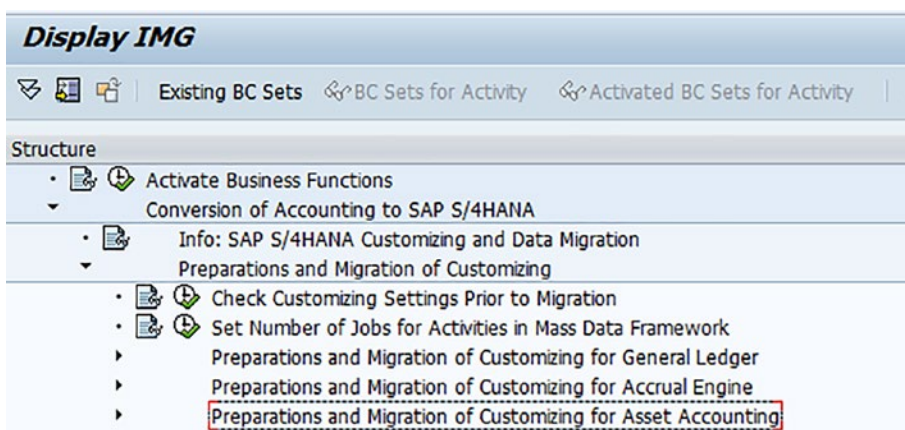
To restrict the posting authorization to a single application, components of the Accrual Engine object F\_ACES\_PST are used.

- To perform the adjustment, review and/or approval of periodic accrual amounts, use the auth object F\_ACES\_PER.

## Preparation and Migration of Customizing for AA

After performing the “Preparation and Migration of Customizing - Accrual Engine” step, you are ready to move to the “Preparation and Migration of Customizing for AA” step.

The menu path is as follows SPRO >>> Conversion of Accounting to SAP S/4HANA >>> Preparations and Migration of Customizing >>> Preparations and Migration of Customizing for Asset Accounting (see Figure 8-46).



**Figure 8-46.** *Preparation and Migration of Customizing for Asset Accounting*

Asset Accounting migration can broadly be classified into two activities:

- Migration from Classic to New Asset Accounting
- Adjustments in New Asset Accounting

Migration from Classic to New Asset Accounting can be classified further:

1. Prepare New Asset Accounting
2. Migration for New Asset Accounting - Migrate charts of depreciation and perform additional manual activities
3. Check prerequisites for activating the new AA
4. Activate Asset Accounting (New)

Adjustments in New Asset Accounting can be classified further:

1. Adjust parameters in chart of depreciation
2. Create the technical clearing account
3. Other basic configuration needed for using New Asset Accounting on SAP S/4HANA

If the source system is on a Classic Asset Accounting or a New Asset Accounting on SAP ECC, you have to migrate to New Asset Accounting on SAP S/4HANA. To do this, you have to complete certain activities. This is a mandatory activity.

Here is an overview of the preparation steps in the source ECC system before SUM:

1. Complete period-end closing for Asset Accounting for all the previous years and open the current fiscal year.
2. Complete reconciliation of the asset subsidiary ledger with the General Ledger.
3. Adjust chart of depreciation as per currencies and accounting principles (ledgers).
4. Run the RASFIN\_MIGR\_PRECHECK program. (This program is included in the SI Checks.)

## Is Migration of Chart of Depreciation Needed for All Systems?

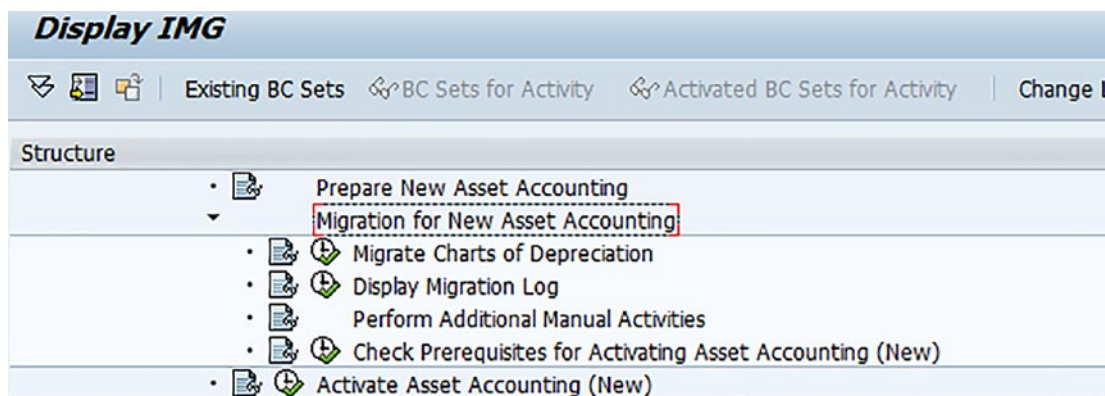
This is based on the source system's starting situations. Consider these example scenarios:

- New General Ledger Accounting, classic Asset Accounting, accounts approach – Migration needed
- Classic General Ledger Accounting, classic Asset Accounting, accounts approach – Migration needed
- New General Ledger Accounting, classic Asset Accounting, ledger approach – Migration needed
- New Asset Accounting on EHP7 or Higher – Migration needed  
New Asset Accounting on EHP7 on HANA – Migration needed
- New Asset Accounting on Simple Finance 1503 or 1605 – No need of chart of depreciation migration
- New Asset Accounting on 1610 or Higher and customer doing upgrade – No migration needed.

## Migrating a Chart of Depreciation

Once you verify all the preparation activities for migrating a chart of depreciation, you will follow the IMG path to migrate.

The menu path is SPRO >>> Conversion of Accounting to SAP S/4HANA >>> Preparations and Migration of Customizing for Asset Accounting >>> Migration from Classic to New Asset Accounting >>> Migrate Charts of Depreciation (see Figure 8-47).



**Figure 8-47.** Migration for New AA

Execute these steps:

1. Perform the migration in a test run.
2. Check the applicable log to correct any errors.
3. Execute the migration in the update run.

You can display the migration log of all migrations performed in a test run or an update run from the Customizing for Asset Accounting, under the Display Migration Log. (You can see the IMG task in Figure 8-47.)

You might wonder if there are errors while migrating charts of depreciation, whether you can do the changes to the chart of depreciation manually. Indeed you can. Verify the following and assign ledgers and other depreciation parameters properly

1. Assign accounting principles and ledger groups to depreciation areas: SPRO >>> Asset Accounting >>> General Valuation >>> Depreciation Areas >>> Define Depreciation Areas
2. Settings for posting to the GL: SPRO >>> Asset Accounting >>> General Valuation >>> Depreciation Areas >>> Define Depreciation Areas
3. Value transfer acquisition costs and production costs: SPRO >>> Asset Accounting >>> General Valuation >>> Depreciation Areas >>> Specify Transfer of APC Values

4. Transfer of depreciation terms: SPRO >>> Asset Accounting >>> General Valuation >>> Depreciation Areas >>> Specify Transfer of Depreciation Terms
5. Use of parallel currencies: SPRO >>> Asset Accounting >>> General Valuation >>> Currencies >>> Specify the Use of Parallel Currencies

## Performing Additional Manual Activities

Once the chart of depreciation has been migrated successfully (either manually or by the program automatically), you can change other customizing settings before activating New Asset Accounting.

For example:

1. Define Depreciation Area for Quantity Update: Asset Accounting >>> Valuation >>> Depreciation Areas >>> Specify Depreciation Area for Quantity Update
2. Define Technical Clearing Account for Integrated Asset Acquisition: Asset Accounting >>> Integration with General Ledger Accounting >>> Technical Clearing Account for Integrated Asset Acquisition >>> Define Technical Clearing Account for Integrated Asset Acquisition
3. Specify Alternative Document Type for Accounting-Principle-Specific Documents: Asset Accounting >>> Integration with General Ledger Accounting >>> Integrated Transactions: Alternative Document Type for Ledger-Group-Specific Documents >>> Specify Alternative Document Type for Accounting-Principle-Specific Documents
4. Specify Revenue Distribution for Asset Retirement: Asset Accounting >>> Transactions >>> Retirements >>> Gain/Loss Posting >>> Define Revenue Distribution for Fixed Asset Retirement



5. Post Net Book Value Instead of Gain/Loss: Asset Accounting >>> Transactions >>> Retirements >>> Gain/Loss Posting >>> Post Net Book Value Instead of Gain/Loss >>> Subactivity Specify Depreciation Areas for Net Book Value Posting

## What Is a Technical Clearing Account?

This account is necessary to post an integrated asset acquisition in SAP S/4HANA.

The system splits transactional data into an operational part and a valuating part:

- The operational part is the vendor invoice.
- The valuating part is asset posting with capitalization of the asset.

SAP S/4HANA system generates ledger-group-specific documents with this setup. It posts documents in all the accounting principles in one attempt.

How do you create this GL account? The menu path is /N Accounting >>> Financial Accounting >>> General Ledger >>> Master Records >>> G/L Accounts >>> Individual Processing >>> Centrally (transaction FS00) (see Figure 8-48).

