Administration Guide | PUBLIC
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Administration Guide to Implementation of SAP S/4HANA 2022 with SAP Best Practices

THE BEST RUN SAP

Content

1 About This Guide

This guide describes the procedures for adapting SAP Best Practices solutions for SAP S/4HANA to the company's needs. It contains information about providing the system, implementation tools, and the solution content.

> **i Note**
>
> This guide is frequently updated as per customer/partner feedback. If you use the PDF version, we recommend you come back and download the PDF version when you actually need it in your implementation to get the latest information.

Strategies for implementing SAP solutions

For a new implementation of SAP S/4HANA, you can decide whether or not to use SAP Best Practices implementation content (pre-configured solution packages). The two strategies are described below.

Implementation strategy	Details	Implementation procedure
With SAP Best Practices content	• The SAP Best Practices content configures a client with automatic content activation. It contains only essential configuration settings for the selected scope. It is required if you want to use the integrated model company from SAP with running integrated processes provided by the SAP Best Practices content. • After the activation of the SAP Best Practices solution, you can either extend or create your own configuration in the implementation guide (transaction SPRO). The automatic content upgrade to the next release is not possible via Solution Builder.	The SAP Best Practices content is already included in your system. Check SAP Note 3199321 to see if a more recent content version is available for download, import the **local** solution and installation data files to the SAP Best Practices Solution Builder and then activate the content.
Without SAP Best Practices content	• Customizing activities are carried out in transaction SPRO. • Your solutions are not compatible with future SAP Best Practices content.	Customizing projects based on implementation guide (transaction SPRO) Further details about this implementation procedure are not covered in this guide.

1.1 Transaction List

The following table lists the transactions referenced in this guide (excluding transactions that may be referred to in external documentation).

Transaction Code	Description
/IWFND/ MAINT_SERVICE	*Activate and Maintain Services*
/nOAC0	*Display Content Repositories: Overview*
/nOACT	*Change View "Maintain Categories": Overview*
BRF+	*Business Rule Framework plus*
PFCG	*Role Maintenance*
PFTC_CHG	*Task: Maintain*
RZ10	*Display Profiles*
RZ11	*Maintain Profile Parameters*
SA38	*ABAP: Program Execution*
SCC1	*Client Copy*
SCC3	*Client Tools Log Analysis*
SCC4	*Display View "Clients": Overview*
SCCL	*Client Copy - Copy Client*
SCCLN	*Local Client Copy*
SCPR20	*Business Configuration Sets: Activation*
SE16	*Data Browser: Initial Screen*
SM34	*View Cluster Editing: Initial Screen*
SE38	*ABAP Editor: Initial Screen*
SFW5	*Switch Framework*
SICF	*Maintain Services*
SKPR08	*Change View "Categories for Physical Document Classes": Overview*
SJOBREPO	*Technical Job Repository*

Transaction Code	Description
SM59	*Configuration of RFC Connections*
SMICM	*ICM Monitor*
SMLT	*Language Management*
SNOTE	*SAP Note Assistant*
SPRO	*Reference IMG*
SR13	*Change View "Administration: Display of the SAP Library"*
SSFA	*Change View "Application-Specific SSF Parameters": Overview*
STC01	*Task Manager for Technical Configuration*
STRUST	*Trust Manager*
SU01	*User Maintenance*
SU53	*Display Authorization Data*
SWU3	*Automatic Workflow Customizing*
SXMB_ADM	*Integration Engine: Administration*
SXMSIF	*Display View "Sender/Receiver Definition": Overview*
/N/SMB/BBI	*Solution Builder*
/N/SMB/SCOPE	*Display View "Customer Solution": Overview*
/N/SMB/CONFIG_GUIDE_UI	*Generated Configuration Information*

2 Prerequisite Settings

This section describes the prerequisite settings for providing content.

> **i** Note
>
> If you are using SAP GUI 7.50, carry out the following procedure (the MM01 eCATT currently fails with the default theme):
>
> 1. In the SAP GUI 7.50 Logon, expand *Visual Design* and choose *Theme Preview/Settings*.
> 2. The *Blue Crystal Theme* appears by default in the *Theme* drop-down box. To proceed with this theme, continue with step 3. To choose any other theme, skip step 3 and continue with step 4.
> 3. Deselect *Accept SAP_Fiori visual theme*.
> 4. Choose *OK*.
>
> When the SAP Best Practices activation is completed, you can activate the SAP Fiori visual theme again.

Carry out the settings described in the following subsections:

- Required Enterprise Business Functions [page 7]
- Setting Up a New Best Practices Client - Client Setup Alternatives [page 12]
- Carrying Out Technical Setup [page 19]
- Carrying Out Settings for Implementation [page 41]

2.1 Required Enterprise Business Functions

Functionality in this solution package requires certain business functions to be active in the SAP landscape. If you decide to select the mentioned scope items to be included in your solution, you need to activate these business functions. Otherwise, you have to deselect the scope items when you define the solution scope.

After installing SAP S/4HANA ON-PREMISE, **but before activating** the SAP Best Practices for SAP S/4HANA (on premise) package, activate the following SAP Business Functions depending on your scoping decision.

> **⚠** Caution
>
> - The activation of Enterprise Extensions, Business Functions, and Business Function Sets changes your system and cannot be rolled back. For more information about the impact, check the documentation of the related extension or business function.
> - Activate all Business Functions as outlined in the table below **before you create the client** in which the SAP Best Practices for SAP S/4HANA solution shall be activated.
> - **Do not activate** additional Enterprise Extensions or Business Functions (in addition to the required BF mentioned for SAP BP deployment) before content activation. This can result in errors during activation of SAP Best Practices content. Additional Business Functions can be activated anytime after content activation, but this requires regression testing of the business processes as it is usually part of any system maintenance activities.

Product	Business Function	Configuration or Data required	Relevance
S4CORE	FIN_FSCM_CLM		Required for scope items J77, J78, 2O0, 4X8, and 3L5 (building blocks BFD, BFE, BFF, 40X, and 3TF) / all FPs **i Note** Requires an additional license.
S4CORE	FIN_FSCM_BNK		Required for scope item J78 (building blocks J83, BF4) / all FPs **i Note** Requires an additional license.
S4CORE	GLO_DRC If you have acquired former licenses for SAP Document Compliance or SAP solutions for advanced compliance reporting, or if you have additional requirements specifically for Brazil or China, please check Activation Requirements for Features in SAP Document and Reporting Compliance on the SAP Help Portal.		Required for scope item 5XU (building block 5YO) / all FPs **i Note** Requires an additional license.
S4CORE	LOG_EAM_CI_8		Required for scope items 3XK, 41W, 41Z,426, 4Q5, 6AU, 6F1, BH1, BH2 and BJ2 (building blocks BFI, BFJ, BFM and BFN), and for scope items 4HH and 4HI
S4CORE	LOG_EAM_SIMPLICITY		Required for scope items 3XK, 41W, 41Z,426, 4Q5, 6AU, 6F1, BH1, BH2 and BJ2 (building blocks BFI, BFJ, BFM and BFN), and for scope items 4HH and 4HI
S4CORE	LOG_EAM_SIMPLICITY_2		Required for scope items 3XK, 41W, 41Z,426, 4Q5, 6AU, 6F1, BH1, BH2 and BJ2 (building blocks BFI, BFJ, BFM and BFN), and for scope items 4HH and 4HI
S4CORE	LOG_EAM_SIMPLICITY_3		Required for scope items 3XK, 41W, 41Z,426, 4Q5, 6AU, 6F1, BH1, BH2 and BJ2 (building blocks BFI, BFJ, BFM and BFN), and for scope items 4HH and 4HI

Product	Business Function	Configuration or Data required	Relevance
S4CORE	LOG_EAM_SIMPLICITY_4		Required for scope items 3XK, 41W, 41Z,426, 4Q5, 6AU, 6F1, BH1, BH2 and BJ2 (building blocks BFI, BFJ, BFM and BFN), and for scope items 4HH and 4HI
S4CORE	LOG_EAM_SIMPLICITY_5		Required for scope items 3XK, 41W, 41Z,426, 4Q5, 6AU, 6F1, BH1, BH2 and BJ2 (building blocks BFI, BFJ, BFM and BFN), and for scope items 4HH and 4HI
S4CORE	LOG_EAM_SIMPLICITY_6		Required for scope items 3XK, 41W, 41Z,426, 4Q5, 6AU, 6F1, BH1, BH2 and BJ2 (building blocks BFI, BFJ, BFM and BFN), and for scope items 4HH and 4HI
S4CORE	LOG_EAM_SIMPLICITY_7		Required for scope items 3XK, 41W, 41Z,426, 4Q5, 6AU, 6F1, BH1, BH2 and BJ2 (building blocks BFI, BFJ, BFM and BFN), and for scope items 4HH and 4HI
S4CORE	LOG_EAM_SIMPLICITY_8		Required for scope items 3XK, 41W, 41Z,426, 4Q5, 6AU, 6F1, BH1, BH2 and BJ2 (building blocks BFI, BFJ, BFM and BFN), and for scope items 4HH and 4HI
S4CORE	LOG_EAM_SIMPLICITY_9		Required for scope items 4X5, BJ2, 4HI
S4CORE	LOG_EAM_SIMPLICITY_10		Required for scope items 4X5, BJ2, 4HI
S4CORE	LOG_EAM_SIMPLICITY_11		Required for scope items 4X5, BJ2, 4HI
S4CORE	LOG_EAM_SIMPLICITY_12		Required for scope items 4X5, BJ2, 4HI
S4CORE	LOG_EAM_IME_1		Required for scope items 4HH, 4HI
S4CORE	LOG_MMFI_P2P		Required for the integration of Materials Management and Financial Accounting; purchase order-related down payments in logistic invoice verification

Product	Business Function	Configuration or Data required	Relevance
S4CORE	FICAC_CI		Required for scope items 2BG, 2BE, 2T3, 3DX, 2KF, 42L, 2AR, 2BI, 2BK, 2DP, 2KH, 2SJ, 2UJ, 33X, 43Y, 3L3, 57Z, and 5IK **i Note** If you activate this business function, an additional license is required when you use the full scope of Convergent Invoicing. If you only activate scope item Subscription Management with Sales Billing (57Z), no license is required.
S4CORE	FICAC_CORE		Required for scope items 2BG, 2BE, 2T3, 3DX, 2KF, 42L, 2AR, 2BI, 2BK, 2DP, 2KH, 2SJ, 2UJ, 33X, 43Y, 3L3, 57Z, and 5IK **i Note** If you activate this business function, an additional license is required when you use the full scope of Convergent Invoicing. If you only activate scope item Subscription Management with Sales Billing (57Z), no license is required.

Product	Business Function	Configuration or Data required	Relevance
S4CORE	FINS_PARALLEL_ACCOUNTING_BF		Required for scope items 6DF, 3F0, 5W2, 6DR, 6DS, 6DT, 6DU, 6EB, 6EC, 6ED, 6EE, 6EF, 6EG Features for Universal Parallel Accounting (UPA): • Can only be activated by **pilot greenfield customers selected by SAP** • Are available for scope items from the following countries only: Germany, USA, Japan, France, Romania • We strongly recommend to **activate UPA only in a Best Practices client**. Note that an activation of UPA in a merged client with client 000 customizing would require significant additional clean-up activities and is therefore not recommended. ⚠ Caution For details about the main features of this business function and its main restrictions, refer to the following central SAP Note 3191636. ⚠ Caution The activation of this business function has major implications for multiple business processes. Once the business function has been activated, it cannot be deactivated. You must therefore be aware of the consequences, and plan and prepare for this activation before the activation of SAP Best Practices.

Activating Enterprise Business Functions

Prerequisites

You are authorized to make changes in transaction `SFW5` (*Switch Framework*).

Procedure

1. Start transaction `SFW5`.
2. On the *Switch Framework: Change Business Function Status* screen, select each of the entries listed above (by selecting the *Planned Status* column).
3. Choose the *Activate Changes* button.
4. The system displays an informational dialog box. Choose *Continue*.
5. Choose *Back*.

2.2 Setting Up a New Best Practices Client - Client Setup Alternatives

This chapter describes the three alternatives for setting up a Best Practices Client.

When you implement SAP S/4HANA, you have to create a new so-called Best Practices client (BP client). The BP client setup is the prerequisite for successfully activating and deploying the SAP Best Practices content.

Alternative	Name	BP Content	Client 000 Content	Initial Configuration Effort in Areas Covered by BP	Initial Configuration Effort in Areas Not Covered by BP
1	Best Practices client (BP Client)	Yes	No	Lower	Higher - 2
2	Merged client (with all client 000 reference settings and BP content)	Yes	Yes	Lower	Lower
3 (Not an option for Best Practices content activation)	Classic client (existing configuration)	No	Yes	Higher - 1	Lower

1: In a BP client, the configuration tables that aren't covered by the Best Practices content are empty. In this case, it requires more effort to fill in the configuration. In addition, even for experienced consultants, this unused scenario can cause project delays.

2: Best Practices content is a ready-to-run model company with documented processes. The effort to make a ready-to-run configuration from the client 000 content (shipment configuration) is considerably higher.

To make the correct choice for the tenant setup, consider the following:

- **If your scope is large and isn't covered by Best Practices content:** choose a merged client
- **If the Best Practices content covers all or nearly all of your requirements (based on a review of the delivered process flows)**: choose a Best Practices client

- **If you use configuration from another template or existing system:** choose a classic client

> **i** Note
>
> Once you make your choice, you can't change the strategy during the setup. If your requirements change, you must start the setup again.

> **⚠** Caution
>
> In the classic client, you can't activate Best Practices. It creates its own enterprise structure and other configuration that overwrites existing business processes in some cases.

Related Information

Alternative 1: Setting Up a Best Practices Client [page 13]
Alternative 2 - Setting Up a Merged Client (All Client 000 Reference Settings) [page 15]
Guidance on Copying Missing Client 000 Settings in a Best Practices Client [page 14]
Handling Language Imports [page 17]

2.2.1 Alternative 1: Setting Up a Best Practices Client

Prerequisites

You've configured the table `/FTI/T_NOCLN000` so that the new client you create contains only specified configuration data and not the complete configuration data from client 000. Table `/FTI/T_NOCLN000` (client-independent) contains a list of clients that should be created as Best Practices client. The client copy program only recognizes clients that are listed in this table as Best Practices clients. Otherwise, the client is created with the complete configuration data from client 000.

> **→** Tip
>
> If you need client 000 settings during implementation, try the steps described in Guidance on Copying Missing Client 000 Settings in a Best Practices Client [page 14]. This process, however, has its own limitations.

Procedure

1. Check if the new Best Practices client is registered in the table `/FTI/T_NOCLN000`. If it hasn't been registered, add a new record with the target client number.

2. Define a new Best Practices client using transaction SCC4.

   In *New Entries: Details of Added Entries*, set the properties of the new Best Practices client as indicated in the following table:

Property	Value
Client role	**Customizing**
Changes and Transports for Client-Specific Objects	**Automatic recording of changes**
Cross-Client Object Changes	**Changes to repository and cross-client customizing allowed**
Client Copy and Comparison Tool Protection	**Protection level 0: No restriction**
CATT and eCATT restrictions	**eCATT and CATT allowed**

3. Create YOUR_INSTALLATION_USER as a technical user by copying user DDIC in client 000.
4. Run the client copy in client 000 by starting transaction SCCLN. In the client copy program, you can use the copy profile SAP_U000. This copy profile copies only tables from client 000 that are referenced in the include list. (Table /FTI/TWHITEL01 contains a list of tables that the system copies from client 000.) We recommend setting it up as a background job to avoid timeouts. You can monitor the progress with transaction SCC3.
5. Log on to the target client using YOUR_INSTALLATION_USER and activate the SAP Best Practices content.
6. For security reasons, after you have completed the content activation, please deactivate YOUR_INSTALLATION_USER.

Related Information

Guidance on Copying Missing Client 000 Settings in a Best Practices Client [page 14]

2.2.1.1 Guidance on Copying Missing Client 000 Settings in a Best Practices Client

General Guidance on Copying Client 000 Settings

- Enter the required configuration settings using the IMG (transaction SPRO).
- Use the adjustment functionality (in the maintenance UI of the IMG activity, go to *Utilities* > *Adjustment*) to select and copy table entries from client 000 to your actual client.

- In exceptional cases, manual entry on the UI in the IMG isn't possible (the case for a small number of G-tables and for none of the C-tables). In such a case, use report `/FTI/JF24` to copy G-table entries of complete application components from client 000 to the actual client. The `/FTI/JF24` report is **not** a mass copy tool. It only copies the G-table entries of an application component and not the C-table content. The report is generic and doesn't ensure any relational consistency or checks. Manual entry in the IMG UI or using the adjustment functionality considers the checks.
- In the case that
  - you need all table entries for an IMG activity,
  - there are too many tables for manual entry,
  - the IMG activity doesn't offer the adjustment functionality,

  you can use report `/FTI/JF24` and copy all the data of one IMG activity as required. In this case, C-table entries are also copied, but relational consistency and checks aren't considered, as the report is generic.
- In some cases, the system displays an error message stating that table entries of a customizing table are missing if you use the usual application UIs. If you don't know where to enter the entries in IMG, use report `/FTI/JF01` and enter the table as a parameter to determine which IMG activities exist. Navigate directly to the IMG UI by clicking the IMG activity ID on the result list.

Detailed Information for Using Report `/FTI/JF24`

- If you execute the report in *Simulation* mode, the report is read-only and is therefore safe.
- If you select *Write only if table is empty*, the report copies only the entries from client 000 into the actual client for those tables that are empty in the actual client.
- If you select *Insert new lines*, the report copies entries from client 000 for all tables that have a different number of entries in client 000 than in the actual client. It inserts entries, meaning existing table lines aren't changed (even if they have different content in client 000 than in the actual client).
- If you run the report without simulation mode, you must enter an open task in a customizing transport. (You must be the owner of this task.) You can't run the report `/FTI/JF24` on a productive client, so you must transport the changes. Create the task in advance in transaction `SE09`. The keys of the copied table lines are listed in the task. You can use the customizing transport to transport the changes to the clients in other systems.

2.2.2 Alternative 2 - Setting Up a Merged Client (All Client 000 Reference Settings)

Prerequisites

Check table `/FTI/T_NOCLN000` and make sure that the client number doesn't exist in the table.

> ⚠ Caution
>
> The table is client independent.

> ℹ Note
>
> If you choose the merged client alternative, additional activation errors occur because the client 000 settings already exist and the Best Practices activation tries to populate the same configuration. For guidance, see SAP Note 3228633 (*Implementation of SAP S/4HANA SAP Best Practices 2022 (Private Cloud and On-Premise) - Activation in a Merged Client*). All business processes aren't tested in a merged client and you may raise an incident if you get any process errors.

> ⚠ Caution
>
> **Review Conversion Factors (table TCURF)**
>
> In a merged client, the client 000 settings in table TCURF will not be overwritten by SAP Best Practices content. During the activation, additional settings will be created instead. You will therefore have two type "M" entries (Standard translation at average rate) for several currency pairs. Technically, this is caused by the validity date (the more recent settings take effect). The client 000 settings do not get overwritten because their validaty date is after (and therefore more recent than) the validity date of the Best Practices content.
>
> Note that the settings in field *Alternative Exchange Rate Type* (ABWCT) originate from client 000 only. If you decide that you do not want to use these settings, you have to manually adjust the currency translation ratios and create entries with a validity date that is later than 01.01.1800.

Procedure

1. Define a new Best Practices client using transaction SCC4.

   In *New Entries: Details of Added Entries*, set the properties of the merged client as indicated in the following table:

Property	Value
Client role	**Customizing**
Changes and Transports for Client-Specific Objects	**Automatic recording of changes**
Cross-Client Object Changes	**Changes to repository and cross-client customizing allowed**
Client Copy and Comparison Tool Protection	**Protection level 0: No restriction**
CATT and eCATT restrictions	**eCATT and CATT allowed**

2. Create `YOUR_INSTALLATION_USER` as a technical user by copying user `DDIC` in client 000.
3. Run the client copy in client 000 by starting transaction `SCCLN`. In the client copy program, you can use the copy profiles `SAP_UCUS`, `SAP_CUST`, `SAP_CUSV`, or `SAP_UCSV`. We recommend setting it up as a background job to avoid timeouts. You can monitor the progress with transaction `SCC3`.
4. Log on to the target client using `YOUR_INSTALLATION_USER` and activate the SAP Best Practices content.
5. For security reasons, after you have completed the content activation, please deactivate `YOUR_INSTALLATION_USER`.

2.2.3 Handling Language Imports

In a language import, translations from SAP for sample data or default values are imported without overwriting the Customizing data in a customer client.

The import of the required languages must be complete before you copy customer tables from client 000 to the new client. This sequence ensures that the customer tables from the client 000 include list contain the latest translations when they're copied. All other translations related to customer tables are provided by the SAP Best Practices content (available in 38 languages). Depending on the selected business scope, these translations are available after content activation.

> **i Note**
>
> SAP Best Practices Solution Builder automatically identifies your installed languages and imports only the relevant translations during the import of installation data.

> **⚠ Caution**
>
> To avoid errors during content activation, **don't use** report `RSREFILL` or *Client maintenance* in transaction `SMLT` to update translations from customer tables in client 000 in your target client. Otherwise, the target client contains too many table entries that are unrelated to your business scope and potentially interfere with the activation logic.

> **i Note**
>
> Adding further language translations after the solution has been activated isn't supported. For this reason, identify and install all required languages you may also need in the future. Refer to this blog post for information on how to import languages efficiently.

AR	Arabic	HI	Hindi	PT	Portuguese
BG	Bulgarian	HR	Croatian	RO	Romanian
CA	Catalan	HU	Hungarian	RU	Russian
CS	Czech	IT	Italian	SH	Serbo-Croatian
DA	Danish	JA	Japanese	SK	Slovak

DE	German	KK	Kazakh	SL	Slovenian
EL	Greek	KO	Korean	SV	Swedish
EN	English	LT	Lithuanian	TH	Thai
ES	Spanish	LV	Latvian	TR	Turkish
ET	Estonian	MS	Malay	UK	Ukrainian
FI	Finnish	NL	Dutch	VI	Vietnamese
FR	French	NO	Norwegian	ZF	Chinese trad.
HE	Hebrew	PL	Polish	ZH	Chinese

To avoid errors, make sure that the installed languages in transaction `SMLT`, the logon languages classified in the NLS installation tool, and the enabled languages in the instance profile are the same.

- Classify logon languages in transaction `SMLT`: *Goto* > *Other Tools* > *NLS installation tool*
- Check languages in instance profile: start transaction `RZ11` and display the value for parameter `zcsa/installed_languages`.

More information

General information about language imports

When setting up the best-practice client, consider the client currency setting: Editing Client Currency Setting [page 18]

2.2.4 Editing Client Currency Setting

Context

The client currency setting is created during content activation. Make sure that the client currency has not been maintained before the content activation.

> ⚠ Caution
>
> After your solution has been activated and the standard currency has been set, you cannot change this setting.

Procedure

1. Start transaction **SCC4**.
2. Select your activation client.

   Choose *Display*. Ensure that there is **no entry** for **standard currency**.

2.3 Carrying Out Technical Setup

Complete the following activities before you start with the activation of SAP Best Practices content. Carry out each step and follow the instructions in the linked topics or external documentation.

Step	Step Description	More Information
1	For content activation, ensure that you have installed the appropriate SAP front-end components	In the SAP Software Download Center (https://support.sap.com/swdc), choose *Support Packages and Patches* > *Browse our Download Catalog* > *SAP Frontend Components*. Select the SAP front-end components depending on your requirements.
2	Apply SAP notes and check latest information	See subsection SAP Notes and Messages [page 22]
3	Execute basic SAP Fiori configuration	With SAP S/4HANA, all new functions, features, and innovations are accessible in the SAP Fiori launchpad. Using the launchpad, you can call up all apps for which you have been granted access. These can be SAP Fiori apps, as well as apps based on Web Dynpro and SAP GUI for HTML technology. To carry out the basic SAP Fiori configuration, apply the settings as described in the SAP S/4HANA product assistance: under *Discover* > *Product Assistance* > *Enterprise Technology* > *SAP Fiori* > *SAP Fiori Overview*. *SAP Fiori Overview* explains how to set up a front end server including the SAP Fiori launchpad, and how to implement the individual apps. The target audience for the guide is system administrators and technical consultants. **i Note** See section Exporting Metadata Lists for Fiori UI Add-Ons and OData Services [page 21] for getting the technical data for the required UI add-ons for SAP Best Practices for SAP S/4HANA.

Step	Step Description	More Information
4	Tax calculation for US sales and purchases	The US solution for SAP S/4HANA 2022 (BP_OP_ENTPR_S4HANA2021_USV8.XML) is delivered with internal tax calculation. It includes sample jurisdiction codes and sample rates so that you can execute the SAP Best Practices test scripts out of the box. For productive purposes, replace the sample jurisdiction codes and rates with your own user defined jurisdiction codes and actual tax rates. If you use an external tax provider, configure the required settings.
5	Configure system to connect to the System Landscape Directory of SAP NetWeaver (SLD)	For more information, see the SAP Help Portal: Configuring, Working with and Administering System Landscape Directory
6	Create basic settings in the SAP S/4HANA back end system	Create settings as described in the following sections: Deselecting Activation Links in BC Sets [page 30] Configuring Proxy Settings [page 31]
7	Create basic settings for using SAP Fiori Launchpad (back end system) [page 32]	Create additional settings as described in the following subsections: Assigning Business Roles to a User [page 34] Creating Back End Authorization Roles [page 35]
8	Set up SAP S/4HANA attachment services (back end system)	Create settings as described in the following sections: Maintaining Settings for Storage Systems [page 36] Maintaining SICF Node [page 38] Maintaining Categories for SOMU and DMS_C1_ST [page 38] Activating Storage Repository [page 39] Maintaining Standard Category for SOFFDB [page 39] Adjusting the Customizing in Table TSOPE [page 40]
9	Set up SAP S/4HANA attachment services (front-end system) [page 40]	
10	Set up e-mail exchange between the SAP system and SMTP mail server	For more information, see the SAP Help Portal: SMTP Configuration Guide

2.3.1 Exporting Metadata Lists for Fiori UI Add-Ons and OData Services

Context

The required metadata to implement SAP Fiori apps can be exported from the SAP Fiori apps reference library. The SAP Best Practices for SAP S/4HANA package currently uses the following three UI add-ons:

- UI for S4CORE (UIS4HOP1)
- UI for Basis Applications (UIBAS001)
- UI for SFIN (UIAPFI70)

This section describes how to export the metadata required to activate all apps of this software component version.

> ⚠ Caution
>
> Check the Software and delivery requirements to get information on the latest component versions.

Procedure

1. The SAP Fiori apps reference library provides key information for each app. Access the SAP Fiori apps reference library using the following link: http://www.sap.com/fiori-apps-library
2. In the *Categories* section, choose *All apps for SAP S/4HANA*.
3. Choose *by Back-End Product*.
4. Choose the filter icon.
5. In the *Select Filters* dialog, scroll down and choose *Front-end Software Component Version*.
6. Search and select the following software component versions from the list:
   - *UIS4HOP1 600*
   - *UIBAS001 600*
   - *UIAPFI70 800*
7. Choose *OK*.
8. Choose the result list *SAP S/4HANA*.
9. Choose *Select all*.

   > ℹ Note
   >
   > This might lead to the SAP Fiori apps reference library becoming slow.
10. Choose *Aggregate* at the bottom of the list.
11. Make sure that the following is selected in the dropdown of the *Aggregated Implementation Information* screen:

- *SAP S/4HANA*
- the appropriate service pack level

12. Expand *Aggregated Configuration Requirements*.
13. Choose the *Export list* button for the following objects:
    - *ICF Nodes for SAPUI5 Applications*
    - *OData Services*
    - *ICF Nodes for WebDynpro Applications.*
14. To download the lists, choose the *Export list* button for the three above mentioned objects and store these files for later use. The three files can be used as input for the mass activation via task lists as described in the SAP S/4HANA product assistance: `<Your on-premise edition>` under *Discover* > *Product Assistance* > *Enterprise Technology* > *SAP Fiori* > *SAP Fiori Overview* .

2.3.2 SAP Notes and Messages

SAP Notes address issues that occur after shipment of this SAP Best Practices content (and hence of this document).

> ⚠ Caution
>
> Before you activate the related SAP Best Practices scope, check the latest version of the following SAP Notes to obtain updates and corrections for problems that do not become apparent until after shipment. Choose the country/region-specific SAP Notes for the relevant countries/regions you want to implement. All applied SAP Notes must have the implementation status *Completely implemented*. Some SAP Notes require manual action before you set their status to **completely implemented**.
>
> The following SAP Notes apply to specific countries/regions:

SAP Note No	Content	Comments	Relevance
3199356	SAP Best Practices for SAP S/4HANA (on-premise/private cloud) (Germany) (DEV9)	Information on the activation of SAP Best Practices for SAP S/4HANA (on-premise/private cloud) for Germany	All Scope Items / all FPSs
3199383	SAP Best Practices for S/4HANA (on-premise/private cloud) (U.S.A) (USV9)	Information on the activation of SAP Best Practices for SAP S/4HANA (on-premise/private cloud) for U.S.A	All Scope Items / all FPSs
3206776	SAP Best Practices for SAP S/4HANA (on premise/private cloud) (United Arab Emirates) (AEV9)	Information on the activation of SAP Best Practices for SAP S/4HANA (on-premise/private cloud) for United Arab Emirates	All Scope Items / all FPSs

SAP Note No	Content	Comments	Relevance
3207995	SAP Best Practices for SAP S/4HANA (on premise/private cloud) (Austria) (ATV9)	Information on the activation of SAP Best Practices for SAP S/4HANA (on-premise/private cloud) for Austria	All Scope Items / all FPSs
3206263	SAP Best Practices for SAP S/4HANA (on-premise/private cloud) (Australia) (AUV9)	Information on the activation of SAP Best Practices for SAP S/4HANA (on-premise/private cloud) for Australia	All Scope Items / all FPSs
3206339	SAP Best Practices for SAP S/4HANA (on-premise/private cloud) (Belgium) (BEV9)	Information on the activation of SAP Best Practices for SAP S/4HANA (on-premise/private cloud) for Belgium	All Scope Items / all FPSs
3200974	Information on the installation of SAP Best Practices for S/4HANA (on-premise/private cloud) (Brazil) (BRV9)	Information on the activation of SAP Best Practices for SAP S/4HANA (on-premise/private cloud) for Brazil	All Scope Items / all FPSs
3201024	SAP Best Practices for S/4HANA (on premise/private cloud) (Canada) (CAV9)	Information on the activation of SAP Best Practices for SAP S/4HANA (on-premise/private cloud) for Canada	All Scope Items / all FPSs
3208035	SAP Best Practices for SAP S/4HANA (on premise/private cloud) (Switzerland) (CHV9)	Information on the activation of SAP Best Practices for SAP S/4HANA (on-premise/private cloud) for Switzerland	All Scope Items / all FPSs
3205378	SAP Best Practices for SAP S/4HANA (on-premise/private cloud) (China) (CNV9)	Information on the activation of SAP Best Practices for SAP S/4HANA (on-premise/private cloud) for China	All Scope Items / all FPSs
3206362	SAP Best Practices for SAP S/4HANA (on premise/private cloud) (Czech Republic) (CZV9)	Information on the activation of SAP Best Practices for SAP S/4HANA (on-premise/private cloud) for Czech Republic	All Scope Items / all FPSs

SAP Note No	Content	Comments	Relevance
3200991	Information on the installation of SAP Best Practices for S/4HANA (on premise/private cloud) (Denmark) (DKV9)	Information on the activation of SAP Best Practices for SAP S/4HANA (on-premise/private cloud) for Denmark	All Scope Items / all FPSs
3200996	Information on the installation of SAP Best Practices for S/4HANA (on premise/private cloud) (Spain) (ESV9)	Information on the activation of SAP Best Practices for SAP S/4HANA (on-premise/private cloud) for Spain	All Scope Items / all FPSs
3200950	Information on the installation of SAP Best Practices for S/4HANA (on premise/private cloud) (Finland) (FIV9)	Information on the activation of SAP Best Practices for SAP S/4HANA (on-premise/private cloud) for Finland	All Scope Items / all FPSs
3203491	SAP Best Practices for SAP S/4HANA (on-premise/private cloud) (France) (FRV9)	Information on the activation of SAP Best Practices for SAP S/4HANA (on-premise/private cloud) for France	All Scope Items / all FPSs
3206823	SAP Best Practices for SAP S/4HANA (on premise/private cloud) (Great Britain) (GBV9)	Information on the activation of SAP Best Practices for SAP S/4HANA (on-premise/private cloud) for Great Britain	All Scope Items / all FPSs
3206439	SAP Best Practices for SAP S/4HANA (on-premise/private cloud) (Hong Kong) (HKV9)	Information on the activation of SAP Best Practices for SAP S/4HANA (on-premise/private cloud) for Hong Kong	All Scope Items / all FPSs
3201088	SAP Best Practices for SAP S/4HANA (on-premise/private cloud) (Hungary) (HUV9)	Information on the activation of SAP Best Practices for SAP S/4HANA (on-premise/private cloud) for Hungary	All Scope Items / all FPSs
3204925	SAP Best Practices for SAP S/4HANA (on premise/private cloud) (Indonesia) (IDV9)	Information on the activation of SAP Best Practices for SAP S/4HANA (on-premise/private cloud) for Indonesia	All Scope Items / all FPSs

SAP Note No	Content	Comments	Relevance
3203732	SAP Best Practices for SAP S/4HANA (on-premise/private cloud) (Ireland) (IEV9)	Information on the activation of SAP Best Practices for SAP S/4HANA (on-premise/private cloud) for Ireland	All Scope Items / all FPSs
3206824	SAP Best Practices for SAP S/4HANA (on premise) (India) (INV9)	Information on the activation of SAP Best Practices for SAP S/4HANA (on-premise/private cloud) for India	All Scope Items / all FPSs
3200994	Information on the installation of SAP Best Practices for S/4HANA (on premise/private cloud) (Italy) (ITV9)	Information on the activation of SAP Best Practices for SAP S/4HANA (on-premise/private cloud) for Italy	All Scope Items / all FPSs
3206804	SAP Best Practices for SAP S/4HANA (on-premise/private cloud) (Japan) (JPV9)	Information on the activation of SAP Best Practices for SAP S/4HANA (on-premise/private cloud) for Japan	All Scope Items / all FPSs
3206799	SAP Best Practices for SAP S/4HANA (on-premise/private cloud) (South Korea) (KRV9)	Information on the activation of SAP Best Practices for SAP S/4HANA (on-premise/private cloud) for South Korea	All Scope Items / all FPSs
3206329	SAP Best Practices for SAP S/4HANA (on-premise/private cloud) (Luxembourg) (LUV9)	Information on the activation of SAP Best Practices for SAP S/4HANA (on-premise/private cloud) for Luxembourg	All Scope Items / all FPSs
3201007	SAP Best Practices for SAP S/4HANA (on-premise/private cloud) (Mexico) (MXV9)	Information on the activation of SAP Best Practices for SAP S/4HANA (on-premise/private cloud) for Mexico	All Scope Items / all FPSs
3206366	SAP Best Practices for SAP S/4HANA (on premise) (Malaysia) (MYV9)	Information on the activation of SAP Best Practices for SAP S/4HANA (on-premise/private cloud) for Malaysia	All Scope Items / all FPSs

SAP Note No	Content	Comments	Relevance
3205394	SAP Best Practices for SAP S/4HANA (on premise) (The Netherlands) (NLV9)	Information on the activation of SAP Best Practices for SAP S/4HANA (on-premise/private cloud) for Netherlands	All Scope Items / all FPSs
3207397	SAP Best Practices for SAP S/4HANA (on premise/private cloud) (Norway) (NOV9)	Information on the activation of SAP Best Practices for SAP S/4HANA (on-premise/private cloud) for Norway	All Scope Items / all FPSs
3204875	SAP Best Practices for SAP S/4HANA (on-premise/private cloud) (New Zealand) (NZV9)	Information on the activation of SAP Best Practices for SAP S/4HANA (on-premise/private cloud) for New Zealand	All Scope Items / all FPSs
3202750	SAP Best Practices for SAP S/4HANA (on premise/private cloud) (Philippines) (PHV9)	Information on the activation of SAP Best Practices for SAP S/4HANA (on-premise/private cloud) for Philippines	All Scope Items / all FPSs
3236474	SAP Best Practices for SAP S/4HANA (on premise) (Poland) (PLV9)	Information on the activation of SAP Best Practices for SAP S/4HANA (on-premise/private cloud) for Poland	All Scope Items / all FPSs
3204438	SAP Best Practices for SAP S/4HANA (on-premise/private cloud) (Portugal) (PTV9)	Information on the activation of SAP Best Practices for SAP S/4HANA (on-premise/private cloud) for Portugal	All Scope Items / all FPSs
3200706	SAP Best Practices for SAP S/4HANA (on premise/private Cloud) (Romania) (ROV9)	Information on the activation of SAP Best Practices for SAP S/4HANA (on-premise/private cloud) for Romania	All Scope Items / all FPSs
3206355	SAP Best Practices for SAP S/4HANA (on-premise/private cloud) (Russia) (RUV9)	Information on the activation of SAP Best Practices for SAP S/4HANA (on-premise/private cloud) for Russia	All Scope Items / all FPSs

SAP Note No	Content	Comments	Relevance
3206452	SAP Best Practices for SAP S/4HANA (on-premise/private cloud) (Saudi Arabia) (SAV9)	Information on the activation of SAP Best Practices for SAP S/4HANA (on-premise/private cloud) for Saudi Arabia	All Scope Items / all FPSs
3207329	SAP Best Practices for SAP S/4HANA (on premise/private cloud) (Sweden) (SEV9)	Information on the activation of SAP Best Practices for SAP S/4HANA (on-premise/private cloud) for Sweden	All Scope Items / all FPSs
3206893	SAP Best Practices for SAP S/4HANA (on-premise/private cloud) (Singapore) (SGV9)	Information on the activation of SAP Best Practices for SAP S/4HANA (on-premise/private cloud) for Singapore	All Scope Items / all FPSs
3206346	SAP Best Practices for SAP S/4HANA (on premise/private cloud) (Slovakia) (SKV9)	Information on the activation of SAP Best Practices for SAP S/4HANA (on-premise/private cloud) for Slovakia	All Scope Items / all FPSs
3203735	SAP Best Practices for SAP S/4HANA (on-premise/private cloud) (Thailand) (THV9)	Information on the activation of SAP Best Practices for SAP S/4HANA (on-premise/private cloud) for Thailand	All Scope Items / all FPSs
3200701	SAP Best Practices for SAP S/4HANA (on premise/private cloud) (Turkey) (TRV9)	Information on the activation of SAP Best Practices for SAP S/4HANA (on-premise/private cloud) for Turkey	All Scope Items / all FPSs
3203734	SAP Best Practices for S/4HANA (on-premise/private cloud) (Taiwan) (TWV9)	Information on the activation of SAP Best Practices for SAP S/4HANA (on-premise/private cloud) for Taiwan	All Scope Items / all FPSs
3205113	SAP Best Practices for SAP S/4HANA (on-premise/private cloud) (South Africa) (ZAV9)	Information on the activation of SAP Best Practices for SAP S/4HANA (on-premise/private cloud) for South Africa	All Scope Items / all FPSs

The following SAP Notes apply to all countries/regions:

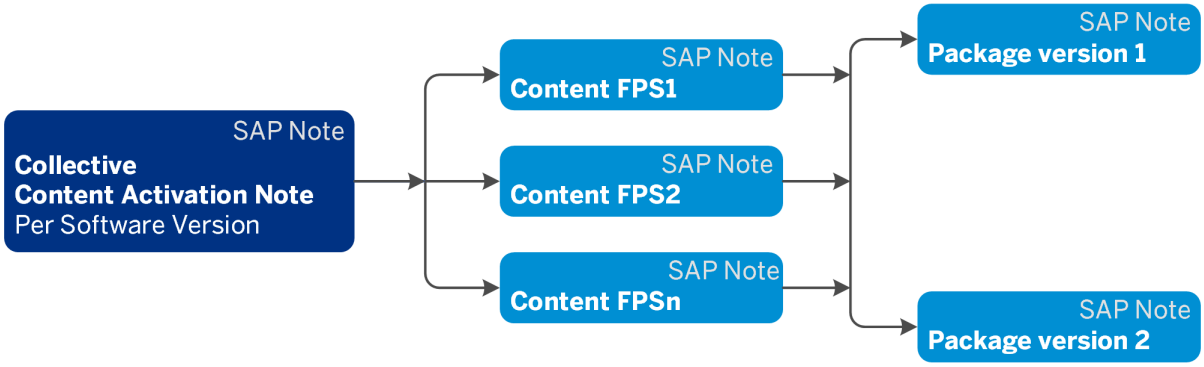
SAP Note	Content	Comments	Relevance
3199321	SAP S/4HANA, on-premise edition 2022 collective note for content activation	Generic information about the activation of SAP Best Practices for SAP S/4HANA content Before you activate the related SAP Best Practices scope, check the latest versions of the linked SAP Best Practices Content activation note and execute all steps as documented in that note.	All scope items / all FPSs You are using SAP Best Practices for your SAP S/4HANA implementation and you need current information for the content.
2234180	SAP S/4HANA Application "Manage Your Solution"	This note provides information about restrictions for using the Fiori apps Manage Your Solution and Extend Core Configuration to implement SAP S/4HANA with SAP Best Practices.	All scope items / all FPSs
2289865	Configuration steps for S/4HANA Analytics	This note provides additional information about the configuration of Analytics in SAP S/4HANA.	