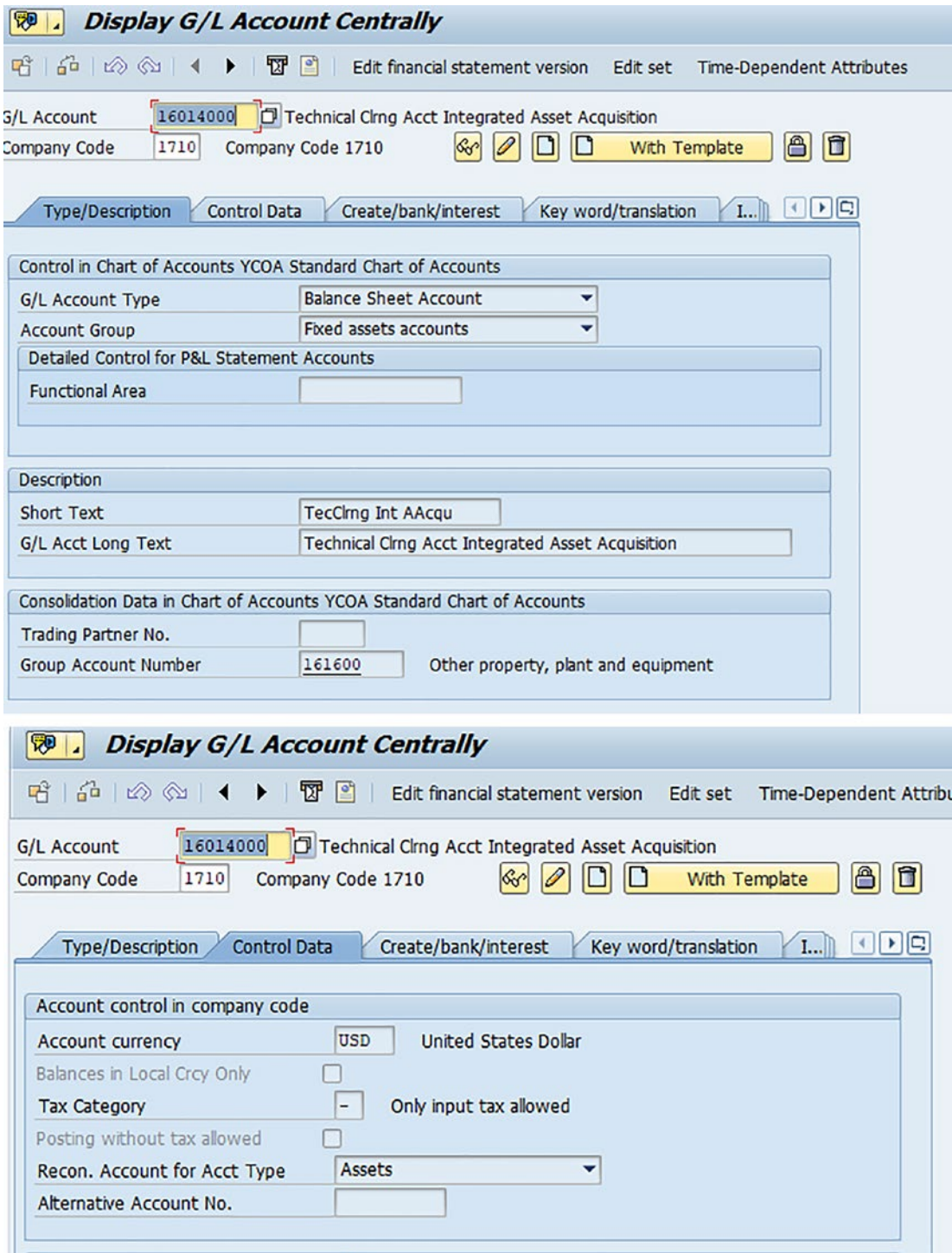
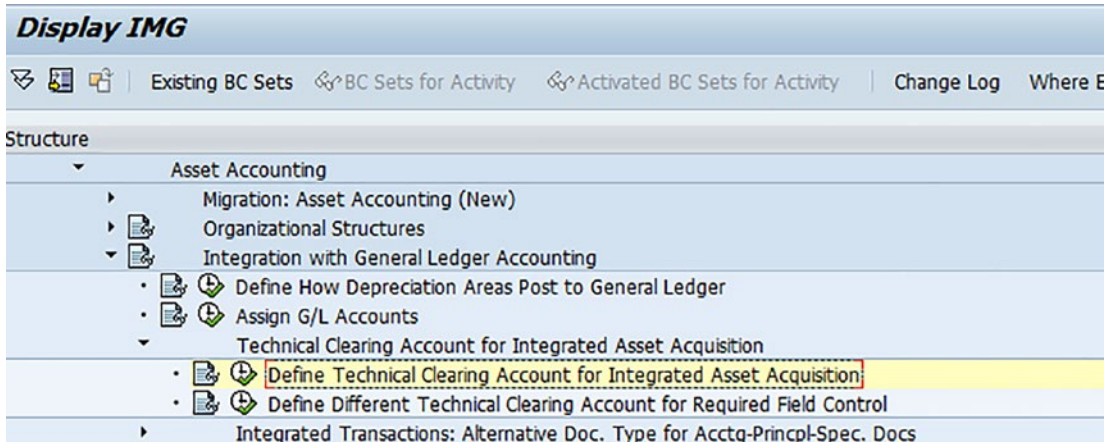


Figure 8-48. GL account creation properties

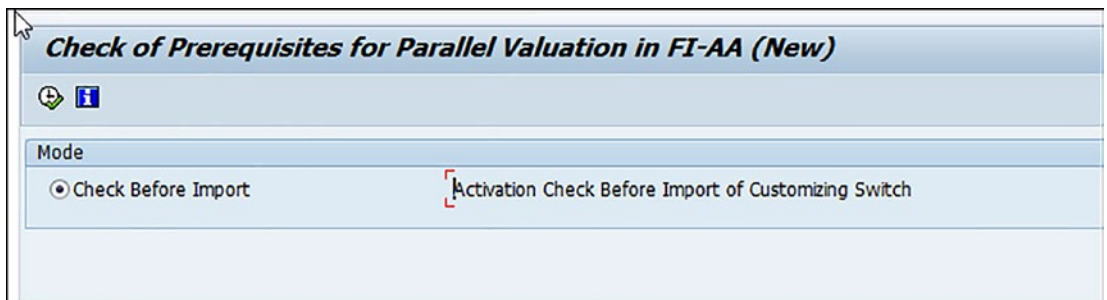
Enter this G/L account into the account determination of Asset Accounting for your chart of accounts in SPRO (see Figure 8-49).



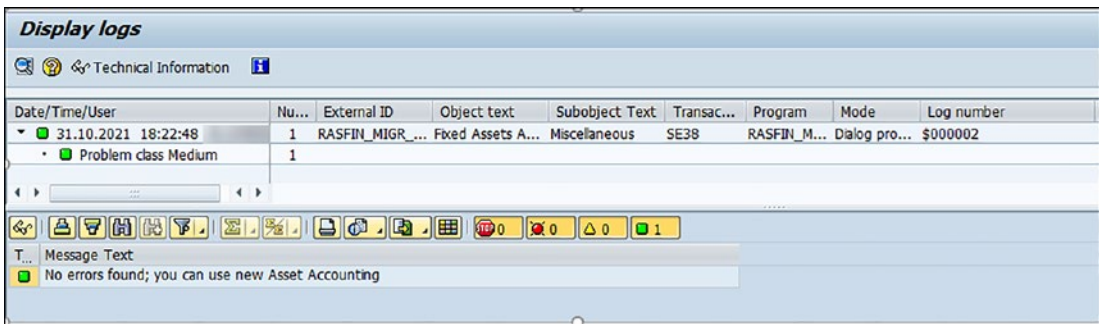
**Figure 8-49.** SPRO path for “Define Technical Clearing Account for Integrated Asset Acquisition”

## Activate Asset Accounting (New)

The menu path is SPRO ► Conversion of Accounting to SAP S/4HANA >>> Preparations and Migration of Customizing >>> Preparations and Migration of Customizing for Asset Accounting >>> Activate Asset Accounting (New) (see Figures 8-50 and 8-51).



**Figure 8-50.** Activation check



**Figure 8-51.** Output of activation check program

**Note** If the chart of depreciation cannot be migrated automatically by the migration report, you need not worry. Consultants can do the necessary customizing and then perform the migration adjustments manually.

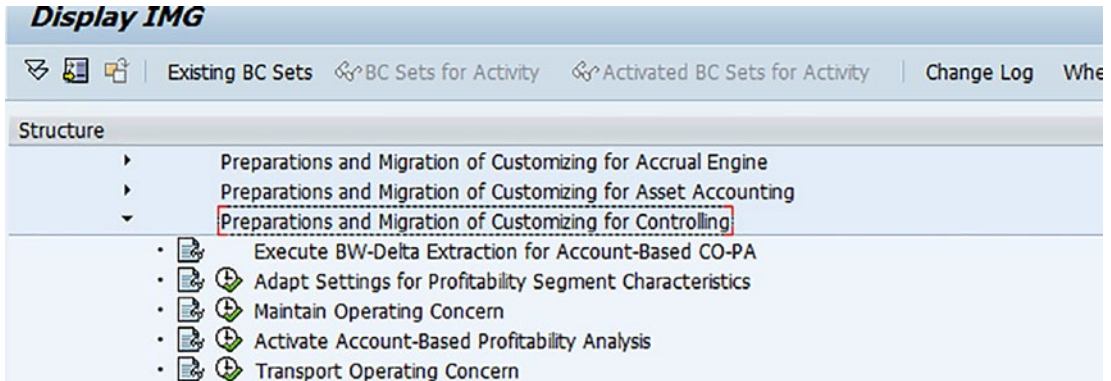
Verify and execute as shown here:

1. Check which depreciation areas need to be migrated.
2. Verify that the accounting principles are set up correctly.
3. Verify that the ledgers and ledger groups are set up.
4. Check assignment of accounting principles to ledger groups.
5. Verify that the depreciation areas are set up.
6. Verify that the accounting principles are assigned to a depreciation area.
7. Verify that the posting indicator for each depreciation area is correct.
8. Verify that the posting indicator for adoption of APC values is correct.
9. Verify that the posting indicator for adoption of depreciation terms is correct.
10. Verify the currency type of a depreciation area for parallel currency.

## Preparation and Migration of Customizing for Controlling

Once the Asset Accounting preparations completed, you have to start Controlling preparations.

The menu path is SPRO >>> Conversion of Accounting to SAP S/4HANA >>> Preparations and Migration of Customizing >>> Preparations and Migration of Customizing for Controlling (see Figure 8-52).



**Figure 8-52.** Menu path for “Preparations and Migration of Customizing for Controlling”

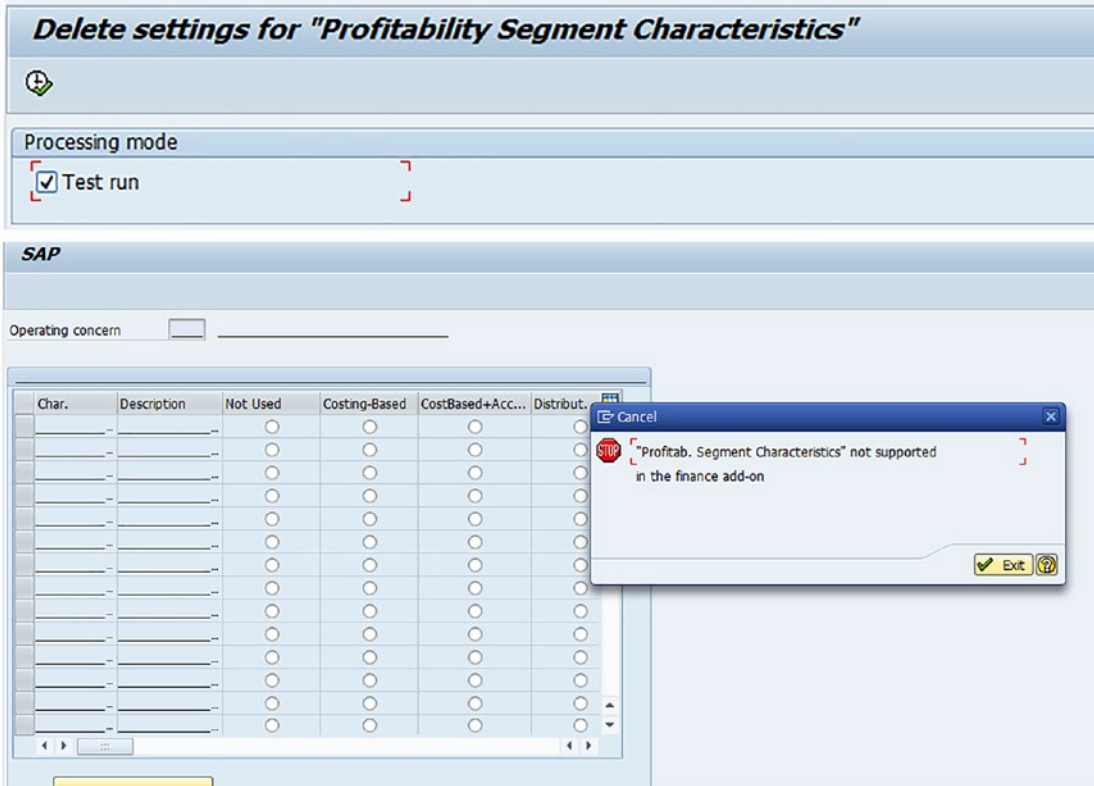
This task has the following substeps:

1. Execute BW-Delta extraction for account-based CO-PA
2. Adapt settings for profitability segment characteristics
3. Maintain operating concern
4. Activate account-based profitability analysis
5. Transport operating concern

### Step 1: Execute BW-Delta Extraction for Account-Based CO-PA

As account-based CO-PA line items that are not extracted before the migration, they may be overlooked after the migration when the next delta is loaded. If you are not using BW-Delta Extraction for Account-Based CO-PA in our current source environment, this is not needed in your activity list.

## Step 2: Adapt Settings for Profitability Segment Characteristics



**Figure 8-53.** Adapt Settings for Profitability Segment Characteristics” execution output

Once you complete this task, you must adapt the settings for profitability segment characteristics (segment level characteristics) made in classic CO-PA (KEQ3), as the function is no longer available in S/4HANA.

## Step 3: Maintain Operating Concern

The menu path is SPRO >>> Preparations and Migration of Customizing >>> Preparations and Migration of Customizing for Controlling >>> Maintain Operating Concern.



Here, you will activate operating concerns for account-based profitability analysis. If this setting is not made, the new profitability reporting will not be available. If the source system has COPA with costing-based functionality, you just activate account-based COPA. If the source system already has an account-based COPA, no action is needed. If the source system does not have COPA, no action is needed.

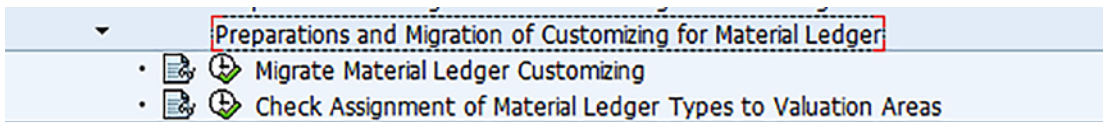
Next, generate the environment.

## Important Points

During the conversion project and as a part of the conversion activity, you activate account-based profitability analysis, but don't completely do the configuration. Once the system is live, you will do configuration and testing based on the needs of your customer. Even after conversion, customers can use costing-based profitability analysis.

## Preparations and Migration of Customizing for ML

This preparation has two steps, as shown in Figure 8-54.



**Figure 8-54.** Preparation steps for ML

- Preparations and Migration of Customizing for ML
- Migrate Material Ledger Customizing

The Material Ledger is required in SAP S/4 HANA Materials Management. You have to migrate even if you are already using SAP S/4HANA Finance.

Execute this as a test run first. If you get any error messages, contact SAP support. Correct the errors before continuing. Then run it in update mode (see Figure 8-55).



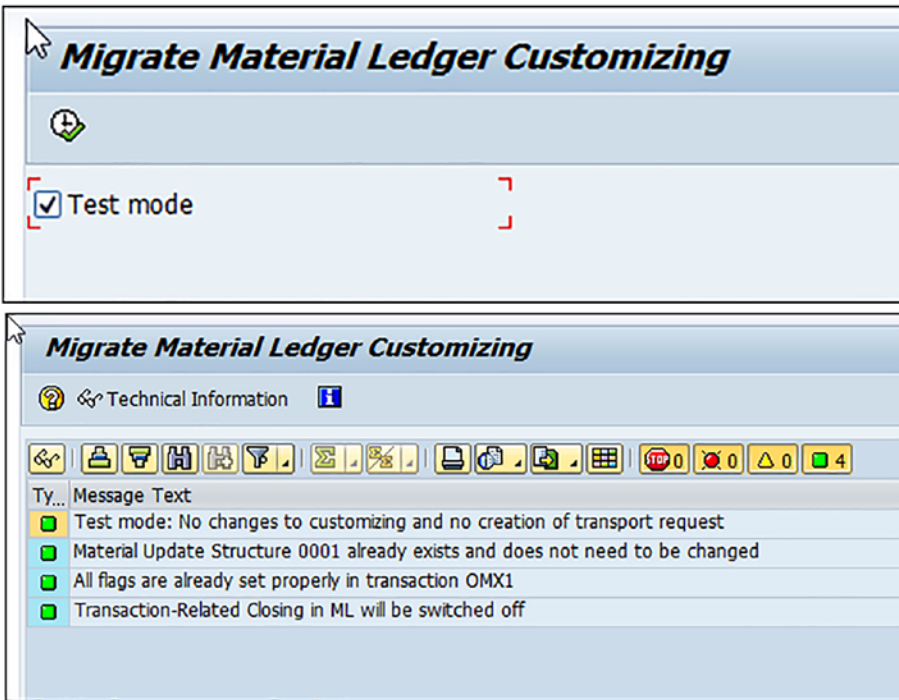


Figure 8-55. Migration of ML customizing

1. Check Assignment of Material Ledger Types - Valuation Areas (see Figure 8-56).

Change View "Assignment of Material Ledger Types to Valuation Areas":

Valuation area	Company Code	Mat. ledger type	Status
0 Valuation area	████	9000	🟢
████	████	9000	🟢
████	████	0001	🟢
████	████	0001	🟢
████	████	0001	🟢
████	████	0001	🟢

Figure 8-56. ML assignments

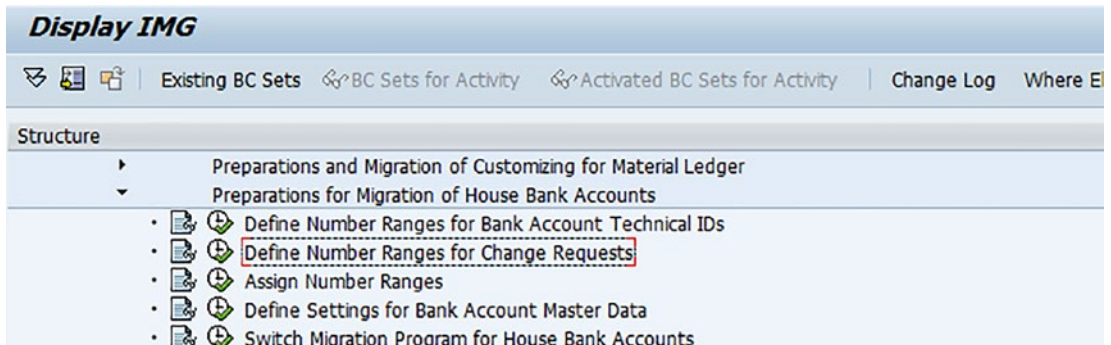
## Preparations for Migration of House Bank Accounts

In order to move house banks and house bank IDs from the ECC system to the SAP S/4HANA system, you need to prepare the system using the following steps.

This task has the following subtasks:

1. Define number ranges - bank account IDs
2. Define number ranges for change requests
3. Assign number ranges
4. Define settings for the bank account master
5. Switch the migration program for the house bank accounts

The menu path is SPRO >>> Conversion of Accounting to SAP S/4HANA >>> Preparations and Migration of Customizing >>> Preparations for Migration of House Bank Accounts (see Figure 8-57).



**Figure 8-57.** "Preparations for Migration of House Bank Accounts" menu path

Here are the configuration steps:

### 1. Define Number Ranges - Bank Account IDs

Create the number range intervals for the bank account technical IDs. The system automatically assigns a technical ID to a bank account when they migrate to S/4HANA (see Figure 8-58).

<b>Edit Intervals: Account ID, Object FC_ACCID</b>			
Number Range No.	From No.	To Number	
01	1000000000	1999999999	1

**Figure 8-58.** Number ranges for bank account technical IDs

### 2. Define Number Ranges for Change Requests

The intervals for change requests used in Bank Account Management are created as the number range (see Figure 8-59).

<b>Edit Intervals: FC_CREQID, Object FC_CREQID</b>				
Number Range No.	From No.	To Number	NR Status	External
01	000000000001	999999999999	0	<input checked="" type="checkbox"/>

**Figure 8-59.** Number ranges for change requests

### 3. Assign Number Ranges

Assign an interval for the change request IDs to a number range interval for the bank account IDs (see Figure 8-60).

<b>Change View "Configuration for Bank Account Management": Details</b>	
Req. No. Range	01
Tech. ID No. Range	01

**Figure 8-60.** Number range assignments

#### 4. Define Settings - Bank Account Master.

In this configuration step, you create basic settings for the bank account master data.

Define bank account types based on the customer’s business purposes. Account types also will be used for analysis in reporting and planning. This configuration is a must for the migration of house bank accounts. As of now, the activities on the left side of Figure 8-61 are not needed. You can define them after conversion based on the usage of the system for cash management.

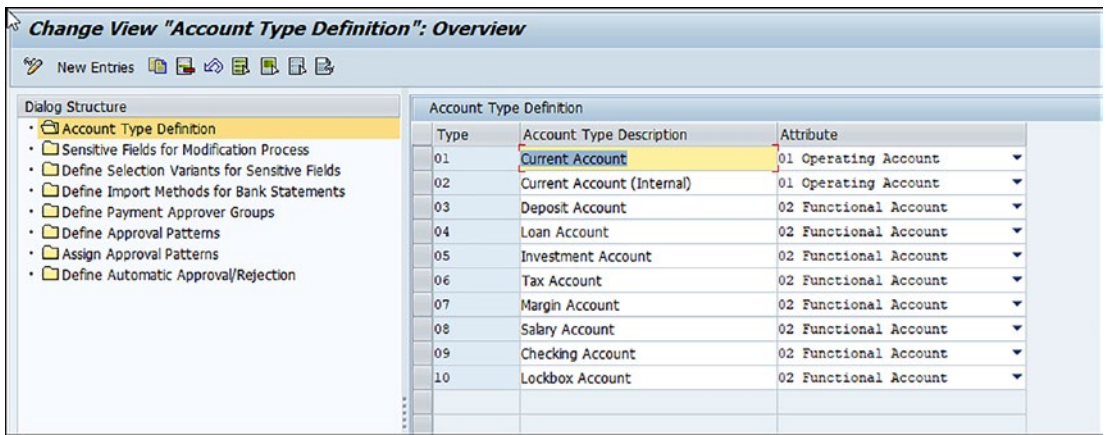


Figure 8-61. Account types

Another important activity is defining basic settings for Cash Management. Refer to the following menu path: SPRO >>> Financial Supply Chain Management >>> Cash and Liquidity Management >>> General Settings >>> Define Basic Settings (see Figure 8-62).

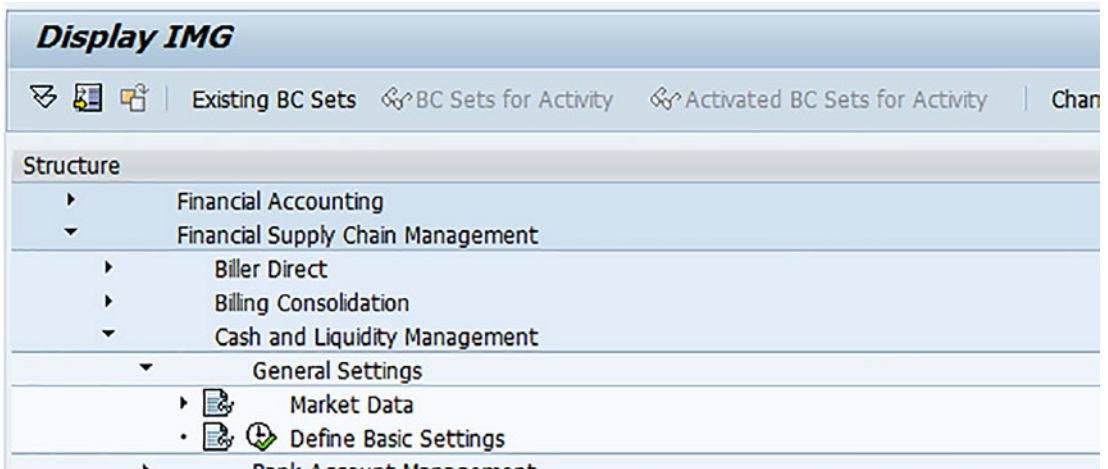


Figure 8-62. Define the basic settings

Select Activate Directly to migrate existing houses from ECC to S/4HANA. The Cash Scope is based on the customer input (see Figure 8-63).