SAP Note	Content	Comments	Relevance
2930991	Additional Information on SAP Best Practices for Decentralized Extended Warehouse Management in SAP S/4HANA 2022	This note provides additional information about the Basic Warehouse Management Best Practices, which is delivered with SAP Best Practices for SAP S/4HANA 2022	This note is required if you use any of the following scope items: • 1FS - Basic Warehouse Inbound Processing from Supplier • 1G2 - Basic Warehouse Outbound Processing to Customer • 1FU - Initial Stock Upload for Warehouse • 1FY - Replenishment in Warehouse • 1FW - Physical Inventory in Warehouse • 1G0 - Scrapping in Warehouse • 1V5 - Warehouse Inbound Processing from Supplier with Batch Management • 1V7 - Warehouse Outbound Processing to Customer with Batch Management • 1V9 - Basic Warehouse Inbound Processing from Supplier with Quality Management • 1VB - Production Integration - Component Consumption and Receipt in Warehouse • 1VD - Advanced Warehouse Outbound Processing to Customer
2590653	SAP Fiori front-end server deployment for SAP S/4HANA	Recommendation regarding the Fiori strategy (Embedded vs. Hub)	

The following SAP Notes must be implemented (if not stated otherwise in the SAP Notes mentioned above):

SAP Note	Content	Comments	Relevance
65343	Problems with variants after the upgrade	After an upgrade, there could be problems with variants. The note lists all the possible issues and provides a solution for each issue.	All scope items

The following figure shows how the information is structured in SAP Notes:



For each software release, there is a central content activation note. From this, you can select the SAP Note for the specific support package level with content correction transports and other content related fixes.

Building block changes and manual workarounds are documented by package version. This package version specific note is assigned to the relevant note corresponding to the support package level.

2.3.3 Create Basic Settings in the SAP S/4HANA Back End System

This section describes required activities in the SAP S/4HANA back-end system.

Deselecting Activation Links in BC Sets [page 30]

Configuring Proxy Settings [page 31]

2.3.3.1 Deselecting Activation Links in BC Sets

This section describes the procedure for switching off the creation of activation links.

Context

BC sets are attributable and reusable snapshots of customizing settings. They are one type of technical objects used to deploy SAP reference content in a system using content activation.

We recommend switching off the creation of activation links. By doing this, you increase activation speed significantly and avoid errors.

Procedure

1. Run the following activity:

SAP Menu	*Tools* > *Customizing* > *Business Configuration Sets* > *Activation of BC Sets*
Transaction Code	`SCPR20`

2. On the *Business Configuration Sets: Activation* screen, choose *Utilities* > *System Settings.*
3. Choose *Change* (`Shift` + `F1`).
4. In the *Activation* section, select the radio button for the *Do Not Create* parameter.
5. Choose *Enter* on the information message.
6. Save.

2.3.3.2 Configuring Proxy Settings

Context

Ensure that the proxy server has been configured according to your system landscape.

Procedure

1. Start transaction **SICF**.
2. Choose *Execute*.
3. Select *Client* > *Proxy Settings*.

   Maintain your proxy server for **http** and **https** depending on your system landscape.

2.3.4 Creating Basic Settings for Using SAP Fiori Launchpad (Back End System)

This section provides general information about SAP Fiori artifacts in SAP S/4HANA and lists basic settings in the back end system for using the SAP Fiori launchpad with the delivered roles and business catalogs.

Overview of SAP Fiori artifacts

The SAP Fiori launchpad is the central access point for all SAP Fiori apps. User roles determine which apps users can access via tiles. In the launchpad, there are services for navigation, personalization, single sign-on, and search. The launchpad and the tiles are flexible and can be adapted to your needs. If you want to modify the delivered SAP Fiori content or create your own artifacts, the following table provides a description of the different Fiori artifacts and how they relate to one another:

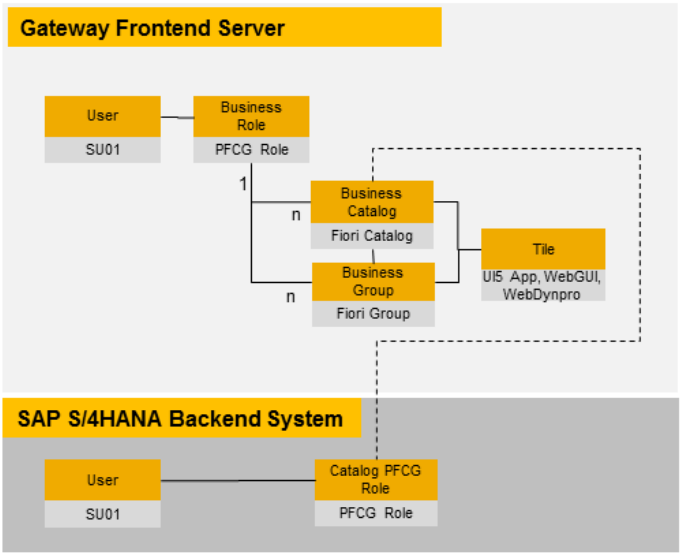
Fiori Entity	Description
App	Executable business functionality; represented in the Fiori UI as a tile and a related target mapping. There are different app types available. Some examples are transactional apps, object pages and analytical apps. For more information, see SAP Fiori App Types. For this on-premise edition, an app tile can also refer to a Web Dynpro or an HTML GUI application.
Technical catalog	A technical catalog contains all apps that make up the business scope. The apps are grouped by LoB (sub) areas. Technical catalogs are repositories that you can use to create your own role-specific business catalogs.
Business catalog	A business catalog is a task group or sub process related grouping of apps (tiles and corresponding target mappings) that is referenced from the technical catalog. If the catalog is assigned to an end user PFCG role, this catalog is available in the SAP Fiori launchpad. Administrators and power users use the SAP Fiori launchpad designer to manage catalogs. End users cannot change predefined catalogs or create new catalogs. However, they can add tiles from the catalogs to their home page in the SAP Fiori launchpad. In addition, they can open an assigned catalog and choose any tile of the catalog and trigger its intent based navigation.
Business group	A business group is a view of the list of apps of one or more business catalogs (for on-premise). The business group defines the list of apps displayed to a user by default on the entry pages of the SAP Fiori launchpad. Administrators use the SAP Fiori launchpad designer to change groups. With the assignment of a group to a role, the group is available to all users assigned to this role. Users can personalize groups by adding or removing apps. They can also create their own groups.

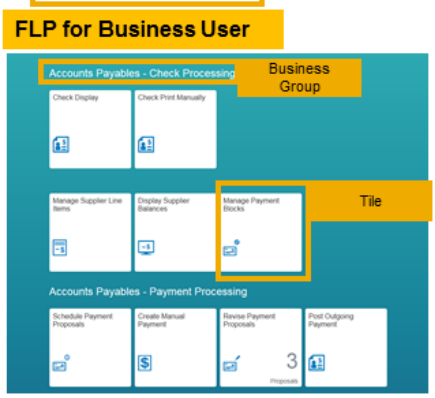
Fiori Entity	Description
Business role	A business role represents a position in a company and contains all tasks (apps) which are relevant for this position. The business role is a PFCG role. The SAP Fiori relevant entities, business catalogs, and groups have dedicated entries in the PFCG menu tree. The role must be assigned to the user for the SAP Fiori launchpad to have the predefined tiles on the home page and to realize intent based navigation. The user can find the apps included in the business groups and use the catalog view to execute all apps belonging to the business catalogs.

In the Fiori Apps Reference Library, you can obtain an overview of the UI content for SAP S/HANA.

Procedure

1. Log in to the Fiori Apps Reference Library with your SAP ONE Support Launchpad user: Fiori Apps Library. If you don't have a user, you can request one here: Users and Authorizations.
2. There you can filter according to your specific product version and see which Fiori apps are available and which specific business roles they are a part of.
3. In your system, execute the check report `/UI2/FLC` after you have assigned all available SAP_BR* roles to your user to get an overview of the SAP Fiori launchpad content.





Related Information

Assigning Business Roles to a User [page 34]
Creating Back End Authorization Roles [page 35]

2.3.4.1 Assigning Business Roles to a User

Context

If you use the SAP Fiori launchpad as a user interface, a prerequisite is that roles are assigned to your Fiori user in the NetWeaver Gateway system.

SAP delivers a bundle of business roles as templates for customers. Copy all *BR* roles for SAP Best Practices for SAP S/4HANA from the Gateway Server to your namespace.

> **i** Note
>
> SAP_BR* roles are **not** designed as productive roles. They are demo roles that enable system users to try out the predefined scope items of SAP Best Practices for SAP S/4HANA using the SAP Fiori launchpad.
>
> For productive use, you should **always copy** the delivered roles and **adapt** them as required. In addition, you define and implement an appropriate authorization concept.

The options for assigning business roles are as follows:

- You assign **roles needed for a specific scope item only**. In this case, check the related test script for the required roles in the *Roles* section. You can find the test scripts in the SAP Best Practices documentation package.
- You assign **all roles needed for SAP Best Practices for SAP S/4HANA**. In this case, assign all business roles to your user.

Procedure

1. In the SAP Gateway system, choose one of the following navigation options:

Transaction Code	SU01
SAP Menu	*Tools* > *Administration* > *User Maintenance* > *Users*

2. In the *User Maintenance* screen, enter the user ID of the user who you want to assign a role to.
3. Choose *Change*.
4. In the *Maintain User* view, choose the *Roles* tab.
5. In the *Role* field, enter the role name. Use the wildcard ***BR*** to search for all relevant roles. You can assign several roles to a user at this stage if necessary.

6. Choose *Enter*, save, and go back to the *SAP Easy Access* view.

Results

The roles are now assigned to the user. These roles are referred to in the test script.

2.3.4.2 Creating Back End Authorization Roles

Context

OData service business objects or transactions are protected by authorization objects. To access SAP Fiori applications or execute SAP transactions using Web GUI tiles, an end user requires the corresponding authorizations.

In this step, you create the back end roles that contain the necessary authorizations for the end user's business tasks. Ideally, each front end role corresponds to a back end role that contains the authorizations for the SAP Fiori applications, transactions and Web Dynpros of the respective SAP_BR* front end role. You can select the appropriate catalog from the front end server via RFC connection and assign it to your business role. The required authorization objects for the OData services and back end transactions are then retrieved. You assign the back end role to the corresponding end users. Authorization profiles must be maintained and generated.

For a detailed description about creating and assigning an authorization back end role, refer to section *Implement SAP Fiori Apps* in the SAP Fiori Overview document.

Procedure

1. In the SAP back end system, access the activity using one of the following navigation options:

Transaction Code	PFCG
IMG Menu	*Tools* > *Administration* > *User Maintenance* > *Role Administration* > *Roles*

2. On the *Role Maintenance* screen, create a new role. Enter the name of your role.
3. Choose *Single Role*.
4. Enter a description and save your created role.
5. Choose the *Menu* tab.
6. Choose the *Insert Node* button and select option *SAP Fiori Tile Catalog*.
7. Choose *Remote Front-End Server* if you are using a hub solution for the front-end server.
8. Choose the *Catalog ID* field and search for the required SAP Fiori catalog using the value help.

9. Choose *Continue* to assign the selected catalog to your role. The assigned catalog now has the required authorization objects assigned to it. You can repeat these assignment steps until the role fits your needs.
10. Choose the *Authorizations* tab and complete/generate a profile for this role.
11. Choose the *User* tab page and input the user ID as back end user.
12. Choose *Save*.

> **i** Note
>
> SAP Best Practices doesn't deliver an authorization concept. All authorization profiles have to be adapted according to the necessary requirements and the authorization concept that has to be realized.

2.3.5 Setting Up SAP S/4HANA Attachment Services (Back End System)

Carry out the following procedures to set up SAP S/4HANA attachment services in the back end system:

- Maintaining Settings for Storage Systems [page 36]
- Maintaining SICF Node [page 38]
- Maintaining Categories for SOMU and DMS_C1_ST [page 38]
- Activating Storage Repository [page 39]
- Maintaining Standard Category for SOFFDB [page 39]
- Adjusting the Customizing in Table TSOPE [page 40]

2.3.5.1 Maintaining Settings for Storage Systems

Context

In this activity, you create settings for storage systems:

- for employee photo

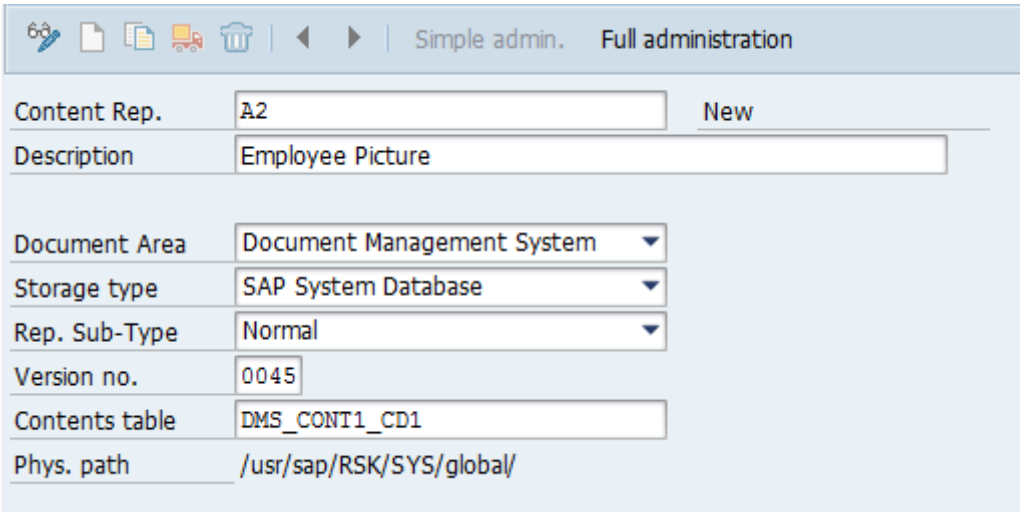
Procedure

1. To carry out the activity, choose the following navigation option:

SAP Menu	SPRO ▶ *Cross Application Components* ▶ *Document Management* ▶ *General Data* ▶ *Setting for Storage Systems* ▶ *Maintain Storage System*
Transaction Code	/nOAC0

2. Create the **storage system for Employee Photo**.
   a. Choose the *Create* button.
   b. On the *Change Content Repositories: Detail* screen, create a new entry for A2 (Employee photo).

Field name	User action and values	Notes
Content Repository	**A2**	
Description	**Employee Photo**	
Document Area	**Document Management System**	
Storage type	**SAP System Database**	
Rep. Sub-Type	**Normal**	
Version no.	**0045**	
Content Table	**DMS_CONT1_CD1**	



3. Save.

2.3.5.2 Maintaining SICF Node

Procedure

1. Start transaction `SICF` in the back end system.
2. On the *Maintain Services* screen, enter **`contentserver`** in the *Service Name* field. Choose *Execute*.
3. Navigate to the service. Right-click and choose *Activate service* in the context menu.
4. Double-click to open the service.
5. On the *Logon Data* tab enter the client number, system user, and password.

   The system user does not require a role or an authorization profile.

2.3.5.3 Maintaining Categories for SOMU and DMS_C1_ST

Procedure

1. To carry out the activity, choose the following navigation option:

SAP Menu	`SPRO` ▶ *Cross Application Components* ▶ *Document Management* ▶ *General Data* ▶ *Setting for Storage Systems* ▶ *Maintain Storage Category*
Transaction Code	`/nOACT`

2. On the *Change View "Maintain Categories": Overview* screen, create the following settings.

Category	Description	Document Area	Content Repository
DMS_C1_ST	**`Default storage DMS (main files)`**	**`DMS`**	**`DMS_C1`**

> **i** Note
>
> To create an entry for the content repository of type `SOMU` (Output Management Utilities), refer to the following SAP Note 2279725.

3. Save your entries. You can ignore any warning message that may occur during saving.

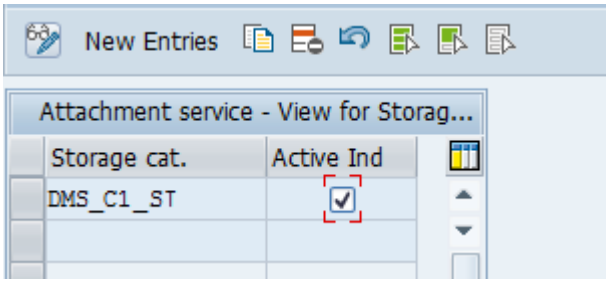
2.3.5.4 Activating Storage Repository

Procedure

1. To carry out the activity, choose the following navigation option:

SAP Menu	SPRO ▶ *Cross Application Components* ▶ *Document Management* ▶ *Additional Settings – Simplification* ▶ *Attachment Service – Storage Repository Activation* ▶

2. Create a new entry for `DMS_C1_ST` and select the *Active Ind* checkbox.



3. Save.

2.3.5.5 Maintaining Standard Category for SOFFDB

Procedure

1. Start transaction `SE16`.
2. Enter `SDOKPHCL` as table name and choose *Table Contents*.
3. Modify the content of the table. Search for entries with *PH_CLASS* **`SOFFPHIO`**. Set the flag (**`X`**) in the *CAT_MAINT* column.
4. Set the standard category from `SOFFDB` to `DMS_C1_ST`.

Choose one of the following navigation options:

SAP Menu	SPRO ▶ *ABAP Platform* ▶ *Knowledge management* ▶ *Setting in Knowledge Warehouse Management* ▶ *Document Management Services* ▶ *Define Standard Category* ▶
Transaction Code	SKPR08

5. On the *Change View "Categories for Physical Document Classes": Overview* screen, make sure that the following settings are available:

Class	Previous cat.	New cat.	Description
SOFFPHIO	SOFFDB	**DMS_C1_ST**	Physical information object for SAPoffice

6. Save.

2.3.5.6 Adjusting the Customizing in Table TSOPE

Procedure

1. Start transaction SM30.
2. In the field *Table/View*, enter TSOPE as table name and choose *Maintain*.
3. In the row *TXT*, remove the checkmark for *ASCII*.
4. Save your entries and enter a transport request.

2.3.6 Setting Up SAP S/4HANA Attachment Services (Front End System)

Procedure

1. Start transaction SICF in the front end system.
2. On the *Maintain Services* screen, enter **sakp_genui_a_s1** in the *Service Name* field. Choose *Execute*.
3. Navigate to the service. Right-click and choose *Activate service* in the context menu.

2.4 Carrying Out Settings for Implementation

Context

This section describes the prerequisite tasks for using the implementation tools.

Procedure

1. Provide users for content activation [page 41].
2. Create a dialog user for content activation [page 42].
3. Prevent out of memory dumps [page 212]

2.4.1 Providing Users for Content Activation

Context

To activate SAP Best Practices solution content, you provide specific users.

Procedure

1. Carry out the procedure Creating a dialog user for content activation [page 42] to provide **dialog users** who activate solutions in the *SAP Best Practices Solution Builder*.
2. Provide **technical users** for content activation, which is carried out in the background: For content activation via self-service configuration apps, create the technical user **`SAP_SYSTEM`** with permission **`SAP_ALL`**.

2.4.2 Creating a Dialog User for Content Activation

Prerequisites

You have chosen one of the following possibilities to assign the authorization profile to the dialog user:

- You created a new project-specific authorization profile.
  In the transaction PFCG (*Role Maintenance*), you created a role with all required authorizations for configuring the solution scope.
- You decided to use the existing authorization profile SAP_ALL.
  This profile contains all the authorizations, so that no authorization issues can hinder the activation. If you restricted the rights of the user according to your internal authorization guidelines, you used transaction SU53 to check whether all required authorizations are available.

Context

For each member of the implementation team who performs content activation in the Solution Builder, create a dialog user and assign the required authorization profile.

Procedure

1. Start the *User Maintenance* transaction SU01.
2. Enter the user ID and choose *Create*.
3. Open the *Address* tab and enter the last name and the first name of the user.
4. Open the *Logon Data* tab and enter the following values:

Option	Description
Password	<initial password>
User type	Dialog

5. Open the *Defaults* tab and enter the following values:

Option	Description
Logon language	EN
Decimal notation	1.234.567,89
Date format	DD.MM.YYYY

> **i** Note
>
> The activation only works if you enter the decimal notation exactly as shown above.

6. Open the *Profiles* tab and assign the authorization profile.
7. Save.

Next Steps

> **→** Recommendation
>
> For security reasons after activation of the solution content, remove the authorization profile that you assigned to the user who performed the activation.

2.4.3 Preventing Time Out Short Dumps

Context

To prevent time outs in dialog processing, you adjust the parameter `rdisp/scheduler/prio_high/max_runtime`. Carry out the following steps:

Procedure

1. Start transaction **`RZ11`**.
2. Enter the parameter name **`rdisp/scheduler/prio_high/max_runtime`**.
3. Choose *Display*.
4. Choose *Change Value*.
5. Enter the new value **`18000`** and choose *Save Change*.

> **i** Note
>
> This change is lost when the server is restarted. This setting is only required for SAP Best Practices for SAP S/4HANA solution activation.

3 Implementation

3.1 Getting the Most Recent SAP Best Practices Content

Context

Before activating a solution, you should always get the most recent SAP Best Practices content. This content is attached to SAP Notes, which are integrated into the central content activation note 3199321. You download transports containing the data files with the content from the SAP Note and import them manually to client 000. The download is a zip file and can contain up to 2 transports.

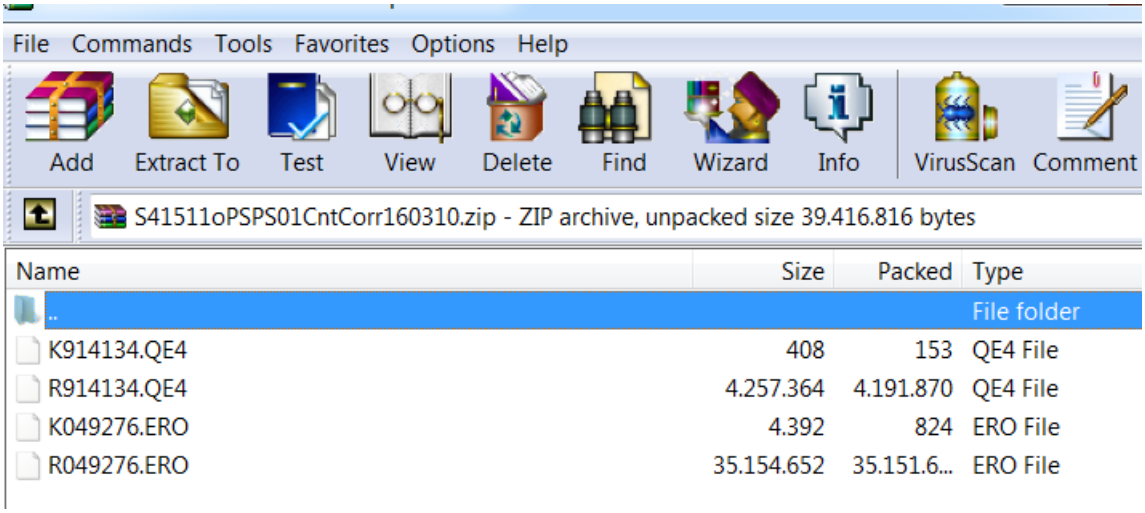
> **i Note**
>
> If no content is provided via the note, proceed with Importing solutions from SAP Best Practices content [page 45].

Procedure

1. Download the zip archive locally.

   Unzip the archive after downloading. It contains up to four files:

2 data files with the following format:	`R<6 digits>.<source system>`
2 attribute files with the following format:	`K<6 digits>.<source system>`



Save the files to the following folders in your system:

R<6 digits>.<source system> (= data files):	`/usr/sap/trans/data`
K<6 digits>.<source system> (= attribute files):	`/usr/sap/trans/cofiles`

2. Log on to client 000 in your system.
3. Start transaction `STMS_IMPORT`.
4. From the menu, choose *Extras* > *Other Requests* > *Add*.
5. In the dialog box, enter the transport request that you have imported (Request ID corresponds to the file name: <source system><6 digits>). Choose *Continue*.
6. Confirm that you want to add the transport request to the import queue.
7. Select a transport that you want to import.
8. Choose *Import Request*.
9. Choose target client 000.
10. On the *Options* tab, select the *Ignore Invalid Component Version* flag.
11. Choose *Continue*.

3.2 Importing Solutions from SAP Best Practices Content

Context

As a starting point for defining customer solutions, it is important to import the most recent content from the SAP Best Practices content.

Procedure

1. Open *SAP Best Practices Solution Builder* by starting transaction **`/n/SMB/BBI`**.
2. Choose *Solution* > *Import* > *Solution (XML)* > *From reference content*.
3. Decide which country version you want to implement. Select the solution files of the most recent country-specific solution version available in the current release. The naming convention is `BP_OP_ENTPR_S4HANA2021_<country code><version number>.XML`

3.3 Defining the Scope of Your Solution

Context

After loading a country solution from SAP Best Practices content, you create your own copy and activate the scope items for your solution (country-specific solution version). Scope items are self-contained and bring their own list of building blocks that need to be activated in order to implement the scope item.

> **i** Note
>
> For some scope items, additional licenses are required. See the list in the section Pricing Relevant Scope Items [page 50].

> **!** Restriction
>
> It is not possible to perform Enterprise Personalization in SAP S/4HANA Best Practices.
>
> You can only define the scope of your solution based on the country-specific solution versions supported in the current release. Only the solution you define is relevant for further usage.
>
> It is not possible to activate the General Ledger related scope items without activating the related Asset Accounting scope items at the same point in time (sequence see below).This means it is not possible to extend an already activated scope including General Ledger by adding Asset Accounting later.
>
> It is not possible to start with a single ledger approach in Asset Accounting and later switch to parallel ledgers.
>
> If you want to use Universal Accounting Processing, you can only activate the country solutions for which it has been enabled: DE (Germany), US (USA), JP (Japan), FR (France, RO (Romania). Once active, UPA applies to all company codes that were activated in the system. For non-supported countries, additional manual rework would be required. SAP, however, only provides support for the listed countries.
>
> Before you start the scope item activation, refer to SAP Note (SAP S/4HANA 2022, Private Cloud and On-Premise: SAP Best Practices Content Restriction Note) for more information about restrictions in the SAP Best Practices content.

Information About the Scope

The SAP S/4HANA 2022 release includes 43 country solutions (no additional country solutions compared to the last release).

For an overview of scope items covered in different countries, refer to Availability and Dependencies of Scope Items.

> ⚠ Caution
>
> If you activate multiple countries in the same client, support can only be provided for delivered scope items. Be aware that automated content lifecycle is not supported by SAP.

To learn more about which scope items are included, refer to the *content library* for the country version and check the fact sheets. The content library also has the link to the *prerequisite matrix*, which gives you an overview of the sequence in which the building blocks need to be applied to implement a scope item.

- SAP Best Practices for SAP S/4HANA (Germany)
- SAP Best Practices for SAP S/4HANA (United States)

To get more information about the configuration settings, you can generate the configuration information [page 62].

Scope Item Dependencies and Activation Sequence

By default, the scope item sequence is already maintained in the reference solutions. If you need to descope some of the scope items, to maintain the desired activation sequence, we strongly recommend that you deselect the ones you do not need from the solution individually.

If instead, you choose *Deselect All*, the activation sequence is lost.

If, for any reason, you deselected all scope items and want to choose the individual scope items, make sure to activate the scope items in the correct sequence. See the information below:

Table 1: Scope Item Dependencies

Affected Scope Item	Required Mandatory Scope Item(s)	Relevance/Comments
3JP - Group Reporting - Predictive Consolidation	2FD - Accounting for Incoming Sales Orders	2FD is a prerequisite for 3JP

Depending on your chosen ledger option, ensure that you set the activation order correctly.

Single Ledger

Sequence	Scope Item
1	J58 - Accounting and Financial Close (FI-GL)
2	J62 - Asset Accounting (FI-AA)
3	BFH - Asset Under Construction (FI-AA)

Parallel Ledger (GL only)

Sequence	Scope Item
1	J58 - Accounting and Financial Close (FI-GL)
2	1GA - Accounting and Financial Close - Group Ledger IFRS - Parallel Ledger (FI-GL)

Parallel Ledger for GL and Asset Accounting

Sequence	Scope Item
1	J58 - Accounting and Financial Close (FI-GL)
2	J62 - Asset Accounting (FI-AA)
3	BFH - Asset Under Construction (FI-AA)
4	1GA - Accounting and Financial Close - Group Ledger IFRS - Parallel Ledger (FI-GL)
5	1GB - Asset Accounting - Group Ledger IFRS - Parallel Ledger (FI-AA)
6	1GF - Asset Under Construction - Group Ledger IFRS - Parallel Ledger (FI-AA)

How to Set Correct Activation Order If You Deselected All

1. On the *Solution Builder – Solution Editor* screen, double-click your solution.
2. In the *Change Solution* dialog box, select the checkbox for the J58 scope item (for example, DE_J58_OP) and choose *OK*.
3. On the *Solution Builder – Solution Editor* screen, choose the arrow to the left of the solution name to view the scope item order. The J58 scope item is listed alone.
4. On the *Solution Builder – Solution Editor* screen, double-click your solution.
5. In the *Change Solution* dialog box, repeat steps 2–4 for the remaining scope items.

> **i** Note
>
> For single ledger, you'll go in and out of the Change Solution dialog box twice more, for J62 and BFH. For parallel ledger, you'll do this five more times for those scope items.

6. On the *Solution Builder – Solution Editor* screen, choose the arrow to the left of the solution name to view the scope item order. The scope items should be listed in the proper order per the tables above.

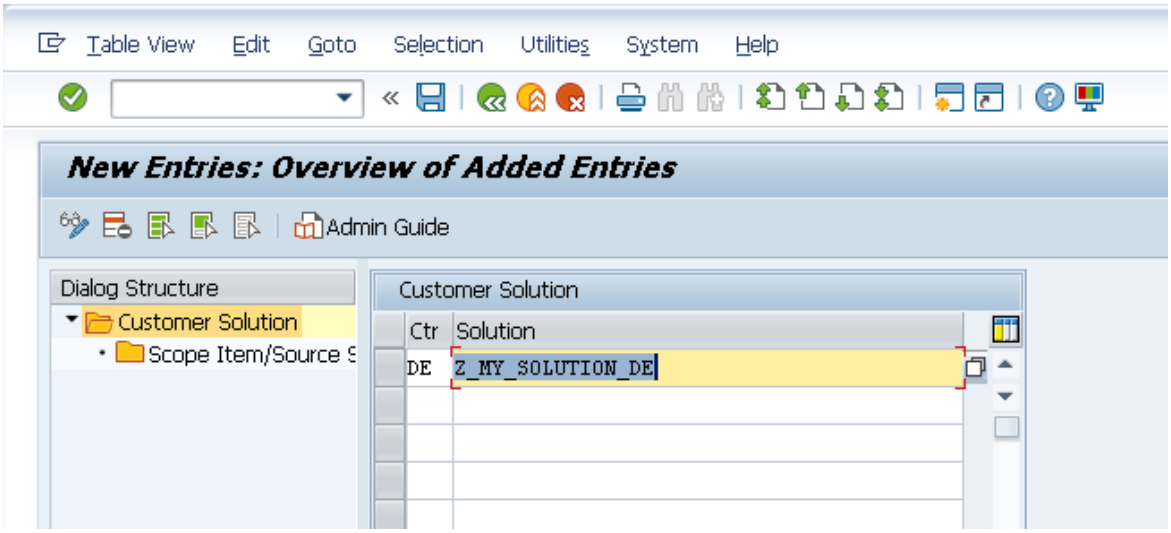
Procedure

1. Open *SAP Best Practices Solution Builder* by starting transaction **`/n/SMB/BBI`**..
2. Create your own copy of the SAP Best Practices solution.
   1. Select the solution and choose *Copy Solution*.
   2. In the dialog box, enter the solution name.

> → Recommendation
>
> Enter a meaningful name, preferably starting with **Z** and ending with the country key, for example **Z_MY_SOLUTION_US**.

3. Deselect the *Copy Installation Data* checkbox.
   The SAP Best Practices reference solution must not contain any installation data.
4. Choose *OK*.

3. Import the installation data to Z* solution:
   1. From the menu, choose *Solution* > *Import* > *Installation Data* > *From reference content* .
   2. On the *Restrict Value Range* dialog box, to import the installation data to the Z* solution, double-click the file `INST_FILES_ZZ_BP_S4BL_S4HANA2021_OP.ZIP`.
4. Define the scope of your solution.
   1. On the *Solution Builder - Solution Editor* screen, select your solution and choose *Favorite* to set it as favorite.
   2. Double-click your solution.
   3. In the *Change Solution* dialog box, select the scope items you want to implement. By default, all scope items are selected.
   4. In the section Pricing Relevant Scope Items [page 50], check if any of the scope items you want to implement require an additional license. If you have not acquired the required license for a pricing-relevant scope item, deselect this scope item from your scope.
   5. Depending on whether you want to use Universal Parallel Accounting and have activated business function FINS_PARALLEL_ACCOUNTING_BF [page 7], you have to either select or deselect scope items from the overall scope:
      - Defining the Scope for Universal Parallel Accounting [page 55]
   6. If you want to implement scope items for Extended Warehouse Management (EWM), adjust your scope depending on your landscape:
      - Defining the Scope of Embedded Extended Warehouse Management (EWM) [page 58]
      - Defining the Scope of a Business Scenario for Integrating SAP S/4HANA with Decentralized Extended Warehouse Management (EWM) Based On SAP S/4HANA [page 59]
   7. When you have finalized the scope selection, choose *OK*.
5. To add your Z solution, start transaction `/n/SMB/SCOPE`.
6. On the *Change View "Customer Solution": Overview* screen, choose *New Entries*.
7. In the dialog structure, in the *Customer Solution* section, enter the country/region in the *CTr* column. In the *Solution* column, select your solution.



8. Choose *Save*.

> **i** Note
>
> During the development phase, you can add back additional scope items you deselected earlier in the same Z* solution. You can then go to the *Solution Builder – Implementation Assistant* to activate them. The newly added scope items will appear in the list after the already activated scope items.
>
> Also, it is possible to activate additional country/region solutions. However, this works only with the below boundary conditions.
>
> - You have not done a technical upgrade of your Development system to the next Feature Package Stack (FPS) or a new release.
> - You have not changed the SAP Best Practices configuration for already activated countries/regions.

3.3.1 Pricing Relevant Scope Items

The following scope items require additional licenses (separate pricing). Before selecting one of them, make sure the required licence is available. This list is subject to change/not limited.

> **i** Note
>
> Certain scope items **only technically enable** the integration of remote applications (for example, SAP Cloud Platform, SAP Ariba, SAP SuccessFactors) into SAP S/4HANA, for example, by providing set-up instructions. Please check with your SAP representative regarding required licenses for these remote applications.