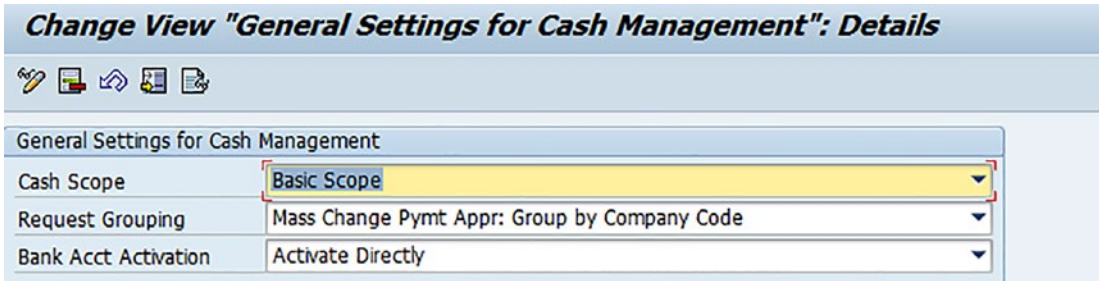


Figure 8-63. Define the basic settings and properties

## Data Migration Process

### Introduction

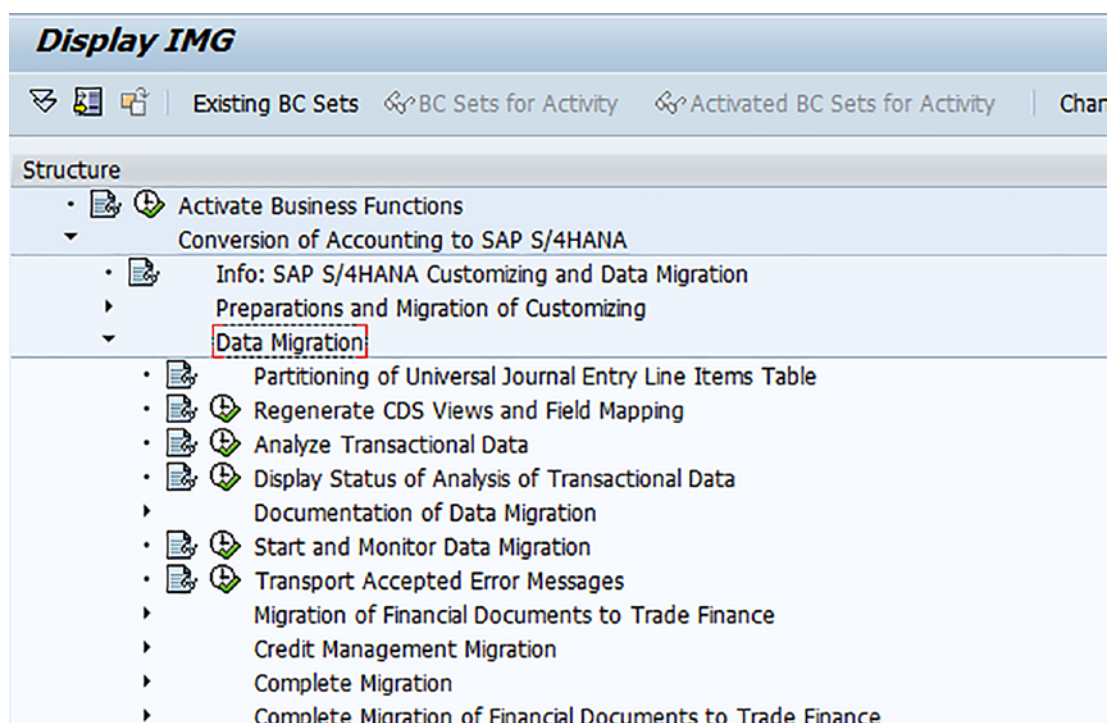
Once the preparation activities are completed for conversion of Accounting to SAP S/4HANA on the SAP S/4HANA system (after SUM), and you don't have any errors, your system is then ready to execute the Data Migration Monitor. This lesson provides an overview on how data migration happens.

This activity has three broad activities:

1. Execute the migration activity.
2. Display the status of the activity.
3. Analyze warnings and error messages and fix them. If needed, contact SAP by opening an OSS message with SAP.

### Data Migration

The menu path is SPRO>>>> Conversion of Accounting to SAP S/4HANA>>>> Data Migration (see Figure 8-64).



**Figure 8-64.** Menu path for executing data migration monitor

Before running the “Start and Monitor Data Migration” task, you need to finish the following tasks sequentially. You need to address all the issues, even if issues persist.

1. Partitioning of universal journal entry line items table
2. Regenerate CDS views and field mapping
3. Analyze transactional data
4. Display status of analysis of transactional data

## What Is Partitioning of Universal Journal Entry Line Items Table?

Transactional data from General Ledger, Controlling, Material Ledger, and Asset Accounting will be filled in the ACDOCA table once you execute the monitor.

If data volume in those areas is very high, you have to plan for partitioning the ACDOCA table. This helps you avoid performance and merging operations.



As per the IMG help documentation, if you have more than 1 billion records, consider partitioning. Refer to SAP Note 2289491. This activity is need-based and every system may not have this activity. Consultants working on this may consider this activity based on the need.

## Executing the “Regenerate CDS Views and Field Mapping” Step

SAP recommends executing this step in batch mode. It needs additional authorization FINS\_MIG and developer authorization object S\_DEVELOP.

You can verify the progress of the program using the SLC1 transaction with the subobject FINS\_GENERATE.

Regenerate the compatibility and data migration views. Generate the redirection of SELECT statements from the concerned database tables to the corresponding compatibility views. Then regenerate the mapping of customer-specific fields in the data migration procedure.

## Analyzing the Transactional Data Step

This task determines if there are inconsistencies in the transactional data of the current system. You have to analyze the inconsistencies and fix them before executing the monitor. You should not leave error messages unresolved. If you do this exercise in the SBX system, it is easy to handle the production environment.

Step R21 performs a complete check of transactional data. If you have multiple clients, you must run this activity in every client (see Figure 8-65).

The screenshot shows the 'Display Status of Analysis of Transactional Data' window. It displays a tree view on the left and a data table on the right. The tree view shows a 'Production Client' with sub-items for 'First Run', 'Repeated Run 1', 'Repeated Run 2', 'REC\_0\_CO', 'GL - Analyse', and 'Finished'. The data table shows the following information:

Client	Run ID	ETC	Proc. Step ID	Proc. Status	Unfinished	Finished	Warn. Msg	Error Msg	Accepted	Not Acc.
Production Client				Finished						
CO First Run				Finished	0	32				
CO Repeated Run 1	1			Finished	0	32				
Repeated Run 2	2			Finished	0	32				
REC_0_CO	2		REC_0_CO	Finished	0	20				
CO Finished	2		REC_0_CO	Finished	0	20	0	0		
GL - Analyse	2		REC_0_GL	Finished	0	12				
CO Finished	2		REC_0_GL	Finished	0	12	0	0		

Figure 8-65. Display status of analysis of transactional data



As you can see in Figure 8-65, no errors were found. After these four steps, you can start the Start and Monitor Data Migration process.

The Start and Monitor Data Migration Monitor has consolidated functionality and it covers the following tasks:

1. Migration of cost elements
2. Technical check of transactional data
3. Material Ledger migration
4. Enrichment of data
5. Migration of line items
6. Migration of balances
7. Migration of General Ledger allocations to journal entry tables
8. Calculation of depreciation and totals values
9. Migration of house bank accounts

## Migration of Cost Elements

As G/L accounts and cost elements are merged in SAP S/4HANA, Cost elements will be moved to FS00 after executing the monitor as a first step.

The system verifies before it moves cost elements to FS00, if the cost elements are consistent.

You have to correct the indicated inconsistencies before the migration, or the G/L account may have the wrong account types after system conversion.

There is no KA02 after converting the system; the default account assignment will be migrated to OKB9. This also helps with redundancy.

Once the system is converted, consultants need to verify and adjust authorizations for creating cost elements, as there is a change in user activity after system conversion.

Consultants working on the project must also make sure they provide user training and manuals for this, as there is a different business process for creating cost elements and maintaining default account assignments. You can also create secondary costs, so you have to plan for authorization adjustments to create or change G/L accounts. Authorization object CO-CCA: Cost Element Master (K\_CSKB).

Default assignments are no longer possible at KA02. They will be done using transaction OKB9 (table TKA3A).

Figure 8-66 shows an example error at this step.

Type	Typ	Message class	No.	Message Text	Number of Occurrences
E	FINS_RECON	745		Cost element *** missing in chart of accounts *** for controlling area ***	3
W	FH	890		Primary cost element **/** (category **) does not exist in C/A **	81
E	FINS_RECON	119		**/**: Zero-Bal-Cling account master data inconsistent: See Note 961937	1

Figure 8-66. Probable error

After fixing the error, you have to repeat the step shown in Figure 8-67.

The screenshot shows the 'Start and Monitor Migration' window. The 'Control' tab is active, showing 'Process Control' with 'Current Activity' set to 'GCC Check Consistency of G/L Accounts and Cost Elements'. The migration job is 'Stopped'. A dialog box is open, asking: 'Do you want to repeat the activity "Check Consistency of G/L Accounts and Cost Elements"?'. Below the dialog, the 'Status of Current Migration Run' table is visible.

Next Step	Activity Id	Activity	Status	Proc. Status	Current Date	Runtime	Net Time	Act. Jobs	Completion	Errors
Bj	GCC	Check Consistency of G/L Accounts and Cost Elements	⊗	Issues found	07.11.2021	0:00	0:00		100%	4
	GCM	G/L Account and Cost Element Merge	○○○			0:00	0:00		0 %	0
	DAA	Default Assignment for Cost Elements	○○○			0:00	0:00		0 %	0

Figure 8-67. How to repeat the step

You can find it after fixing the error (see Figure 8-68).

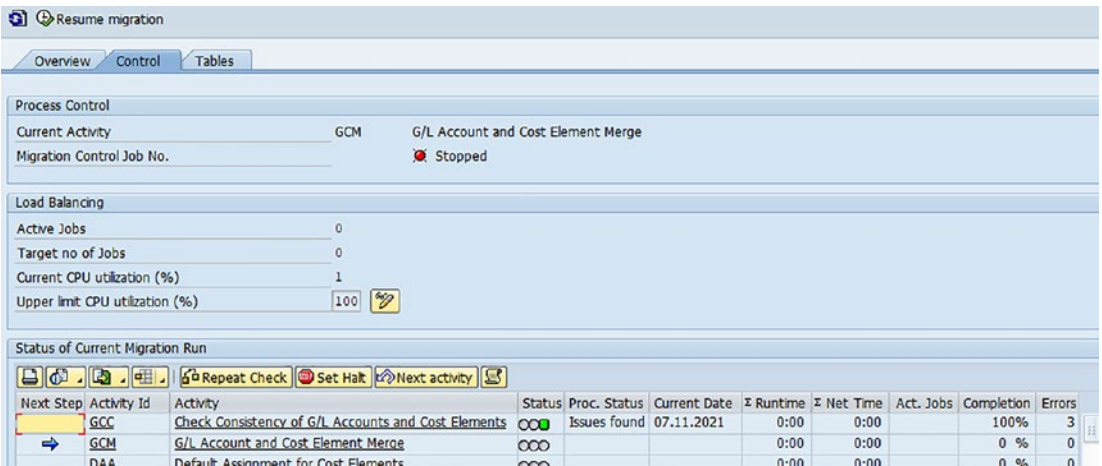


Figure 8-68. After fixing the error

Figure 8-69 shows how the monitor moves automatically to other steps:

1. GCC (check consistency of G/L accounts and cost elements)
2. GCM (G/L account and cost element merge)
3. DAA (default assignment for cost elements)

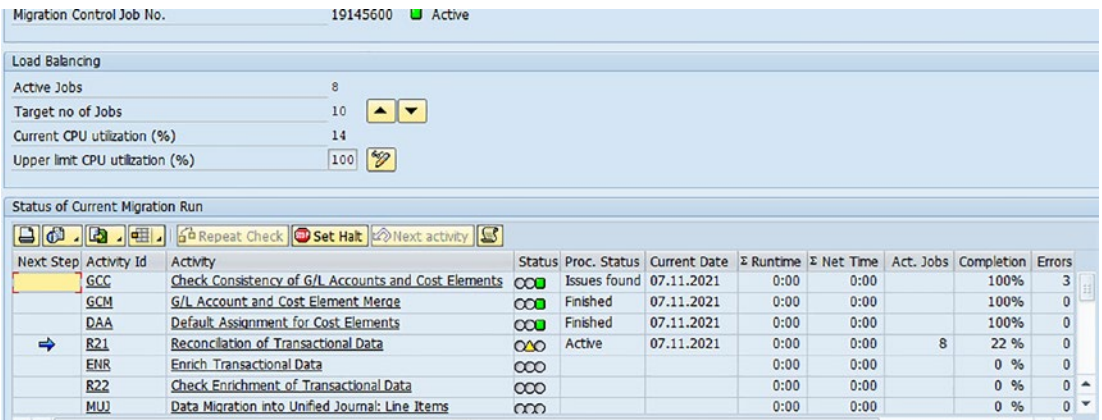


Figure 8-69. Migration Monitor

The next step in the monitor is the “Technical Check of Transactional Data” step.

## Technical Check of Transactional Data

When you run this step, the system verifies that all transactional data is complete and correct. If inconsistencies are found, you need to verify the reason for the errors and fix them. Always refer to the Help document for complete information. You can see it in Figure 8-70. No errors are found.

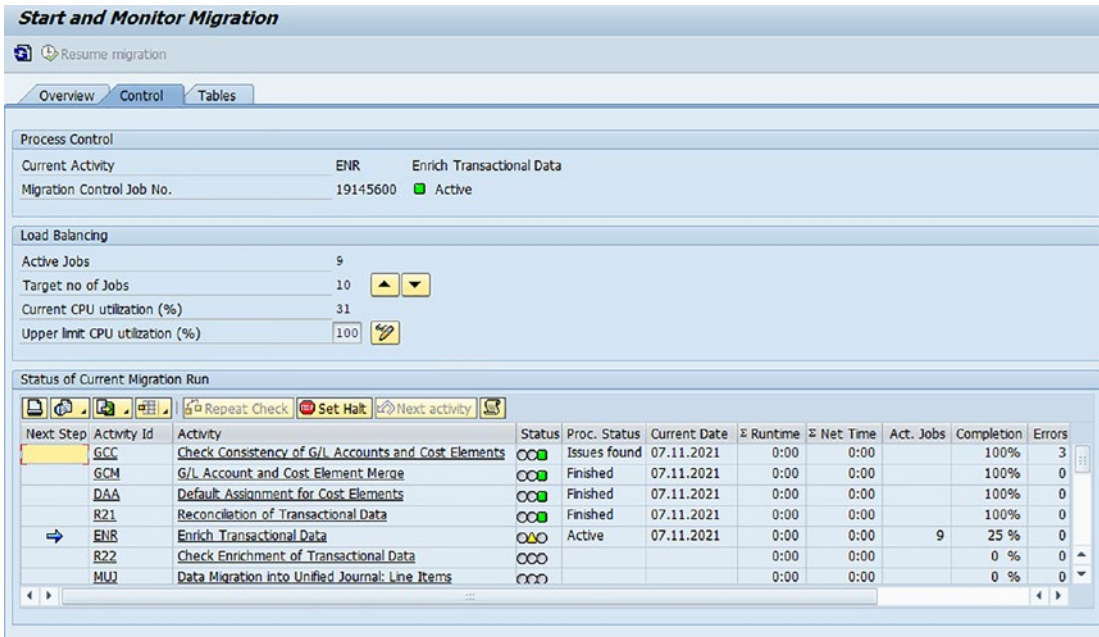


Figure 8-70. No errors for technical check of transactional data

## Material Ledger Migration

You have to migrate the Material Ledger, even if the source system does not have ML activated.

- **M10: Migrate Material Ledger Master Data.** This activity ensures that the Material Ledger is activated for all valuation areas.
- **M11: Migrate Material Ledger Order History.** If the Material Ledger was not active in any valuation area before SAP S/4HANA conversion, this activity ensures that all existing purchase order history table

records and production order history table records are converted into ML currencies.

- **M21: Check ML Production Order and Purchase Order History.** This task verifies that all production and purchase order history records have been converted into the Material Ledger currencies.
- **M20: Check Material Ledger Master Data.** This task checks the migrated data. For instance, existing values from the inventory and Material Ledger tables are compared to the aggregation via the ACDOCA table (see Figure 8-71).

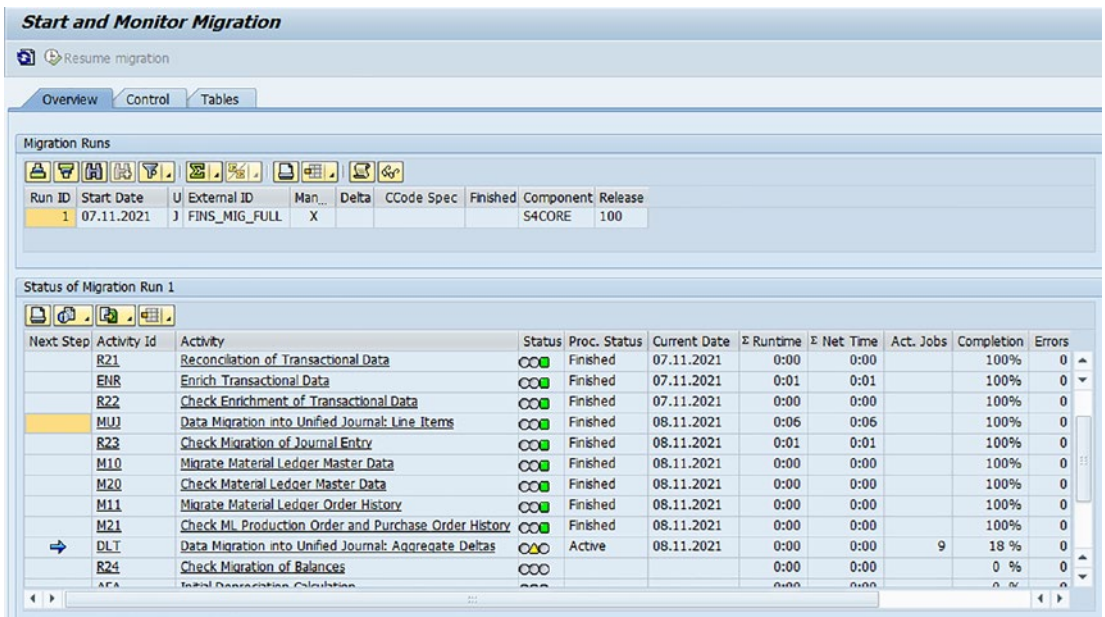


Figure 8-71. ML data migration

## Migration of Line Items

This step has the following activities

- MUJ data migration into unified journal: line items
- R23 check migration of journal entry

The system migrates accounting documents from GL and the different subledgers to the ACDOCA table. After the migration, the resulting line items are checked (see Figure 8-72).

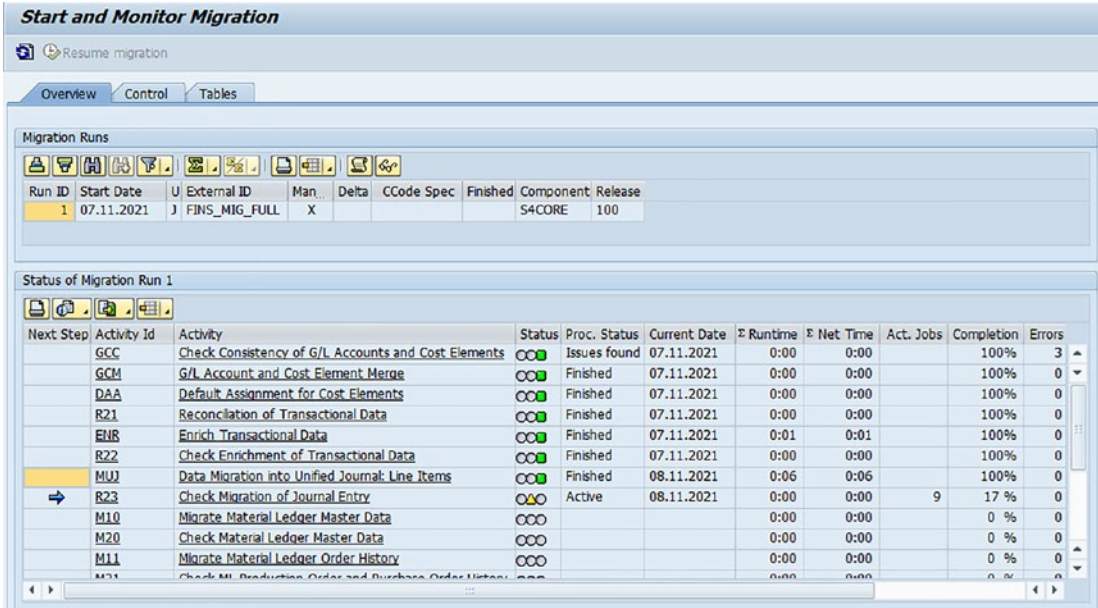


Figure 8-72. Line items moved to UJE ( ACDOCA)

## Migration of Balances

This activity ensures the migration of the documents. This task has the following activities

- DLT data migration to the universal journal entry: Deltas for totals
- R24 check migration of balances (see Figure 8-73)



**Start and Monitor Migration**

Resume migration

Overview Control Tables

Migration Runs

Run ID	Start Date	U	External ID	Man...	Delta	CCode Spec	Finished	Component	Release
1	07.11.2021	J	FINS_MIG_FULL	X				S4CORE	100

Status of Migration Run 1

Next Step	Activity Id	Activity	Status	Proc. Status	Current Date	Runtime	Net Time	Act. Jobs	Completion	Errors
	R23	Check Migration of Journal Entry	OO	Finished	08.11.2021	0:01	0:01		100%	0
	M10	Migrate Material Ledger Master Data	OO	Finished	08.11.2021	0:00	0:00		100%	0
	M20	Check Material Ledger Master Data	OO	Finished	08.11.2021	0:00	0:00		100%	0
	M11	Migrate Material Ledger Order History	OO	Finished	08.11.2021	0:00	0:00		100%	0
	M21	Check Mtl. Production Order and Purchase Order History	OO	Finished	08.11.2021	0:00	0:00		100%	0
	DLT	Data Migration into Unified Journal: Aggregate Deltas	OO	Finished	08.11.2021	0:03	0:03		100%	0
	R24	Check Migration of Balances	OO	Finished	08.11.2021	0:01	0:01		100%	0
→	AFA	Initial Depreciation Calculation	OO			0:00	0:00		0 %	0
	R25	Check Initial Depreciation Calculation	OO			0:00	0:00		0 %	0
	CM1	Migrate House Bank Account (T012K) to Bank Account	OO			0:00	0:00		0 %	0
	GL_AL_MIG	Migration of the GL Allocations	OO			0:00	0:00		0 %	0

**Figure 8-73.** Migration of balances

Check Migration of Balances (R24) verifies that all balances have been migrated correctly using the compatibility views.