Table 2:

Scope Items
1JW - Advanced Available-to-Promise Processing

Scope Items
1QA - Specification Management for Recipes
1QC - Formulation - Recipe Development
1QG - Recipe Handover to Production - Bill of Material
1QM - Advanced Credit Management
1SG - Group Reporting - Financial Consolidation
1T6 - Lease-In Accounting
1VD - Advanced Warehouse Outbound Processing to Customer
1WV - Debt and Investment Management
1X1 - Foreign Currency Risk Management
1X3 - Interest Rate Derivatives Management
1X7 - Debt and Investment Management - Group Ledger IFRS
1X9 - Foreign Currency Risk Management - Group Ledger IFRS
1XB - Interest Rate Derivatives Management - Group Ledger IFRS
1XD - Hedge Accounting for FX Forward - Group Ledger IFRS
1XI - Central Requisitioning
1XN - Market Rates Management - Manually via Upload
1XV - SAP S/4HANA for Enterprise Contract Management
1YI - Intercompany Process for Debt and Investment Mgmt
1YT - Make-to-Order Production with Variant Configuration
21D - Make-to-Stock Production with Variant Configuration
21P - Lease-In Accounting - Group Ledger IFRS
21Q - Lease-Out Accounting
21R - Service Contract
22R - Advanced Ingredient Replacement for Recipes
287 - Group Reporting - Data from SAP Group Reporting Data Collection
28B - Group Reporting - Plan Consolidation
2AR - Contract Accounting - Master Data and Basic Functions
2BE - Convergent Invoicing - Invoice Correction Processing
2BG - Convergent Invoicing - Invoice Creation for Usage and Service
2BI - Contract Accounting - Customer Initiated Payments
2BK - Contract Accounting - Daily and Monthly Closing
2DP - Contract Accounting - Company Initiated Payments
2F2 - Intercompany Foreign Exchange Management
2HU - Intercompany Foreign Exchange - Group Ledger IFRS

Scope Items
2KF - SAP Fiori Analytical Apps for Convergent Invoicing Specialist
2KH - SAP Fiori Analytical Apps for Contract Accounting Manager
2ME - Central Purchase Contracts
2NV - Guided Buying Capability with SAP Ariba Buying
2NZ - Bank Guarantee Management
2O0 - Bank Fee Management
2O2 - Bank Guarantee Management - Group Ledger IFRS
2OI - Intercompany Debt and Investment Mgmt - Group Ledger IFRS
2OQ - Integration to SAP Enterprise Contract Assembly
2RP - Electronic Documents
2RW - Hedge Accounting for FX Option - Group Ledger IFRS
2SA - Lease-Out for Sublease Accounting - Group Ledger IFRS
2SB - Lease-Out for Sublease Accounting
2SJ - Contract Accounting - External Tax Audit and Compliance Reporting
2T3 - Convergent Invoicing - Recurring and One-Off Items
2UF - Hedge Accounting for FX Swap - Group Ledger IFRS
2UJ - Contract Accounting - Open Item Management
2UN - Money Market Mutual Fund Management
2UO - Money Market Mutual Fund Management - Group Ledger IFRS
2XT - Central Purchasing
2XU - Procurement of Materials with Variant Configuration
2XV - Propose Material Group in Free-Text Purchase Requisitions
2XW - Propose Creation of Catalog Items based on Free-Text Purchase Orders
2ZS - Machine Learning for Monitoring of Goods and Invoice Receipts
31G - Chemical Compliance Approval for Purchased Material and Supplier
31H - Assess Marketability of a Product
31J - Chemical Compliance in the Value Chain
33V - Contract Accounting - Group Ledger US GAAP
33X - Contract Accounting - Group Ledger IFRS
34P - Treasury Workstation Cash Integration
3DX - Convergent Invoicing - Management and Rating of Consumption Items
3EN - Guided Buying for Central Procurement with SAP Ariba Buying
3F4 - Sales-Based Rent
3F7 - Joint Venture Accounting

Scope Items
3FC - Assess Dangerous Goods for a Product
3G8 - Dangerous Goods in the Value Chain
3JP - Group Reporting - Predictive Consolidation
3L1 - Convergent Invoicing and Contract Accounting for Utilities
3L3 - Contract Accounting - Contract-Based Revenue Recognition
3L5 - Liquidity Planning
3L8 - Contract Accounting - Enabling of Products with Variant Configuration
3LX - Group Reporting - Matrix Consolidation
3ND - Product Structure Management
3VQ - Safety Data Sheets in the Value Chain
3VR - Manage Safety Data Sheets for Products
3WY - Bond Management
3WZ - Bond Management - Group Ledger IFRS
3X1 - Hedge Accounting for FX Forward - Local GAAP
3X2 - Hedge Accounting for FX Option - Local GAAP
3ZF - Central Sourcing
40G - Field Logistics Planning and Execution
42K - Automation of Source-to-Pay with Ariba Network
42L - Convergent Invoicing - Revenue Sharing and Partner Settlement
43E - Intelligent Approval Workflow
43R - Maintenance Resource Scheduling
43Y - Contract Accounting - Integration with Sales Documents
47I - Contract Accounting - Cash Application
49D - Letter of Credit Management
49E - Letter of Credit Management - Group Ledger IFRS
4AG - Production Volume Capture
4AH - Field Logistics Planning and Execution – Supplier Items
4AZ - Contract Management with SAP Ariba Contracts
4B0 - Contract for Central Procurement with SAP Ariba Contracts
4BL - Sourcing with SAP Ariba Sourcing
4H2 - Self-Billing
4HG - Advanced Financial Closing Integration
4LG - Intelligent Intercompany Reconciliation
4MT - Advanced Payment Management

Scope Items
4OC - Make-to-Order Production for Sales Kits with Variant Configuration
4OL - Substance Volume Tracking
4R2 - Service Procurement with Ariba Network and SAP Fieldglass
4R2 - Service Procurement with Ariba Network and SAP Fieldglass
4R6 - Sales Processing using Third-Party with Variant Configuration
4R8 - Engineer-to-Order Production with Variant Configuration
4RD - Direct Material Sourcing
4RO - Decentralized EWM - Inbound Processing
4RP - Decentralized EWM - Outbound Processing
4RQ - Decentralized EWM - Ad Hoc Goods Issue
4RR - Decentralized EWM - Physical Inventory
4RS - Decentralized EWM - Replenishment
4RT - Decentralized EWM - Quality Management
4RU - Decentralized EWM - Production Integration
4UA - Decentralized EWM - Technical Integration ERP
4VB - Group Reporting - Consolidation with Multiple Group Currencies
4X3 - Integration of SAP S/4HANA and SAP Cloud for Real Estate
4X8 - Advanced Bank Statement Automation
5JT - Automation of Central Procurement Quotes with Ariba Network
5OD - Stock Management
5OE - Stock Management - Group Ledger IFRS
5OJ - Supplier Compliance in the Value Chain
5OM - Field Logistics Planning and Execution – Direct Procurement
5VX - Enable for Use and Contract Management
5VY - External Occupancy and Contract Management
5VZ - Internal Occupancy and Cost Allocation
5W0 - Intercompany Occupancy and Contract Management
5WF - Shareholding Management
5WG - Shareholding Management - Group Ledger IFRS
5XU - Document and Reporting Compliance
5YU - Enable for Use and Contract Management - Group Ledger IFRS
5YV - External Occupancy and Contract Management - Group Ledger IFRS
5YW - Intercompany Occupancy and Contract Management - Group Ledger IFRS
6BA - Field Logistics Planning and Execution - Containers and Voyages

Scope Items
6BP - In-House Banking
6EB - Lease-In Accounting (UPA)
6EC - Lease-In Accounting - Group Ledger IFRS (UPA)
6ED - Lease-Out for Sublease Accounting (UPA)
6EE - Lease-Out for Sublease Accounting - Group Ledger IFRS (UPA)
6EF - Enable for Use and Contract Management (UPA)
6EG - Enable for Use and Contract Management - Group Ledger IFRS (UPA)
6EH - External Occupancy and Contract Management (UPA)
6EI - External Occupancy and Contract Management - Group Ledger IFRS (UPA)
6EJ - Intercompany Occupancy and Contract Management (UPA)
6EK - Intercompany Occupancy and Contract Management - Group Ledger IFRS (UPA)
BFC - Collections and Dispute Management
J77 - Advanced Bank Account Management
J78 - Advanced Cash Operations

3.3.2 Defining the Scope for Universal Parallel Accounting

Depending on whether you want to use Universal Parallel Accounting (UPA) and have activated business function FINS_PARALLEL_ACCOUNTING_BF [page 7], you have to actively change the solution scope and **select** or **deselect** certain scope items. In either case, when UPA is either active or not active, you use the table below to check which scope items are required to be activated or not.

> ⚠ Caution
>
> Universal Parallel Accounting is only supported for the following countries: DE (Germany), US (USA), JP (Japan), FR (France, RO (Romania).

Table 3:

Area	Scope Items	UPA Active (for supported available country versions)	UPA Not Active
Controlling	<your_country>_6DF - Universal Parallel Accounting	Select	Deselect
Controlling	<your_country>_3F0 - Event-Based Production Cost Posting	Select	Deselect

Area	Scope Items	UPA Active (for supported available country versions)	UPA Not Active
Controlling	<your_country>_5W2 - Group Valuation	Select	Deselect
Asset Accounting	<your_country>_J62 - Asset Accounting	Deselect	Select
Asset Accounting	<your_country>_BFH - Asset Under Construction	Deselect	Select
Asset Accounting	<your_country>_1GB - Asset Accounting - Group Ledger IFRS	Deselect	Select
Asset Accounting	<your_country>_1GF - Asset Under Construction - Group Ledger IFRS	Deselect	Select
Asset Accounting	<your_country>_6DR - Asset Accounting (UPA)	Select	Deselect
Asset Accounting	<your_country>_6DS - Asset Accounting - Group Ledger IFRS (UPA)	Select	Deselect
Asset Accounting	<your_country>_6DT - Asset Under Construction (UPA)	Select	Deselect
Asset Accounting	<your_country>_6DU - Asset Under Construction - Group Ledger IFRS (UPA)	Select	Deselect
Leasing	<your_country>_6EB - Lease-In Accounting (UPA)	Select	Deselect
Leasing	<your_country>_6EC - Lease-In Accounting - Group Ledger IFRS (UPA)	Select	Deselect
Leasing	<your_country>_6ED - Lease-Out for Sublease Accounting (UPA)	Select	Deselect
Leasing	<your_country>_6EE - Lease-Out for Sublease Accounting - Group Ledger IFRS (UPA)	Select	Deselect

Area	Scope Items	UPA Active (for supported available country versions)	UPA Not Active
Leasing	<your_country>_6EF - Enable for Use and Contract Management (UPA)	Select	Deselect
Leasing	<your_country>_6EG - Enable for Use and Contract Management - Group Ledger IFRS (UPA)	Select	Deselect
Leasing	<your_country>_1T6 - Lease-In Accounting	Deselect	Select
Leasing	<your_country>_21P - Lease-In Accounting - Group Ledger IFRS	Deselect	Select
Leasing	<your_country>_2SB - Lease-Out for Sublease Accounting	Deselect	Select
Leasing	<your_country>_2SA - Lease-Out for Sublease Accounting - Group Ledger IFRS	Deselect	Select
Leasing	<your_country>_5VX - Enable for Use and Contract Management	Deselect	Select
Leasing	<your_country>_5YU - Enable for Use and Contract Management - Group Ledger IFRS	Deselect	Select
Joint Venture Accounting	<your_country>_3F7 - Joint Venture Accounting	Deselect	Select

⚠ Caution

Relevant if you have enabled Universal Accounting Processing [page 7]

The ability to use parallel ledgers and post different data for each ledger changes the process flow of the Controlling (CO) processes. The process options are documented in the following deliverables:

- Cost Rates (3KW) - Master Data Script
- Inventory Valuation for Year-End Closing (BEJ) - Test Script
- Standard Cost Calculation (BEG) - Test Script
- Managing Material Price Changes and Inventory Values (1ZT) - Test Script

- Period-End Closing - Maintenance Orders (BF7) - Test Script
- Internal Order - Actual (BEV) - Master Data Script
- Actual Costing (33Q) - Test Script
- Event-Based Production Cost Posting (3F0) - Test Script
  If you use UPA, select this scope item instead of Period-End Closing - Plant (BEI) and make some minor configuration changes by adapting the result analysis key and costing variant.

3.3.3 Defining the Scope of Embedded Extended Warehouse Management (EWM)

> **i Note**
>
> Embedded EWM is the usage of EWM in a way that EWM is provided as part of the SAP S/4HANA on-premise system. It can be integrated to local ERP storage locations in the same system and client.

In the Solution Builder, select from the following scope items belonging to the Embedded EWM scenario:

Scope Item
<your_country>_1FS - Basic Warehouse Inbound Processing from Supplier
<your_country>_1G2 - Basic Warehouse Outbound Processing to Customer
<your_country>_1FU - Initial Stock Upload for Warehouse
<your_country>_1FY - Replenishment in Warehouse
<your_country>_1FW - Physical Inventory in Warehouse
<your_country>_1G0 - Scrapping in Warehouse
<your_country>_1V5 - Warehouse Inbound Processing from Supplier with Batch Management
<your_country>_1V7 - Warehouse Outbound Processing to Customer with Batch Management
<your_country>_1V9 - Basic Warehouse Inbound Processing from Supplier with Quality Management
<your_country>_1VB - Production Integration - Component Consumption and Receipt in Warehouse
<your_country>_1VD - Advanced Warehouse Outbound Processing to Customer

To enable end-to-end business processes, you need to add the following scope items to your solution scope:

Scope Item
<your_country>_2TX - Direct Procurement with Inbound Delivery
<your_country>_BD9 - Sell from Stock
<your_country>_BML - Physical Inventory - Inventory Count and Adjustment
<your_country>_4LU - Physical Inventory - Cycle Counting
<your_country>_BMC - Core Inventory Management

Scope Item
<your_country>_BLF - Batch Management
<your_country>_1FM - Quality Management in Procurement
<your_country>_1BM - Make-to-Order Production - Semifinished Goods Planning and Assembly

In the Solution Builder, deselect the following scope items (belonging to the Decentralized EWM scenario) to exclude them from the scope:

Scope Item
<your_country>_4UA - Decentralized EWM - Technical Integration ERP

Scope Item
<your_country>_4RO - Decentralized EWM - Inbound Processing
<your_country>_4RP - Decentralized EWM - Outbound Processing
<your_country>_4RQ - Decentralized EWM - Ad Hoc Goods Issue
<your_country>_4RR - Decentralized EWM - Physical Inventory
<your_country>_4RS - Decentralized EWM - Replenishment

3.3.4 Defining the Scope of a Business Scenario for Integrating SAP S/4HANA with Decentralized Extended Warehouse Management (EWM) Based On SAP S/4HANA

This section describes the procedure for defining the scope of your solution for integrating SAP S/4HANA with decentralized EWM based on SAP S/4HANA.

For this solution, you must adhere to the following guidelines:

> **i** Note
>
> Decentralized EWM on an SAP S/4HANA stack is a deployment option of the EWM application on the SAP S/4HANA on-premise stack. It is an SAP S/4HANA on-premise system for EWM usage. Compared to an embedded EWM in SAP S/4HANA, it provides integration capabilities to a remote enterprise management system (for example an SAP ERP system).
>
> 'Decentralized' indicates a system landscape with a global enterprise management system which is hosted in the corporate central data center and integrated with a decentralized deployment of an EWM system.

Prerequisites

You have correctly set up the following SAP S/4HANA systems and Best Practices clients:

- One SAP S/4HANA system with a Best Practices client acting as an ERP system
- Another SAP S/4HANA system with a Best Practices client acting as decentralized EWM system

In the Solution Builder, deselect the following scope items (belonging to the Embedded EWM scenario) to exclude them from the scope:

Scope Item
<your_country>_1FS - Basic Warehouse Inbound Processing from Supplier
<your_country>_1G2 - Basic Warehouse Outbound Processing to Customer
<your_country>_1FU - Initial Stock Upload for Warehouse
<your_country>_1FY - Replenishment in Warehouse
<your_country>_1FW - Physical Inventory in Warehouse
<your_country>_1G0 - Scrapping in Warehouse
<your_country>_1V5 - Warehouse Inbound Processing from Supplier with Batch Management
<your_country>_1V7 - Warehouse Outbound Processing to Customer with Batch Management
<your_country>_1V9 - Basic Warehouse Inbound Processing from Supplier with Quality Management
<your_country>_1VB - Production Integration - Component Consumption and Receipt in Warehouse
<your_country>_1VD - Advanced Warehouse Outbound Processing to Customer

Activate scope items as described in the following sections:

- Scope Items in the ERP System [page 60]
- Scope Items in the EWM System [page 61]

3.3.4.1 Scope Items in the ERP System

This section describes the required and optional scope items in the ERP system for the decentralized Extended Warehouse Management (EWM) based on SAP S/4HANA.

Context

There are mandatory and optional scope items to be activated in the ERP system as follows:

Procedure

1. Activate the following mandatory business condition scope items:

Scope Item
<your_country>_2TX - Direct Procurement with Inbound Delivery
<your_country>_BMC - Core Inventory Management
<your_country>_BD9 - Sell from Stock

2. Activate the following optional predecessor scope items as required:

Scope Item
<your_country>_BKP - Customer Returns
<your_country>_BMK - Return to Supplier
<your_country>_BKJ - Sales Order Processing with Customer Down Payment
<your_country>_3NR - Sales Scheduling Agreements
<your_country>_BDA - Free of Charge Delivery
<your_country>_1IU - Customer Consignment
<your_country>_BDN - Sales of Non-Stock Item with Order-Specific Procurement

3. Activate the following mandatory technical integration scope item:

Scope Item
<your_country>_4UA - Decentralized EWM - Technical Integration ERP

3.3.4.2 Scope Items in the EWM System

This section describes the required scope items in the decentral EWM system for the decentralized Extended Warehouse Management (EWM) based on SAP S/4HANA.

Context

There are mandatory and optional scope items to be activated in the decentral EWM system as follows:

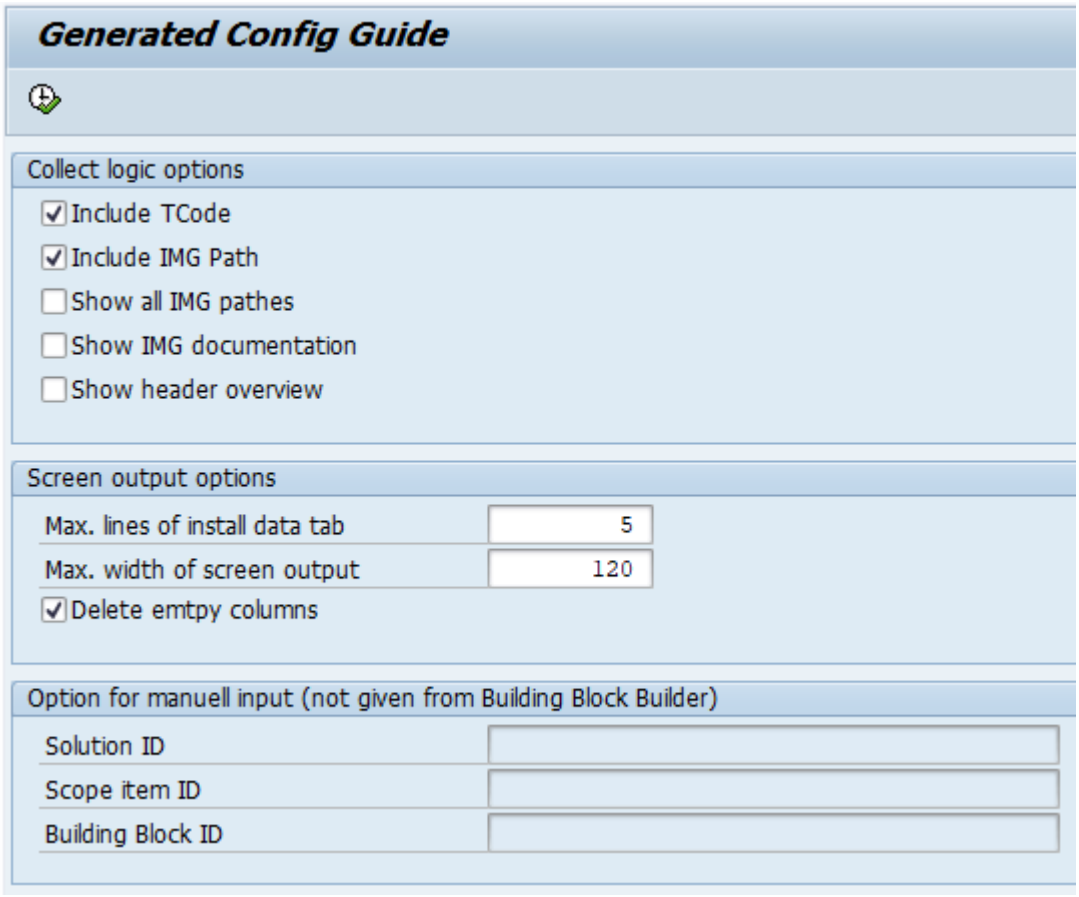
Procedure

Activate the following scope items in the decentral EWM system:

Scope Item
<your_country>_4RO - Decentralized EWM - Inbound Processing
<your_country>_4RP - Decentralized EWM - Outbound Processing
<your_country>_4RQ - Decentralized EWM - Ad Hoc Goods Issue
<your_country>_4RR - Decentralized EWM - Physical Inventory
<your_country>_4RS - Decentralized EWM - Replenishment

3.4 Generating Configuration Information

As of release 1909, configuration guides are deprecated in the SAP Best Practices for SAP S/4HANA package. Instead, you generate configuration information in the system for each level in the configuration hierarchy: for activities, folders, Building Blocks, scope items, or for the whole solution. A report generates a document containing information about the selected entity with its Customizing objects and sub objects, transaction codes and paths in the IMG (incl. IMG documentation if available) as well as the content (installation data) to be maintained.



Use one of the following 2 options to access the configuration report::

Option 1: Use *Solution Builder - Building Block Builder* (for a selected configuration level)

Option 2: Use transaction *Generated Configuration Information* (`/N/SMB/CONFIG_GUIDE_UI`). In this case, you manually select the Solution ID, Scope item ID, or Building Block ID for which you would like to generate the configuration document.

Procedure

1. Start Solution Builder (transaction `/N/SMB/BBI`).
2. Select the relevant customer solution and set it as favorite (*Set Solution as Favorite* button, `Ctrl` + `Shift` + `F6`).
3. Go to *Building Block Builder*.
4. Navigate to the relevant configuration level, for example a Building Block.

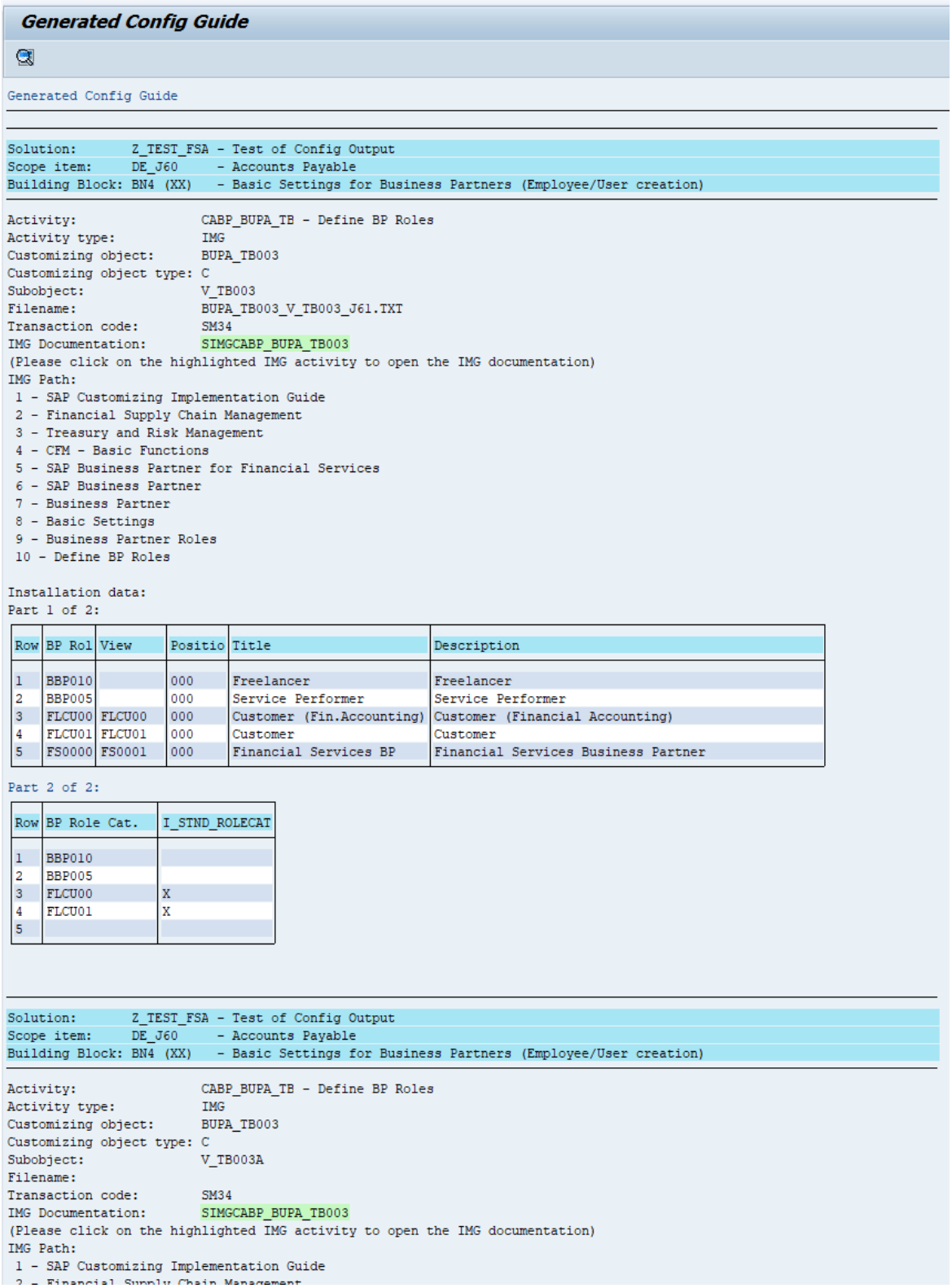
   > → Recommendation
   >
   > Choose a lower level, for example a Building Block instead of a scope item to avoid a long processing time of the report.

5. Open the context menu (right-click) and choose *Show Config Info*. The configuration report is opened in a new window.

6. Select the required options and choose *Execute*.

> → Tip
>
> To get all lines/records, leave the field *Max. lines of install data tab* empty.

Example for generated configuration information for an activity:



Generated Config Guide

Generated Config Guide

Solution: Z_TEST_FSA - Test of Config Output
Scope item: DE_J60 - Accounts Payable
Building Block: BN4 (XX) - Basic Settings for Business Partners (Employee/User creation)

Activity: CABP_BUPA_TB - Define BP Roles
Activity type: IMG
Customizing object: BUPA_TB003
Customizing object type: C
Subobject: V_TB003
Filename: BUPA_TB003_V_TB003_J61.TXT
Transaction code: SM34
IMG Documentation: SIMGCABP_BUPA_TB003
(Please click on the highlighted IMG activity to open the IMG documentation)
IMG Path:
1 - SAP Customizing Implementation Guide
2 - Financial Supply Chain Management
3 - Treasury and Risk Management
4 - CFM - Basic Functions
5 - SAP Business Partner for Financial Services
6 - SAP Business Partner
7 - Business Partner
8 - Basic Settings
9 - Business Partner Roles
10 - Define BP Roles

Installation data:
Part 1 of 2:

Row	BP Rol	View	Positio	Title	Description
1	BBP010		000	Freelancer	Freelancer
2	BBP005		000	Service Performer	Service Performer
3	FLCU00	FLCU00	000	Customer (Fin.Accounting)	Customer (Financial Accounting)
4	FLCU01	FLCU01	000	Customer	Customer
5	FS0000	FS0001	000	Financial Services BP	Financial Services Business Partner

Part 2 of 2:

Row	BP Role Cat.	I_STND_ROLECAT
1	BBP010	
2	BBP005	
3	FLCU00	X
4	FLCU01	X
5		

Solution: Z_TEST_FSA - Test of Config Output
Scope item: DE_J60 - Accounts Payable
Building Block: BN4 (XX) - Basic Settings for Business Partners (Employee/User creation)

Activity: CABP_BUPA_TB - Define BP Roles
Activity type: IMG
Customizing object: BUPA_TB003
Customizing object type: C
Subobject: V_TB003A
Filename:
Transaction code: SM34
IMG Documentation: SIMGCABP_BUPA_TB003
(Please click on the highlighted IMG activity to open the IMG documentation)
IMG Path:
1 - SAP Customizing Implementation Guide

7. You can print, send or download the generated configuration information. From the menu, choose *List* > *Save/Send* > or *Print*.

3.5 Activating Your Solution

Prerequisites

You have checked the SAP S/4HANA content activation note 3199321 for any issues that require action on your part **before** the content activation and completed these tasks.

Client currency setting

Make sure that the client currency setting has not been maintained before the content activation.

During activation, the default group currency is set to USD. If you want to use another currency, adapt the setting directly in the solution builder before starting the activation.

For more information, see Changing Group Currency from USD to Another Currency [page 72]

> ⚠ Caution
>
> Do not start the content activation (initial or delta) if the previous content activation was completed with errors.

Context

The activation process writes the application and configuration data corresponding to the scope of your solution into the system tables and makes the business content ready for use. The activation functions are available in the *implementation assistant* in the SAP Best Practices Solution Builder.

> i Note
>
> You can activate several country solutions in the same client.

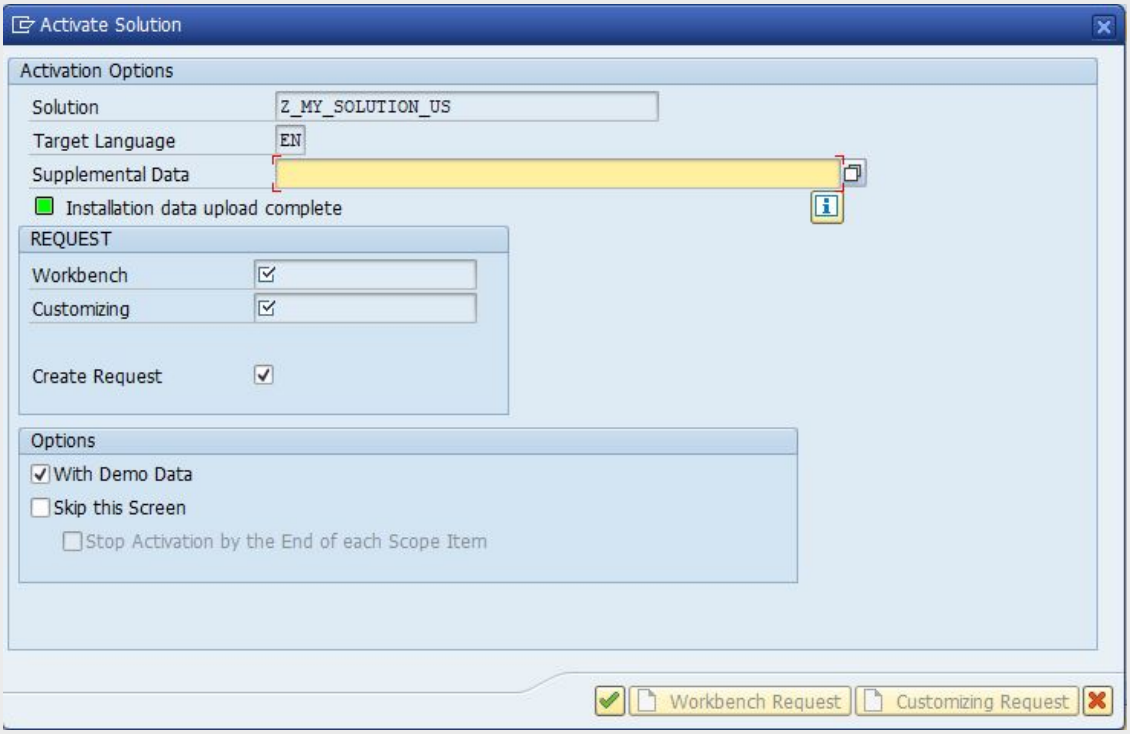
> i Note
>
> For the configuration of Extended Warehouse Management (EWM) scope, manual steps are required. Follow the post-activation steps described in Post-Activation Steps for Embedded EWM Scope Items [page 150].

Procedure

1. Log on to the system with language *English* - and **not** your local language. (This is required for all activation activities.)

2. Activate each of your country-specific solution versions. The activation can be done with or without demo data. The demo data includes sample customers, vendors, materials and profit centers. Activation without demo data is recommended for the development client because the delivered sample profit centers cannot be deleted once the transactions are done.

> **i Note**
>
> **Language selection:**
>
> The *Target Language* is English by default and cannot be changed. The target language has an impact on settings that are activated like language-specific settings, but are technically not language-dependent. English is the best option since the solutions share global building blocks that are included in each solution. To ensure activation without errors, the target language setting has to be consistent for all solutions. The target language, however, has no impact on any other language-dependent installation data. The translations are available based on the selected released languages.



3. Carry out the post-activation and troubleshooting activities as required.

Results

- The business consultant can evaluate the business content [page 204] and review the scope items.
- The scope items can be tested in the system. Before testing, the Prerequisites for Testing Scope Items [page 205] must be fulfilled.

For detailed information about the activation steps refer to the following sections:

- Prerequisite Settings for Activation [page 68]
- Changing SAP Best Practices Content [page 115]

- Handling Installation Errors During Activation [page 119]
- Carrying Out Post-Activation Configuration [page 122]

3.5.1 Prerequisite Settings for Activation

Carry out the following activities before starting the content activation:

Activity	Affected Scope Items	More Information
Changing the group currency	All scope items	Changing Group Currency from USD to Another Currency [page 72]
Settings for activating several country solutions	All scope items	Activating Several SAP Best Practices Country Solutions [page 73]
Update the activation user settings	All scope items	Updating Activation User Settings [page 74]

Activity	Affected Scope Items	More Information
Carry out the pre-activation settings for EWM scope items	<your_country>_1FS - Basic Warehouse Inbound Processing from Supplier <your_country>_1G2 - Basic Warehouse Outbound Processing to Customer <your_country>_1FU - Initial Stock Upload for Warehouse <your_country>_1FY - Replenishment in Warehouse <your_country>_1FW - Physical Inventory in Warehouse <your_country>_1G0 - Scrapping in Warehouse <your_country>_1V5 - Warehouse Inbound Processing from Supplier with Batch Management <your_country>_1V7 - Warehouse Outbound Processing to Customer with Batch Management <your_country>_1V9 - Basic Warehouse Inbound Processing from Supplier with Quality Management <your_country>_1VB - Production Integration - Component Consumption and Receipt in Warehouse <your_country>_1VD - Advanced Warehouse Outbound Processing to Customer	Pre-Activation Settings for Embedded EWM Scope Items [page 75]
Set up integration to SAP Group Reporting Data Collection	287 - Group Reporting - Data from SAP Group Reporting Data Collection	Create settings as decribed in the Set-up instructions 287
Set up configuration for SAP S/4HANA connectivity to SAP ME	1Y5 - Production Operations with Manufacturing Execution System	Create settings as decribed in the Set-up instructions for 1Y5
Set up configuration for SAP S/4HANA connectivity to SAP ME	2JN - Production Operations with SAP Manufacturing Execution	Create settings as decribed in the Set-up instructions for 2JN

Activity	Affected Scope Items	More Information
Set up Joint Venture Accounting	3F7 - Joint Venture Accounting	Joint Venture Accounting is generally usable in all industries and companies. However, this functionality is only required if you are planing (or already running) joint ventures that are not set up as a separate company, but as a project within the company that is the operating the venture. Companies that are non-operating partners of such ventures can also use Joint Venture Accounting. Such ventures are common in the Oil and Gas and Mining industries. A prerequisite for 3F7 are active FI and CO components in the system.

Activity	Affected Scope Items	More Information
Carry out the pre-activation settings for scope items related to Contract Accounting and Convergent Invoicing	<your_country>_2BG - Convergent Invoicing - Invoice Creation for Usage and Service <your_country>_2BE - Convergent Invoicing - Invoice Correction Processing <your_country>_2T3 - Convergent Invoicing - Recurring and One-Off Items <your_country>_3DX - Convergent Invoicing - Management and Rating of Consumption Items <your_country>_2KF - SAP Fiori Analytical Apps for Convergent Invoicing Specialist <your_country>_42L - Convergent Invoicing - Revenue Sharing and Partner Settlement <your_country>_2AR - Contract Accounting - Master Data and Basic Functions <your_country>_2BI - Contract Accounting - Customer Initiated Payments <your_country>_2BK - Contract Accounting - Daily and Monthly Closing <your_country>_2DP - Contract Accounting - Company Initiated Payments <your_country>_2KH - SAP Fiori Analytical Apps for Contract Accounting Manager <your_country>_2SJ - Contract Accounting - External Tax Audit and Compliance Reporting <your_country>_2UJ - Contract Accounting - Open Item Management <your_country>_33X - Contract Accounting - Group Ledger IFRS <your_country>_43Y - Contract Accounting - Integration with Sales Documents	Pre-Activation Settings for Contract Accounting and Convergent Invoicing [page 108]

Activity	Affected Scope Items	More Information
	<your_country>_3L3 - Contract Accounting - Contract-Based Revenue Recognition <your_country>_47I - Contract Accounting - Cash Application	

3.5.1.1 Changing Group Currency from USD to Another Currency

Prerequisites

You have imported the SAP Best Practices content and defined a solution.

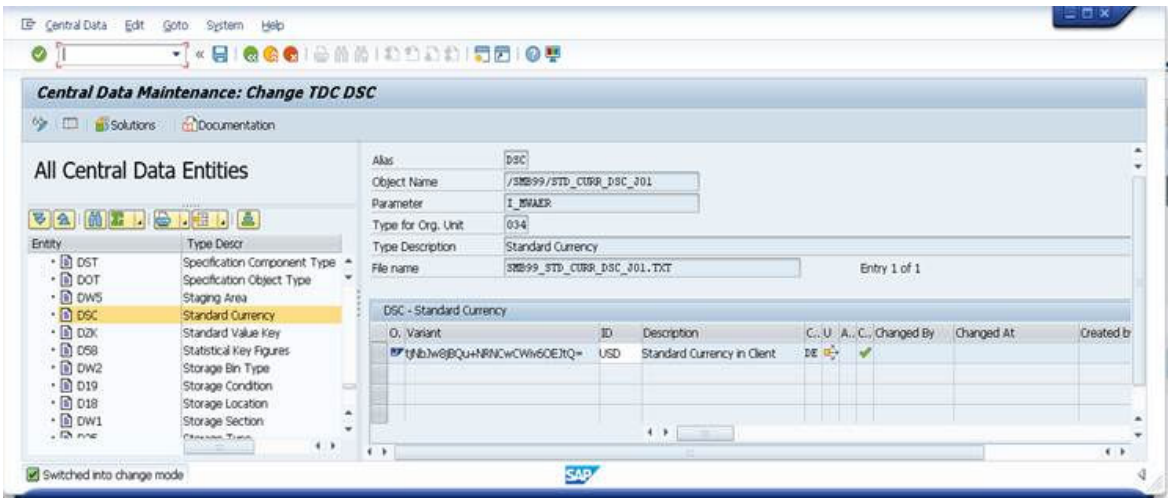
Context

The default group currency delivered with the SAP Best Practices content is **USD**. If you want to use another currency (for example for the material ledger), adapt the setting directly in Solution Builder before beginning with the content activation.

You change the value in the corresponding test data container in Solution Builder.

Procedure

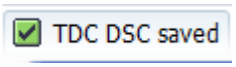
1. Start transaction **/N/SMB/CD_MAINT**.
2. In the *All Central Data Entities* section, use the search button to find the entry *DSC* in the table and double-click it.