## House Bank Migration

The FCLM\_BAM\_MIGRATION\_REPORT program, accessed via SE38, can be used for the manual activity. Normally, house banks and bank accounts are automatically migrated by the Cockpit from the T012K table to FCLM\_BAM\_ACLINK2. You can verify this using the SLG1 transaction if there are any errors during house bank migration. Sometimes surprisingly there are errors, even when the status is green. You can see this migration of house banks in migration monitor as CM1.

## Migration of House Bank Accounts

You must migrate existing house bank accounts from the T012K table to the FCLM\_BAM\_AMD table. You must have the authorization F\_CLM\_BAM, activity 01 and 02, before you do this activity (see Figure 8-74).



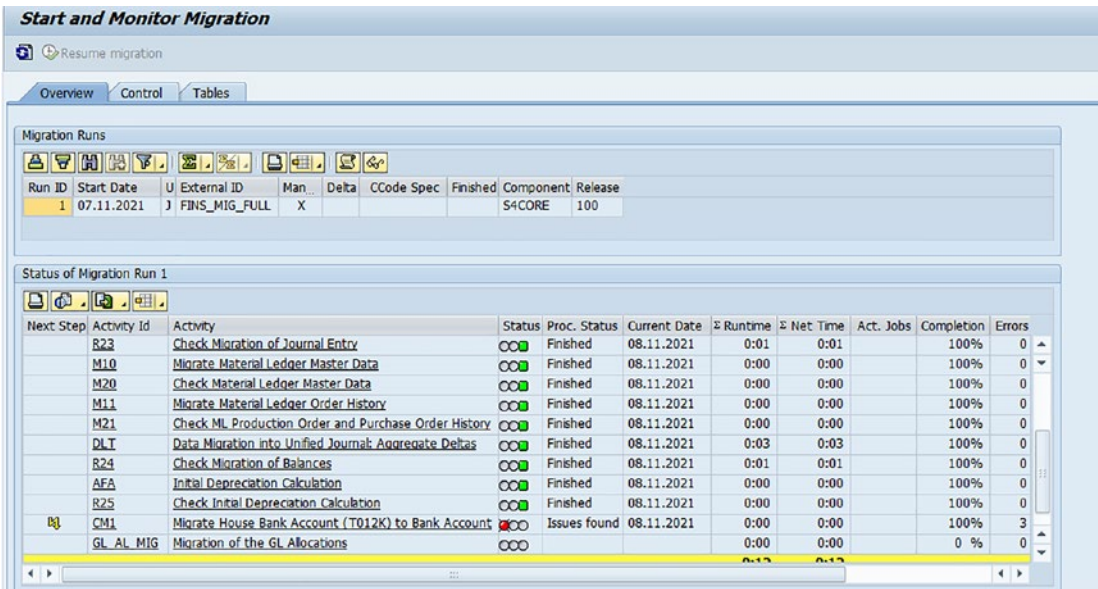


Figure 8-74. Error at migrating house banks

The reason for this error (see Figure 8-75)

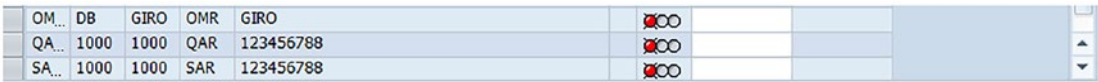


Figure 8-75. Error reason

The error says that these banks are not related to the source system company code. These banks are from template company codes, so you can accept the error.

Repeat the step (see Figures 8-76 and 8-77).

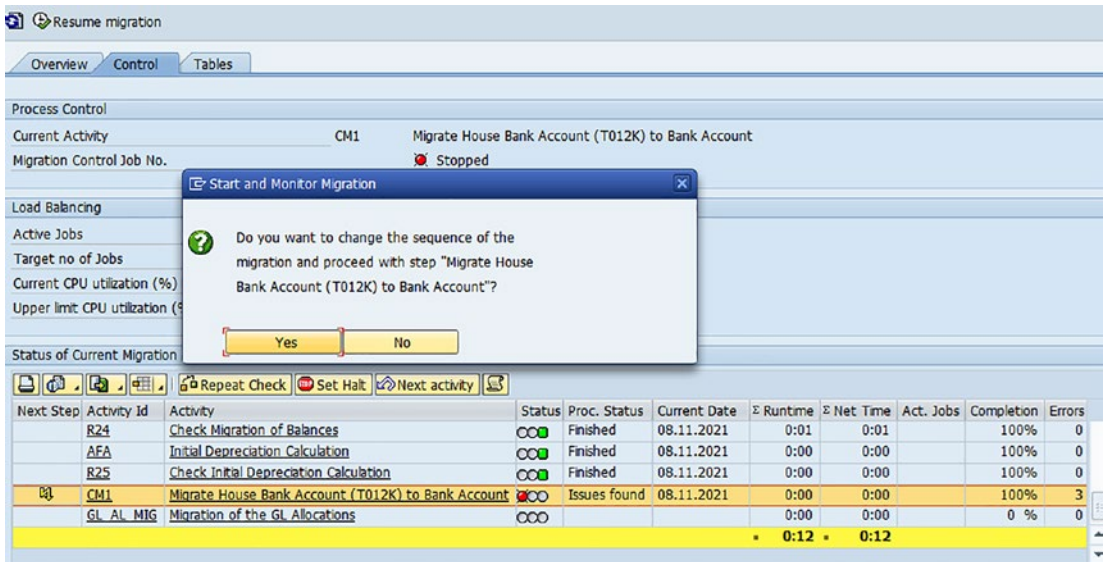


Figure 8-76. Repeat the error

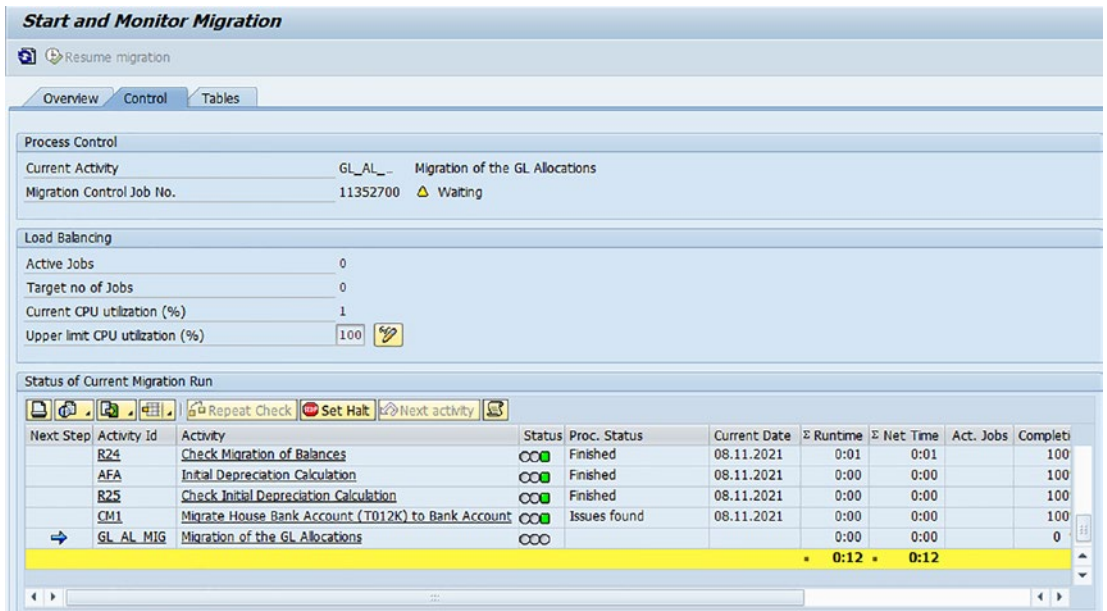


Figure 8-77. Issues have been fixed

## Migration of General Ledger Allocations to Journal Entry Tables

This step adjusts the definitions of G/L allocation cycles with actual values. This step is needed, as the allocation cycle references a summed table and will replace the universal journal entry table called ACDOCA.

### Complete Migration

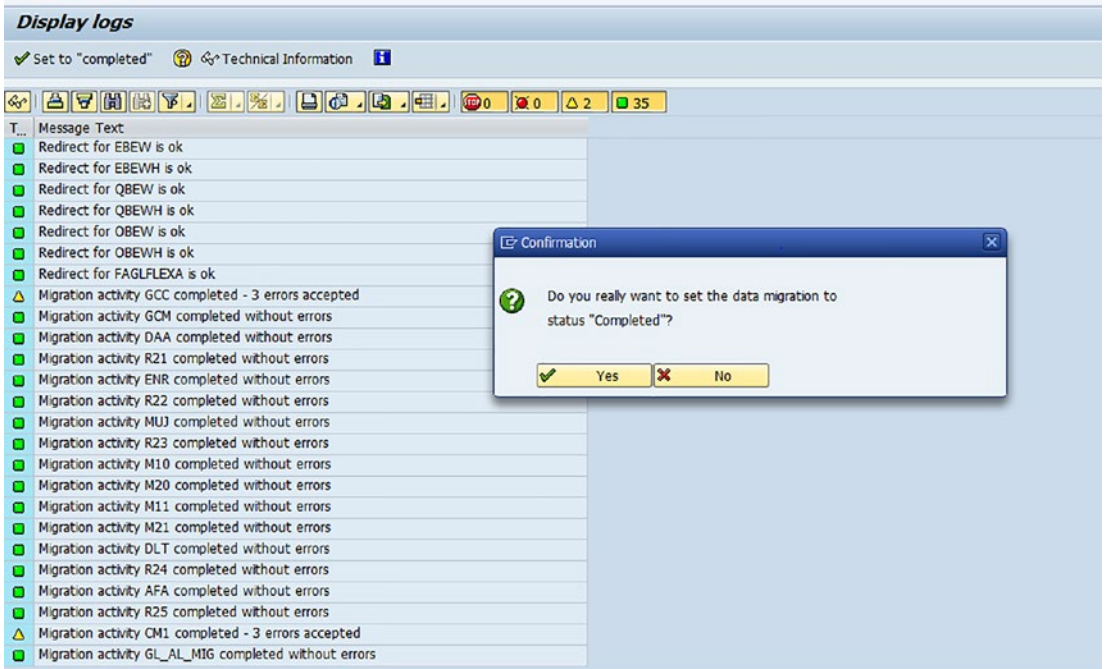
Once the data migration is successfully completed, you must execute the Complete Migration task. But before you do that, you must reconcile the migrated data.

There is no standard format for this. You may be able to decide with your client how they want to validate the before and after system conversion process.

As examples, I provide information about how I have done my conversion projects. I performed the following reconciliations for the migrated data to make sure that the migration has been performed successfully and correctly.

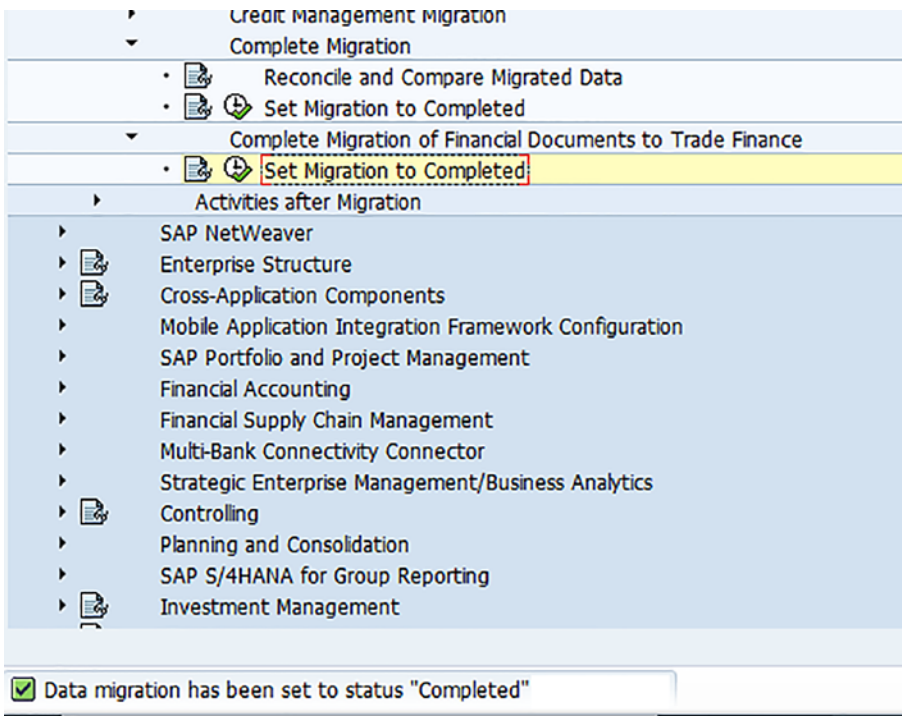
1. I reconciled General Ledger 0 with Leading Ledger 0L.
2. I compared the data after the migration with the data before migration by executing the following reports or programs:
  - Financial statement F.01
  - Asset history sheet
  - Cost center report S\_ALR\_87013611
  - Sales order related program RKKBSELL
  - G/L balance report RFSSLD00
  - GL line items report FBL3N/FAGLB03/FAGLL03
  - Vendor open item FBL1N
  - Customer open item RFDEPL00

The menu path is SPRO ► Conversion of Accounting to SAP S/4HANA ► Data Migration ► Set Migration to Completed (see Figure 8-78).



**Figure 8-78.** Set migration completed

Confirm by clicking the Yes option in the window (see Figure 8-79).



**Figure 8-79.** *Data migration is complete*

After you set the migration to complete, users will be able to post the documents and can perform their business processes.

## Post-Conversion Activities

The important post-conversion activities include the following:

1. Adjusting the authorizations
2. Custom code adaptation
3. Verifying the custom programs/reports/transactions
4. Interface testing
5. Output devices testing
6. Unit and integration testing

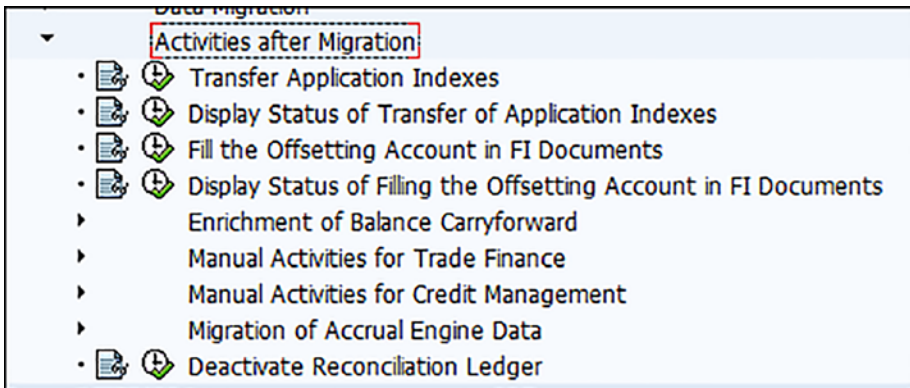
7. Adjustment of customer/vendor numeric number ranges, which must be set to external to allow identical numbers for customer/vendor and business partner
8. User training for new areas across all lines of business
9. Documentation and validation of changes

## Activities After Migration

### Introduction

Activities after migration (or post-migration activities) should be performed during business downtime, not technical downtime. Customers can plan to execute these activities at a later stage, over a weekend after the system conversion.

The menu path is as follows: SPRO>>>> Conversion of Accounting to SAP S/4HANA>>>> Activities after Migration (see Figure 8-80).



**Figure 8-80.** Path for activities after migration

The following list shows the activities after migration. All the activities shown here might not be relevant for every customer. Consultants working on conversion projects should verify the system and run the appropriate activities.

1. Transfer application indexes and their statuses
2. Fill the offsetting account in Finance transactions
3. Display Status of filling the offsetting account in FI Documents

4. Enrichment of balance carryforward
5. Manual activities for Trade Finance
6. Manual activities for credit management
7. Migration of Accrual Engine data
8. Deactivate the Reconciliation Ledger

## Transfer Application Indexes

The menu path is SPRO ► Conversion of Accounting to SAP S/4HANA ► Activities after Migration ► Transfer Application Indexes. This task helps transfer application indexes to the database cold area to minimize the main memory consumption.

## Display Status of Transfer of Application Indexes

The menu path is SPRO ► Conversion of Accounting to SAP S/4HANA ► Activities after Migration ► Display Status of Transfer of Application Indexes. This task displays the status of the transfer of application indexes (see Figure 8-81).

Client	ETC	Proc. Step ID	Proc. Status	Unfinished	Finished	Warn. Msg	Error Msg	Accepted	Not Acc.
DEV client			Finished						
First Run			Finished	0	1				
GL/AP/AR Secondary Indexes		INDEX	Finished	0	1				
Finished		INDEX	Finished	0	1	0	0		

Figure 8-81. Display transfer of application indexes

## Fill the Offsetting Account in FI Documents

The menu path is SPRO ► Conversion of Accounting to SAP S/4HANA ► Activities after Migration ► Fill the Offsetting Account in FI Documents. This task is to fill the offsetting account in FI documents.



## Display Status of Filling the Offsetting Account in Finance Transactions

The menu path is SPRO ► Conversion of Accounting to SAP S/4HANA ► Activities after Migration ► Display Status of Filling the Offsetting Account in FI Documents. Here you can display the status of filling in the due dates into FI documents (see Figure 8-82).

Client	Run ID	ETC	Proc. Step ID	Proc...	Unfinished	Finished	Warn. Msg	Error Msg	Accepted	Not Acc.
DEV client				Finished						
First Run				Finished	0	31				
Opposite Account			GKONT	Finished	0	31				
Finished			GKONT	Finished	0	31	0	0		

**Figure 8-82.** Display status of filling the offsetting account in FI documents

## Enrichment of Balance Carry Forward

The menu path is SPRO ► Conversion of Accounting to SAP S/4HANA ► Activities after Migration ► Enrichment of Balance Carryforward ► Information: Enrichment of Balance Carry forward.

This is an optional step. This step can be executed at any time after the balance migration is completed or after the migration is completed. No downtime is needed for this task. To do this, posting periods of previous years must be closed to avoid postings.

This step recalculates the balance carry forward for accounts that are managed on an open item basis. Refer to help documents from the IMG menu or SAP Help documents for more information.

This task has the following subtasks:

1. Make Settings for the Enrichment of Balance Carryforward
2. Reconcile Balance Carryforward with Open Items
3. Display Status of Reconciliation

4. Enter Detail Specifications for Balance Sheet Accounts
5. Enter Detail Specifications for P&L Accounts
6. Enrich Balance Carryforward Based on Open Items
7. Display Balance Enrichment Status

## Migration of Accrual Engine Data

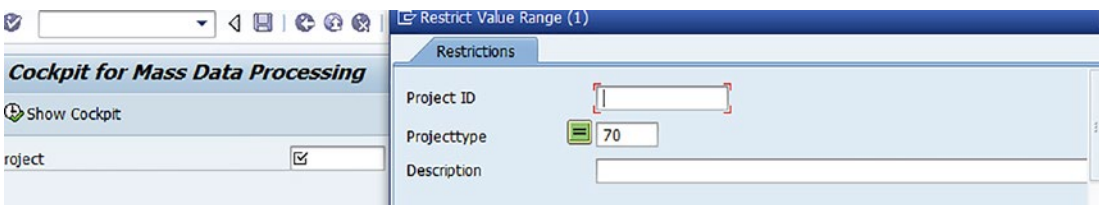
Here are the steps for migrating the Accrual Engine Data:

1. Run Project - Migrating Transactional Data - Accrual Engine
2. Set Status of Mass Data Project to Completed
3. Display Status of Projects for Accrual Engine Migration
4. Display Status of Migration Projects for Company Codes

The following sections discuss each of these steps in more detail.

### Run Project - Migrating Transactional Data - Accrual Engine

As a prerequisite before starting this activity, we might have done the preparation activity at SPRO >>>> Migration of Customizing for Accrual Engine. This task has to be performed in each system and client separately. The migration of transactional data is done by executing a mass data project of project type 70 (see Figure 8-83).



**Figure 8-83.** Run Project - Migrating Transactional Data - Accrual Engine

The transactional data consists of accrual objects and accrual postings. Both types of data are migrated collectively by the matching mass data project. Before you execute this, you must transport the migrated customizing into the productive system. For the migration of postings of the old Accrual Engine, you need a dummy G/L account.

This activity will generate line items to universal journals using this G/L account. Before doing this activity, you must ask the client to validate the reports taken from the ECC system.

## Conclusions

Activities after conversion can be done once the system is up and running. If you do not do this activity, some of the aging reports may not work properly and report execution and transaction execution may also be very slow. We can also plan to run SGEN once this is completed. The next chapter provides an overview of SAP S/4HANA conversion project tasks.