3. Switch to the *Change* mode (F6) to make the *ID* field editable.

> **i Note**
>
> The *ID* field is not editable in the following cases:
> - The content has already been activated. In this case, the currency setting cannot be changed.
> - There is an inconsistency in the system. In this case, the problem must be solved via a BCP Incident.

4. In the *ID* field, enter the new standard currency as required and choose *Save*.

   If the procedure was successful, the following message is displayed at the bottom: 

   When activating several SAP Best Practices country solutions, follow the procedure in Activating Several SAP Best Practices Country Solutions [page 73].

3.5.1.2 Activating Several SAP Best Practices Country Solutions

You can activate all available SAP Best Practices country versions (from the same release) in the same client. Remember that you have to set the same group currency that you set for the first activated solution for each additional country solution that you activate in the same client. If the group currency for the first solution was not changed (default group currency USD), a currency change for each solution is not required.

> **⚠ Caution**
>
> Never change or remove the client currency after the activation of the first solution.

> **i Note**
>
> Before you activate the first solution, the client currency is made blank in transaction SCC4.

If you are activating multiple country solutions, perform the following steps before activating the additional solutions. This copies the changes made in transaction `/SMB/CD_MAINT` when there was only one solution to all other solutions that were added later, listed in transaction `/SMB/SCOPE`. Afterwards the client currency is consistent in all solutions.

1. Implement SAP note 2723501 or the corresponding support package.
2. Start transaction `SE38`.
3. Enter report name **`/SMB/REPAIR_TDC_VARIANTS_V2`** and choose *Execute*.
4. Select the radio button *Execute Changes*.
5. Deselect the checkbox *Simulation only*.
6. Choose *Execute*.
7. Enter transaction `/SMB/CD_MAINT` and navigate to the first entry on the left *Standard Currency*. You should then see a green check mark in the *Consistent* column as well as the value you have maintained.

→ Remember

For all solutions that you add to your scope, execute the report **/SMB/REPAIR_TDC_VARIANTS_V2** to synchronize the standard currency. You should see a green check mark afterwards in transaction /SMB/CD_MAINT in the *Consistent* column. Only then can you activate your solution.

3.5.1.3 Updating Activation User Settings

Context

Procedure

1. Start transaction SU01.
2. On the *User Maintenance: Initial Screen*, enter the activation user name and choose *Change*.
3. On the *Maintain Users* screen, choose the *Parameters* tab, and enter the following parameter ID and parameter values:

Set/Get parameter ID	Parameter Value
AREA_ID	S_AREA_CMG
ERB	A000
ETP	2

4. Choose *Save*.

   ℹ Note

   Do not delete any other existing parameters.

5. Log off and log back in before you start the SAP Best Practices activation.

3.5.1.4 Pre-Activation Settings for Embedded EWM Scope Items

Additional manual settings are required in the Development system before you activate the following Embedded EWM scope items:

> **i** Note
>
> Please note that some of these settings are not captured in transport requests. This means, you also have to check and create these settings in the Quality and Production systems.

Scope Item
<your_country>_1FS - Basic Warehouse Inbound Processing from Supplier
<your_country>_1G2 - Basic Warehouse Outbound Processing to Customer
<your_country>_1FU - Initial Stock Upload for Warehouse
<your_country>_1FY - Replenishment in Warehouse
<your_country>_1FW - Physical Inventory in Warehouse
<your_country>_1G0 - Scrapping in Warehouse
<your_country>_1V5 - Warehouse Inbound Processing from Supplier with Batch Management
<your_country>_1V7 - Warehouse Outbound Processing to Customer with Batch Management
<your_country>_1V9 - Basic Warehouse Inbound Processing from Supplier with Quality Management
<your_country>_1VB - Production Integration - Component Consumption and Receipt in Warehouse
<your_country>_1VD - Advanced Warehouse Outbound Processing to Customer

Create the following manual settings:

- Defining RFC Destination [page 76]
- Defining Dummy Logical System [page 78]
- Determining RFC Destinations for Method Calls [page 78]
- Assign Default RFC Destinations to Logical Systems [page 79]
- Defining Queue for Transfer to SAP S/4HANA EWM [page 80]
- Setting the QOUT Scheduler [page 81]
- Defining the Business System [page 82]
- Defining Own Business System [page 83]
- Maintaining Business System Group [page 83]
- Assigning Logical System and Queue Type [page 84]
- Setting Control for RFC Queue [page 84]

3.5.1.4.1 Defining RFC Destination

Context

You define RFC destinations in your system landscape for RFC based communication between systems. Remote Function Calls (RFCs) manage the communication process, parameter transfer, and error handling between the systems.

Procedure

1. Start transaction `SM59` or in the SAP Menu, choose *Tools* > *Administration* > *Administration* > *Network* > *RFC Destinations*.
2. In the *Configuration of RFC Connections* screen, choose *Create*.
3. Make the following entries:

Field Name	Entry	Comments
RFC Destination	**<S/4HANA system name>CLNT<client>** (for example RSKCLNT079)	Use this naming convention for the RFC destination: **<XXX>CLNT<NNN>**, where **XXX** is the system name and **NNN** is the client
Connection Type	**3** - Connection to ABAP system	

4. Choose *Enter* and in the *Description 1* field, enter **RFC Destination for qRFC**.
5. Go to the SAP Logon screen.
   a. Right-click on your system, and in the context menu, choose *Properties*.
   b. On the *Connection* screen, make a note of the values in the following fields:
      - *Message Server (or Application Server)*
      - *Instance Number*

      You enter these values in the fields *Target Host* and *System Number* in the next step.
6. Go to the *Technical Settings* tab and make the following entries:

Field Name	Entry
Load Balancing - No	**[X]**
Target Host	**<Message Server from SAP Logon screen>**
System Number	**<Instance number from SAP Logon screen>**

Field Name	Entry
Save as - Host	**[X]**

7. Go to the *Logon & Security* tab and make the following entries:

Field Name	Entry
Logon & Security area	
Language	EN
Client	<###>, (enter your current client number)
User	
Password	
Current user	**X**
Trust Relationship - No	**[X]** Select *No* (default)
Status of Secure Protocol area	
Inactive	**[X]** Select *Inactive* (default)

8. Check if your system is configured as a Unicode system.
   a. From the menu, choose *System* > *Status*.
   b. On the *System: Status* dialog box, check the value in the *Unicode System* field.
   c. If value is *No*, skip the next step.
9. On the *Unicode* tab, in the *Communication Type with Target System* section, select the *Unicode* radio button.
10. Confirm the dialog box.
11. Choose *Save*.

> **i Note**
>
> Check if the password status is *saved*, otherwise the logon with the specified user doesn't work.

12. Choose the *Connection Test* button to verify that the connection to the current system has been established.
13. Choose the *Remote Logon* button to verify that logon with the user and password works correctly. A separate screen opens, and you are in the SAP S/4HANA system. Choose *Exit Session* (`Shift` + `F3`) to close the screen.

3.5.1.4.2 Defining Dummy Logical System

Context

You define a dummy logical system for qRFC communication, which is required for the definition of the distribution model.

Procedure

1. Start transaction BD54 or in the IMG, choose *ABAP Platform* > *Application Server* > *IDoc Interface / Application Link Enabling (ALE)* > *Basic Settings* > *Logical Systems* > *Define Logical System*.
2. Confirm the information message: *Caution: The table is cross-client*.
3. Choose the *New Entries* button.
4. Enter the logical system and name:

   > **i** Note
   >
   > Adhere to the following naming convention:
   >
   > **<XXX>EWM<NNN>**, where **XXX** is the SAP S/4HANA system name and **NNN** is the client.

   - Log System: < **S/4HANA system name**>**EWM**<**client**> (for example **RSKEWM079**)
   - Name: **Logical System EWM**
5. Choose *Save*.
6. Choose a workbench request if required.

3.5.1.4.3 Determining RFC Destinations for Method Calls

Context

You use the following procedure to determine remote function call (RFC) destinations in the SAP S/4HANA system used for method calls.

Procedure

1. Start transaction BD97 or in the IMG, choose *ABAP Platform* > *Application Server* > *IDoc Interface / Application Link Enabling (ALE)* > *Communication* > *Determine RFC Destinations for Method Calls*.
2. On the *Assign RFC Destinations for Synchronous Method Calls* screen, select the relevant EWM logical system, for example, *RSKEWM079*.

3. Choose *Standard BAPI destination*.
4. In the *Assign RFC Destinations for Synchronous Method Calls* dialog box, in the *RFC destination for BAPI calls* field, enter the RFC destination of the SAP S/4HANA EWM system (in capital letters or use the value help).
5. Choose *Continue* (*Enter*).
6. Choose *Save*.
7. Choose *Back*. (F3)

3.5.1.4.4 Assign Default RFC Destinations to Logical Systems

Purpose

In this Customizing activity, you define default remote function call (RFC) destinations for logical systems, to use for standard communication from EWM to integrated systems (for example, to ERP, MII, GTS).

You can assign a standard RFC destination for synchronous BAPI calls.

Procedure

1. Access the transaction using one of the following navigation options:

IMG Menu (SAP EWM system)	*SCM Extended Warehouse Management* > *Extended Warehouse Management* > *Interfaces* > *ERP Integration* > *General Settings* > *Assign Default RFC Destinations to Logical Systems*
Transaction Code	SM31

2. On the *Edit Table Views: Initial Screen*, enter **`/SCWM/V_SDESTDEF`** in the *Table/View* field and choose *Maintain*.
3. On the *Change View "Assignment of Default RFC destination to logical system"* screen, choose *New Entries*.
4. On the *New Entries: Details of Added Entries,* screen, enter:

Field name	User action and values	Comment
Receiver	**`<S/4HANA system name>CLNT<client>`**, for example, **`RSKCLNT079`**	Logical system

Field name	User action and values	Comment
RFC destination for BAPI calls	**<S/4HANA system name>CLNT<client>**, for example, **RSKCLNT079**	RFC destination

5. Choose *Save*.

Result

An entry is created in table `/SCWM/TCHM_SDEST` for the logical system assigned to the client (logical system of SAP S/4HANA system) and the RFC destination created for SAP S/4HANA. This entry is not displayed in transaction `BD97`.

3.5.1.4.5 Defining Queue for Transfer to SAP S/4HANA EWM

Context

This section describes the procedure for defining the queue for SAP S/4HANA Extended Warehouse Management.

Procedure

1. Start transaction `SPRO` and in the IMG, choose *Logistics Execution* > *Extended Warehouse Management Integration* > *Basic Setup of Connectivity* > *Define Queue for Transfer to SAP EWM*.
2. On the *Change View "Configuration of EWM communication via Queue": Overview* screen, choose *New Entries*.
3. On the *New Entries: overview of Added Entries* screen, make the following entries:

Field Name	Entry	Comment
Receiver	<**Logical Destination**>,	EWM logical system (for example, RSKEWM079)
Queue Type	**Inbound queue**	
Agg SQueue	**No Aggregation**	

Field Name	Entry	Comment
MQueue Act	**Mass Queue disabled (=> Single Queues)**	
MQueue Par	**1**	

4. Choose *Save*.
5. Choose *Back*.

3.5.1.4.6 Setting the QOUT Scheduler

Context

This describes the procedure for setting up the scheduler for the outbound queue in SAP S/4HANA, which enables automatic processing of messages in the outbound queue.

Procedure

1. Start transaction `SMQS`.
2. Choose *Registration*.
3. Make the following entries:

Parameter	Value
Destination	**<S/4HANA system name>CLNT<client>** For example **RSKCLNT079**
Max. Conn.	**1** (default)
Max. Runtime	**60** (default)
W/o tRFC	Leave empty (default)
Scheduler Monitoring	**0** (default)

4. Choose *Continue* (`Enter`).

> **i** Note
>
> To find the Logical System ID representing the SAP S/4HANA system and client, check the IMG activity*Assign Logical System to Client*. Locate the corresponding SAP S/4HANA client and choose *Detail*. The logical system can be found in the detail screen.

> **Note**
>
> Ignore the scheduler status. It is inactive and only changes to active if a message is sent between the systems.

5. Choose *Back* (F3).

3.5.1.4.7 Defining the Business System

Context

You use this procedure to name the business system and all systems that are part of the system landscape.

Procedure

1. Start transaction SPRO and in the IMG, choose *SCM Extended Warehouse Management* > *Extended Warehouse Management* > *Interfaces* > *ERP Integration* > *General Settings* > *Define Business System*.
2. On the *Change View "Buffer for SLD Data of Business Systems": Overview* screen, create a new entry for each system that is part of your system landscape. For example, choose the *New Entries* button for each of the following values:
   - *Business System*: **<System name>_<Client Number>, for example, RSK_079**
   - *Logical System*: **<S/4HANA Logical System>, for example, RSKCLNT079**
   - *Manual Maint.*: *X Flag set (event raised)*.
3. Choose *Save*.

Results

All named business systems are added to the table /SCMB/TBUSSYS.

> **Note**
>
> If you use a System Landscape Directory (SLD), ensure that the key name of the business system (BSKEY) used in the SLD is the same as the one used in table /SCMB/TBUSSYS when the *Manual Maint.* field is set to *Flag is Not Set*.

3.5.1.4.8 Defining Own Business System

Context

You use this procedure to name the business system of the system in which you have installed EWM.

Procedure

1. Start transaction SPRO and in the IMG, choose *SCM Extended Warehouse Management* > *Extended Warehouse Management* > *Interfaces* > *ERP Integration* > *General Settings* > *Define Own Business System*.
2. On the *Change View "Name of Own Business System": Overview* screen, choose *New Entries*.
3. On the *New Entries: Overview of Added Entries* screen, enter the name of your own business system, **<S/4HANA system name>_<Client Number>** for example, **RSK_079**.
4. Choose *Save*.
5. Choose *Back* (F3).

   All named business systems are added to the table /SCMB/TOWNBS.

3.5.1.4.9 Maintaining Business System Group

Context

You use this procedure to maintain business system groups (BSGs).

Procedure

1. Start transaction SPRO and in the IMG, choose *SCM Extended Warehouse Management* > *SCM Basis* > *Integration* > *Basic Settings for Creating the System Landscape* > *Maintain Business System Group*.:
2. On the *Change View "Business System Group": Overview* screen, choose *New Entries* and make the following entries:

BusSystGrp	BSG
Description	Business System Group for **<System ID> <Client>**

> → Recommendation
>
> Enter a name that relates to the system and the client you are integrating.

> This description is used for all languages.

3. Choose *Save*.
4. Choose *Back* (F3).

3.5.1.4.10 Assigning Logical System and Queue Type

Context

You use this procedure to assign the logical system and queue types to a business system group (BSG).

Procedure

1. Start transaction SPRO and in the IMG, choose *SCM Extended Warehouse Management* > *SCM Basis Integration* > *Basic Settings for Creating the System Landscape* > *Assign Logical System and Queue Type*.
2. On the *Change View "Assignment of Logical System to Business System Group": Overview* screen, choose *New Entries*.
3. On the *New Entries: Overview of Added Entries* screen, make the following entries:

Business System Group	*Logical System*	*SAP Ind.*	*Release*	*Queue Type*	*Err. Hndling*	*Role*
BSG	**<S/4HANA system name>CLNT<client>** For example: **RSKCLNT079**	**X**	**700**	**I Inbound Queues**	**Strict (Terminate at Errors)**	**Not Specified**

4. Choose *Save*.
5. Choose *Back* (F3).

3.5.1.4.11 Setting Control for RFC Queue

Context

You use this procedure to define outbound communication.

Procedure

1. Start transaction SPRO and in the IMG, choose *SCM Extended Warehouse Management* > *Extended Warehouse Management* > *Interfaces* > *ERP Integration* > *General Settings* > *Control for RFC Queue*.
2. On the *Change View "qRFC Configuration for Communication ERP <=> EWM": Overview* screen, choose *New Entries*.
3. On the *New Entries: Details of Added Entries* screen, make the following entries:

Field Name	User Action and Values	Comments
Business System	**<Bus. System name>**	Use the business system defined for your SAP S/4HANA system. For example, **<S/4HANA system name>_<client>**, such as **RSK_079**
Queue Type	*I Inbound Queues*	
Aggr. Single Queues	*No Aggregation*	
Mass Queue Act.	*Mass Queue Deactivated (=> Individual Queue)*	
Parallel Mass Queues	Leave empty (default).	

4. Choose *Save*.
   The system asks you for a customizing request.
5. Choose *Back* (F3).

3.5.1.5 Pre-Activation Settings for Decentralized EWM Scope Items

This section describes the activation prerequisites for decentralized EWM scope items.

Before you activate decentralized EWM scope items for integrating SAP S/4HANA with decentralized Extended Warehouse Management (EWM) based on SAP S/4HANA, you create the manual settings in the SAP S/4HANA system in the role of the ERP system and the decentralized Extended Warehouse Management (EWM) based on SAP S/4HANA system.

Before continuing with the pre-activation settings, make sure that you have fulfilled the following prerequisite:

- You have a decentralized EWM on an SAP S/4HANA OP stack referred to as an SAP S/4HANA EWM system that is linked to an SAP S/4HANA OP used as global enterprise management system referred to as an SAP S/4HANA ERP system.

Carry out the pre-activation settings as described in:

- Settings in SAP S/4HANA ERP System [page 86]
- Settings in SAP S/4HANA Decentralized EWM System [page 94]

3.5.1.5.1 Settings in SAP S/4HANA ERP System

This chapter describes the required pre-activation settings in an SAP S/4HANA ERP system for decentralized EWM scope items.

System administrators must make specific settings for the Remote Function Call (RFC) connection between the SAP S/4HANA ERP and SAP S/4HANA decentralized EWM before carrying out any customizing activity.

Carry out the following procedures:

3.5.1.5.1.1 Creating RFC User in the SAP S/4HANA ERP System

Context

To enable communication between the SAP S/4HANA ERP system and the SAP S/4HANA decentralized EWM system, you have to create an RFC user in the SAP S/4HANA ERP system.

3.5.1.5.1.2 Naming Logical Systems in SAP S/4HANA ERP System

Context

To enable communication between your SAP S/4HANA Decentralized EWM and your SAP S/4HANA ERP system, you define logical systems for both systems in your SAP S/4HANA ERP system.

Procedure

1. Access the transaction using one of the following navigation options:

Transaction Code	BD54
SAP ERP IMG menu	Integration with Other SAP Components → Extended Warehouse Management → Basic Settings for Setting Up the System Landscape → Name Logical System

2. Confirm the information message `Caution: The table is cross-client`.
3. On the *Change View "Logical Systems": Overview* screen, choose *New Entries*.
4. On the *New Entries: Overview of Added Entries* screen, make the following entries:

Field Name	Entry
Log System	`<SAP ERP system name>`CLNT`<client>` Example ERPCLNT001
Name	**`Logical System SAP S/4HANA ERP System`**

5. Repeat step 4 with the following entries:

Field Name	Entry
Log System	`<SAP EWM system name>`CLNT`<client>` Example EWMCLNT001
Name	**`Logical System SAP S/4HANA Decentralized EWM System`**

6. Choose *Save*.

3.5.1.5.1.3 Assigning Logical System to SAP S/4HANA ERP Client

Context

The purpose of this activity is to make an assignment for the logical system. Skip this activity if a logical system is already assigned to your client.

Procedure

1. Access the transaction using one of the following navigation options:

SAP ERP IMG menu	Integration with Other SAP Components → Extended Warehouse Management → Basic Settings for Setting Up the System Landscape → Assign Logical System to a Client.
Transaction code	`SCC4`

2. On the *Display View "Clients": Overview* screen choose *Display* → *Change*.
3. Confirm the warning message `Caution: The table is cross-client`.
4. On the *Change View "Clients": Overview* screen select the line with the current ERP client you are in and choose *Details*.
5. On the *Change View "Clients": Details* screen make the following entries:

Field name	Entry
Logical system	`<SAP ERP system name>`CLNT`<client>` **Example** ERPCLNT001

6. Choose *Save* and confirm the message.

3.5.1.5.1.4 Setting Up RFC Destination to SAP S/4HANA Decentralized EWM System in SAP S/4HANA ERP System

Context

Communication between the systems is based on the RFC interface, where Remote Function Calls (RFCs) manage the communication process, parameter transfer, and error handling between different systems. To set up these functions in your systems, you need to define RFC destinations in your system landscape.

Procedure

1. Access the transaction using one of the following navigation options:

Transaction Code	SM59
SAP ERP IMG menu	ABAP Platform → Application Server → IDoc Interface / Application Link Enabling (ALE) → Communication → Create RFC Connections

2. On the *Configuration of RFC Connections* screen, choose *Create*.
3. On the *RFC Destination* screen, make the following entries:

Field Name	Entry
RFC Destination	`<SAP EWM system name>CLNT<client>` **Example** EWMCLNT001
Connection Type	*3 (Connection to ABAP system)*
Description 1	*RFC Destination to SAP S/4HANA Decentralized EWM System*

4. Choose *Enter*.
5. Go to the *Technical Settings* tab and make the following entries:

Field Name	Entry
Load Balancing	**No**
Target Host	**<SAP EWM target host name>**
System Number	**<SAP EWM target system number>**
Save as Hostname	**X**

6. Go to the *Logon & Security* tab and make the following entries:

Field Name	Entry
Language	**EN**
Client	**<SAP EWM target client>**
User	**<RFC USER in the EWM client>**
Password	**<password you have chosen in the user maintenance>**
Current User	**Deselect (default)**
Trust Relationship	**Check No (default)**
SNC	**Check Inactive (default)**

7. Choose *Save*.

3.5.1.5.1.5 Determining RFC Destinations for Method Calls in SAP S/4HANA ERP System

Context

You use this procedure to determine remote function call (RFC) destinations in the SAP S/4HANA Decentralized EWM system used for method calls.

Procedure

1. Access the transaction using one of the following navigation options:

IMG Menu (SAP EWM system)	ABAP Platform → Application Server → IDoc Interface/Application Link Enabling (ALE) → Communication → Determine RFC Destinations for Method Calls
Transaction code	BD97

2. On the *Assign RFC Destinations for Synchronous Method Calls* screen, select the relevant SAP S/4HANA EWM logical system.
3. Choose the *Standard BAPI destination* button.
4. In the dialog box, in the *RFC destination for BAPI calls* field, enter the RFC destination of the SAP S/4HANA EWM system.

   Example

   EWMCLNT001

5. Choose *Continue* (Enter).
6. Choose *Save*.

3.5.1.5.1.6 Setting Up QOUT Scheduler

Context

You set up the scheduler for the outbound queue in EWM to enable automatic processing of messages in the outbound queues.

Procedure

1. In the SAP EWM system, start transaction `SQMS`.
2. Choose *Registration*.
3. Make the following entries:

Parameter	Value
Destination	**<SAP S/4HANA RFC Destination>** Example EWMCLNT001
Max. Conn.	**10**
Max. Runtime	**60**
W/o tRFC	**Leave empty (default)**
Scheduler Monitoring	**0**

4. Choose *Continue* (`Enter`).

3.5.1.5.1.7 Setting Up QIN Scheduler

Context

You set up the scheduler for inbound queues in the SAP EWM system to enable automatic processing of messages in inbound queues.

Procedure

1. In the EWM system, start transaction `SMQR`.
2. Choose *Registration*.
3. Create the following values:

Parameter	Value
Queue name	<used queue name>

Parameter	Value
	→ Recommendation Use either ***** or one of the following: **DLW*, EWM*, QI*, QM*, WM***
Mode	**D**
Max. Runtime	**60**
Destination	Leave empty (default)
Attempts	**30**
Pause	**300**
Scheduler Monitoring	**0**

4. Choose *Continue* (Enter).

3.5.1.5.1.8 Setting Up qRFC Administration for CIF Queue Display

Context

You use this procedure to register display programs for the application log in Extended Warehouse Management (EWM).

Procedure

1. In the SAP EWM system, start transaction SMQE.
2. Choose *Edit* > *Register Display Program*.
3. Register the program:

Queue Name	Program Name
*CF**	/SAPAPO/CIF_QUEUE_EVENT3

4. Choose *Continue* (Enter).
5. Repeat steps 2 - 4 for the following queue names:

Queue Name	Program Name
*DLW**	/SCWM/QRFC_APPL_LOG_DISPLAY

Queue Name	Program Name
*EWM**	/SCWM/QRFC_APPL_LOG_DISPLAY
*QI**	QIE_RFC_DISPLAY_QUEUE_LOG
*QM**	QIE_RFC_DISPLAY_QUEUE_LOG
*WM**	/SPE/QUEUE_DISPLAY_TOOLS

3.5.1.5.1.9 Defining Queue for Transfer to Extended Warehouse Management

Context

This procedure enables you to define the queue for Extended Warehouse Management (EWM).

Procedure

1. Access the transaction using one of the following navigation options:

SAP ERP IMG menu	Logistics Execution → Extended Warehouse Management Integration → Basic Setup of Connectivity → Define Queue for Transfer to SAP EWM
Transaction code	SPRO

2. On the *Change View "Configuration of EWM communication via Queue": Overview* screen, choose *New Entries*.
3. On the *New Entries: overview of Added Entries* screen, make the following entries:

Field Name	User Action and Values	Comment
Receiver	<Logical Destination>	EWM logical system **Example** EWMCLNT001
Queue Type	**Inbound queue**	
Agg SQueue	**No Aggregation**	
MQueue Act	**Mass Queue disabled (=> Single Queues)**	

Field Name	User Action and Values	Comment
MQueue Par	Leave empty (default)	

4. Choose *Save*.

3.5.1.5.2 Settings in SAP S/4HANA Decentralized EWM System

This section describes the required pre-activation settings for decentralized EWM scope items in the SAP S/4HANA decentralized EWM system.

You must make specific settings for the Remote Function Call (RFC) connection between SAP S/4HANA ERP and SAP S/4HANA decentralized EWM before any customizing activity is carried out. Carry out the following procedures:

- Creating RFC User in the SAP S/4HANA Decentralized EWM System [page 94]
- Naming Logical Systems in SAP S/4HANA Decentralized EWM System [page 95]
- Assigning Logical System to SAP S/4HANA Decentralized EWM Client [page 96]
- Setting Up RFC Destination to SAP S/4HANA ERP System in SAP S/4HANA Decentralized EWM System [page 97]
- Determining RFC Destinations for Method Calls in SAP S/4HANA Decentralized EWM System [page 98]
- Setting Up QOUT Scheduler [page 99]
- Setting Up QIN Scheduler [page 100]
- Setting Up qRFC Administration for CIF Queue Display [page 101]
- Maintaining Business System Group in SAP S/4HANA Decentralized EWM System [page 102]
- Defining Business System [page 102]
- Defining Own Business System [page 103]
- Assigning Logical System and Queue Type [page 104]
- Control for RFC Queue [page 105]
- Setting Control Parameters for ERP Version Control [page 106]
- Creating Model 000 and Version 000 [page 107]

3.5.1.5.2.1 Creating RFC User in the SAP S/4HANA Decentralized EWM System

Context

To enable communication between the SAP S/4HANA decentralized EWM system and the SAP S/4HANA ERP system, you have to create an RFC user in the SAP S/4HANA decentralized EWM system.

3.5.1.5.2.2 Naming Logical Systems in SAP S/4HANA Decentralized EWM System

Context

To enable communication between your SAP S/4HANA Decentralized EWM and your SAP S/4HANA ERP system, you need to define logical systems for both systems in your SAP S/4HANA Decentralized EWM system.

Procedure

1. Access the transaction using one of the following navigation options:

Transaction Code	BD54
SAP ERP IMG menu	Integration with Other SAP Components → Extended Warehouse Management → Basic Settings for Setting Up the System Landscape → Name Logical System

2. Confirm the information message `Caution: The table is cross-client`.
3. On the *Change View "Logical Systems": Overview* screen, choose *New Entries*.
4. On the *New Entries: Overview of Added Entries* screen, make the following entries:

Field Name	Entry
Log System	**<SAP ERP system name>CLNT<client>** Example ERPCLNT001
Name	**Logical System SAP S/4HANA ERP System**

5. Repeat step 4 with the following entries:

Field Name	Entry
Log System	**<SAP EWM system name>CLNT<client>** Example EWMCLNT001
Name	**Logical System SAP S/4HANA Decentralized EWM System**

6. Choose *Save*.

3.5.1.5.2.3 Assigning Logical System to SAP S/4HANA Decentralized EWM Client

Context

The purpose of this activity is to make an assignment for the logical system. Skip this activity if a logical system is already assigned to your client.

Procedure

1. Access the transaction using one of the following navigation options:

SAP EWM IMG menu	Integration with Other SAP Components → Extended Warehouse Management → Basic Settings for Setting Up the System Landscape → Assign Logical System to a Client.
Transaction code	`SCC4`

2. On the *Display View "Clients": Overview* screen choose *Display → Change*.
3. Confirm the warning message `Caution: The table is cross-client`.
4. On the *Change View "Clients": Overview* screen select the line with the current EWM client you are in and choose *Details*.
5. On the *Change View "Clients": Details* screen make the following entries:

Field Name	Entry
Logical system	`<SAP EWM system name>`CLNT`<client>` **Example** EWMCLNT001

6. Choose *Save* and confirm the message.

3.5.1.5.2.4 Setting Up RFC Destination to SAP S/4HANA ERP System in SAP S/4HANA Decentralized EWM System

Context

Communication between the systems is based on the RFC interface, where Remote Function Calls (RFCs) manage the communication process, parameter transfer, and error handling between different systems. To set up these functions in your systems, you need to define RFC destinations in your system landscape.

Procedure

1. Access the transaction using one of the following navigation options:

Transaction Code	SM59
SAP ERP IMG menu	ABAP Platform → Application Server → IDoc Interface / Application Link Enabling (ALE) → Communication → Create RFC Connections

2. On the *Configuration of RFC Connections* screen, choose *Create*.
3. On the RFC Destination screen, make the following entries:

Field Name	Entry
RFC Destination	<SAP ERP system name>CLNT<client> Example ERPCLNT001
Connection Type	**3 (Connection to ABAP system)**
Description 1	**RFC Destination to SAP S/4HANA ERP System**

4. Choose *Enter*.
5. Go to the *Technical Settings* tab and make the following entries:

Field Name	Entry
Load Balancing	**No**
Target Host	**<SAP ERP target host name>**
System Number	**<SAP ERP target system number>**
Save as Hostname	**X**

6. Go to the *Logon & Security* tab and make the following entries:

Field Name	Entry
Language	**EN**
Client	**<SAP ERP target client>**
User	**<RFC USER in the ERP client>**
Password	**<password you have chosen in the user maintenance>**
Current User	**Deselect (default)**
Trust Relationship	**Check No (default)**
SNC	**Check Inactive (default)**

7. Choose *Save*.

3.5.1.5.2.5 Determining RFC Destinations for Method Calls in SAP S/4HANA Decentralized EWM System

Context

You use this procedure to determine remote function call (RFC) destinations in the SAP S/4HANA Decentralized EWM system used for method calls.

Procedure

1. Access the transaction using one of the following navigation options:

SAP EWM IMG menu	ABAP Platform → Application Server → IDoc Interface/Application Link Enabling (ALE) → Communication → Determine RFC Destinations for Method Calls
Transaction code	BD97

2. On the *Assign RFC Destinations for Synchronous Method Calls* screen, select the relevant SAP S/4HANA ERP logical system.
3. Choose the *Standard BAPI destination* button.
4. In the dialog box, in the *RFC destination for BAPI calls* field, enter the RFC destination of the SAP S/4HANA ERP system.

> Example
>
> **ERPCLNT001**

5. Choose *Continue* (Enter).
6. Choose *Save*.

3.5.1.5.2.6 Setting Up QOUT Scheduler

Context

You set up the scheduler for the outbound queue in EWM to enable automatic processing of messages in the outbound queues.

Procedure

1. In the SAP EWM system, start transaction SMQS.
2. Choose *Registration*.
3. Make the following entries:

Parameter	Value
Destination	**<SAP S/4HANA RFC Destination>** Example ERPCLNT001
Max. Conn.	**10**
Max. Runtime	**60**
W/o tRFC	**Leave empty (default)**
Scheduler Monitoring	**0**

4. Choose *Continue* (Enter).
5. Choose *Registration*.
6. Make the following entries:

Parameter	Value
Destination	**NONE**
Max. Conn.	**10**
Max. Runtime	**60**
W/o tRFC	**Leave empty (default)**

Parameter	Value
Scheduler Monitoring	**0**

7. Choose *Continue* (Enter).

3.5.1.5.2.7 Setting Up QIN Scheduler

Context

You set up the scheduler for inbound queues in the SAP EWM system to enable automatic processing of messages in inbound queues.

Procedure

1. In the EWM system, start transaction SMQR.
2. Choose *Registration*.
3. Create the following values:

Parameter	Value
Queue name	*
Mode	D
Max. Runtime	60
Destination	Leave empty (default)
Attempts	30
Pause	300
Scheduler Monitoring	0

4. Choose *Continue* (Enter).

3.5.1.5.2.8 Setting Up qRFC Administration for CIF Queue Display

Context

You use this procedure to register display programs for the application log in Extended Warehouse Management (EWM).

Procedure

1. In the SAP EWM system, start transaction SMQE.
2. Choose *Edit* > *Register Display Program*.
3. Register the program:

Queue Name	Program Name
*CF**	/SAPAPO/CIF_QUEUE_EVENT3

4. Choose *Continue* (Enter).
5. Repeat steps 2 - 4 for the following queue names:

Queue Name	Program Name
*DLV**	/SCWM/QRFC_APPL_LOG_DISPLAY
*DLW**	/SCWM/QRFC_APPL_LOG_DISPLAY
*EWM**	/SCWM/QRFC_APPL_LOG_DISPLAY
*PR**	/SCWM/QRFC_DISP_QIN_LOG_PROD
*QI**	QIE_RFC_DISPLAY_QUEUE_LOG
*QM**	QIE_RFC_DISPLAY_QUEUE_LOG
*WM**	/SCWM/QRFC_APPL_LOG_DISPLAY
*X**	RSXMB_SHOW_ENTRY

3.5.1.5.2.9 Maintaining Business System Group in SAP S/4HANA Decentralized EWM System

Context

You use this procedure to maintain business system groups (BSGs).

The business system group is maintained in product master when it is replicated from the SAP S/4HANA Cloud system.

Procedure

1. Access the transaction using one of the following navigation options:

SAP EWM IMG menu	SCM Extended Warehouse Management → SCM Basis → Integration → Basic Settings for Creating the System Landscape → Maintain Business System Group
Transaction code	SPRO

2. On the *Change View "Business System Group": Overview* screen, choose *New Entries*.
3. Enter the name of the business system group for the SAP S/4HANA ERP system:

Option	Description
BusSystGrp	<ERP_BG1>
Description	<ERP_BG1>

4. Choose *Save*.

3.5.1.5.2.10 Defining Business System

Context

You use this procedure to name the business system and all systems that are part of the system landscape.

Procedure

1. Access the transaction using one of the following navigation options:

SAP EWM IMG menu	SCM Extended Warehouse Management → Extended Warehouse Management → Interfaces → ERP Integration → General Settings → Define Business System
Transaction code	`/SCWM/60000087`

2. On the *Change View "Buffer for SLD Data of Business Systems": Overview* screen, create a new entry for each system that is part of your system landscape.

   For example, choose the *New Entries* button for each of the following values:

Business System	Logical System	Manual Maint.
`<System ID>_<Client Number>` For example **`ERP_001`**	`<SAP S/4HANA ERP Logical System>` For example **`ERPCLNT001`**	**`X`** Flag set. (event raised)
`<System ID>_<Client Number>` For example **`EWM_001`**	`<SAP S/4HANA ERP Logical System>` For example **`EWMCLNT001`**	**`X`** Flag set. (event raised)

3. Choose *Save*.

3.5.1.5.2.11 Defining Own Business System

Context

You use this procedure to name the business system of the system in which you have installed SAP EWM.

Procedure

1. Access the transaction using one of the following navigation options:

SAP EWM IMG menu	SCM Extended Warehouse Management → Extended Warehouse Management → Interfaces → ERP Integration → General Settings → Define Own Business System
Transaction code	`/SCWM/47000132`

2. On the *Change View "Name of Own Business System": Overview* screen, choose *New Entries*.

3. On the *New Entries: Overview of Added Entries* screen, enter the name of your own business system. (for example, **EWM_001**)

> **i** Note
>
> Naming convention: <EWM System ID>_<Client Number>

4. Choose *Save*.

3.5.1.5.2.12 Assigning Logical System and Queue Type

Context

You use this procedure to assign the logical system and queue types to a business system group (BSG).

Procedure

1. Access the transaction using one of the following navigation options:

SAP EWM IMG menu	SCM Extended Warehouse Management → SCM Basis → Integration → Basic Settings for Creating the System Landscape → Assign Logical System and Queue Type
Transaction code	S_AP3_40000009

2. On the *Change View "Assignment of Logical System to Business System Group": Overview* screen, choose *New Entries*.
3. On the New Entries: Overview of Added Entries screen, make the following entries:

> **⚠** Caution
>
> For attributes not mentioned in table below, keep the default values.

Business System Group	Logical System	SAP Ind.	Release	Queue Type
<ERP_BG1>	<SAP EWM Logical System>		**70**	**I Inbound Queues**
<ERP_BG1>	<SAP S/4HANA Logical System>	**X**	**700**	**I Inbound Queues**

4. Choose *Save*.

3.5.1.5.2.13 Control for RFC Queue

Use

You use this procedure to define outbound communication.

Procedure

1. Access the transaction using one of the following navigation options:

SAP ERP IMG menu	SCM Extended Warehouse Management → Extended Warehouse Management → Interfaces → ERP Integration → General Settings → Control for RFC Queue
Transaction code	SPRO

2. On the *Change View "qRFC Configuration for Communication ERP <=> EWM": Overview* screen, choose *New Entries*.
3. On the *New Entries: Details of Added Entries* screen, make the following entries:

Field Name	User Action and Values	Comment
Business System	**<Bus. System name>**, for example, **ERP_001**	Use the business system defined for your SAP S/4HANA ERP System.
Queue Type	**I Inbound Queues**	
Aggr. Single Queues	**No Aggregation**	
Mass Queue Act.	**Mass Queue Deactivated (=> Individual Queue)**	
Parallel Mass Queues	Leave empty	

4. Choose *Save*.

3.5.1.5.2.14 Enabling Decentralized EWM

Context

In this Customizing activity, you enable EWM to run as a decentralized client on an SAP S/4HANA stack.