## CHAPTER 9

# An Overview of SAP S/4HANA Conversion Project Tasks

Discover	1. Execute Readiness Check, BSR, Etc
Prepare	1. Set up Project
	2. Preparation of activity sheet for conversion Project
	3. Discuss with Team and share the plan with Customer
	4. Analyse the Readiness Check Report
	5. Analyse the BSR Report
	6. Install Simplification item check Notes
	7. Execute SI check Report
	8. Start Evaluating Simplification Item Check Report
	9. Execute Maintenance Planner and generate file
	10. Prepare a list of mandatory Simplification items modules wise
	11. Verify Business Functions, IS components and add on as per Readiness check
	12. Custom Code Analysis
	13. Preparations for Asset Accounting
	14. Cross application preparation
	15. CVI
	16. Financial Data Reconciliations & Consistency check
	17. Consistency checks
SUM	1. SUM Preparations and SUM Execution
	2. SUM Downtime Preparation
	3. Finance Reports before Downtime
	4. SUM Execution phase
	5. SUM Final Phase
Conversion Cockpit	1. SUM ramp down
	2. Conversion Cockpit Preparation for Migration
	3. Conversion Cockpit - Data Migration
	4. Conversion Cockpit- Post Migration activities
	Reports Validation post Conversion
	Go-live
	Hypercare
	Establish safe and efficient operation
	Plan for further innovations

# Index

## A

Account types, 341, 345  
Accrual Engine, 17, 296, 298, 326  
Accrual Engine Data, 322, 326, 358, 360  
ACDOCA table, 11–14, 296, 297, 299, 343, 349, 350  
ACEMIGIMG transaction, 322, 324  
Activities after migration, 357–359  
Actual costing preparation, 139, 265, 267, 280  
Allocation cycle, complete migration, 354–356  
Asset Accounting, 13  
    advantages, 264, 265  
    conversion/migration, 220  
    EA-FIN financial extension, 220–223  
    periodic asset posting, 223, 224, 226–228  
    migration, 327  
    preparations, 335  
    SAP Note 2406313, 228, 229  
    SUM, 229–231

## B

Bank Account Management (BAM), 15  
Bank account master, 339, 341  
Business Data Toolset (BDT), 131, 132  
Business functions, 7, 50, 51, 70, 77, 78  
Business Partner (BP), 73, 74  
    address screen, 111

    application log, 128  
    BDT, 131  
    code header, 112  
    company code, 126  
    create organization, 110  
    customer role, 112  
    display log, 129  
    field grouping, 134  
    finance role, 111  
    FLVN00, 125  
    FLVN01, 126  
    HR data, 123  
    InfoType communication, 123  
    maintain address, 122  
    master data, 135  
    organizational assignment, 120, 121  
    personal data, 119  
    print preview, 111  
    S/4HANA. BAPI, 130  
    sales area, 115  
    sales area data, 113  
    screen, 124  
    ship to customer, 113, 114  
    ship to sales area, 114  
    SH partner, 116  
    single employee, 126, 127  
    sold-to partner, 115  
    users, 129  
Business Rule Framework transaction (BRFPLUS), 131  
BW-Delta Extraction, 335

## C

Cash and Liquidity Management  
     functionality, [287–289](#)

Central check system, [35, 36, 47, 59](#)

Cloud computing  
     advantages, [23](#)  
     definition, [23](#)  
     services, [23](#)

CO business transactions  
     consistency check, [320](#)  
     controlling areas, [319](#)  
     cost-of-sales, [318](#)  
     default values, [316](#)  
     document types, [315](#)  
     offsetting account, [316](#)  
     source and target ledgers, [317, 318](#)

Conversion Cockpit, [289, 291–294](#)

Cost elements, [300, 345–347](#)

Credit management preparations,  
     conversion  
     FSCM-CR, [269](#)  
     SAP credit management, [269](#)  
     source system, [268](#)  
     SUM, [270–273](#)

Custom code analysis  
     ABAP programs, [32](#)  
     checks, [34](#)  
     definition, [47, 48](#)  
     tools

    code application, [47](#)  
     SCMON, [36, 37](#)  
     SLIN, [37–40](#)  
     system group, [41, 43–46](#)

Custom code migration, [33, 48, 50](#)

Customer/vendor integration (CVI), [74](#)

    BP  
         number ranges/groupings, [88, 92](#)  
         value mapping, [92, 93](#)

business functions, [78](#)

contact person  
     activate assignment, [93](#)  
     assign authority, [95](#)  
     assign department, [94](#)  
     assign function, [94](#)  
     VIP indicator, [95](#)

customizing settings  
     PPO, [82, 83](#)  
     Synchronization Options, [82, 83](#)

deletion flag, [77](#)

industries, [98](#)

Item Check Program, [76](#)

legal status, [97](#)

marital statuses, [96](#)

number assignments, [100, 101](#)

partner roles, [99](#)

payment cards, [97](#)

PPO, [103](#)

Precheck, [77](#)  
     MIGRATION\_PRECHK, [80](#)  
     suppression, [80, 81](#)

preparation phase, [77](#)  
     customer-related, [84, 85](#)  
     vendor-related, [86, 87](#)

qRFC Monitor, [107, 108](#)

SI checks, [75](#)

synchronization Cockpit, [105, 106](#)

synchronization objects, [104](#)

synchronization options, [104](#)  
     vendor value mapping, [101, 102](#)

## D

Database Migration Option (DMO), [61, 62](#)

Data migration, [299, 300, 343, 344](#)

    activities, [301](#)  
     assignments of ledger, [311](#)

CO version, 311, 312  
 currency settings, 307, 308  
 currency types, 310  
 customizing settings, 302, 303  
 document types, 312–314  
 fiscal year variants, 306  
 General Ledger customizing, 308  
 GL, 304, 306  
 IMG, 302  
 ledger, 309, 310  
 QAS/PRD, 309  
 SAP, 307  
 tasks, 301  
 Data Migration Monitor, 277, 289, 342,  
 343, 345  
 Deletion flag, 75, 77, 136

## E

ECC system, 138, 141, 142, 327  
 Error messages  
   CT\_OM, 212, 213  
   ECC system, 214–217  
   Module–Finance  
     FIN\_GL, 173–176  
     FIN\_MISC\_ML, 170  
     GENERIC\_CHECKS, 170–172  
     Sub ID FI\_AA\_ACCOUNT, 188  
     Sub ID FI\_AA\_COMPONENTS, 187  
     Sub ID FI\_AA\_CUST\_DEPRAREA,  
       183, 186  
     Sub ID FI\_AA\_CUST\_  
       DEPRCHART, 181  
     Sub ID FI\_AA\_CUST\_LEDGER, 177,  
       179, 180  
     Sub ID FI\_AA\_DEPRAREA\_  
       CURRENCY, 190  
     Sub ID FI\_AA\_FISCYEAR, 189

Module–HR, 191, 192  
 Module–material  
   management, 192–196  
 Module–PP  
   logistics, 196, 197  
   logistics PLM, 201, 202  
   master data PM, 197–201  
   masterdata\_PP-MRP, 203–208  
 Module SD, 208–211

## F, G

FCLM\_BAM\_MIGRATION\_REPORT  
   program, 351  
 FI-AR-CR-based credit management, 267  
 Field grouping, 133, 134  
 Field modifications, 132, 133  
 Finance Consultants, 26, 293  
 Financial Closing Cockpit  
   application, 18, 19

## H

HANA Enterprise Cloud (HEC), 3, 5  
 House bank accounts, 351–353  
 Hyperscaler data center, 2, 4, 5

## I, J, K

Inconsistency correction monitor  
   archiving flag, 154–160  
   BKPF inconsistent, 169  
   BSID, missing archiving flag, 168  
   BSIK, missing archiving flag, 166–168  
   BSIS/BSEG, 147–153  
   ECC system, 141  
   error message FIN\_FB\_  
     RECON7, 160–163



## INDEX

### Inconsistency correction monitor (*cont.*)

- information message, 142
- local currency, 164, 165
- readiness check notes, 143
- reconciliation run, 144–147
- reconciliation issues, 143
- SUM tools, 144

### Infrastructure as a service

- (IaaS), 4, 23

## L

### Lean Service Procurement, 18

### Line items, 149, 156, 350

## M, N, O

### Maintain Operating Concern, 335, 336

### Manual accruals functions, 325

### Mass Data framework, 303, 304

### Material Ledger (ML) preparation

- before SUM, 275
- data migration, 277
- OMX1 transaction code, 274
- preparation activities, 275, 276
- source ECC system, 274
- start/monitor data migration, 277, 279

### Migrate customizing settings,

#### Accrual Engine

- ACE, 323
- migration precheck, 321, 322

### Migrate Material Ledger Master Data,

#### 277, 348

### Migration of balances, 350, 351

### Migration precheck, 320, 321, 323

### ML data migration, 349

### Monitor GR/IR Account Reconciliation, 17

### Multi-tenant server, 1

## P, Q

### Platform-as-a-service (PaaS), 23

### Post-conversion activities, 356

### Post-migration activities, 71, 293, 357

### Post Processing Order (PPO), 82, 83, 103

### Pre-migration content, 325

### Preparation and Migration of Customizing

#### for AA, 326

#### Asset Accounting, 333, 334

#### change requests, 340

#### depreciation, 328, 329

#### GL, 332

#### house banks, 339

#### manual activities, 330

#### ML, 337, 338

#### number range, 340

### Preparation phase

#### ECC system, 138–141

#### SUM, 137

### Process Discovery Transformation tool, 7

### Profitability segment, 335, 336

## R

### Readiness Check, 6, 7, 25, 27, 29, 30, 50

### Revenue recognition preparation, 285, 287

## S

### SAP Cloud Platform (SCP), 3

### SAP Credit Management, 73, 211, 267, 289

### SAP ECC system conversion

#### conversion process, 49

#### custom code analysis, 59, 60

#### functional preparation, 50

#### maintenance planner, 51, 52

#### modifications, 65–69

#### namespace, 65

- preparation, 50
- project activities, 70, 71
- realization phase
  - software logic tools, 61, 62
  - software update manager, 60
- SI check, 52–58
- unicode conversion
  - approach, 62
  - consultants, 63
  - scan ABAP code, 64
  - SWPM, 64
- SAP Readiness Assessment, 48
- SAP Readiness Check, 7
  - check 2.0, 26–31
  - custom code analysis, 32–34
  - definition, 26
  - inconsistencies, 26
  - process discovery, 31
- SAP S/4HANA
  - advantages, 10
    - accrual engine, 17
    - asset accounting, 13
    - bank relationship management, 16
    - business partners, 16
    - cash management, 15
    - data model, 10
    - deployment options, 22
    - depreciation areas, 14, 15
    - depreciation screen, 19
    - FI-AR-CR function, 20
    - Financial Consolidation, 21
    - Fiori apps, 21
    - foreign trade, 20, 21
    - ledger/accounting principle
      - postings, 15
    - MRP engine, 18
    - new data model, 11
    - OLAP/OLTP, 18
    - planning table, 12
    - sales, 20
    - transfer prices, 16
  - components, 9
  - definition, 1, 8
  - deployment option, 5
  - Extended Edition, 3
  - on-premises, 4, 5
  - planning tools
    - Fiori apps, 7
    - Process Discovery
      - Transformation, 7
    - SAP Readiness Check, 7
  - Private Edition, 2, 3
  - public cloud solution, 1, 2
  - SAP ECC System, converting, 10
  - Simple Finance, 9
- SAP S/4HANA conversion, 363
- SAP S/4HANA system, 331
- SCMON transaction, 36
- SD Revenue Recognition, 21, 139, 141
- SI2
  - FIN\_AA
    - chart depreciation, 258–261, 263, 264
    - consistency check results, 232–235
    - correction action, 235–239, 241, 243
    - ledger approach, 249–252
    - SAP asset accounting migration,
      - 243, 244, 246–249
    - specify transfer, APC values, 252–254
    - technical clearing account, 254–258
- Simplification Item Check Report, 137,
  - 227, 229, 285
- Software-as-a-service (SaaS), 23
- Software Provisioning Manager (SWPM), 64
- Software Update Manager (SUM), 219, 291
  - ACDOCA, 297
  - administrator, 292

## INDEX

### Software Update Manager (SUM) (*cont.*)

- cockpit, [297](#)
  - data conversion, [295](#)
  - menu path, [295](#)
  - preparations and migration, [298](#)
  - role, [291](#)
  - SAP S/4HANA, [295](#)
  - SPAU, [293](#)
  - SPDD, [292](#)
  - SPRO, [296](#)
- Software Update Manager (SUM),  
[219](#), [280](#), [291](#)

## T, U, V, W, X, Y, Z

- Total cost of ownership (TCO), [1-3](#)
- Trade finance preparation
  - Foreign Trade (SD-FT)
    - functionality, [281](#)
    - pre-transition checks, [281-285](#)
- Transactional data, [331](#), [344](#), [348](#), [360](#)
- Transfer Application Indexes, [358](#)
  - balance carryforward, [359](#)
  - Display Status, [358](#)
  - FI documents, [358](#), [359](#)