Procedure

1. Access the transaction using one of the following navigation options:

Option	Description
IMG Menu **(SAP EWM System)**	SCM Extended Warehouse Management → Extended Warehouse Management → Enable Decentralized EWM
Transaction Code	SPRO

2. On the *Change View "Decentralized EWM": Details* screen, make the following entries:

Field Name	User Action and Values	Comment
EWM is Decentralized	*X*	

3. Confirm the information for the change.
4. Choose *Save*.

3.5.1.5.2.15 Setting Control Parameters for ERP Version Control

Context

Procedure

1. Access the transaction using one of the following navigation options:

SAP EWM IMG menu	SCM Extended Warehouse Management → Extended Warehouse Management → Interfaces → ERP Integration → ERP Integration for Decentralized EWM → Set Control Parameters for ERP Version Control
Transaction code	`/SCWM/41000077`

2. On the *Change View "Recipient-Dependent Control of Processes": Details* screen, choose *New Entries*.
3. On the *New Entries: Details of Added Entries* screen, enter:

Field name	User action and values	Comment
Business System	**<EWM_001>**	Input help: `<Business System of SAP S/4HANA Decentralized EWM System >`
SAP Release	**S4_OP_100**	

4. Leave the default value for all other settings.
5. Choose *Save*.

3.5.1.5.2.16 Creating Model 000 and Version 000

Context

You must create a model and a planning version for master data administration. All EWM business scenarios that run on SAP S/4HANA decentral require the model 000 and planning version 000.

Procedure

1. Access the transaction using one of the following navigation options:

SAP menu	Logistics → Advanced Planning → Master Data → Planning Version Management → Model and Version Management
Transaction code	`/SAPAPO/MVM`

2. On the *Model/Planning Version Management* screen, check if the model 000 exists.
3. If model 000 does not exist, create it as follows:
   a. Choose *Create Model/Planning Version → Model*.
   b. On the *Model/Planning Version Management: Create Model* screen, create a model with the technical name 000 and without a description.
   c. Choose *Save* and go back.

4. On the *Model/Planning Version Management: Display Model Data* screen, choose the model 000.
5. Check if the planning version 000 exists for this model.
6. If the planning version 000 does not exist, create it as follows:
   a. Choose *Create Model/Planning Version → Planning Version*.
   b. Create a planning version with the technical name 000 and description **`Active Version`**.
   c. Choose *Create and Save*.

3.5.1.6 Pre-Activation Settings for Contract Accounting and Convergent Invoicing

Certain settings for Contract Accounting and Convergent Invoicing must be created **before content activation**.

Prerequisites

You have selected the relevant scope items and activated the required Enterprise Business Functions FICAC_CI and FICAC_CORE [page 7].

> ⚠ Caution
>
> Note that these configuration settings only take effect in the current system and they are not transportable. You have to repeat the steps in each system in which you want to use the SAP Best Practices content. You have to implement these steps **before** content activation or import of transports from the DEV system.

Settings for **Contract Accounting**	• Activate Application Area [page 108]

Settings for **Convergent Invoicing**	You have the following options:
	• Guidance procedure using report `FCI_FICA_C_SETUP` via transaction `SE38`. Check the report documentation in the system by clicking the Information button for further instructions.
	• Manual procedure described in the following chapters (which you can also use in case you run into issues with the guided procedure):
	  • Creating Billable Item Class [page 109]
	  • Creating Consumption Item Class [page 113]
	  • Transferring Application Form from Client 000 [page 115]

3.5.1.6.1 Activate Application Area

In this step, you check whether application area C (Convergent FI-CA) is set to active. You create this setting if it has not been created yet.

1. Access the transaction using one of the following navigation options:

Transaction code	`S_KK4_74002391`
IMG menu	Transaction SPRO: *Financial Accounting* > *Contract Accounts Receivable and Payable* > *Basic Functions* > *Application Area*

2. On the *Application Area in Contract Accounts Receivable and Payable* screen, switch to change mode.
3. Choose *New Entries*.
4. In the table, create the following entries and save your settings.

Appl. Area	Active
C	X

3.5.1.6.2 Creating Billable Item Class

Step 1: Create Billable Item Classes

1. Access the transaction using one of the following navigation options:

Transaction code	`FKKBIXBIT_CONF`
IMG menu	Transaction SPRO: *Financial Accounting (New)* > *Contract Accounts Receivable and Payable* > *Convergent Invoicing* > *Basic Functions* > *Billable Items* > *Billable Item Classes* > *Maintain Billable Item Classes*

2. On the *Display Billable Item Classes* screen, switch to change mode.
3. On the *Maintain Billable Item Classes* screen, choose *New Class*.
4. In the dialog box *Create a New Billable Item Class*, enter the following entries and save your settings.

Billable Item Class	Name
CSAP	CSAP

5. On the *Create Billable Item Class* screen, choose *Save*. If a dialog comes up asking for a package, enter a local package.

Step 2: Choose Interface Components for Billable Item Classes

1. On the *Maintain Billable Item Classes* screen, select the billable item class **CSAP** you have created and choose *Selected entries*.
2. On the *Change Billable Item Class* screen, choose *Interface*.
3. In the *Choose Interface Components* window, set the interface components active as below:

Billable Item Class	Interface Component
CSAP	Basic Data for Billing
	Receivables/Payables (Reduced Interface)
	Receivables/Payables (Extended Interface)
	Assignment of External/Internal Acct Assignment
	External Reference of Billable Item (32 Characters)
	External Master Data References
	Contract Reference
	Tax Location - Tax Jurisdiction Code
	Usage Period
	Billing Quantity
	Reversal Item for Billable Item
	Link with Corrected Source Transaction
	Basic Data for Payment Processing
	Card Payment
	Payment Card Data
	Payment Service Providers
	Tax Data Determined Externally
	Service Types for Revenue Account Assignment
	Accrual/Deferral Postings - Individual Procedure
	Integration with Revenue Accounting
	External Provider Contract Reference
	Basic Data for Discount/Charge Calculation

Billable Item Class	Interface Component
	Offsetting in Invoicing
	Link with Consumption Items
	Consumption Item ID
	Primary Item for Dependent Items Basic Data
	General Data for Created Dependent Items
	Primary Items
	Secondary Items
	Allowance
	Text of Main Billable Item (50 Characters)
	Attachment Items
	Recording of Transferred Data Packages
	Data Analysis
	Billing Request
	Basic Data for Cost Processing
	Enhancements (Main Items)
	Extensions (Attachment Items)

4. Save your entries.
5. On the *Change Billable Item Class* screen, choose *Save*.

Step 3: Activate Configuration for Billable Item Classes

1. Select the created billable item class CSAP and choose *Activate Configuration*. If a dialog comes up asking for a package, enter a local package.
2. Confirm the information dialog boxes.

Step 4: Generating Interfaces for Billable Item Classes

1. Access the transaction using one of the following navigation options:

Transaction code	FKKBIXBIT_GEN
IMG menu	Transaction SPRO: *Financial Accounting (New)* > *Contract Accounts Receivable and Payable* > *Convergent Invoicing* > *Basic Functions* > *Billable Items* > *Billable Item Classes* > *Generate Interfaces for Billable Item Classes*

2. On the *Generate Interfaces for Billable Item Classes* screen, select the following non-generated class CSAP and choose *Generate*.
3. After generation, a window *Generation of Results* appears. Confirm with Enter.
4. Check the generation status of the database views in transaction FKKBIXBIT_VIEW_GEN.
   You need to regenerate interfaces for any views with status Regeneration Required. First regenerate the class-specific views, then continue with the common views. For this, select the relevant views and choose *Generate*.

Step 5: Generating Maintenance Dialogs for Billable Item Classes

1. Access the transaction using one of the following navigation options:

Transaction code	FKKBIXBIT_DIA_GEN
IMG menu	Transaction SPRO: *Financial Accounting (New)* > *Contract Accounts Receivable and Payable* > *Convergent Invoicing* > *Basic Functions* > *Billable Items* > *Billable Item Classes* > *Generate Maintenance Dialogs for Billable Item Classes*

2. On the *Generate Maintenance Dialogs for Billable Item Classes* screen, in *Billable Item Class* field, enter the billable item class **CSAP**.
3. Choose *Generate*.
4. Choose *Yes* to confirm in the screen that appears.
5. After generation, a window *Generation of Results*appears. Confirm with *Continue (Enter)*.

3.5.1.6.3 Creating Consumption Item Class

Step 1: Creating Consumption Item Classes

1. Access the transaction using one of the following navigation options:

Transaction code	FKKBIXCIT_CONF
IMG menu	Transaction SPRO: *Financial Accounting (New)* > *Contract Accounts Receivable and Payable* > *Convergent Invoicing* > *Basic Functions* > *Consumption Items* > *Consumption Item Classes* > *Maintain Consumption Item Classes*

2. On the *Maintain Consumption Item Classes* screen, choose *New Class*.
3. On the *Creation of New Consumption Item Class* screen, create the following settings and save your settings.

Consumpt. Item Class	Name
CSAP	CSAP

4. On the *Create Consumption Item Class* screen, choose *Save*.
5. Choose *Exit*.

Step 2: Choose Interface Components for Consumption Item Classes

1. On the *Maintain Consumption Item Classes* screen, select the class **CSAP** and choose *Selected entries*.
2. On the *Change Consumption Item Class screen*, choose *Interface*.
3. In the *Choose Interface Components* dialog box, activate the following interface components and save your settings:

Active	Interface Component
X	Basic Data for Consumption Items
X	Consumption Item Type
X	Consumption Item Label
X	Service Types
X	Amount of Consumption Item

Active	Interface Component
X	Usage Period
X	Secondary Item
X	Quantity Consumed
X	Recording of Transferred Data Packages
X	Data Analysis

4. On the *Change Consumption Item Class* screen, choose *Save*.

Step 3: Activate Configuration for Consumption Item Classes

1. Select the class **CSAP** you have created and choose *Activate Configuration*. If a dialog comes up asking for a package, enter a local package.
2. Confirm the information dialog boxes.

Step 4: Generate Interfaces for Consumption Item Classes

1. Access the transaction using one of the following navigation options:

Transaction code	FKKBIXCIT_GEN
IMG menu	Transaction SPRO: *Financial Accounting (New)* > *Contract Accounts Receivable and Payable* > *Convergent Invoicing* > *Basic Functions* > *Consumption Items* > *Consumption Item Classes* > *Generate Interfaces for Consumption Item Classes*

2. On the *Generate Interfaces for Consumption Item Classes* screen, select the following non-generated consumption item class **CSAP** and choose *Generate*.
3. After generation, a window *Generation of Results* appears. Confirm with Enter.
4. Check the generation status of the database views in transaction FKKBIXCIT_VIEW_GEN.
   You need to regenerate interfaces for any views with status Regeneration Required. First regenerate the class-specific views, then continue with the common views. For this, select the relevant views and choose *Generate*.

Step 5: Generate Maintenance Dialogs for Consumption Item Classes

1. Access the transaction using one of the following navigation options:

Transaction code	FKKBIXCIT_DIA_GEN
IMG menu	Transaction SPRO: *Financial Accounting (New)* > *Contract Accounts Receivable and Payable* > *Convergent Invoicing* > *Basic Functions* > *Consumption Items* > *Consumption Item Classes* > *Generate Maintenance Dialogs for Consumption Item Classes*

2. On the *Generate Maintenance Dialogs for Consumption Item Classes* screen, in *Consumption Item Class* field, enter the consumption item class **CSAP**.
3. Choose *Generate*.
4. Choose *Yes* to confirm in the screen that appears.
5. After generation, a window *Generation of Results* appears. Confirm with *Enter*.

3.5.1.6.4 Transferring Application Form from Client 000

1. Access the transaction using one of the following navigation options:

Transaction code	EFRM
IMG menu	Transaction SPRO: *Cross-Application Components* > *General Application Functions* > *Print Workbench* > *Define Application Forms*

2. On the *Maintain Application Form: Initial Screen* screen, choose the menu path *Utilities* > *Create Link to Other Client*.
3. Create the following settings:
   - *Client*: **000** (source client from which the application form is transferred)
   - *Application Form*: **IS_T_BILL_PDF** (application form that you want to transfer)
4. Choose *Transfer*.

3.5.2 Changing SAP Best Practices Content

In the following situations you may need to make changes to the delivered SAP Best Practices content:

- Issues during the content activation that require manual intervention
- Errors that require adapting the active content after the activation

Related Information

Solving Errors During Activation of Automated Tasks [page 116]
Adapting SAP Best Practices Content After Activation [page 118]

3.5.2.1 Solving Errors During Activation of Automated Tasks

Context

If the activation of an automated task runs into errors, the activation stops at the point of the error. No further implementation can be done until the error is resolved.

You can try to execute the configuration activity manually by generating the configuration information and creating the settings described there for the activity (see Generating Configuration Information [page 62]). Open a new session and access the Customizing activity directly in transaction SPRO. Make sure you have sufficient authorization in the back-end system.

> **i Note**
>
> Do not proceed with the activation if you cannot resolve the errors as described in the procedure below. If you proceed with errors and complete the activation, SAP will not support you in resolving the errors when you raise an incident. In this case, you may have to create a new client to start the activation of the solution all over again.

Procedure

1. On the *Implementation Assistant – Solution View* screen, select a task that has a red light in the *Current status* column.
2. Expand the task and choose the log that is assigned to this task. Detailed information about the error is displayed in the *Error List* pane.
3. In the *Error List* pane, choose *Display Detailed Log*. The detailed log information about an eCATT or BC set activation is displayed.
4. In the information log, check entries with a red light to identify the reason for the error.

   If the error can be solved based on the log information, run the eCATT or BC set again.

   > **i Note**
   >
   > If the activation fails because of locked objects, ensure that no objects are locked by any users and try to activate the activity again.

> **i Note**
>
> In the case of eCATT issues, perform the activation by switching the eCATT to run in foreground mode.

5. If the log information is insufficient to solve the problem, proceed as follows:

   Execute the task manually: Carry out the settings as listed in the generated config information to execute the task.

   If executing the task manually also fails, create a customer message for this problem and choose one of the following components:

   - SV-CLD-ANA: S4H Best Practices for Analytics
   - SV-CLD-CON: S4H Best Practices for System Conversion
   - SV-CLD-FRM: Implementation Framework
   - SV-CLD-LOC: S4H Best Practices Localizations
   - SV-CLD-SCRM: S4H Best Practices for CRM
   - SV-CLD-SFIN: S4H Best Practices for Finance
   - SV-CLD-SINT: S4H Best Practices for Integration
   - SV-CLD-SLOG: S4H Best Practices for Logistics
   - SV-CLD-SPRO: S4H Best Practices for Project Services
   - SV-CLD-SSC: Self-Service Configuration UIs
   - SV-CLD-UX: S4H Best Practices for User Experience
   - SV-CLD-ACT: S4H Best Practices – Generic Content Activation

   > **⚠ Caution**
   >
   > Do **not delete activated scope items**. If you delete activated scope items, the activation history and the corresponding logs are lost. It is then impossible to find the root cause of possible errors with reasonable efforts.
   >
   > In such cases, **no SAP support can be provided**.

6. Choose *Display*.
7. When you have solved the problem (either you have executed the task manually, or a solution has been provided via customer message), choose the *Change* button (in the *Old Status* column to the right of the task).

   > **⚠ Caution**
   >
   > Do **not** proceed with installation if the problem has not been solved. If you continue without solving the problem, severe errors may occur in subsequent installation steps that cause incalculable efforts to fix.
   >
   > In such cases, **no SAP support can be provided**.

8. On the *Confirmation* dialog box, choose *OK* to manually change the status to *successful*.
9. On the *Information* dialog box, enter a reason for changing the status. Choose *Continue*.

   > **i Note**
   >
   > The information is saved in a log. To view details for a changed task, choose the red light in the *Original Status* column for that task. A dialog box displays the user who performed the change, the date of the change, and the reason for the change. Choose *Continue* to close the dialog box.

10. Choose *Activate* to continue with the installation.

3.5.2.2 Adapting SAP Best Practices Content After Activation

Context

Once the SAP Best Practices content has been activated, you can make changes in configuration activities:

- For activities of type *IMG activity*, you capture settings for the subobjects directly in the Customizing (transaction SPRO).
- For activities of type *eCATT* or *BC Set*, you modify records in the installation data in Solution Builder.

Procedure

1. On the *Implementation Assistant – Solution View* screen, identify the configuration activity where you want to make changes.
2. Choose *Building Block Builder*.
3. In the scope item list, choose *All Building Blocks* to display the list of building blocks.
4. In the building block list, choose *Find* to search for the configuration activity.

   The search results are highlighted. Double-click an occurrence to display the details of the configuration activity at the bottom of the screen.
5. Choose the *Solution-Specific* tab.
   - For activities of type *IMG activity*:
     1. The tab displays the subobjects belonging to this activity. Select the subobject that you want to change and choose *Customizing* to navigate directly to the related IMG activity.
     2. Make your changes in the IMG activity and save your entries.
     3. Assign your changes to a valid transport request.
   - For activities using an *eCATT* or *BC Set*:

     > **i Note**
     >
     > The SAP Best Practices content uses the following decimal notation:
     > - *Decimal Notation*: 1.234.567,89
     > - *Date Format*: DD.MM.YYYY
     >
     > When you modify installation data, you have to ensure that these parameters are configured for your user. This prevents that conversion exits inadvertently change the installation data.
     >
     > Verify your user settings in transaction SU3 and adjust them if necessary. After changing the user parameters, log off and log on again for the changed user parameters to take effect.

1. Choose *Installation Data*.
2. In the dialog box, select the *Maintain Variant* checkbox and choose *Save*.
   The *Installation Data Maintenance* dialog opens.
3. Adapt the records as required.
4. Save your entries.

6. Reactivate the complete configuration activity in **analysis mode**.

   The analysis mode is required because it is more comprehensive. It ensures that the reactivation also encompasses any other occurrence of the scope item / building block (especially if they are global) in other solutions.

   a. Choose *Goto* > *Implementation Assistant*.

   a. To switch on the test mode, enter **ANALYZE** in the command field and choose *Enter*.

   A system message confirms that the test mode is switched on.

   b. Select the configuration activity, and in the context menu, choose *Execute (Analysis mode)*.

   c. After the reactivation, switch off the analysis mode. Enter **ANALYZE** in the command field and choose *Enter*.

3.5.3 Handling Installation Errors During Activation

The following information helps you solve problems that might occur during the installation process.

> ⚠ Caution
>
> Before performing detailed error analysis and error processing as described below, proceed as follows.
>
> Activate your solution or the corresponding scope item in the Solution Builder Implementation Assistant again. If the error does not reoccur, no error processing is required and you can proceed with the installation.

3.5.3.1 Warnings in BC Set Logs

If an eCATT terminates with the status `red` (error), check the eCATT log with regard to the BC sets that have been activated by this eCATT.

If the eCATT log shows an error because the BC sets have been activated with warnings (use the BC set log to check this), ignore the eCATT error. If the BC set was activated successfully, set the installation status manually to `green`.

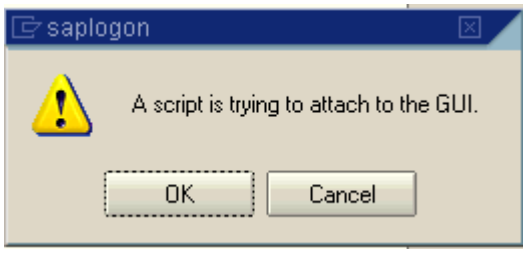
3.5.3.2 eCATT Error: "variable xyz does not exist"

If an eCATT terminates with the status `red` (error), check the eCATT log for the BC sets that have been activated by this eCATT.

Ignore the eCATT error message `variable xyz does not exist` if the BC sets have been successfully activated. To confirm that the BC sets have been successfully activated, use the BC set log. If the BC set was successfully activated, manually set the installation status to `green`.

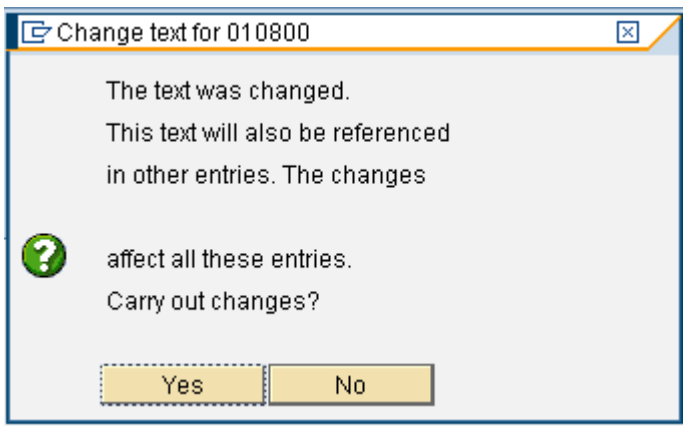
3.5.3.3 Dialog Box During Activation: "A script is trying to attach to the GUI"

If the system displays the dialog box `A script is trying to attach to the GUI` during the installation process with Solution Builder, choose *OK*.



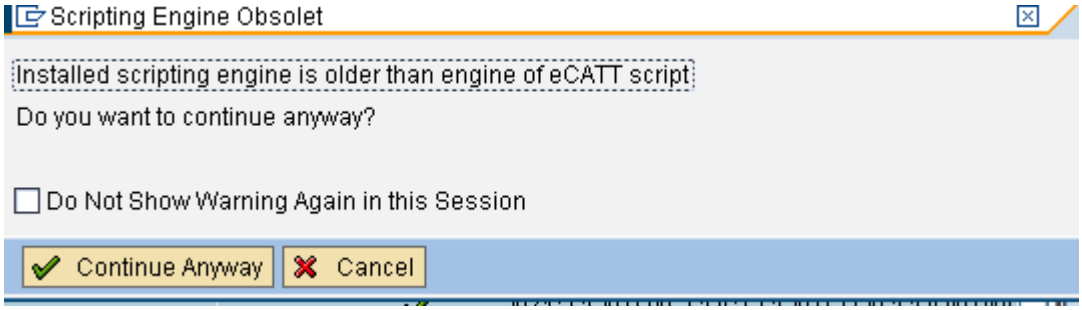
3.5.3.4 Dialog Box During Activation Asking to Confirm Text Changes

If the system displays the dialog box below during the activation process with Solution Builder, confirm the information dialog box with *Yes*.



3.5.3.5 Issue with SAP GUI

If you receive the error message *Installed scripting engine is older than engine of eCATT script* (see screenshot below), or if you receive the error message that the scripting engine is not installed, update your SAP GUI to solve this issue.



> ⚠ Caution
>
> Do not continue with the activation until you have updated your SAP GUI and installed the latest scripting engine. If you continue without updating, serious errors may occur.

3.5.3.6 Processing Scope Item Specific Errors

Building Block	Error Message	Error Resolution
BLG BR1	Error in eCATT `/SMB99/CHARACTERISTIC_0209_J01`: some or all variants terminate with status `red`	If the eCATT `/SMB99/CHARACTERISTIC_0209_J01` *Create Release Procedure Characteristics* shows an error (some of the eCATT variants have status `red`), restart the activation of the scope item in Solution Builder. During the second activation, the status of variants that ended with the status `red` during the first run is now `green`; however, the status of variants that ended with status `green` is now `red`. This is not an error. It only shows that the characteristics are already there. After the second activation, you can start transaction `CT04` and check if the following characteristics are available: • R2R_PURCH_GRP, • R2R_PURCH_ORD_TYPE, and • R2R_PURCH_ORD_VALUE If these characteristics exist, change the status of the eCATT activity to okay and proceed with the activation.

Building Block	Error Message	Error Resolution
BR1	Error in eCATT `/SMB99/CL20N_PO_0001_J01`: some or all variants terminate with status `red`	If the eCATT `/SMB99/CL20N_PO_0001_J01` *Define Release Procedure for Purchase Orders – Set Criteria* shows an error (some of the eCATT variants have status `red`), start the activation of the scope item in Solution Builder again. The error should no longer occur.
J52	Error generating table `KOMPAKE`, Message no. KE434; eCATT `/SMB15/KEA0_0042_J17`	If the eCATT `/SMB15/KEA0_0042_J17` *Activate Operating Concern* shows the message `Error generating table KOMPAKE, Message no. KE434. Diagnosis: An error occurred while Table KOMPAKE was being generated`, restart the activation of the scope item in Solution Builder. The error should no longer occur.

3.5.4 Carrying Out Post-Activation Configuration

Carry out the following activities after the content activation:

Table 4:

Activity	Affected Scope Items	More Information
Creating SAP NetWeaver Gateway settings	All scope items	Create settings as described in the following sections: Requests for Bank Accounts - Defining the Scenario [page 134] OData Service Registration for Enterprise Contract Management [page 135]
Setting up workflows in Sourcing and Procurement	All scope items using Sourcing & Procurement objects	To set up workflows for objects in Sourcing and Procurement processes, see the product assistance for flexible workflows.
Creating settings in the SAP S/4HANA backend system	All scope items	Create settings as described in the following topics: Workflow Basic Customizing [page 136] **Note** For workflows in Sourcing and Procurement, please see the product assistance for flexible workflows. Agent Assignment Attribute for PFTC_CHG Workflow [page 138] Setting Up Default Print Queues [page 138] Configuring the Web Service Runtime [page 139]

Activity	Affected Scope Items	More Information
Set up MBC connectivity for SAP S/4HANA	Advanced Cash Operations (J78) Bank Integration with SAP Multi-Bank Connectivity (16R)	Create the settings to manually set up the communication between the SAP S/4HANA system and the SAP Multi-Bank Connectivity tenant. For more information, refer to the Configuration Guide for Connector for SAP Multi-Bank Connectivity in the SAP Help Portal.
Setting up Automated Purchase-to-Pay with SAP Ariba Commerce Automation	J82 - Automated Purchase-to-Pay with SAP Ariba Commerce Automation	Create settings as described in the Set-up Instructions for scope item J82 For setting up workflows for Sourcing and Procurement objects, please see the product assistance for flexible workflows.
Set up SAP EWM Integration	<your_country>_1FS - Basic Warehouse Inbound Processing from Supplier <your_country>_1G2 - Basic Warehouse Outbound Processing to Customer <your_country>_1FU - Initial Stock Upload for Warehouse <your_country>_1FY - Replenishment in Warehouse <your_country>_1FW - Physical Inventory in Warehouse <your_country>_1G0 - Scrapping in Warehouse <your_country>_1V5 - Warehouse Inbound Processing from Supplier with Batch Management <your_country>_1V7 - Warehouse Outbound Processing to Customer with Batch Management <your_country>_1V9 - Basic Warehouse Inbound Processing from Supplier with Quality Management <your_country>_1VB - Production Integration - Component Consumption and Receipt in Warehouse <your_country>_1VD - Advanced Warehouse Outbound Processing to Customer	Carry out the Post-Activation Steps for Embedded EWM Scope Items [page 150].

Activity	Affected Scope Items	More Information
Make settings to secure your data and processes	All scope items	Security Settings in the SAP S/4HANA Front End System (SAP Gateway) [page 143] To get an overview of security-relevant information, refer to the SAP S/4HANA Security Guide.
Create user assistance settings	All scope items	Create the following settings to enable context-sensitive user assistance for SAP S/4HANA: *Installation Guide*, chapter *Configure Context-Sensitive User Assistance for SAP Fiori Launchpad* Configuring Settings in the Back End System for Context-Sensitive User Assistance [page 146]
Ensure that the client currency is customized to a useful value according to the client location	All scope items	The client currency should be customized to a value that corresponds either with your location or your currency that represents the majority of financial transactions. The customization of the client currency is for instance crucial for the feature of relevance ranking in *Manage Purchase Order*. For more details, refer to SAP Note 2426151.
Create approvers	All scope items	Creating Approvers [page 199]
Setting up Central Requisitioning	1XI - Central Requisitioning	Create settings as described in the Set-up Instructions for scope item 1XI For setting up workflows for Sourcing and Procurement objects, please see the product assistance for flexible workflows.
Setting up Requisitioning	18J - Requisitioning	Create settings as described in the Set-up Instructions for scope item 18J For setting up workflows for Sourcing and Procurement objects, please see the product assistance for flexible workflows.
Setting up Statistical Sales Conditions	34B - Statistical Sales Conditions	Create settings as described in the Set-up Instructions for scope item 34B.
Setting up Asset Accounting	J62 - Asset Accounting	Validate the system readiness as described in section 2.4.1 of the following test script: Go to Asset Accounting (J62) and choose *Test script*.
Setting up Asset Accounting - Group Ledger IFRS	1GB - Asset Accounting - Group Ledger IFRS	Go to Asset Accounting - Group Ledger IFRS (1GB) and choose *Test script*.

Activity	Affected Scope Items	More Information
Setting up Asset Under Construction	BFH - Asset Under Construction	Validate the system readiness as described in section 2.4.1 of the following test script: Go to Asset Under Construction (BFH) and choose *Test script*.
Setting up Asset Under Construction - Group Ledger IFRS	1GF - Asset Under Construction - Group Ledger IFRS	Go to Asset Under Construction - Group Ledger IFRS (1GF) and choose *Test script*.
Setting up Cash Application Integration	1MV - Cash Application Integration	Create settings as described in the Set-up Instructions for scope item 1MV
Setting up Restricted Party Screening with SAP Watch List Screening	1WE - Restricted Party Screening with SAP Watch List Screening	Create settings as described in the Set-up Instructions for scope item 1WE
Setting up Requirements Driven Development	2G4 - Requirements Driven Development	Create settings as described in the Set-up Instructions for scope item 2G4
Setting up Central Purchase Contracts	2ME - Central Purchase Contracts	Set-up Instructions for scope item 2ME For setting up workflows for Sourcing and Procurement objects, please see the product assistance for flexible workflows.
Setting up Continuous Control Monitoring with SAP Process Control	2OH - Continuous Control Monitoring with SAP Process Control	Create settings as described in the Set-up Instructions for scope item 2OH
Setting up Key Risk Indicator Monitoring with SAP Risk Management	2U2 - Key Risk Indicator Monitoring with SAP Risk Management	Create settings as described in the Set-up Instructions for scope item 2U2
Setting up Classification for Customs Tariff Number and Commodity Code	2U3 - Classification for Customs Tariff Number and Commodity Code	Create settings as described in the Set-up Instructions for scope item 2U3
Setting up Handover of Product Information to SAP Asset Intelligence Network	2WK - Handover of Product Information to SAP Asset Intelligence Network	Create settings as described in the Set-up Instructions for scope item 2WK

Activity	Affected Scope Items	More Information
Setting up Central Purchasing	2XT - Central Purchasing	Set-up Instructions for scope item (2XT) For setting up workflows for Sourcing and Procurement objects, please see the product assistance for flexible workflows.
Setting up Intelligent Content Processing for Document Classification	2YC - Intelligent Content Processing for Document Classification	Create settings as described in the Set-up Instructions for scope item 2YC
Setting up Group Reporting - Data from External Systems	2U6 - Group Reporting - Data from External Systems	Create settings as described in the Set-up Instructions for scope item 2U6
Setting up External Workforce Procurement via SAP Fieldglass	22K - External Workforce Procurement via SAP Fieldglass	Set-up Instructions for scope item 22K For setting up workflows for Sourcing and Procurement objects, please see the product assistance for flexible workflows.
Setting up Treasury Workstation Cash Integration	34P - Treasury Workstation Cash Integration	Create settings as described in the Set-up Instructions for scope item 34P
Setting up Legal Control	1W8 - Legal Control	Create settings as described in the Set-up Instructions for scope item 1W8
Setting up Transfer of Primary Master Data for SAP Global Trade Services	1WA - Transfer of Primary Master Data for SAP Global Trade Services	Create settings as described in the Set-up Instructions for scope item 1WA
Setting up Transfer of Contact Person for SAP Global Trade Services	24F - Transfer of Contact Person for SAP Global Trade Services	Create settings as described in the Set-up Instructions for scope item 24F
Setting up Preference Management with SAP Global Trade Services	3JX - Preference Management with SAP Global Trade Services	Create settings as described in the Set-up Instructions for scope item 3JX
Setting up Customs Management with SAP Global Trade Services	2U1 - Customs Management with SAP Global Trade Services	Create settings as described in the Set-up Instructions for scope item 2U1

Activity	Affected Scope Items	More Information
Setting up Transfer of Bill of Materials for SAP Global Trade Services	24H - Transfer of Bill of Materials for SAP Global Trade Services	Create settings as described in the Set-up Instructions for scope item 24H
Setting up Compliance Management with SAP Global Trade Services	24J - Compliance Management with SAP Global Trade Services	Create settings as described in the Set-up Instructions for scope item 24J
Setting up Intercompany Reconciliation Process	40Y - Intercompany Reconciliation Process	Create settings as described in the Set-up Instructions for scope item 40Y
Setting up Order-Based Transportation Consolidation – Outbound	3EP - Order-Based Transportation Consolidation – Outbound	See the following sections in the SAP S/4HANA 2022 product assistance: • Billing of Freight Costs - Integration with Transportation Management • Billing the Freight Cost in TM to a Customer in SD • Internal TM Component Integration
Setting up Product Structure Template Management	35Q - Product Structure Template Management	Create settings as described in the Set-up Instructions for scope item 35Q
Setting up Integration to SAP Enterprise Contract Assembly	2OQ - Integration to SAP Enterprise Contract Assembly	Create settings as described in the Set-up Instructions for scope item 2OQ
Setting up Central Sourcing	3ZF - Central Sourcing	Create settings as described in the Set-up Instructions for scope item 3ZF For setting up workflows for Sourcing and Procurement objects, please see the product assistance for flexible workflows.
Setting up Liquidity Planning	3L5 - Liquidity Planning	Create settings as described in the Set-up Instructions for scope item 3L5
Setting up Production Operations with SAP Manufacturing Execution	2JN - Production Operations with SAP Manufacturing Execution	Create settings as described in the Set-up Instructions for scope item 2JN

Activity	Affected Scope Items	More Information
Setting up Group Reporting - Data from SAP Group Reporting Data Collection	287 - Group Reporting - Data from SAP Group Reporting Data Collection	Create settings as described in the Administration Guide for SAP Group Reporting Data Collection - Integration with an On-Premise System
Setting up Production Operations with Manufacturing Execution System	1Y5 - Production Operations with Manufacturing Execution System	Create settings as described in the Set-up Instructions for scope item 1Y5
Setting up SAP S/4HANA for Enterprise Contract Management	1XV - SAP S/4HANA for Enterprise Contract Management	Create settings as described in the Set-up Instructions for scope item 1XV
Setting up Compliance Formats - Support Preparation	1J2 - Compliance Formats - Support Preparation	Create settings as described in the Set-up Instructions for scope item 1J2
	3F7 - Joint Venture Accounting	This scope item requires a high amount of manual configuration. For this reason we recommend involving expert consultants for Joint Venture Accounting in the project. Comprehensive testing is required before Go-Live with a Joint Venture Accounting solution.
Setting up Output Management	1LQ - Output Management	Create settings as described in the Set-up Instructions for scope item 1LQ
Setting up Just-In-Time Supply to Customer	2EM - Just-In-Time Supply to Customer	Create settings as described in the Set-up Instructions for scope item 2EM
Setting up Situation Handling	31N - Situation Handling	Create settings as described in the Set-up Instructions for scope item 31N
Setting up Scheduling Agreements in Procurement	BMR - Scheduling Agreements in Procurement	Create settings as described in the Set-up Instructions for scope item BMR
Setting up Integration with External Tax Calculation Engines	43D - Integration with External Tax Calculation Engines	Create settings as described in the Set-up Instructions for scope item 43D
Setting up Service Contract Management	426 - Service Contract Management	Create settings as described in the Set-up Instructions for scope item 426

Activity	Affected Scope Items	More Information
Setting up Interaction Center Service Request Management	41W - Interaction Center Service Request Management	Create settings as described in the Set-up Instructions for scope item 41W
Setting up Service Order Management	41Z - Service Order Management	Create settings as described in the Set-up Instructions for scope item 41Z
Setting up Presales Management	41V - Presales Management	Create settings as described in the Set-up Instructions for scope item 41V
Setting up SAP Central Invoice Management Backend Enablement	4N6 - SAP Central Invoice Management Backend Enablement	Create settings as described in the Set-up Instructions for scope item 4N6
Setting up Guided Buying for Central Procurement with SAP Ariba Buying	3EN - Guided Buying for Central Procurement with SAP Ariba Buying	Create settings as described in the Set-up Instructions for scope item 3EN
Setting up Guided Buying Capability with SAP Ariba Buying	2NV - Guided Buying Capability with SAP Ariba Buying	Create settings as described in the Set-up Instructions for scope item 2NV
Setting up Procurement of Services	22Z - Procurement of Services	Create settings as described in the Set-up Instructions for scope item 22Z
Setting up Privacy Risk Detection with SAP Privacy Governance	3KX - Privacy Risk Detection with SAP Privacy Governance	Create settings as described in the Set-up Instructions for scope item 3KX
Setting up Financial Operation Monitoring with SAP Financial Compliance	3KY - Financial Operation Monitoring with SAP Financial Compliance	Create settings as described in the Set-up Instructions for scope item 3KY
Setting up Sales Scheduling Agreements	3NR - Sales Scheduling Agreements	Create settings as described in the Set-up Instructions for scope item 3NR
Setting up Automation of Source-to-Pay with Ariba Network	42K - Automation of Source-to-Pay with Ariba Network	Create settings as described in the Set-up Instructions for scope item 42K

Activity	Affected Scope Items	More Information
Setting up Contract Management with SAP Ariba Contracts	4AZ - Contract Management with SAP Ariba Contracts	Create settings as described in the Set-up Instructions for scope item 4AZ
Setting up Contract for Central Procurement with SAP Ariba Contracts	4B0 - Contract for Central Procurement with SAP Ariba Contracts	Create settings as described in the Set-up Instructions for scope item 4B0
Setting up Sourcing with SAP Ariba Sourcing	4BL - Sourcing with SAP Ariba Sourcing	Create settings as described in the Set-up Instructions for scope item 4BL
Setting up Self-Billing	4H2 - Self-Billing	Create settings as described in the Set-up Instructions for scope item 4H2
Setting up Intelligent Intercompany Reconciliation	4LG - Intelligent Intercompany Reconciliation	Create settings as described in the Set-up Instructions for scope item 4LG
Setting up Enablement of SAP Excise Tax Management	4LO - Enablement of SAP Excise Tax Management	Create settings as described in the Set-up Instructions for scope item 4LO
Setting up Sales Scheduling Agreement with Consignment	4LZ - Sales Scheduling Agreement with Consignment	Create settings as described in the Set-up Instructions for scope item 4LZ
Setting up Advanced Payment Management	4MT - Advanced Payment Management	Create settings as described in the Set-up Instructions for scope item 4MT
Setting up Central Procurement with SAP Ariba Sourcing	4QN - Central Procurement with SAP Ariba Sourcing	Create settings as described in the Set-up Instructions for scope item 4QN
Setting up Integrated Financial Planning	4RC - Integrated Financial Planning	Create settings as described in the Set-up Instructions for scope item 4RC
Setting up Direct Material Sourcing	4RD - Direct Material Sourcing	Create settings as described in the Set-up Instructions for scope item 4RD
Setting up Recurring Services	4X5 - Recurring Services	Create settings as described in the Set-up Instructions for scope item 4X5

Activity	Affected Scope Items	More Information
Setting up Product Footprint Management	5IM - Product Footprint Management	Create settings as described in the Set-up Instructions for scope item 5IM
Setting up Automation of Central Procurement Quotes with Ariba Network	5JT - Automation of Central Procurement Quotes with Ariba Network	Create settings as described in the Set-up Instructions for scope item 5JT
Setting up Sales Contract Management	I9I - Sales Contract Management	Create settings as described in the Set-up Instructions for scope item I9I
Setting up Create Sales Orders from Unstructured Data	4X9 - Create Sales Orders from Unstructured Data	Create settings as described in the Set-up Instructions for scope item 4X9
Setting up Automation of Order-to-Invoice with Ariba Network	4A1 - Automation of Order-to-Invoice with Ariba Network	Create settings as described in the Set-up Instructions for scope item 4A1
Setting up Service Procurement with Ariba Network and SAP Fieldglass	4R2 - Service Procurement with Ariba Network and SAP Fieldglass	Create settings as described in the Set-up Instructions for scope item 4R2
Setting up Delivery Insights enabled by IoT	4IH - Delivery Insights enabled by IoT	Create settings as described in the Set-up Instructions for scope item 4IH
Setting up B2B Order Fulfillment with SAP Commerce Cloud	2TY - B2B Order Fulfillment with SAP Commerce Cloud	Create settings as described in the Set-up Instructions for scope item 2TY that are attached to 3138513
Setting upResponsibility Management	1NJ-Responsibility Management	Create settings as described in theSet-up Instructions for scope item 1NJ
Setting upIntercompany Process for Debt and Investment Mgmt	1YI-Intercompany Process for Debt and Investment Mgmt	Create settings as described in theSet-up Instructions for scope item 1YI

Activity	Affected Scope Items	More Information
Setting upIntegration of Procurement with External Suppliers	2EJ-Integration of Procurement with External Suppliers	Create settings as described in theSet-up Instructions for scope item 2EJ
Setting upIntegration of Sales with External Buyers	2EL-Integration of Sales with External Buyers	Create settings as described in theSet-up Instructions for scope item 2EL
Setting upIntercompany Foreign Exchange Management	2F2-Intercompany Foreign Exchange Management	Create settings as described in theSet-up Instructions for scope item 2F2
Setting upElectronic Documents	2RP-Electronic Documents	Create settings as described in theSet-up Instructions for scope item 2RP
Setting upIn-House Repair	3XK-In-House Repair	Create settings as described in theSet-up Instructions for scope item 3XK
Setting upField Logistics Planning and Execution	40G-Field Logistics Planning and Execution	Create settings as described in theSet-up Instructions for scope item 40G
Setting upField Logistics Planning and Execution – Supplier Items	4AH-Field Logistics Planning and Execution – Supplier Items	Create settings as described in theSet-up Instructions for scope item 4AH
Setting upSolution Quotation	4Q5-Solution Quotation	Create settings as described in theSet-up Instructions for scope item 4Q5
Setting upPreferred Supplier List	4RI-Preferred Supplier List	Create settings as described in theSet-up Instructions for scope item 4RI
Setting upSubscription Management with Sales Billing	57Z-Subscription Management with Sales Billing	Create settings as described in theSet-up Instructions for scope item 57Z
Setting upAdvanced Intercompany Sales	5D2-Advanced Intercompany Sales	Create settings as described in theSet-up Instructions for scope item 5D2
Setting upWarranty Claim Management - Supplier Recovery Processing	5HR-Warranty Claim Management - Supplier Recovery Processing	Create settings as described in theSet-up Instructions for scope item 5HR

Activity	Affected Scope Items	More Information
Setting upSubcontracting with Ariba Network	5I2-Subcontracting with Ariba Network	Create settings as described in theSet-up Instructions for scope item 5I2
Setting upSubscription Management with Convergent Invoicing	5IK-Subscription Management with Convergent Invoicing	Create settings as described in theSet-up Instructions for scope item 5IK
Setting upSell from Stock with Valuated Stock in Transit	5MQ-Sell from Stock with Valuated Stock in Transit	Create settings as described in theSet-up Instructions for scope item 5MQ
Setting upField Logistics Planning and Execution – Direct Procurement	5OM-Field Logistics Planning and Execution – Direct Procurement	Create settings as described in theSet-up Instructions for scope item 5OM
Setting upDigital Vehicle	5ON-Digital Vehicle	Create settings as described in theSet-up Instructions for scope item 5ON
Setting upEnable for Use and Contract Management	5VX-Enable for Use and Contract Management	Create settings as described in theSet-up Instructions for scope item 5VX
Setting upWarranty Claim Management - Customer Claim Processing	63Y-Warranty Claim Management - Customer Claim Processing	Create settings as described in theSet-up Instructions for scope item 63Y
Setting upMRP Change Request Integration with Ariba Network	65D-MRP Change Request Integration with Ariba Network	Create settings as described in theSet-up Instructions for scope item 65D
Setting upProcurement Planning Integration with Product Sourcing	6AJ-Procurement Planning Integration with Product Sourcing	Create settings as described in theSet-up Instructions for scope item 6AJ
Setting upContract Price Renegotiation	6AN-Contract Price Renegotiation	Create settings as described in theSet-up Instructions for scope item 6AN
Setting upCorrective Maintenance Service	6AU-Corrective Maintenance Service	Create settings as described in theSet-up Instructions for scope item 6AU

Activity	Affected Scope Items	More Information
Setting upField Logistics Planning and Execution - Containers and Voyages	6BA-Field Logistics Planning and Execution - Containers and Voyages	Create settings as described in theSet-up Instructions for scope item 6BA
Setting upPreventive Maintenance Service	6F1-Preventive Maintenance Service	Create settings as described in theSet-up Instructions for scope item 6F1
Setting upAutomated Purchase-to-Pay with SAP Ariba Commerce Automation	J82-Automated Purchase-to-Pay with SAP Ariba Commerce Automation	Create settings as described in theSet-up Instructions for scope item J82

3.5.4.1 Creating SAP Gateway Settings

Requests for Bank Accounts - Defining the Scenario [page 134]

OData Service Registration for Enterprise Contract Management [page 135]

3.5.4.1.1 Requests for Bank Accounts - Defining the Scenario

Context

Carry out the following procedure to define the scenario for SAP Gateway.

Procedure

1. Start transaction SPRO and choose *ABAP Platform* > *SAP Gateway Service Enablement* > *Content* > *Task Gateway* > *Task Gateway Service* > *Scenario Definition* .
2. On the *Change View "Scenario Definition": Overview* screen, choose *New Entries* and create the following settings:

Scenario Identifier	Scenario Display Name	Technical Service Name	Version	EntitySet External Name	Property External Name	Default Sort by Property
FCLM_BAM_APPR	Requests for Bank Accounts	/IWPGW/TASKPROCESSING	2	Task	TaskDefinitionID	CreatedOn

Leave all other fields blank.

3. Save your entries.
4. On the *View "Scenario Definition": Overview* screen, switch to *Change* mode and make the following settings:

SAP System Alias	Task Type
LOCAL_TGW	TS78500044_WS78500050_0000000010
LOCAL_TGW	TS78500046_WS78500050_0000000025

5. Save your entries.

3.5.4.1.2 OData Service Registration for Enterprise Contract Management

Procedure

1. Start the transaction *Activate and Maintain Services* by entering the transaction code **/IWFND/MAINT_SERVICE**.
2. On the *Activate and Maintain Services* screen, choose *Add Service*.
3. On the *Add Selected Services* screen, use the value help of the *System Alias* field to select the required back end system (S/4HANA).
4. On the *External Service Name* field, enter the following services related to Enterprise Contract Management one by one and choose *Add Selected Services*.
   - LCM_CATEGORY_MANAGE
   - LCM_CONTENT_REQUEST
   - LCM_CONTEXT_MANAGE_SRV
   - LCM_DOCUMENT_MANAGE
   - LCM_LEGALTR_MANAGE
   - LCM_OVP
5. In the *Add Service* pop up, choose *OK* and choose *Continue* in all the *Information* pop up that come up.
6. Go back to *Activate and Maintain Services* screen.

7. Using the *Filter* option, select the registered services for LCM and choose *Load Meta data*.
8. Choose *Continue* in the *Information* pop up.

3.5.4.2 Creating Settings in the SAP S/4HANA Back End System

3.5.4.2.1 Workflow Basic Customizing

Context

You use this function to carry out the activities necessary for executing the workflow and checking the current status of workflow customizing.

Start transaction `SWU3`.

Features

Automatic workflow Customizing consists of several areas:

- In the *Runtime* area, all activities necessary for the execution of workflows are executed.
- In the *Definition time* area, activities necessary for a smooth modeling of workflows are executed.
- In the *Maintain additional settings and services* area, you find activities that are needed to use specific functions of the workflow.
- The area *Classify tasks as general* has various sub-areas in which tasks of a function area can be set to general.

The activities that are automatically checked upon calling are displayed. The result of the check is displayed with a graphical symbol. The overall result of the check of an area is also assessed.

If an activity is shown as having errors, execute *Automatic Customizing*. To go directly to maintenance of the relevant activity, select *Execute*.

Prerequisites

The system user `SAP_WFRT` with authorization `SAP_ALL` and role `Z_RFC_ALL` (includes authorization `RFCACL`) must be available within the client.

Automatic Customizing

If this activity is automatically executed, the logical RFC destination `WORKFLOW_LOCAL_XXX` is created (if not yet available). This destination is assigned to the system user `SAP_WFRT`.

The activity creates a second logical RFC destination `WORKFLOW_EVENT_XXX`. This destination is used for the invocation of the registered business events and uses the same user.

If you want to restrict the authorization of the system user, proceed as follows:

1. Assign role `SAP_BC_BMT_WFM_SERV_USER_PLV01`.
   In user maintenance of the system user, remove the assignment to all roles and profiles and assign the single role `SAP_BC_BMT_WFM_SERV_USER_PLV01`.
2. Add application-specific authorizations.
   Also assign all application-specific authorizations to the system user that are required to execute your active workflows.
3. RFC destination of type *ABAP Connection* with name `WORKFLOW_REFERENCE_XXX`
   The destination of type *ABAP Connection* is used as reference entry in both logical RFC destinations and is configured for load balancing and trusted relationship.

Automatic Customizing covers all activities related to the **technical basic settings**. The following standard settings are made:

- Configuring a client-specific RFC destination
- Scheduling all background jobs for the workflow system
- Setting an active plan version
  If an active plan version has not yet been maintained, the active plan version is set to 01.
- Classifying SAP tasks and SAP workflows as general tasks
  The generic decision task (standard task for user decision) and other tasks that are used in the SAP workflows that are supplied are classified as “general tasks”. Some SAP workflows can also be classified as general.
- Maintaining a workflow system administrator
  If a workflow system administrator has not yet been maintained, your user name (the current `SY-UNAME`) is entered as the system administrator.

3.5.4.2.2 Agent Assignment Attribute for PFTC_CHG Workflow

Context

These steps are required for the FI workflow configuration.

Procedure

1. Start transaction **PFTC_CHG** .
2. On the *Task: Maintain* screen, make the following entries:

Field Name	User Action and Values
Task type	**Standard task**
Task	**50100025**

3. Choose *Change*.
   In the information dialog box, choose *Continue*.
4. On the *Standard Task: Change* screen, go to the menu bar and choose *Additional Data* > *Agent Assignment* > *Maintain* .
5. On the *Standard Task: Maintain Agent Assignment* screen, choose *Attributes*.
6. On the *Task: screen*, choose **General Task** and *Continue*.

   Repeat this procedure for the following task numbers : **50100026, 50100066, 50100075, 54500007**

3.5.4.2.3 Setting Up Default Print Queues

Context

For on-premise systems, only spool configuration is supported. For this reason, the default spool printer LP01 has to be assigned.

For more information, refer to the standard SAP Printing Guide.

3.5.4.2.4 Configuring the Web Service Runtime

Use

Configuring the Web Service Runtime is a prerequisite for Web Services with Web Services Reliable Messaging.

The configuration of the Web service runtime is client-specific and must be performed in each productive client and in client 000.

Prerequisites

You need the appropriate user administrator authorizations. For further information, refer to Setting Up User and Authorization Administrators.

Procedure

1. Start transaction **SA38** and execute the report **SRT_ADMIN** in each productive client and in client 000.
   Choose *Execute Technical Setup* and execute the report (F8).
   Using the report SRT_ADMIN, you create a service destination for communication through RFC and you perform the settings for the bgRFC (Background Remote Function Call) .
   SOAP requests are processed using the Internet Communication Framework (ICF). The SAP NetWeaver Application Server uses the HTTP protocol of the ICF for communication between the Web service consumer and the Web service provider. The ICF provides the infrastructure for handling HTTP requests in work processes in an SAP system. An HTTP request calls a service in the ICF server. This service contains one or more HTTP request handlers that are responsible for running the ABAP functions.
   Using report SRT_ADMIN, all ICF services required for standard functions of the Web service runtime are created.
   The log and trace levels can be selected using the report SRT_ADMIN or directly in the SOA Manager under *Logs and Traces* .
   Pay close attention to the guidelines in SAP Note 1110741.
   If there are any problems, you can also perform the configuration in single steps.
   - Create a service destination
   - Performing Settings for bgRFC

   Afterwards, you should check the configuration .

   > **i Note**
   >
   > The configuration can be reset using the function module SRT_TECHNICAL_SETUP_RESET. Pay close attention to the guidelines in SAP Note 163844.

2. Start the background request `SAP_SOAP_RUNTIME_MANAGEMENT` for component BC. Start transaction **SJOBREPO** to schedule a technical job. You must schedule the job hourly. For more information, refer to SAP Note 2190119.

3.5.4.2.5 Removing the Billing Block for Credit Memo Requests to Enable CMR Approval Workflow

Context

To enable the new SD approval workflow for Credit Memo Requests (CMR), you need to remove the billing block from the CMR.

Procedure

1. Start transaction SPRO and choose *Sales and Distribution* > *Sales* > *Sales Documents* > *Sales Document Header* > *Define Sales Document Types*.
2. On the *Change View "Maintain Sales Order Types": Overview* screen, double click the credit memo request type you want to change.
3. On the *Change View "Maintain Sales Order Types": Details* screen, remove *Y8* from the billing block.

3.5.4.2.6 Defining and Assigning Reasons for Approval Requests to Enable SD Approval Workflow

Context

To enable the SD approval workflow, you need to define and assign reasons for the approval request.

Procedure

1. Start transaction SPRO and choose *Sales and Distribution* > *Basic Functions* > *Document Approvals* > *Define Reasons for Approval Requests*.

2. On the *Change View "Define Reasons for Approval Requests": Overview* screen, choose *New Entries* and create the following settings:

Approval Request Reason ID	Approval Request Reason	External Workflow
ZOR1	**Document needs approval**	
ZQT1	**Document needs approval**	
ZCR1	**Document needs approval**	
ZRE1	**Return document needs approval**	

3. Save your entries.
4. In transaction SPRO, choose *Sales and Distribution* > *Basic Functions* > *Document Approvals* > *Assign Reasons for Approval Requests* .
5. On the *Change View "Assign Reasons for Approval Requests": Overview* screen, choose *New Entries* and create the following settings:

Document Category	Approval Request Reason	External Workflow
K	**ZCR1**	
C	**ZOR1**	
B	**ZQT1**	
H	**ZRE1**	

6. Save your entries.

3.5.4.2.7 Defining and Assigning Reasons for Approval Requests to Enable Preliminary Billing Document Workflow

Context

You enable the Preliminary Billing Document workflow by defining and assigning reasons for approval requests.

Procedure

1. Start transaction SPRO and choose *Sales and Distribution* > *Basic Functions* > *Document Approvals* > *Define Reasons for Approval Requests* .

2. On the *Change View "Define Reasons for Approval Requests": Overview* screen, choose *New Entries* and create the following settings:

Approval Request Reason ID	Approval Request Reason	External Workflow
ZPBD	**Preliminary Billing Document needs approval**	

3. Save your entries.
4. In transaction SPRO, choose *Sales and Distribution* > *Basic Functions* > *Document Approvals* > *Assign Reasons for Approval Requests*.
5. On the *Change View "Assign Reasons for Approval Requests": Overview* screen, choose *New Entries* and create the following settings:

Document Category	Approval Request Reason	External Workflow
PBD Preliminary Billing Document	**ZPBD**	

6. Save your entries.

3.5.4.2.8 Checking Time Zone Settings

This describes the procedure for checking and adjusting the system time zone settings if required.

Context

In the activation client, you have to check the system time zone in the customizing activity *ABAP Platform* > *General Settings* > *Time Zones* > *Maintain System Settings (transaction STZAC)*. This setting has to be consistent with the underlying server and database settings.

To check consistency, run the reports `RSDBTIME`, `TZCUSTHELP` and `TZCONCHECK` in the activation client. If error messages appear while running these reports, please pay close attention to the guidelines in SAP Note 198411 and apply the most recent time zone settings.

If the value of the system time zone is not consistent with your system environment, carry out the following procedure to ensure consistency across all your clients:

Procedure

1. Choose *Yes* in the pop-up `If you change the system time zone, it will affect all clients. Do you want to change it?`
2. Change the system time zone to the correct value.
3. Choose *Save*.

3.5.4.3 Security Settings in the SAP S/4HANA Front End System (SAP Gateway)

Basic Concepts

A VSI 2.0 compliant virus scanner needs to be installed and run in the front end system (SAP Gateway). At different stages in the processing (upload, download, passage through gateway, and so on), SAP S/4HANA applications call the scanner through a dedicated interface, which can be customized by the customer using scan profiles.

For details about virus scan profiles and customization, refer to Virus Scan Interface.

Additional information is available in the SAP Notes 786179 and 1494278.

The following is an example of the basic concepts in the area of file uploads.

Example: Virus Scanning in File Uploads

Uploaded files need to be scanned for malware. Their type needs to be verified against a list of allowed MIME types. These requirements are met by a VSI 2.0 compliant virus scanner that is installed and runs in the customer landscape. The pre-delivered scan profile **`/SCMS/KPRO_CREATE`** has to be adapted according to customer needs. At runtime, the virus scanner rejects the upload of documents that are not compliant with the rules specified in the scan profile. Be aware that changes to this profile have a wide reaching effect: All uploads (ending up in KPro) apply the same virus scan settings at runtime.

Once uploaded to the SAP S/4HANA system, such documents are displayed in SAP Fiori apps without further security-related checks. If a document contains malicious content, unintended actions could be triggered on the UI during download or display, which might lead to cross-site scripting vulnerabilities. For this reason, proper virus scanning during upload is an essential first line of defense against (stored) XSS attacks. For a technical description of this problem, see the SAP Process Integration Security Guide in the SAP Help Portal.

Several functionalities of the system allow uploading of files. Examples may include:

- attachments to business documents
- template files that are used to render data on the UI (for example, e-mail HTML templates)

General Recommendations for Virus Scan Profiles

Adapt and enable all pre-delivered scan profiles. Consider their impact on performance and discuss with the customer if some profiles can be disabled.

Some scan profiles take effect at download time. The advantage of scanning at download time is that virus signatures that were updated after the upload of a file where no virus was detected may detect a virus in the same file during downloading. Download scanning has a negative impact on the performance of the system: A

file is uploaded only once by definition, but can be downloaded many times. It may be considered a waste of computing power to scan the same file over and over again. To lower this download performance penalty, you may disable the following scan profiles:

- /SCET/GUI_DOWNLOAD
- /SIHTTP/HTTP_DOWNLOAD
- /SOAP_CORE/WS_SEND

Try to organize scan profiles by setting up the following customer profiles for later reference:

- ZBASIC: pure virus scanning
- ZEXTENDED: plus check for active content, plus MIME type detection, mark as default profile

All active profiles should refer to ZEXTENDED, except the following (which should refer to ZBASIC):

- /SAPC_RUNTIME/APC_WS_MESSAGE_GET
- /SAPC_RUNTIME/APC_WS_MESSAGE_SET
- /SCET/GUI_UPLOAD
- /SIHTTP/HTTP_UPLOAD
- /SMIM_API/PUT
- /SOAP_CORE/WS_RECEIVE
- /UI5/UI5_INFRA_APP/REP_DT_PUT

For ZEXTENDED, the following settings are recommended:

- CUST_ACTIVE_CONTENT = 1
- CUST_CHECK_MIME_TYPE = 1
- CUST_MIME_TYPES_ARE_BLACKLIST = 0 (verify allowed MIME types)

These settings tell the virus scanner to scan for active content and check MIME types according to the specified allowed file types.

Activate virus scanning in gateway with profile ZBASIC. Use verification of allowed file types wherever possible. The scanner allow list should be as restrictive as possible.

As a compromise, the allow list must contain the complete set of file types required in all active customer scenarios.

If major extensions to the allow list are required, make sure it only contains MIME types from the IANA list. As a starting point for detailed consideration by the customer, see the template list of file types below. All file types that are not needed should be removed from the customer's allow list. The final allow list is, by necessity, a compromise between security (as restrictive as possible) and functionality (as flexible in types as needed).

- application/arj
- application/msword
- application/pdf
- application/postscript
- application/vnd.ms-excel
- application/vnd.ms-powerpoint
- application/vnd.openxmlformats-officedocument.spreadsheetml.sheet
- application/vnd.openxmlformats-officedocument.presentationml.presentation
- application/vnd.openxmlformats-officedocument.wordprocessingml.document

- application/x-compressed
- application/x-dvi
- application/x-gzip
- application/x-zip-compressed
- application/xml
- application/zip
- image/bmp
- image/jpeg
- image/png
- image/vnd.dwg
- image/x-dwg
- text/plain
- text/richtext
- text/xml

Further Protection against Malicious Active Content

Virus scanning, and thus preventing the upload of files with malicious content is the first line of defense. As a second line of defense, the SAP WebDispatcher (or alternatively, ICM = Internet Communication Manager) allows some level of protection against malicious active content being executed in the front end. This can be achieved with additional HTTP response headers that instruct browsers to behave in a specific way. You can modify HTTP response headers using either the SAP WebDispatcher or the ICM. For more information, see the SAP Web Dispatcher documentation for ICM in the SAP Help Portal.

SAP recommends the following:

Add the following headers:

```
SetResponseHeader X-Content-Type-Options "nosniff"
```

```
SetResponseHeader X-XSS-Protection "1; mode=block"
```

Consider the following script code as an example of how to further improve the security level. Adapt the details to the individual customer use case:

```
If %{RESPONSE_HEADER:Content-Disposition} regimatch ^inline [AND]
```

```
If %{RESPONSE_HEADER:Content-Type} regimatch html|xml|xsl Begin
SetResponseHeader Content-Security-Policy "script-src 'none'; sandbox"
SetResponseHeader X-Content-Security-Policy "script-src 'none'; sandbox" End
```

If such a content security policy header is added to HTTP responses containing previously uploaded files (when displayed inline and having content type containing html, xml or xsl), the execution of JavaScript is prevented in the front end by all current browser versions.

3.5.4.4 Configuring Settings in the Back End System for Context-Sensitive User Assistance

Use transaction `HELP_CONFIG` to create front-end and back-end settings to display user assistance.

For more information, refer to the section *User Assistance Settings* in the *Installation Guide for SAP S/4HANA 2022* which you can find on the SAP S/4HANA product page.

3.5.4.5 Post-Activation Steps for Universal Parallel Accounting

If you want to use Universal Parallel Accounting, the following settings in the IMG (transaction `SPRO`) are required after the SAP Best Practices reference content has been activated.

Group Valuation

The activities in the following table are only relevant if you have activated scope item Group Valuation (5W2).

Table 5:

<table>
<tr><th>Activity</th><th>IMG Path</th><th></th></tr>
<tr><td>Assign accounting principle to ledger/ company code for ledger 4G (as initially, ledger 4G is activated without accounting principle)</td><td>Financial Accounting > Financial Accounting Global Settings > Ledgers > Ledger > Define Settings for Ledgers and Currency Types</td><td>We recommend that you assign the same corporate accounting principle to the leading ledger (0L) and group valuation ledger (4G). You can assign the local accounting principle to a non-leading ledger (2L).

Changing the default accounting principles requires you to adjust additional Asset Accounting settings.

Examples:

General Ledger (table FINSC_LD_CMP)

<table><tr><th>Company Code</th><th>Ledger</th><th>Corporate Accounting Principle</th><th>Local Accounting Principle</th></tr><tr><td>1010</td><td>0L</td><td>IFRS</td><td></td></tr><tr><td></td><td>2L</td><td></td><td>DEAP</td></tr><tr><td></td><td>4G</td><td>IFRS</td><td></td></tr></table>
i Note
Check the accounting principle assignment for ledger 0C - Management Accounting and ledger 0E - Commitment/Prediction:

We recommend that you change the accounting principle to IFRS for 0C and 0E ledgers as these ledgers must always follow the lead ledger's accounting principle. Therefore, if the accounting principle for the lead ledger is changed, the accounting principle for 0C and 0E must also be changed accordingly.</td></tr>
<tr><td>Configure clearing between company codes</td><td>Controlling > General Controlling > Manage Multiple Valuation Approaches/ Transfer Prices > Level of Detail > Define Valuation Clearing Account</td><td></td></tr>
</table>

Controlling

Table 6:

Activity	Transaction	
Change results analysis (RA) key and costing variant assignment for order type By default, all order type are delivered with periodic result analysis keys, and with UPA, **must be changed** to event-based analysis keys.	Enter transaction `S_ALR_87008022`	Select the entry with plant 1010 and any of the following production/process order types: YBM1, YBM2, YBM3, YBM4, YBM5, YBM9, YBW1, YPK1, YQ01, YQ02. Change RA key MBMF01 to RSEBW, and costing variants from PYG1 and PYG2 to PYR1 and PYR2 respectively. Event-based overhead must be used with event-based WIP and variance scope. The costing variants PYR1 and PYR2 come with event-based costing sheet 1010EP.
Update event-based WIP and variance posting This step is optional. You can modify the reference content based on your business requirements and the general ledger you use.	Use transaction *View Cluster Editing: Initial Screen* (`SM34`), enter view *FCOVC_EBW*.	For the displayed row, choose RA Key RSEBW, update WIP Source G/L and WIP account determination.

Material Ledger

Table 7:

Activity	Application	
Switch data retrieval to new table *Material Price* (`FMLT_PRICE`) for Material Ledger apps such as *Manage Material Valuations* in each system in which you have activated business function `FINS_PARALLEL_ACCOUNTING_BF`	In transaction `SA38`, run report `FML_CREATE_ENH_IMPL_FOR_UPA`	Existing tables `CKMLPR` and `CKMLCR` are obsolete for UPA and have to be switched to `FMLT_PRICE`.

Asset Accounting

Table 8:

<table>
<tr><th>Activity</th><th>IMG Path</th><th></th></tr>
<tr><td>Define new depreciation area for ledger 4G</td><td>Financial Accounting > Asset Accounting (Parallel Accounting) > Basic Settings for Valuation > Define Depreciation Areas in Company Code</td><td>In the standard reference content, there is no default accounting principle assigned to ledger 4G.

We recommend that you assign the same corporate accounting principle to the leading ledger (0L) and group valuation ledger (4G). You can assign the local accounting principle to a non-leading ledger (2L).

For each ledger created in General Ledger, you have to create at least one depreciation area in Asset Accounting. Below is an example of the required settings for country Germany with company code 1010.

Asset Accounting (table FAAC_CMP_DA0)

<table><tr><th>Company Code</th><th>Ledger</th><th>Depreciation Area</th><th>Valuation View</th></tr><tr><td>1010</td><td>0L</td><td>01</td><td>0IFRS_0032</td></tr><tr><td></td><td>2L</td><td>32</td><td>0DE_0001</td></tr><tr><td></td><td>2L</td><td>15</td><td>0DE_0015</td></tr><tr><td></td><td>4G</td><td>99</td><td>0IFRS_0032</td></tr></table></td></tr>
</table>

3.5.4.6 Post-Activation Steps for Embedded EWM Scope Items

This section describes the required post activation steps if you have activated Embedded EWM scope items:

Scope Item
<your_country>_1FS - Basic Warehouse Inbound Processing from Supplier
<your_country>_1G2 - Basic Warehouse Outbound Processing to Customer
<your_country>_1FU - Initial Stock Upload for Warehouse
<your_country>_1FY - Replenishment in Warehouse
<your_country>_1FW - Physical Inventory in Warehouse
<your_country>_1G0 - Scrapping in Warehouse
<your_country>_1V5 - Warehouse Inbound Processing from Supplier with Batch Management
<your_country>_1V7 - Warehouse Outbound Processing to Customer with Batch Management
<your_country>_1V9 - Basic Warehouse Inbound Processing from Supplier with Quality Management
<your_country>_1VB - Production Integration - Component Consumption and Receipt in Warehouse
<your_country>_1VD - Advanced Warehouse Outbound Processing to Customer

If you have activated any of these scope items, create the following manual post-activation settings in the Production system:

- Generating Distribution Model From SAP S/4HANA to SAP EWM [page 150]
- Mapping Warehouse Numbers from ERP System to EWM [page 151]
- Mapping Storage Locations from ERP System to EWM [page 152]
- Replicating PSA to EWM [page 153]
- Settings for Printing [page 154]

3.5.4.6.1 Generating Distribution Model From SAP S/4HANA to SAP EWM

This describes the procedure for generating the distribution model for the SAP S/4HANA system to Extended Warehouse Management (EWM).

Context

You use this procedure to generate the distribution model for the SAP S/4HANA system to Extended Warehouse Management (EWM).

Procedure

1. Start transaction `/SPE/0L19` or in the IMG, choose *Logistics Execution* > *Extended Warehouse Management Integration* > *Basic Setup of Connectivity* > *Generate Distribution Model from SAP S/4HANA to SAP EWM*.
2. On the *Generate Distribution Model from SAP ERP to SAP EWM* screen, create the following entries:

Field Name	User Action and Values	Comments
Warehouse Number	**##1**	**##** represents the country code, for example 10 for DE , 17 for US
EWM's Logical System	**<S/4HANA system name>EWM<Client>**	EWM logical system, for example, **RSKEWM079** System ID= RSK Client = 079
Distribution Model view	*EWM*	
Objects	*All*	
Action	*Create entries*	

3. Choose *Execute* ().
4. In the dialog box *EWM Model does not exist and will be created. Do you want to continue?*, choose *Yes*.
5. In the dialog box *Generate Distribution Model from SAP ERP to SAP EWM*, choose *Continue*.
6. Choose *Back*()

3.5.4.6.2 Mapping Warehouse Numbers from ERP System to EWM

This describes the procedure is for mapping the warehouse numbers from the ERP system to EWM.

Context

You use this procedure to map the warehouse numbers from the ERP system to EWM.

Procedure

1. Start transaction SPRO and choose *SCM Extended Warehouse Management* > *Extended Warehouse Management* > *Interfaces* > *ERP Integration* > *General Settings* > *Assign Warehouse Numbers from Logistics Execution*.
2. On the *Change View "Mapping for Warehouse Number": Overview* screen, choose *New Entries* (F5).
3. Create the following entry:

WNoERP	Warehouse Number	Comment
XX1	**XX10**	**XX** stands for the country code. For example 10 for DE and 17 for US

4. Choose *Save*.()

3.5.4.6.3 Mapping Storage Locations from ERP System to EWM

This describes the procedure for mapping the storage locations from the ERP system to EWM.

Context

Use this procedure to map the storage locations from the ERP system to EWM.

Procedure

1. Start transaction SPRO and choose *SCM Extended Warehouse Management* > *Extended Warehouse Management* > *Interfaces* > *ERP Integration* > *Goods Movements* > *Map Storage Locations from ERP System to EWM*.
2. On the *Change View "Customizing Mapping Table for ERP Plant Storage Location"* screen, choose *New Entries* and create the following entries:

Plnt	SLoc	Logical System	Warehouse No.	AGrp	Comment
XX10	**XX1D**	**<S/4HANA Logical System>** for example **RSKCLNT079**	**XX10**	**001**	**XX** stands for the country code. (for example10 for DE and 17 for US.)
XX10	**XX1S**	**<S/4HANA Logical System>** for example **RSKCLNT079**	**XX10**	**002**	

3. Choose *Save*. ()

3.5.4.6.4 Replicating PSA to EWM

This section describes required manual steps after activating EWM scope items.

Context

Carry out the following procedure if you have activated EWM scope items:

Procedure

1. Start transaction `/SCWM/PSA_REPLICATE` and in the SAP Menu, choose *SCM Extended Warehouse Management* > *Extended Warehouse Management* > *Interfaces* > *ERP Integration* > *Replicate Production Supply Area (PSA)*.
2. Enter the following values on the *Replicate Production Supply Area (PSA)* screen:
   EWM Location section:

Field Name	User Action and Values	Comment
Warehouse Number	**XX10**	**XX** stands for the country code. For example 10 for DE and 17 for US.

Field Name	User Action and Values	Comment
Party Entitled to Dispose	**BPXX10**	
Only EWM Stor. Loc.	**X**	

ERP Location section:

Field Name	User Action and Values	Comment
Plant	**XX**10	**XX** stands for the country code. For example 10 for DE and 17 for US.
Logical system	`<S/4HANA Logical System>`	For example **RSKCLNT079**

3. Choose *Execute* (F8).
4. On the *Replicate Production Supply Area (PSA) – Whse No. XX10 – Create Entries* screen, select the entry *PSA-Y001* and choose Replicate (F8).
   The system displays the message *1 production supply area(s) created.*
5. Choose *Back*.

3.5.4.6.5 Settings for Printing

This section describes the required settings for printing after activating EWM scope items.

Make the following printing settings after activating EWM scope items:

- Creating Settings for Spool Administration [page 155]
- Creating Condition Records for HU Printing Procedure [page 157]
- Creating Condition Records for Printing (Warehouse Orders) [page 161]
- Creating Condition Records for Printing (Physical Inventory) [page 162]

3.5.4.6.5.1 Creating Settings for Spool Administration

This section describes the printing settings for spool administration. These settings are post requisites when you have activated EWM scope items.

Context

If you have activated EWM scope items, carry out the following procedure to create the printing settings for spool administration:

Procedure

1. Start transaction SPAD and in the SAP Menu, choose *Tools* > *CCMS* > *Print* > *Spool Administration* > .
2. Go to the *Spool Administration: Initial Screen* view.
3. Choose the *Display* button in the *Output Devices* row of the *Devices / servers* tab.
4. Choose *Change* () on the *Spool Administration: List of Output Devices* screen.
5. Choose *Create*. ()
6. Enter the following values on the *Spool Administration: Create Output Device* screen:

Field Name	User Action and Values	Comment
Output Device	**YEP1_XX**	**XX** stands for the country code. For example 10 for DE and 17 for US.
Short Name	**YPXX**	

7. Enter the following values on the *Device Attributes* tab:

Field Name	User Action and Values	Comment
Device Type	**<HPLJIIID HP Laserjet 3 series PCL-5>**	You must specify a device type so that spool requests are generated by applications using the printer. You can choose another value from the F4 help.
Spool Server	**<ldcixxx_XXX_##>**	Enter the actual *Spool Server* name that you get from your System Admin.

Field Name	User Action and Values	Comment
Device Class	**_ Standard printer**	Default value
Location	**Packing Work Center Outbound Whse. XX10**	**XX** stands for the country code. For example 10 for DE and 17 for US.

8. Enter the following values on the *Access Method* tab:

Field Name	User Action and Values	Comment
Host Spool Access Method	**L L: Print Locally Using LP/LPR**	
Host printer	**YEP1_XX**	**XX** stands for the country code. For example 10 for DE and 17 for US.

9. Enter the following values on the *Output Attributes* tab:

Field Name	User Action and Values	Comment
SAP cover page language	**EN**	

10. Choose save. ()

> ⚠ Caution
>
> **Mandatory:** Choose *Device Attributes* where it is necessary to enter the *Device Type* and customer-specific *Spool Server* for each printer, too. Contact your system administrator to obtain the information. Afterwards, choose *Access Method* to enter the Host printer and the Host name.
>
> Make sure that the customer provides the necessary information and refer to SAP Note 1036961 for setup details.
>
> For the *Host Spool Access Method*, if you are setting up local printing (printing from the spool system of the local SAP server) from a Windows NT server, choose *Access Method C: Directing operating system call*. If the SAP server is Unix, set up with *Access Method L: Print Locally Using LP/LPR*.
>
> Note that *Access Method C* is a local access method, so usually the spool is passed by the SAP spool process to the spool system of the SAP windows server. The printer also has to be defined in the Windows Print Manager of the SAP Windows server with exactly the same name as in the *Host Printer* field of the output device definition in SPAD. Contact your O/S administrator of the windows server for Host Printer names.

3.5.4.6.5.2 Creating Condition Records for HU Printing Procedure

This section describes the procedure for creating condition records for the HU printing procedure. These settings are post requisites when you have activated EWM scope items.

Context

If you have activated EWM scope items, carry out the following procedure to create the condition records for the HU printing procedure:

Procedure

1. Start transaction `/SCWM/PRHU6` and in the SAP Menu, choose *Logistics* > *SCM Extended Warehouse Management* > *Extended Warehouse Management* > *Work Scheduling* > *Print* > *Settings* > *Create Condition Records for Printing (HUs)* > .
2. Enter the following values on the *General Condition Maintenance* screen:

Application	PHU
MaintenanceGrp	**PHU**
Maintenance context	**GCM**

3. Choose *Execute*. ()
4. Enter the following value in the *Item* area of the *Condition Record – Process* screen:

CCtC
0HU1

5. Choose *Enter*. ()
6. In the *Selection of key combination* dialog box, select:

U	Cond. Table	Short Text
P H	*SAPHU 002*	*Print HU: Warehouse, Step, Type, Pack. Material, Work Center*

7. Choose *OK*. ()
8. In the *Item* area of the *Condition Record – Process* screen, enter:

CCtC	**0HU1**
Completed	
HU Type	
WhN	**XX10**
HU Step	**I**
Pack.Mat.	
Work Cntr.	**Y831**
Form	**/SCWM/HU_LABEL**
Printer	**YEP1_XX**
PPool	
Spool Data	**01**
Action	**HU_LABEL_GENERAL_AND_RF**
No Print	
No. Copies	
Type	
Log. Cnd.	
Seq. No.	
From	
To	

9. Choose *Enter*. ()

> **i Note**
>
> XX in the printer name stands for the country code. (For example. 10 for DE and 17 for US)

> *From* is automatically set to `<today>`.
>
> *To* is automatically set to *12/31/9999* and a new empty row is added.
>
> The condition record makes sure a simple HU ID label indicating the newly created HU Identification number including a bar code can be printed. The condition record covers the HU creation at Packing Work Center *Y831*.

10. Enter in the new empty row:

CCtC	**0HU1**
Completed	**X**
HU Type	
WhN	**XX10**
HU Step	**U**
Pack.Mat.	
Work Cntr.	**Y831**
Form	**/SCWM/HU_SHPLABEL**
Printer	**YEP1_XX**
PPool	
Spool Data	**01**
Action	**HU_SHPLABEL_GENERAL_AND_RF**
No Print	
No. Copies	
Type	
Log. Cnd.	
Seq. No.	
From	

To	

11. Choose *Enter*. ()

> **i Note**
>
> The condition record makes sure an HU ID shipping label can be printed. The condition record covers the HU update (for example as a result of the close HU operation) at the Packing Work Center *Y831*.

12. Enter in the new empty row:

CCtC	**0HU1**
Completed	**X**
HU Type	
WhN	**XX10**
HU Step	**U**
Pack.Mat.	
Work Cntr.	**Y831**
Form	**/SCWM/HU_CONTENT**
Printer	**YEP1_XX**
PPool	
Spool Data	**01**
Action	**HU_CONTENT_GENERAL_AND_RF**
No Print	
No. Copies	
Type	
Log. Cnd.	
Seq. No.	**2**

From
To

> **i Note**
>
> The condition record makes sure an HU ID content list can be printed. The condition record covers the HU update (for example as a result of the close HU operation) at the Packing Work Center *Y831*.

13. Choose *Save*. ()

3.5.4.6.5.3 Creating Condition Records for Printing (Warehouse Orders)

This section describes the procedure for creating condition records for printing in the case of warehouse orders. These settings are post requisites when you have activated EWM scope items.

Context

If you have activated EWM scope items, carry out the following procedure to create the condition records for printing in the case of warehouse orders:

Procedure

1. Start transaction `/SCWM/PRWO6` and in the SAP Menu, choose *SCM Extended Warehouse Management* > *Extended Warehouse Management* > *Work Scheduling* > *Print* > *Settings* > *Create Condition Records for Printing (Warehouse Orders)*.
2. On the *General Condition Maintenance* screen, enter:

Field name	User action and values
Application	**PWO**
MaintenanceGrp	**PWO**
Maintenance context	**GCM**

3. Choose *Execute*. ()

4. In the *Item* area of the *Condition Records - Process* screen, enter:

Field name	User action and values
CCtC	**0001**

5. Choose *Enter*.
6. Create the following entry:

Wh N	Sta-tus	A A	WhsePr cTpe	Form	Printe r	PP ool	Spool Data	Action
XX10			**Y999**	**/SCWM/WO_SINGLE**	**YEP1_XX**		**01**	**WO_SINGLE**

> **i** Note
>
> **XX** in the printer name stands for the country code. (for example 10 for DE and 17 for US)

7. Choose *Save*. ()

3.5.4.6.5.4 Creating Condition Records for Printing (Physical Inventory)

This section describes the procedure for creating condition records for printing in the case of warehouse orders. These settings are post requisites when you have activated EWM scope items.

Context

If you have activated EWM scope items, carry out the following procedure to create the condition records for printing in the case of physical inventory:

Procedure

1. Start transaction `/SCWM/PRPI_GCM` and in the SAP Menu, choose *SCM Extended Warehouse Management* > *Extended Warehouse Management* > *Work Scheduling* > *Print* > *Settings* > *Create Condition Records for Printing (Physical Inventory)* > .
2. On the *General Condition Maintenance* screen, enter:

Field	Value
Application	**PPI**
MaintenanceGrp	**PI**
Maintenance context	**GCM**

3. Choose *Execute*. ()
4. On the *Condition Records - Process* screen, enter:

Field Name	Value
CCtC	**0001**

5. Choose *Enter*.
6. Create the following entries:

WhN	Processor	PI Area	Form	Printer	PPool	Spool Data	Action Definition
XX10		**Y011**	**/SCWM/PI_CNT_DOC**	**YEP1_XX**		**01**	**PI_COUNT**
XX10		**Y021**	**/SCWM/PI_CNT_DOC**	**YEP1_XX**		**01**	**PI_COUNT**
XX10		**Y041**	**/SCWM/PI_CNT_DOC**	**YEP1_XX**		**01**	**PI_COUNT**
XX10		**Y042**	**/SCWM/PI_CNT_DOC**	**YEP1_XX**		**01**	**PI_COUNT**

> **i** Note
>
> **XX** in the printer name stands for the country code. (for example 10 for DE and 17 for US)

3.5.4.7 Post-Activation Settings for Decentralized EWM Scope Items

This section describes the required post-activation settings for the use case of decentralized EWM scope items.

Carry out the following post-activation settings for the use case of decentralized EWM scope items:

- Configuring Master Data Distribution [page 164]
- Distributing Master Data using ALE/Idoc in SAP S/4HANA ERP System [page 171]
- Activating Additional Data Transfer in EWM [page 176]
- Generating Distribution Model from SAP S/4HANA to SAP EWM in SAP S/4HANA ERP System [page 178]
- Mapping Warehouse Numbers from ERP System to EWM in SAP S/4HANA Decentralized EWM System [page 179]
- Mapping Storage Locations from ERP System to EWM in SAP S/4HANA Decentralized EWM System [page 180]
- Maintaining Warehouse Product Attributes in the SAP S/4HANA Decentralized EWM System [page 185]

3.5.4.7.1 Configuring Master Data Distribution

This section describes the required steps for configuring master data distribution after activation for decentralized EWM scope items.

Context

You use this process to setup the distribution of the following master data from SAP ERP to decentralized EWM on SAP S/4HANA using SAP Standard technology Application Link Enabling (ALE)-IDoc:

- Materials
- Customers
- Vendors and carriers
- Addresses
- Batches
- Class system: Characteristics master
- Class system: Classes master
- Class system: Classification master

The master data distribution is always from SAP ERP to decentralized EWM. In the IDoc settings, the sender system is always SAP ERP and the receiver system is always decentralized EWM.

> **i Note**
>
> - Even if you use the Customer Vendor Integration (CVI) in SAP ERP, the transfer of customer and vendor data via ALE to decentralized EWM is based on the customer and vendor master data and not on the business partner master data.

- This process contains only an example for the ALE IDoc setup. For more information, refer to the ALE implementation guide.

  > → Remember
  >
  > Some settings described in this chapter, such as the creation of reduced message types with transaction `BD53` or report `/SPE/R_DEC_EWM_REDUCE_MESSTYPE`, require a workbench request. You must therefore clarify with your system administrator which SAP ERP system and client is appropriate for carrying out these steps.

Carry out the following procedures:

- Configuring Setup of IDoc Communication with Setup Reports [page 165]
- Creating Reduced Message Types in ERP System [page 166]
- Creating Reduced Message Types in Decentralized EWM System [page 167]
- Creating ALE Configuration in ERP System [page 168]
- Creating ALE Configuration in decentralized EWM System [page 169]

3.5.4.7.1.1 Configuring Setup of IDoc Communication with Setup Reports

Context

The following reports are available to support the configuration of the ALE customizing:

Report	Use Case
`/SPE/R_DEC_EWM_REDUCE_MESSTYPE`	This report is used to create the reduced message types in the sender and receiver system
`/SPE/R_DEC_EWM_ALE_CUST`	This report is used to maintain ALE customizing in the sender system (SAP S/4HANA ERP).
`/SCWM/R_DEC_EWM_ALE_SETUP`	This report is used to maintain ALE customizing in the receiver system (SAP S/4HANA decentralized EWM).

3.5.4.7.1.1.1 Creating Reduced Message Types in ERP System

Context

You use the report `/SPE/R_DEC_EWM_REDUCE_MESSTYPE` to create reduced message types for materials, customers, vendors and carriers in the SAP ERP system.

Carry out the following steps in the SAP ERP client (sender system):

Procedure

1. In SAP ERP, start transaction `SE38` (ABAP Editor).
2. Enter Program `/SPE/R_DEC_EWM_REDUCE_MESSTYPE`.
3. Choose *Execute* (F8).
4. On the next screen, use the default values or choose your own values:
   a. Select *Reduce Material Message Type*.
   b. Enter Reduce Type for MATMAS, for example **`ZEWMMATMAS`**.
   c. Enter short text, for example **`Reduced MATMAS for decentralized EWM`**.
   d. Select *Reduce Vendor Message Type*.
   e. Enter Reduce Type for CREMAS, for example **`ZEWMCREMAS`**.
   f. Enter Short Text, for example **`Reduced CREMAS for decentralized EWM`**.
   g. Select *Reduce Customer Message Type*.
   h. Enter Reduce Type for DEBMAS, for example **`ZEWMDEBMAS`**.
   i. Enter short text, for example **`Reduced DEBMAS for decentralized EWM`**.
5. Select *Check and Perform Customizing*.
6. Press *Execute* (F8).

> → Tip
>
> For more information, see the application help of the report.

3.5.4.7.1.1.2 Creating Reduced Message Types in Decentralized EWM System

Context

You use the report `/SPE/R_DEC_EWM_REDUCE_MESSTYPE` to create reduced message types for materials, customers, vendors, and carriers in the decentralized EWM system.

> **i** Note
>
> Instead of creating the reduced message types in the receiving EWM system with the report `/SPE/R_DEC_EWM_REDUCE_MESSTYPE`, you can ask your system administrator to transport the reduced message types to the decentralized EWM system by means of a transport request.

Procedure

1. In SAP ERP, start transaction `SE38` (ABAP Editor).
2. Enter Program `/SPE/R_DEC_EWM_REDUCE_MESSTYPE`.
3. Choose *Execute* (F8).
4. On the next screen, use the default values or choose your own values:
   a. Select *Reduce Material Message Type*.
   b. Enter Reduce Type for MATMAS, for example **`ZEWMMATMAS`**.
   c. Enter short text, for example **`Reduced MATMAS for decentralized EWM`**.
   d. Set *Reduce Vendor Message Type*.
   e. Enter Reduce Type for CREMAS, for example **`ZEWMCREMAS`**.
   f. Enter Short Text, for example **`Reduced CREMAS for decentralized EWM`**.
   g. Set *Reduce Customer Message Type*.
   h. Enter Reduce Type for DEBMAS, for example **`ZEWMDEBMAS`**.
   i. Enter short text, for example **`Reduced DEBMAS for decentralized EWM`**.
5. Select *Check and Perform Customizing*.
6. Press *Execute* (F8).

> **→** Tip
>
> For more information, see the application help of the report.

3.5.4.7.1.1.3 Creating ALE Configuration in ERP System

Context

You use the report `/SPE/R_DEC_EWM_ALE_CUST` to create ALE configuration in the SAP ERP system.

Procedure

1. In SAP ERP, start transaction `SE38` (ABAP Editor).
2. Enter Program `/SPE/R_DEC_EWM_ALE_CUST`.
3. Choose *Execute* (F8).
4. On the next screen, use the default values or choose your own values:
   a. Enter the name of your EWM system, for example **EWMCLNT001**
   b. Enter the name of your Reduce Type for MATMAS, for example **ZEWMMATMAS**
   c. Enter the name of your Reduce Type for CREMAS, for example **ZEWMCREMAS**
   d. Enter the name of your Reduce Type for DEBMAS, for example **ZEWMDEBMAS**
   e. Select *Change Pointer Settings* option, for example *Activate Change Pointers*
   f. Set *Maintain Distribution Model*
   g. Enter a name for the distribution model, for example **EWMCLNT001**
5. Select appropriate filters for the materials, vendors and customers you want to distribute to the decentralized EWM system:

Field Name	User Action and Values	Comment
Filter for Material		
Material Type	Check the system proposals Add material type MAT	
Material Group	Check the system proposals Add material group L001	
Plant	**##10**	## stands for the country code. For example, 10 for DE and 17 for US.
Storage Location	**##6S**	## stands for the country code. For example, 10 for DE and 17 for US.
Filter for Vendor		
Vendor Account Group	**SUPL**	
Filter for Customer		

Field Name	User Action and Values	Comment
Customer Account Group	**CUST**	

6. In the area *Further Process Steps*:
   a. Set *Create Port for IDocs*.
   b. Set *Maintain Partner Profiles* and *Outbound Parameters*.
   c. Select *Immediate IDoc Mode* or *Collective IDoc Mode*.
   d. Set *Create Conversion Rules* for *Material Maintenance Status*.
   e. Enter a Conversion Rule Name Prefix, for example **ZEWM_PSTAT**.
   f. Set *Activate Enhanced Filtering* and *Transfer Options*.
7. Select *Check and Perform Customizing*.
8. Choose *Execute*(F8).

> → Tip
>
> For more information, see the application help of the report.

3.5.4.7.1.1.4 Creating ALE Configuration in decentralized EWM System

Context

You use the report `/SCWM/R_DEC_EWM_ALE_SETUP` to create ALE configuration in the decentralized EWM system.

Procedure

1. In SAP EWM, start transaction `SE38` (ABAP Editor).
2. Enter Program `/SCWM/R_DEC_EWM_ALE_SETUP`.
3. Choose *Execute* (F8).
4. On the next screen, use the default values or choose your own values:
   a. Enter the name of your ERP System, for example **ERPCLNT001**
   b. Enter the name of your Reduce Type for MATMAS, for example **ZEWMMATMAS**
   c. Enter the name of your Reduce Type for CREMAS, for example **ZEWMCREMAS**
   d. Enter the name of your Reduce Type for DEBMAS, for example **ZEWMDEBMAS**
5. In the area *Process Steps*:
   a. Set *Maintain Partner Profiles* and *Inbound Parameters*.

b. Select *Immediate IDoc Mode* or *Collective IDoc Mode*.

6. Select *Check and Perform Customizing*.
7. Choose *Execute* (F8).

> → Tip
>
> For more information, see the application help of the report.

3.5.4.7.1.1.5 Creating Processing Codes in both ERP System and Decentralized EWM System

Context

You create processing codes in both the SAP ERP system and SAP Decentralized EWM System.

Procedure

1. Call transaction `SM30 (Table Maintenance)`.
2. Enter Table/View *VEDI_TEDE5*.
3. Choose *Maintain*.
4. On the next screen, choose *New Entries* and add the following entries:

Code	Type	Identification
EDIC	2	TS74508411
EDII	2	TS00008068
EDIL	2	TS70008373
EDIM	2	TS30000020
EDIN	2	TS70008037
EDIO	2	TS00007989
EDIP	2	TS60001307
EDIX	2	TS00008070

Code	Type	Identification
EDIY	2	TS00008074

5. Choose *Save*.
6. Call transaction `SM30 (Table Maintenance)`.
7. Enter Table/View *VEDI_TEDE6*.
8. Choose *Maintain*.
9. On the next screen, choose *New Entries* and add the following entries:

Code	Type	Identification
EDIR	2	TS70008125
EDIS	2	TS30000078

10. Choose *Save*.

3.5.4.7.2 Distributing Master Data using ALE/Idoc in SAP S/4HANA ERP System

Context

You use this process to start the distribution of master data via ALE/IDoc from SAP ERP as a sender system to decentralized EWM as a receiver system.

3.5.4.7.2.1 Executing Initial Transfer of Master Data

Context

You use the following procedures to create IDocs for the initial master data transfer to decentralized EWM.

> **i Note**
>
> You use transaction `BD87` in the SAP ERP system and in the decentralized EWM system to check the IDoc status after transfer.

- Executing Initial Transfer of Characteristics [page 172]

- Executing Initial Transfer of Classes [page 172]
- Executing Initial Transfer of Materials [page 173]
- Executing Initial Transfer of Batches [page 174]
- Executing Initial Transfer of Customers [page 175]
- Executing Initial Transfer of Vendors [page 176]

3.5.4.7.2.1.1 Executing Initial Transfer of Characteristics

Context

You use this procedure to transfer characteristics for classification of batches.

Carry out the following steps in SAP ERP:

Procedure

1. Start transaction BD91. (Distribute All Characteristics Using ALE.)
2. Enter the data as shown in the following table:

Field	Value
Characteristic	Enter the characteristics that you use for batch classification, for example, **YB_BATCH_NUMBER** and **YB_SUPPLIER_BATCH_NUMBER**
Logical system	<EWM logical system>, for example **EWMCLNT001**

3. Choose *Execute*.

3.5.4.7.2.1.2 Executing Initial Transfer of Classes

Context

You use this procedure to transfer classes for classification of batches.

Carry out the following steps in SAP ERP:

Procedure

1. Start transaction BD92. (Distribute Classes Using ALE: Send Direct.)
2. Enter the data as shown in the following table:

Field	Value
Class Type	**023** for batch classes
Class	Enter the classes you use for batch classification For example, **YB_BATCH**
Logical system	<EWM logical system> For example, **EWMCLNT001**

3. Choose *Execute*.

3.5.4.7.2.1.3 Executing Initial Transfer of Materials

Context

You use this procedure to transfer material master data.

Carry out the following steps in SAP ERP:

Procedure

1. Start transaction BD10 (Send Material).
2. Enter the data as shown in the following table:

Field	Value
Material	Leave empty or enter an interval
Class	Leave empty Enter an interval only if you use material classification.

Field	Value
Message Type (Standard)	Reduced message type for materials Fore example, **ZEWMMATMAS**
Logical system	<EWM logical system> For example, **EWMCLNT001**
Send Material in Full	Leave empty **i Note** Set this indicator only if you use material classification. If the indicator is set, the material classification data is transferred together with the material master data. As an alternative, you can transfer classification data with transaction BD93 after transferring the corresponding material or batch master data.

3. Choose *Execute*.

> **→ Tip**
>
> If you expect a large amount of data to be transferred, choose *Program* > *Execute in Background*.

3.5.4.7.2.1.4 Executing Initial Transfer of Batches

Prerequisites

SAP Note 2745236 is implemented in your SAP ERP system.

Context

You use this procedure to transfer batch master data.

Carry out the following steps in SAP ERP:

Procedure

1. Start transaction BD90 (Batch Master Record Initial Transfer).
2. Enter the data as shown in the following table:

Field	Value
Material	Leave empty
Batch	Leave empty
Logical system	`<EWM logical system>` For example, **EWMCLNT001**

3. Choose *Execute*.

> → Tip
>
> If you expect a large amount of data to be transferred, choose *Program* > *Execute in Background*.

3.5.4.7.2.1.5 Executing Initial Transfer of Customers

Context

You use this procedure to transfer customer master data.

Carry out the following steps in SAP ERP:

Procedure

1. Start transaction BD12 (Send Customers).
2. Enter the data as shown in the following table:

Field	Value
Customer	Leave empty
Output Type	Reduced message type for customers For example **ZEWMDEBMAS**
Logical system	`<EWM logical system>` For example, **EWMCLNT001**

3. Choose *Execute*.

> → Tip
>
> If you expect a large amount of data to be transferred, choose *Program* > *Execute in Background*.

3.5.4.7.2.1.6 Executing Initial Transfer of Vendors

Context

You use this procedure to transfer vendor master data.

Carry out the following steps in SAP ERP:

Procedure

1. Start transaction BD14 (Send Vendor).
2. Enter the data as shown in the following table:

Field	Value
Account Number of Vendor	Leave empty
Message Type	Reduced message type for vendors For example, **ZEWMCREMAS**
Target system	<EWM logical system> For example **EWMCLNT001**

3. Choose *Execute*.

> → Tip
>
> If you expect a large amount of data to be transferred, choose *Program* > *Execute in Background*.

3.5.4.7.3 Activating Additional Data Transfer in EWM

Context

You use this procedure to activate in decentralized EWM the transfer of additional data (material valuation data) from SAP ERP to EWM. This data transfer is triggered in EWM (using a “pull” principle). The data is transferred by means of synchronous remote function call (RFC).

The material valuation data is required for the following functions in EWM:

- Physical inventory
- Quality management
- Split valuation without batches

You schedule a job in EWM to regularly receive material valuation data from SAP ERP for the products used in the EWM warehouse. Based on the EWM warehouse entered as selection criteria, the system automatically determines the party entitled to dispose and the ERP client from which the data should be transferred.

Procedure

1. On the *SAP Easy Access* screen, choose *Logistics* > *SCM Extended Warehouse Management* > *Extended Warehouse Management*.
2. Enter the EWM warehouse number, for example, **##60**.
3. Save as a variant, for example, **V##60**.

   ## stands for the country code. For example, 10 for DE and 17 for US. Replace ## with your country code.
4. Define a background job for program `/SCWM/R_VALUATION_SET`. In this example, the job runs daily:
   a. On the *SAP Easy Access* screen, choose *Tools* > *CCMS* > *Background Processing* > *Define Job*.
   b. Enter the name of the job, for example, **EWMVAL_##60** (naming convention: EWMVAL_<warehouse>).
   c. Create step number 1 by choosing *Step*.
   d. In the *ABAP program* screen area, enter program `/SCWM/R_VALUATION_SET` and variant **V##60**.
   e. Save your entries.

      The *Step List Overview* screen appears.
5. Go back.
6. Choose *Start Condition*.

   The *Start Time* screen appears.
7. Choose *Date/Time*.
8. Enter the scheduled start date and time.
9. Select the *Periodic job* checkbox.
10. Choose *Period values*.

    The Period Values screen appears.
11. Select, for example, *Daily* and save your entries.
12. On the *Start Time* screen, save your entries.
13. On the *Define Background Job* screen, save your entries.

3.5.4.7.4 Generating Distribution Model from SAP S/4HANA to SAP EWM in SAP S/4HANA ERP System

Context

You use this procedure to generate the distribution model for the SAP S/4HANA system to Extended Warehouse Management (EWM).

Procedure

1. Access the transaction using one of the following navigation options:

IMG menu	Logistics Execution → Extended Warehouse Management Integration → Basic Setup of Connectivity → Generate Distribution Model from SAP S/4HANA to SAP EWM
Transaction code	`/SPE/OL19`

2. On the *Generate Distribution Model from SAP ERP to SAP EWM* screen, create the following entries:

Field Name	User Action and Values	Comment
Warehouse Number	**`##6`**	## represents the country code: for example, 10 for DE, 17 for US.
EWM's Logical System	`<S/4HANA system name>`**`EWM`**`<Client>`	EWM logical system, for example, **`EWMCLNT001`**
Distribution Model view	**`EWM`**	
Objects	**`All`**	
Action	Create entries	

3. Choose *Execute*.
4. In the dialog box: `EWM Model does not exist and will be created. Do you want to continue?`, choose *Yes*.
5. In the dialog box: `Generate Distribution Model from SAP ERP to SAP EWM`, choose *Continue*.
6. Choose *Back*.

3.5.4.7.5 Mapping Warehouse Numbers from ERP System to EWM in SAP S/4HANA Decentralized EWM System

Context

Procedure

1. Access the activity as follows:

Option	Description
IMG Menu	SCM Extended Warehouse Management → Extended Warehouse Management → Interfaces → ERP Integration → General Settings → Assign Warehouse Numbers from Logistics Execution
Transaction Code	SPRO

2. On the *Change View "Mapping for Warehouse Number": Overview* screen, choose *New Entries* (F5).
3. On the New Entries: overview of Added Entries screen, make the following entries:

Field Name	User Action and Values	Comment
Business System	`<S/4HANA system name>_<Client Number>`	For example **ERP_001**
Whse No. ERP	**##6**	## stands for the country code. For example, 10 for DE and 17 for US.
Warehouse Number	**##60**	## stands for the country code. For example, 10 for DE and 17 for US.

4. Choose *Save*.

3.5.4.7.6 Assigning Business Partner to Plant in SAP S/4HANA Decentralized EWM System

Context

Procedure

1. Access the activity as follows:

Option	Description
IMG Menu	SCM Extended Warehouse Management → Extended Warehouse Management → Interfaces → ERP Integration → General Settings → Assign Business Partners to Plant
Transaction Code	SPRO

2. On the *Change View "Mapping Table for Plant – Business ": Overview* screen, choose *New Entries* (F5).
3. On the *New Entries: overview of Added Entries* screen, make the following entries:

Field Name	User Action and Values	Comment
Plnt	**##10**	## stands for the country code. (for example, 10 for DE and 17 for US)
Logical system	**<S/4HANA ERP system name>CLNT<client number>**	for example, **ERPCLNT001**
Disposal Party	**BP##10**	## stands for the country code. (for example, 10 for DE and 17 for US)

4. Choose *Save*.

3.5.4.7.7 Mapping Storage Locations from ERP System to EWM in SAP S/4HANA Decentralized EWM System

Context

Procedure

1. Access the activity as follows:

Option	Description
IMG Menu	SCM Extended Warehouse Management → Extended Warehouse Management → Interfaces → ERP Integration → Goods Movements → Map Storage Locations from ERP System to EWM

Option	Description
Transaction Code	SPRO

2. On the *Change View "Customizing Mapping Table for ERP Plant Storage Location"* screen, choose *New Entries* and create the following entries:

Plnt	SLoc	Logical system	Warehouse No.	AGrp	Comment
##10	**##6S**	<S/4HANA ERP Logical System> For example, **ERPCLNT001**	**##60**	**002**	## stands for the country code. For example, 10 for DE and 17 for US.

3. Choose *Save*.

3.5.4.7.8 Creating Supply Chain Unit in SAP S/4HANA Decentralized EWM System

Context

Procedure

1. Access the activity as follows:

Option	Description
SAP Menu	SCM Extended Warehouse Management → Extended Warehouse Management → Master Data → Maintain Supply Chain Unit
Transaction Code	/SCMB/SCUMAIN

2. On the *Supply Chain Unit: Initial* screen, enter the following values:

Field Name	User Action and Values	Comment
Supply Chain Unit	**SCU_##60**	XX stands for the country code. (for example 10 for DE and 17 for US)
Type	**1008**	Warehouse

3. Choose *Create*.

4. On the *Supply Chain Unit: Maintenance* screen, on the *General* tab, enter the following data:

Description	Warehouse
Time Zone	**CET**

5. Navigate to the *Address* tab.
6. On the *Supply Chain Unit: Maintenance* screen, on the *Address* tab, enter the following values:

Field Name	Company
Name	**Warehouse**
Search term	**EWM**
Country	**<Country>, for example, DE for Germany**
Region	**<Region>, for example, BW for Germany**
Language	**<Language>, for example, DE German**

7. Navigate to the *Alternative* tab.
8. Choose the *Add Role* button to add the following entries. In case a role already exists, leave it and only add the mission ones. For each entry, you need to use the *Add Role* button.

Business Attribute	Description
INV	**WAREHOUSE**
RO	**GOODS RECEIPT OFFICE**
SO	**SHIPPING OFFICE**

9. Choose *Save*.

3.5.4.7.9 Assigning Warehouse Number in SAP S/4HANA Decentralized EWM System

Context

Procedure

1. Access the activity as follows:

Option	Description
IMG Menu	SCM Extended Warehouse Management →Extended Warehouse Management →Master Data →Assign Warehouse Numbers
Transaction Code	SPRO

2. In the *Determine Work Area: Entry* dialog box, enter:

Field Name	User Action and Values	Comment
Warehouse No	**##60**	##stands for the country code. For example, 10 for DE and 17 for US.

3. Choose *Continue*.
4. On the *Change View "Assignment: Warehouse Number/Business Partner"* screen, choose *New Entries*.

Supply Chain Unit	**SCU_##60**
Custodian	**BP1010**
Dflt Pty EntId	**BP1010**
Default Ship-To	

5. Choose *Save*.

3.5.4.7.10 Uploading Storage Bins in SAP S/4HANA Decentralized EWM System

Context

The different .csv data files referred to in the following sections of this process are available as attachments to the SAP Note 2930991 of the solution package.

Attached to the SAP Note are the following .zip files:

Initial_Storage_Bin_Data_DE.zip

The zip file contains all necessary data to populate storage bin for the example storage types.

To provide storage bin into the storage types, you apply the following .csv file:

Storage_Bins.csv

Procedure

1. Access the activity as follows:

Option	Description
SAP Menu	SCM Extended Warehouse Management → Extended Warehouse Management → Master Data → Storage Bin → Load Storage Bins
Transaction Code	`/SCWM/SBUP`

2. On the *Load Storage Bin* screen, select *Upload Local File* and choose *Open Folder*.
3. Locate the Storage_Bins.csv files on your computer and choose *Open*.
4. Choose *Upload*. The storage bin data can be seen on the *Loaded Storage Bins* tab.
5. Choose *Create Storage Bins*.
6. If the bins are created successfully, they can be checked on the *Successful Changes* tab. Otherwise check the *Failed Changes* tab. Correct the error and upload it again.

3.5.4.7.11 Sorting Storage Bins in SAP S/4HANA Decentralized EWM System

Context

Procedure

1. Access the activity as follows:

Option	Description
SAP Menu	SCM Extended Warehouse Management → Extended Warehouse Management → Master Data → Storage Bin → Sort Storage Bins
Transaction Code	`/SCWM/SBST`

2. On the *Create Bin Sorting* screen, enter the following values:

Field Name	User Action and Values	Comment
Warehouse No	**`##60`**	##stands for the country code. For example, 10 for DE and 17 for US.
Activity Area		Leave blank

Field Name	User Action and Values	Comment
Activity		Leave blank

3. Choose *Execute*.
4. On the *Simulation of Bin Sorting* screen, choose *Create Bin Sorting* (F8).
5. The system issues a success message.

3.5.4.7.12 Maintaining Warehouse Product Attributes in the SAP S/4HANA Decentralized EWM System

Context

This section describes how to maintain Warehouse Product Attributes with the Manage Product Master Data (F1602) app. This app can be used for single changes.

Procedure

1. Log on to the SAP Fiori launchpad as the *Master Data Specialist - Product Data*.
2. Open *Manage Product Master Data* (F1602).
3. On the *Manage Product Master Data* (F1602) screen, enter the following data:
   - *Product:* `<Material Number>`
   - Choose *Go*.

   The material master data is displayed in the *Product* section.
4. Select the row of the material master data.
5. On the *Product* screen, choose the *Warehouse Management* tab and go to *Warehouse Management* > *Warehouse*.
6. On the *Product* screen, choose *Edit*.
7. In the *Warehouse* section, select the warehouse number for your warehouse. If your warehouse number does not exist, choose *Create*.
8. On the *Warehouse* screen, enter the following data in the *General Information* section:
   - *Warehouse:* `<EWM Warehouse Number>`
   - *Party Entitled to Dispose:* `<Business Partner ID for the Party Entitled to Dispose>`
   - *Process Type Determination Indicator*
   - *Cycle Counting Indicator*

   Only *Warehouse* and *Party Entitled to Dispose* are mandatory for input. The following values are optional:
   - In the *Putaway* section: *Putaway Control Indicator*

- In the *Stock Removal* section: *Stock Removal Control Indicator*

In the Cloud Warehouse Management, the *Putaway Control Indicator* and the *Stk Rmvl Ctrl* Indicator are maintained with the same value. However, in the replenishment process used in the warehouse, these two fields have to be maintained differently to enable the process.

9. In the Storage Types section, choose *Create*.

   On the *New Record – Storage Type* screen, enter the following data:

   In the General Information section:

   - *Storage Type:* `<Storage Type>`
   - *Maximum Number of Bins:* `<Number of Bins>`

   In the *Replenishment* section:

   - *Minimum Replenishment Quantity / Display UoM:* `<Quantity / UoM>`
   - *Minimum Quantity / Display UoM:* `<Quantity / UoM>`
   - *Maximum Quantity / Display UoM:* `<Quantity / UoM>`

10. Choose *Apply*.
    The warehouse data is saved.
11. Make the following entries for the sample master data:

    ##stands for the country code. For example, 10 for DE and 17 for US.

Product	Warehouse	Party Entitled to Dispose	Putaway Control Indicator	Stock Removal Control Indicator	Bulk Storage Indicator	Storage Type	Minimum Replenishment Quantity/Display uom
TG11	##60	BP##10	S001	S001			
TG12	##60	BP##10	SF01	SF01			
TG21	##60	BP##10	SB01	SB01	B3		
TG0011	##60	BP##10	SG01	SG01			
TG0012	##60	BP##10	SG01	SF01		SF01	1 PAL
TG0013	##60	BP##10	SG01	SG01			

3.5.4.7.13 Defining Default Values for Deliveries in SAP S/4HANA ERP System

Context

This activity defines the default values that should be used for deliveries for each warehouse number.

Procedure

1. Access the activity using the following navigation option:

Option	Description
IMG Menu	Logistics Execution → Decentralized WMS Integration → Central Processing → Application → Define Interface to Inventory Management and Delivery-Relevant Data → Define Default Values for Deliveries
Transaction Code	SPRO

2. On the *Change View "Default Values WMS (Delivery-Relevant Data for Whse No.)"* screen, select the entry *Warehouse Number XX6* (XX stands for the country code, e.g. 10 for DE and 17 for US.) and then choose *Details*(Ctrl + Shift + F2).
3. On the next screen, make the following entries:

Field Name	User Action and Values	Comment
Ship-to party	**BPXX10**	## stands for the country code. For example, 10 for DE and 17 for US.
Vendor	**BPXX10**	## stands for the country code. For example, 10 for DE and 17 for US.
Shipping Point	**XX10**	## stands for the country code. For example, 10 for DE and 17 for US.
Sales Organization	**XX10**	## stands for the country code. For example, 10 for DE and 17 for US.
Distribution Channel	**10**	
Division	**00**	

4. Choose *Save*.

3.5.4.7.14 Skipping Request for Messages from ERP in SAP S/4HANA Decentralized EWM System

Context

With this customizing activity, you can skip the request or notification of a warehouse request and create a processing document (for example, inbound delivery) directly when you replicate a delivery from ERP. Please note that you have to enable the Decentralized EWM to make this setting. See details at Enabling Decentralized EWM [page 106].

Procedure

1. Access the activity using the following navigation option:

Option	Description
IMG Menu	SCM Extended Warehouse Management → Extended Warehouse Management → Interfaces → ERP Integration → ERP Integration for Decentralized EWM → Skip Request for Messages from ERP
Transaction Code	SPRO

2. On the *Change View "Skip Request in ERP Integration": Overview* screen, choose *New Entries*(F5).
3. On the *New Entries: Details of Added Entries* screen, make the following entries:

Field Name	User Action and Values	Comment
Doc. Categ.	Leave blank.	
Document Type	Leave blank.	
Warehouse No.	**XX60**	## stands for the country code. For example, 10 for DE and 17 for US.
Business System	Leave blank.	
Skip Request	**X**	

4. Choose *Save*.

3.5.4.7.15 Settings for Printing in SAP S/4HANA Decentralized EWM System

This section describes the required settings for printing in an SAP S/4HANA decentralized EWM system.

Carry out the following settings for printing in an SAP S/4HANA decentralized EWM system:

- Maintaining Warehouse-Specific Printing Parameters [page 189]
- Spool Administration [page 189]
- Creating Condition Records for HU Printing [page 191]
- Creating Condition Records for Printing (Warehouse Orders) [page 195]
- Creating Condition Records for Printing (Physical Inventory) [page 197]

3.5.4.7.15.1 Maintaining Warehouse-Specific Printing Parameters

Context

You maintain spool data for grouping printing parameters (such as time point for printing, printer, handling of the spool job after printing, text for cover page, and so on) to be used for the condition record creation.

Procedure

1. Access the activity as follows:

Option	Description
SAP Menu	SCM Extended Warehouse Management → Extended Warehouse Management → Work Scheduling → Print → Settings → Maintain Warehouse-Specific Printing Parameters
Transaction Code	`/SCWM/60000431`

2. On the *Change View "Default Printer": Overview* screen, select the entry for `<Decentralized Warehouse Number>`, for example *XX60*.

   XX stands for the country code. (for example *10* for DE and *17* for US.)
3. In the Dialog Structure, double-click *Spool Parameters*.
4. On the *Change View "Spool Parameters": Overview* screen, choose *New Entries*.
5. Create the following entries:

Spool Data	Output Device	I	R	NewSplReq	Copies
01		[X]	[X]	[X]	1

6. Choose *Save*.

3.5.4.7.15.2 Spool Administration

Context

Procedure

1. Access the activity as follows:

Option	Description
SAP Menu	Tools → CCMS → Print → Spool Administration
Transaction Code	SPAD

2. On the *Spool Administration: Initial Screen* screen, on the *Devices / servers* tab, in the *Output Devices* row, choose the *Display* button.
3. On the *Spool Administration: List of Output Devices* screen, choose *Change*  .
4. On the *Spool Administration: List of Output Devices (Change)* screen, choose *Create*  .
5. On the *Spool Administration: Create Output Device* screen, enter the following values:

Field Name	User Action and Values	Comment
Output Device	**SDP1_XX**	XX stands for the country code. (for example 10 for DE and 17 for US)
Short Name	**SDXX**	XX stands for the country code. (for example 10 for DE and 17 for US)

6. On the *Device Attributes* tab, make the following entries:

Field Name	User Action and Values	Comment
Device Type	**<HPLJIIID HP Laserjet 3 series PCL-5>**	You must provide some device type. Otherwise applications using the printer don't generate spool requests. You may choose another value from the F4 Help.
Spool Server	**<ldcixxx_XXX_##>**	Enter the actual spool server name that you get from your system admin.
Device Class	**_ Standard printer**	(Default)
Location	**Packing Work Center Outbound Whse.** **<Decentralized WH> for example XX60**	XX stands for the country code. (for example 10 for DE and 17 for US)

7. On the *Access Method* tab, make the following entries:

Field Name	User Action and Values	Comment
Host Spool Access Method	**L L: Print Locally Using LP/LPR**	

Field Name	User Action and Values	Comment
Host printer	**SDP1_XX**	XX stands for the country code. (for example 10 for DE and 17 for US)

8. On the *Output Attributes* tab, make the following entries:

Field Name	User Action and Values	Comment
SAP cover page language	**EN**	

9. Choose *Save*.

> → Remember
>
> - Choose *Device Attributes* where it is necessary to enter the *Device Type* and customer-specific *Spool Server* for each printer. Please contact your system administrator to obtain the information. Afterwards, choose *Access Method* to enter the *Host printer* and the *Host name*.
> - Make sure that the customer provides the necessary information and refer to SAP Note 1036961 for setup details.
> - For the *Host Spool Access Method*, if you are setting up local printing (printing from the spool system of the local SAP server) from a Windows NT server, you must choose *Access Method C: Directing operating system call*. If the SAP server is Unix, then you must set up with *Access Method L: Print Locally Using LP/LPR*.
> - Please note that *Access Method C* is a local access method, so usually the spool is passed by the SAP spool process to the spool system of the SAP Windows server. The printer also has to be defined in the *Windows Print Manager* of the SAP Windows server with exactly the same name as in the *Host Printer* field of the output device definition in SPAD. Please contact your O/S administrator of the Windows server for *Host Printer* names.

3.5.4.7.15.3 Creating Condition Records for HU Printing

Context

Procedure

1. Access the activity as follows:

Option	Description
SAP Menu	Logistics → SCM Extended Warehouse Management → Extended Warehouse Management → Work Scheduling → Print → Settings → Create Condition Records for Printing (HUs)
SAP Menu	`/SCWM/PRHU6`

2. On the General Condition Maintenance screen, enter the following:

Option	Description
Application	**PHU**
MaintenanceGrp	**PHU**
Maintenance context	**GCM**

3. Choose *Execute*.
4. On the *Condition Record – Process* screen, in the *Item* area, enter the following:

Option	Description
CCtC	**0HU1**

5. Choose `Enter`.
6. In the Selection of key combination dialog box, select the following:

U	Cond.Table	Short text
PH	*SAPHU002*	*Print HU: Warehouse, Step, Type, Pack. Material, Work Center*

7. Choose *OK*.
8. On the *Condition Record – Process* screen, in the Item area, enter the following:

Option	Description
CCtC	**0HU1**
Completed	
HU Type	
WhN	**XX60**
HU Step	**I**
Pack.Mat.	
Work Cntr.	**PACK**
Form	**/SCWM/HU_LABEL**
Printer	**SDP1_XX**
PPool	
Spool Data	**01**
Action	**HU_LABEL_GENERAL_AND_RF**
No Print	

Option	Description
No. Copies	
Type	
Log. Cnd.	
Seq. No.	
From	
To	

9. Choose *Enter*.

> **i Note**
>
> - XX in the *WhN* and the *Printer* name stands for the country code. (for example 10 for DE and 17 for US)
> - *From* is automatically set to `<today>`; *To* is automatically set to 12/31/9999, and a new empty row is added.
> - The condition record makes sure a simple HU ID label indicating the newly created HU Identification number including a bar code can be printed. The condition record covers the HU creation at Packing Work Center PACK.

10. Enter in the new empty row:

Option	Description
CCtC	**0HU1**
Completed	**X**
HU Type	
WhN	**XX60**
HU Step	**U**
Pack.Mat.	
Work Cntr.	**PACK**
Form	**/SCWM/HU_SHPLABEL**
Printer	**SDP1_XX**
PPool	
Spool Data	**01**
Action	**HU_SHPLABEL_GENERAL_AND_RF**
No Print	
No. Copies	
Type	
Log. Cnd.	
Seq. No.	
From	

Option	Description
To	

11. Choose Enter.
12. Enter in the new empty row:

Option	Description
CCtC	**0HU1**
Completed	**X**
HU Type	
WhN	**XX60**
HU Step	**U**
Pack.Mat.	
Work Cntr.	**PACK**
Form	**/SCWM/HU_CONTENT**
Printer	**SDP1_XX**
PPool	
Spool Data	**01**
Action	**HU_CONTENT_GENERAL_AND_RF**
No Print	
No. Copies	
Type	
Log. Cnd.	
Seq. No.	**2**
From	
To	

> **i Note**
>
> The condition record makes sure an HU ID shipping label can be printed. The condition record covers the HU update (for example as a result of the close HU operation) at the Packing Work Center PACK.

13. Choose *Save*.
14. The condition table should look as follows:

CCtC	Completed	HU Type	WhN	HU Step	Pack.Mat.	Work Cntr.	Form	Printer	PPool	Spool Data	Action	No Print	No. Copies	Type	Log. Cnd.	Seq. No.
0HU1			XX60	I		PACK	/SCWM/HU_LABEL	SDP1_XX		01	HU_LABEL_GENERAL_AND_RF					
0HU1	X		XX60	U		PACK	/SCWM/HU_SHPLABEL	SDP1_XX		01	HU_SHPLABEL_GENERAL_AND_RF					
0HU1	X		XX60	U		PACK	/SCWM/HU_CONTENT	SDP1_XX		01	HU_CONTENT_GENERAL_AND_RF					2

> **i** Note
>
> XX in the *WhN* and the *Printer* name stands for the country code. (for example 10 for DE and 17 for US)

3.5.4.7.15.4 Creating Condition Records for Printing (Warehouse Orders)

Context

Procedure

1. Access the activity as follows:

Option	Description
SAP Menu	SCM Extended Warehouse Management → Extended Warehouse Management → Work Scheduling → Print → Settings → Create Condition Records for Printing (Warehouse Orders)
SAP Menu	`/SCWM/PRWO6`

2. On the *General Condition Maintenance* screen, enter the following:

Field name	User action and values
Application	**PWO**
MaintenanceGrp	**PWO**
Maintenance context	**GCM**

3. Choose *Execute*.
4. On the *Condition Records - Process* screen, in the *Item* area, enter:

Field name	User action and values
CCtC	**0001**

5. Choose `Enter`.
6. Create the following entries:

WhN	Status	AA	WhsePrcTpe	Form	Printer	PPool	Spool Data	Action
XX60				**/SCWM/WO_SINGLE**	**SDP1_XX**		**01**	**WO_SINGLE**

> **i** Note
>
> XX in the *WhN* and the *Printer* name stands for the country code. (for example 10 for DE and 17 for US)

7. Choose *Save*.

3.5.4.7.15.5 Creating Condition Records for Printing (Physical Inventory)

Context

In this IMG activity, you define the condition records for printing physical inventory documents with the Post Processing Framework (PPF).

Procedure

1. Access the activity as follows:

Option	Description
SAP Menu	SCM Extended Warehouse Management → Extended Warehouse Management → Work Scheduling → Print → Settings → Create Condition Records for Printing (Physical Inventory)
Transaction Code	`/SCWM/PRPI_GCM`

2. On the *General Condition Maintenance* screen, enter the following:

Field name	User action and values
Application	**PPI**
MaintenanceGrp	**PI**
Maintenance context	**GCM**

3. Choose *Execute*.
4. On the *Condition Records - Process* screen, enter:

Field name	User action and values
CCtC	**0001**

5. Choose *Enter*.
6. Create the following entries:

WhN	Processor	PI Area	Form	Printer	PPool	Spool Data	Action Definition	No Print	Det. No. of C	Form Type
XX60		**S001**	**/SCWM/PI_CNT_FIORI**	**SDP1_X**		**01**	**PI_COUNT_FIORI**		**1**	**A**

WhN	Pro-cessor	PI Area	Form	Printer	PPool	Spool Data	Action Defini-tion	No Print	Det. No. of C	Form Type
XX60		S970	/SCWM/PI_CNT_FIORI	SDP1_XX		01	PI_COUNT_FIORI		1	A
XX60		SB01	/SCWM/PI_CNT_FIORI	SDP1_XX		01	PI_COUNT_FIORI		1	A
XX60		SF01	/SCWM/PI_CNT_FIORI	SDP1_XX		01	PI_COUNT_FIORI		1	A
XX60		SG01	/SCWM/PI_CNT_FIORI	SDP1_XX		01	PI_COUNT_FIORI		1	A

> **i** Note
>
> XX in the *WhN* and the *Printer* name stands for the country code. (for example 10 for DE and 17 for US)

7. Choose *Save*.

3.5.4.7.16 Settings for Attachment Services in SAP S/4HANA Decentralized EWM System

Context

You use this procedure to set up attachment services in the SAP S/4HANA decentralized EWM system.

To use the attachment services, carry out the following procedures in the SAP S/4HANA decentralized EWM landscape:

Procedure

1. Setting Up SAP S/4HANA Attachment Services (Back End System) [page 36]
2. Setting Up SAP S/4HANA Attachment Services (Front End System) [page 40]

3.5.4.8 Creating Approvers

This section describes the general steps required to create approvers in SAP S/4HANA (on premise). For the required customizing for business partner synchronization to work in the system, refer to the relevant section in the Installation Guide.

Prerequisite: The HCM module has to be installed before carrying out the following procedures:

Creating an Employee [page 199]

Assigning a User to an Employee [page 201]

Defining the Email Address of an Employee [page 202]

Business Partner Synchronization [page 202]

Changing the Organizational Structure [page 203]

3.5.4.8.1 Creating an Employee

Context

In this step, you create an employee.

Prerequisites

Customizing settings for Business Partner and Personal Administration master data have to be complete.

Procedure

1. Access the activity using one of the following navigation options:

SAP Easy Access	*SAP Menu* > *Human Resources* > *Personnel Management* > *Administration* > *HR Master Data* > *Maintain*
Transaction Code	`PA30`

2. On the *Maintain HR master data* screen, select *Actions* on the *Basic personal data* tab and choose the *Create* (F5) icon.
3. Make the following entries:

Field	Value
Start	Enter the validity start date (for example **01.01.2016**)
Action Type	**Hiring**
Reason for Action	leave blank
Position	**99999999**
Personnel area	For example **1010**
Employee group	**1**
Employee subgroup	**Y1**

4. Choose *Save*.
5. On the *Create Actions* screen, make the following entries:

Field	Value
Start	Enter the validity period (for example **01.01.2016 to 31.12.9999**)
Title	**Mr** or **Mrs**
Last name	<Last name>, for example **Approver**
First name	<First name>, for example **General**
Name prefix	<Name prefix>
Birth date	<Birth date>
Language	<Language> (for example English)
Nationality	<Nationality>

6. Choose *Save*.
7. On the *Create Organizational Assignment* screen, make the following entries:

Field	Value
Start	Enter the validity period (for example **01.01.2016 to 31.12.9999**)
Subarea	Enter your Subarea for example **1010**

8. Choose *Save*.
9. Enter *Permanent Residence address* with *Infotype 0006* and *Subtype 0001*.

10. Choose *Save*.
11. On the *Create Planned Working Time* screen, choose *Save*.
12. On the *Create Bank Details* screen, choose *Save*.

    The employee record has been successfully created.

> **i** Note
>
> In case of further questions, create a BCP ticket on the component `PA-PA-XX`.

3.5.4.8.2 Assigning a User to an Employee

Prerequisite

The user is available in transaction `SU01`. If the user is not available, create the user with transaction `SU01`.

Procedure

1. Access the activity using one of the following navigation options:

SAP Easy Access	*SAP Menu* > *Human Resources* > *Personnel Management* > *Administration* > *HR Master Data* > *Maintain*
Transaction Code	`PA30`

2. On the *Maintain HR master data* screen, select a *Personnel no.* that you created in the previous steps from the list.
3. Enter *Infotype 105* and *Sty 0001* and choose *Create* (F5).
4. Enter the user ID in the *System ID* field.
5. Choose *Save*.

> **i** Note
>
> In case of further questions, create a BCP ticket on the component `PA-PA-XX`.

3.5.4.8.3 Defining the Email Address of an Employee

Procedure

1. Access the activity using one of the following navigation options:

SAP Easy Access	*SAP Menu* > *Human Resources* > *Personnel Management* > *Administration* > *HR Master Data* > *Maintain*
Transaction Code	`PA30`

2. On the *Maintain HR master data* screen, select a *Personnel no.* that you created in the previous steps from the list.
3. Enter *Infotype 105* and *Sty 0010* and choose *Create* (F5).
4. Enter the e-mail address in the System ID field.
5. Choose *Save*.

> **i Note**
>
> In case of further questions, create a BCP ticket on the component `PA-PA-XX`.

3.5.4.8.4 Business Partner Synchronization

Context

In this step, you transfer employee data to the business partner persistence.

If you don't carry out this step, many SAP S/4HANA processes don't work and you cannot find data in the employee CDS views.

This step is not required if the system setup is complete. In this case, the synchronization is automatically started and data is available within the business partner persistence some minutes after the employee is created.

> **i Note**
>
> As of SAP S/4HANA 1809, the job `/SHCM/RH_SYNC_BUPA_FROM_EMPL` is not started automatically via the technical job repository and has to be planned manually.

If the automatic sync is not active, it can be triggered manually:

The report recommended for creating a business partner for single employees is `/SHCM/RH_SYNC_BUPA_EMPL_SINGLE`.

Procedure

1. Start transaction `SA38` and enter **`/SHCM/RH_SYNC_BUPA_EMPL_SINGLE`** in the *Program* field and choose *Execute* (F8).
2. On the *S/4HANA BUPA Synchronization* screen, enter the previously created personnel number of the employee and choose *Execute* (F8).
3. Choose the *Back* button

   Synchronization of business partner for the employee is complete.
4. To check the synchronization log for both manual and automated execution of the synchronization reports, start transaction `SLG1`.
5. On the *Analyze Application Log* screen, make the following entries:

Field	Value
Object	**`SHCM_EE_INTEGRATION`**
Subobject	**`BUPA_SYNC`**

6. **Choose** *Execute* (F8).

   You can check the result in the application log.

> **i** Note
>
> In case of further questions, create a BCP ticket on component `CA-HR-S4`.

3.5.4.8.5 Changing the Organizational Structure

Context

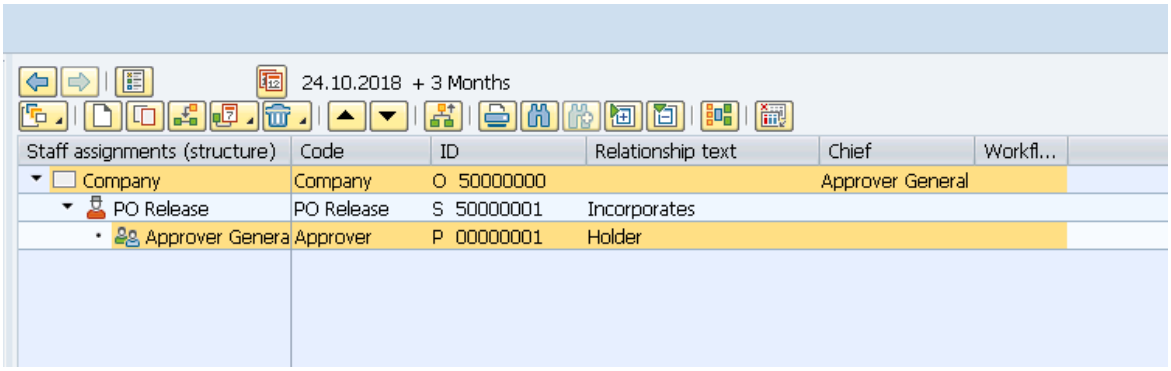
In this step, you assign the position and the organizational unit to a previously created employee and grant the employee permission to release a purchase order.

Procedure

1. Access the activity using one of the following navigation options:

IMG Menu	*SAP Menu* > *Logistics* > *Customer Service* > *Service Processing* > *Environment* > *Organization* > *Organizational Plan* > *Organization and Staffing* > *Change*
Transaction Code	`PPOME`

2. Select *Position*: **`PO Release`**.
3. Select the checkbox *Head of own organizational unit* and choose *Enter*.
4. Select the Position you just created and choose the *Assign* button.
5. On the *Choose Relationship* screen, double-click *Person*.
6. On the *Person* screen, choose *Enter* to start the search.
7. Select an employee that you created in section Creating an Employee [page 199] and choose  to copy.
8. On the popup *Save data changes you have made so far?*, choose the *Save now* button.
9. Either create a new Customizing request or choose an existing Customizing request when you are asked to enter the transport request number and choose *Continue* (`Enter`).
10. Repeat steps 6 - 9 for all users who need permission to approve workflow items in *MyInbox*.



> **i** Note
>
> In case of questions, create a BCP ticket on the component `BC-BMT-OM`.

3.5.5 Evaluating Business Content / Scope Items

The following sections address the **business consultant** who makes sure that the business processes work as desired.

Review of business scope items

For an overview and detailed information about the SAP Best Practices scope items in the system, the business consultant can refer to the following deliverables in the documentation package available in the Best Practices Explorer. The country-specific documentation package can be downloaded from the SAP Software Download Center.

You can use the documents to review the business scope items that interest you. With test scripts, you can run through scope items in the system.

Deliverable	Content
Test scripts	Provide a detailed process step description of the business scope item.
Master data scripts	Describe how you can create your own master data before you test the processes.
Process diagrams	Provide a graphical overview of the scope item process flow.
Generated configuration information	Contain information about the configuration settings for the corresponding scope item, building block or activity. You can use the generated documents to track which system settings have been configured for the selected entity (see Generating Configuration Information [page 62]). For technical reasons, not all scope items have configuration applied at the top level. For these scope items, the necessary configuration is described in the configuration information of the underlying building blocks.

3.5.6 Prerequisites for Testing Scope Items

Some scope items are part of a sequence of scope items that describe an end-to-end process. Other scope items may require certain master data before you can execute the process steps in the system.

Before you start the process test of scope items in the system, refer to the Availability and Dependencies of Scope Items document. It describes the dependencies between scope items and provides guidance on the sequence in which they can be tested in a meaningful way.

The document also specifies for scope items which master data scripts from the Master Data Catalog for SAP S/4HANA - on premise you have to go through to create the prerequisite settings in the system.

3.6 Executing Manual Rework Activities

Prerequisites

The System Administrator ensures that the transport landscape is set up so that transport requests (Workbench and Customizing requests) created in the client in which the solution package was initially activated can be released to the target system/client(s).

In the back end system, the System Administrator uses transaction **SCC1** to copy transport requests to specific target client(s).

Context

When you initially activate your solution in the Development system, some required Customizing or configuration activities and master data **cannot** be recorded in transport requests. To bring these settings into the Production system, you run a manual rework procedure. This procedure compiles all activities in the SAP Best Practices content that are flagged as relevant for manual rework into a dedicated solution.

The target client in the Production system is set up with transports based on the initial activation of the solution excluding the settings for which manual configuration is required. You import the manual rework solution into the target client and execute these tasks manually.

Generating a manual rework solution

Context

You run the procedure in the client in which your solution was initially activated.

Procedure

1. Start transaction **/n/SMB/BBI**.
2. On the *Solution Builder - Solution Editor* screen, select the solution that you previously activated and choose *Favorite* to set it as a favorite.
3. In the menu bar, choose *Solution* > *Procedures* > *Start a procedure*.
4. In the *Execute a Solution Processing Procedure* dialog box, choose the procedure *Manual Rework Required* and choose *OK*.

Results

The system generates a manual rework solution *MRR_<solution name>*, which consists of scope items and building blocks with the same prefix. The manual rework solution also contains manual steps which were added based on metadata in the reference solution.

Transferring a manual rework solution to the target client

Prerequisites

On the *Solution Builder - Solution Editor* screen, the manual rework solution is set as a favorite.

Context

The manual rework solution can be transferred to the target client for execution. You download the solution file in the client in which you have generated the solution.

Procedure

1. Download the manual rework solution from the activation client:
    a. On the *Solution Builder - Solution Editor* screen, choose *Solution* > *Export* > *Solution (XML)* in the menu bar to download the solution file.
    b. Save the XML solution file locally.
2. Import the manual rework solution into the target client:
    a. Log on to the target client.
    b. Start transaction **`/n/SMB/BBI`**.
    c. On the *Solution Builder - Solution Editor* screen, choose *Solution* > *Import* > *Solution (XML)* > *From local file* in the menu bar.
    d. Select the XML solution file and upload the file.

Activating a manual rework solution

Procedure

1. Start the activation of the manual rework solution in the target client.

> **i Note**
>
> For generic information about the activation process, see Activating a solution in the online help of SAP Best Practices Solution Builder.

2. Process manual tasks according to the Manual Rework Activities Guide.

   Refer to the relevant building block section in the guide. Follow the instructions which transaction or IMG activity you need to access to check the manual rework steps.

   > **i Note**
   >
   > Consider that some activities can be transported manually from the client in which the solution was initially activated into the target client. If this is possible, you execute the step in the source client and then transport it to the target client. This information is provided in the Manual Rework Activities Guide.

3. Confirm manual steps after processing them in the target client.

Results

When evaluating the business content, the business consultant checks whether all required settings and master data are available in the target client and the business processes run as described in the test scripts.

3.7 Deleting the Metadata Cache

Context

You delete the cached metadata after completing complex processes like the activation and export/import of solutions.

Procedure

1. Start transaction **SPRO**.
2. Open the *SAP Reference IMG*.
3. Choose *ABAP Platform* > *SAP Gateway Service Enablement* > *Backend OData Channel* > *Support Utilities* > *Clear Cache*.
4. On the *Cleanup of Model Cache* screen, choose *Cleanup Cache for all Models*.

5. Choose  *Execute*.

3.8 Checking and Releasing the Transports

Context

For the following cases, check the workbench and customizing transport requests created before releasing them to the Quality system (from where you transport them to the Production system):

User activity that caused changes	Relevant transport requests
Activation	All transport requests entered by implementation team members when starting the activation from the *Implementation Assistant* of the *Solution Builder* **i Note** You activate in the DEV system only. You use transport requests to provide the Quality and Production systems with business configuration.
Configuration changes carried out in transaction SPRO in order to correct settings that caused activation errors.	All transports created via transaction SPRO.

3.8.1 Workaround for Manually Transporting the Payment Card Type

Context

The following procedure is a workaround for a missing transport of payment card type 93 to the production system. Perform the following steps to manually transport the settings (relevant for scope item 1Z1, building block 2DJ, all country versions, affected building blocks 2CU, 2E6, 2B3):

Procedure

1. Log on to the Q system and start transaction `SE01`.
2. Choose the *Display* tab.
3. Choose an existing customizing request which is ready for release to the production system or create a customizing request by entering a description, project and transport target.
4. In the *Transport Organizer: Requests* overview screen, open the tree of the relevant customizing request and double-click on the *Customizing Task* level.
5. Switch to change mode.
6. Choose the *Object* tab. Make the following entries:

Field	Input Value
Program ID	**R3TR**
Object Type	**VDAT**
Object Name	**V_TFPLA_T_TRANS**

7. In the *Function* column, choose the bottom *Object with keys* button.
8. In the *Table Name* field enter **TFPLA** and choose *Enter*.
9. Double-click the new row and make the following settings:

Field	Input Value
Client	**<Client number of Q system>**
BillingPlanType	**93**

10. Choose *Continue*.
11. In a new row, in the *Table Name* field enter **TFPLB** and choose *Enter*.

12. Double-click the new row and make the following settings:

Field	Input Value
Client	**<Client number of Q system>**
Language	<Language Key, for example **E** for English>
BillingPlanType	**93**

13. Choose *Continue*.
14. Choose *Save*.
15. Release the transport request to the Production system.

3.9 Handling Data Migration Content

In S/4HANA (on premise), there are two options to migrate data into SAP HANA. This section describes two alternatives for handling data migration content.

Alternative 1: SAP Data Services

To migrate data into an S/4HANA (on premise) system, SAP recommends using SAP Data Services. SAP offers content that is free of charge to speed up the data migration. On the SAP Best Practices Explorer, you can find content that is specifically created for the new SAP S/4HANA target system, its interfaces and data structures. The content is free of charge and can be downloaded under rapid data migration to SAP S/4HANA (on premise) V6.42.

Alternative 2: SAP S/4HANA Migration Cockpit

Customers implementing SAP Best Practices for S/4HANA can take advantage of the SAP S/4HANA Migration Cockpit that is built-in to SAP S/4HANA. There are two migration approaches available:

- A file based migration approach for new SAP customers
- Migration of data from a source SAP system for existing customers

> **i Note**
>
> Before using the SAP S/4HANA Migration Cockpit, check the available content. For the general positioning of tools, refer to SAP Note 2287723.

3.10 Known Issues

3.10.1 Preventing Out of Memory Dumps

Context

Some activities like the upload of installation data or defining the scope of customer solutions might cause a high memory consumption. Problems can be prevented by setting the memory quotas high enough. Allowing up to 6 GB HEAP memory per session should help to avoid memory related short dumps. After activating the SAP Best Practices for SAP S/4HANA solution, the memory settings **have to be reverted back to the original value**.

Procedure

1. Open transaction **RZ10**.
2. Set the parameter *abap/heap_area_dia* to 6 GB.
   For more information see: abap/heap_area_dia: Heap Memory Limit for Dialog Work Processes
3. Make sure that the parameter *PHYS_MEMSIZE* is set correctly. You can find more information about the correct settings in the documentation for the parameter (click on the  *Display Documentation* icon).
4. Restart the server.

> → Remember
>
> Revert the settings back to the original value after activating the solution.

4 Upgrade

Please pay attention to the following sections when upgrading to a new release. They contain settings and/or processes used for the implementation that change with the new release.

4.1 Configuring Settings in the Back End System for Context-Sensitive User Assistance

Use transaction `HELP_CONFIG` to create front-end and back-end settings to display user assistance.

For more information, refer to the section *User Assistance Settings* in the *Installation Guide for SAP S/4HANA 2022* which you can find on the SAP S/4HANA product page.

4.2 Assigning Business Roles to a User

Context

If you use the SAP Fiori launchpad as a user interface, a prerequisite is that roles are assigned to your Fiori user in the NetWeaver Gateway system.

SAP delivers a bundle of business roles as templates for customers. Copy all *BR* roles for SAP Best Practices for SAP S/4HANA from the Gateway Server to your namespace.

> **i** Note
>
> `SAP_BR*` roles are **not** designed as productive roles. They are demo roles that enable system users to try out the predefined scope items of SAP Best Practices for SAP S/4HANA using the SAP Fiori launchpad.
>
> For productive use, you should **always copy** the delivered roles and **adapt** them as required. In addition, you define and implement an appropriate authorization concept.

The options for assigning business roles are as follows:

- You assign **roles needed for a specific scope item only**. In this case, check the related test script for the required roles in the *Roles* section. You can find the test scripts in the SAP Best Practices documentation package.

- You assign **all roles needed for SAP Best Practices for SAP S/4HANA**. In this case, assign all business roles to your user.

Procedure

1. In the SAP Gateway system, choose one of the following navigation options:

Transaction Code	SU01
SAP Menu	*Tools* > *Administration* > *User Maintenance* > *Users*

2. In the *User Maintenance* screen, enter the user ID of the user who you want to assign a role to.
3. Choose *Change*.
4. In the *Maintain User* view, choose the *Roles* tab.
5. In the *Role* field, enter the role name. Use the wildcard ***BR*** to search for all relevant roles. You can assign several roles to a user at this stage if necessary.
6. Choose *Enter*, save, and go back to the *SAP Easy Access* view.

Results

The roles are now assigned to the user. These roles are referred to in the test script.

4.3 Executing Basic SAP Fiori Configuration

Context

With SAP S/4HANA, all new functions, features, and innovations are accessible in the SAP Fiori launchpad. Using the launchpad, you can call up all apps for which you have been granted access. These can be SAP Fiori apps, as well as apps based on Web Dynpro and SAP GUI for HTML technology.

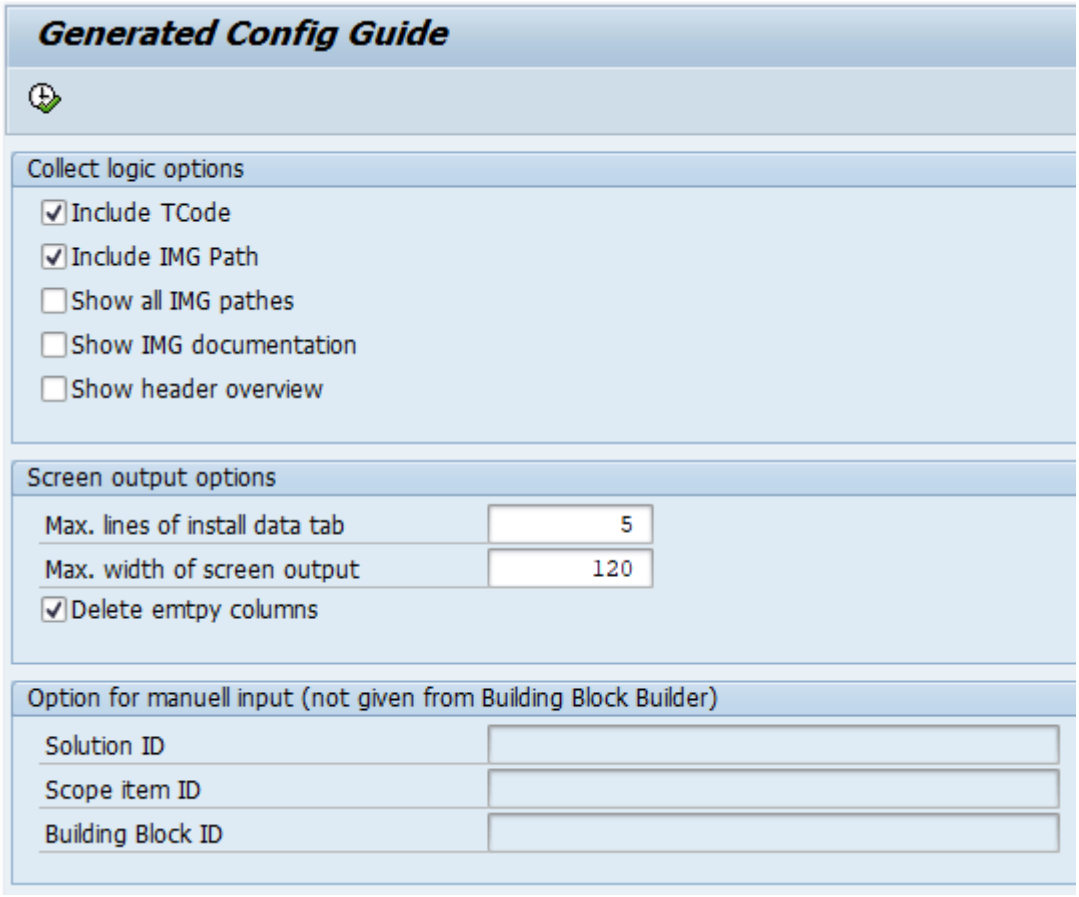
To carry out the basic SAP Fiori configuration, apply the settings as described in the SAP S/4HANA product assistance: under *Discover* > *Product Assistance* > *Enterprise Technology* > *SAP Fiori* > *SAP Fiori Overview*.

SAP Fiori Overview explains how to set up a front end server including the SAP Fiori launchpad, and how to implement the individual apps. The target audience for the guide is system administrators and technical consultants.

> **i Note**
>
> See section Exporting Metadata Lists for Fiori UI Add-Ons and OData Services [page 21] for getting the technical data for the required UI add-ons for SAP Best Practices for SAP S/4HANA.

4.4 Generating Configuration Information

As of release 1909, configuration guides are deprecated in the SAP Best Practices for SAP S/4HANA package. Instead, you generate configuration information in the system for each level in the configuration hierarchy: for activities, folders, Building Blocks, scope items, or for the whole solution. A report generates a document containing information about the selected entity with its Customizing objects and sub objects, transaction codes and paths in the IMG (incl. IMG documentation if available) as well as the content (installation data) to be maintained.



Use one of the following 2 options to access the configuration report::

Option 1: Use *Solution Builder - Building Block Builder* (for a selected configuration level)

Option 2: Use transaction *Generated Configuration Information* (`/N/SMB/CONFIG_GUIDE_UI`). In this case, you manually select the Solution ID, Scope item ID, or Building Block ID for which you would like to generate the configuration document.

Procedure

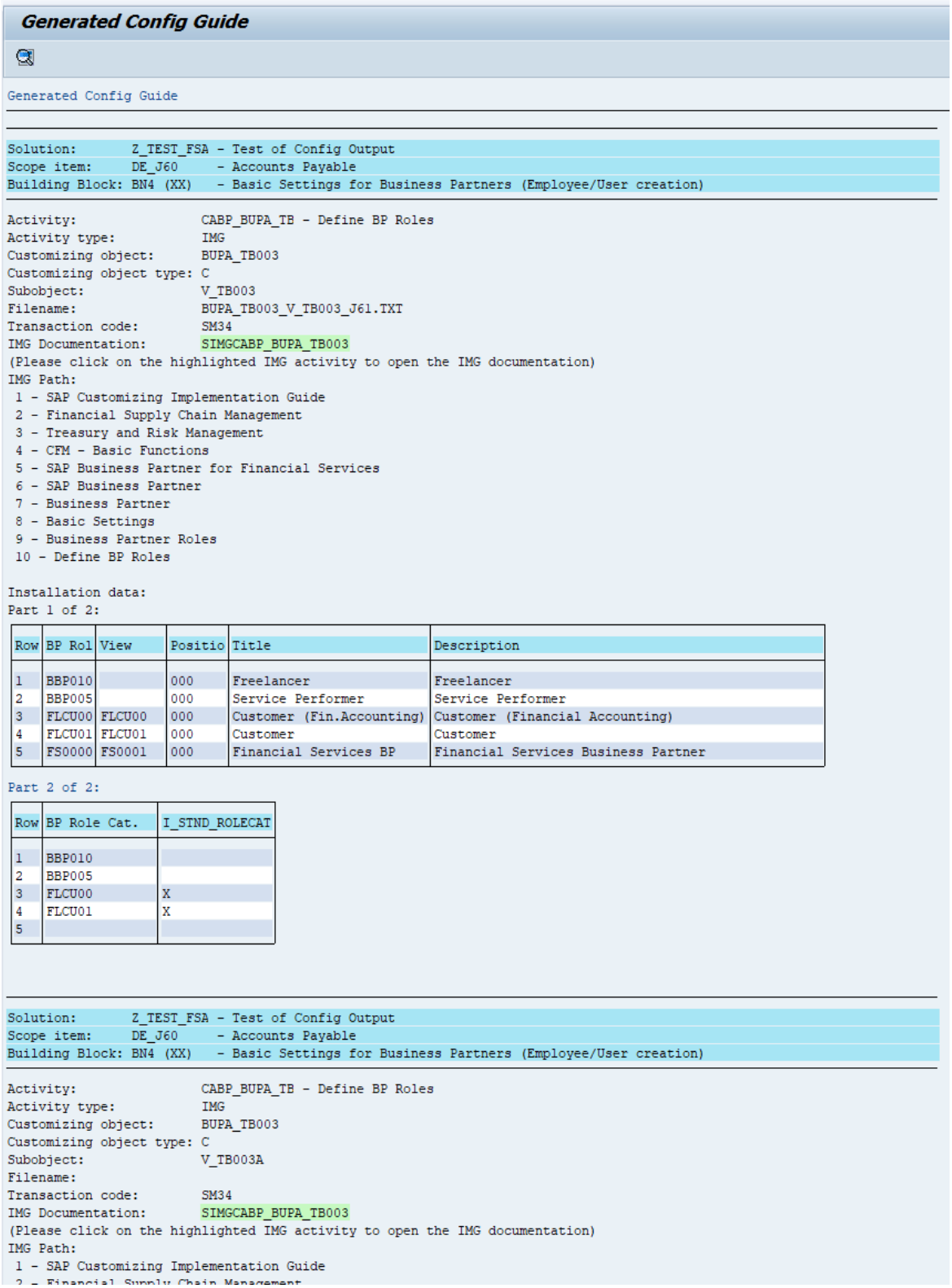
1. Start Solution Builder (transaction `/N/SMB/BBI`).
2. Select the relevant customer solution and set it as favorite (*Set Solution as Favorite* button, `Ctrl` + `Shift` + `F6`).
3. Go to *Building Block Builder*.
4. Navigate to the relevant configuration level, for example a Building Block.

   > → Recommendation
   >
   > Choose a lower level, for example a Building Block instead of a scope item to avoid a long processing time of the report.

5. Open the context menu (right-click) and choose *Show Config Info*. The configuration report is opened in a new window.
6. Select the required options and choose *Execute*.

   > → Tip
   >
   > To get all lines/records, leave the field *Max. lines of install data tab* empty.

Example for generated configuration information for an activity:



Generated Config Guide

Generated Config Guide

Solution: Z_TEST_FSA - Test of Config Output
Scope item: DE_J60 - Accounts Payable
Building Block: BN4 (XX) - Basic Settings for Business Partners (Employee/User creation)

Activity: CABP_BUPA_TB - Define BP Roles
Activity type: IMG
Customizing object: BUPA_TB003
Customizing object type: C
Subobject: V_TB003
Filename: BUPA_TB003_V_TB003_J61.TXT
Transaction code: SM34
IMG Documentation: SIMGCABP_BUPA_TB003
(Please click on the highlighted IMG activity to open the IMG documentation)
IMG Path:
1 - SAP Customizing Implementation Guide
2 - Financial Supply Chain Management
3 - Treasury and Risk Management
4 - CFM - Basic Functions
5 - SAP Business Partner for Financial Services
6 - SAP Business Partner
7 - Business Partner
8 - Basic Settings
9 - Business Partner Roles
10 - Define BP Roles

Installation data:
Part 1 of 2:

Row	BP Rol	View	Positio	Title	Description
1	BBP010		000	Freelancer	Freelancer
2	BBP005		000	Service Performer	Service Performer
3	FLCU00	FLCU00	000	Customer (Fin.Accounting)	Customer (Financial Accounting)
4	FLCU01	FLCU01	000	Customer	Customer
5	FS0000	FS0001	000	Financial Services BP	Financial Services Business Partner

Part 2 of 2:

Row	BP Role Cat.	I_STND_ROLECAT
1	BBP010	
2	BBP005	
3	FLCU00	X
4	FLCU01	X
5		

Solution: Z_TEST_FSA - Test of Config Output
Scope item: DE_J60 - Accounts Payable
Building Block: BN4 (XX) - Basic Settings for Business Partners (Employee/User creation)

Activity: CABP_BUPA_TB - Define BP Roles
Activity type: IMG
Customizing object: BUPA_TB003
Customizing object type: C
Subobject: V_TB003A
Filename:
Transaction code: SM34
IMG Documentation: SIMGCABP_BUPA_TB003
(Please click on the highlighted IMG activity to open the IMG documentation)
IMG Path:
1 - SAP Customizing Implementation Guide

7. You can print, send or download the generated configuration information. From the menu, choose *List* > *Save/Send* > or *Print*.

4.5 Content Changes in a New Release

The options to upgrade content in a system with an existing activated version of SAP Best Practices content are very limited since the SAP Best Practices solution builder does not offer content lifecycle capabilities for on-premise systems.

> ⚠ Caution
>
> The following is generally NOT SUPPORTED:
>
> - Activating the next content version of SAP Best Practices content in a system where you have the content of the previous release already activated.
> - Activating the next content version of SAP Best Practices content in a system that is on a different (for example, lower) software release system.

After a technical software upgrade of an existing system, you can only choose a **manual approach** for updating the content of already activated scope items to the latest version. Adding new scope items or adding an entire new country version is not feasible using the SAP Best Practices solution builder.

You may activate the next version of SAP Best Practices content in a separate client in a technically upgraded system for reference purposes only. In this client, you check the configuration information for the required building blocks that belong to the scope items you want to update so you can identify the changes made in the next version (see Generating Configuration Information [page 62]). Note that you **MUST NOT** release the activation transports from this separate client to any other configured client since they could severely compromise the existing configuration. If you manually configure the content changes in your existing development client, you have to ensure that the modified configuration settings are consistent with the existing settings to avoid conflicts. We recommend you thoroughly test the scope items end-to-end after having made the content changes.

Note that there is no free support available from SAP for the manual configuration activity or validation, this requires additional expert consultant support.

5 Glossary

This topic explains the terms used in this guide.

Term	Description
SAP Best Practices content	The entire inactive content (all solution packages) delivered by SAP. It serves as a reference for updates: Each new delivery is checked against the existing content before the content is updated. The SAP Best Practices content is the source from which the required solution packages are copied.
Solution	The solution file and the installation data files that represent a solution package. These files are copied from the SAP Best Practices content to Solution Builder. Country-specific solution versions are referred to as solutions.
Solution scope	Selection of scope items contained in one solution package or several solution packages. This selection of scope items is saved with a unique ID and represents the customer solution.
Customer solution	The solution scope used by the customer. Each country-specific customer solution scope is saved with a unique solution ID.
Content activation	The process of writing the content of the customer solution into system tables.
Active content	The content of the customer solution that has been activated.
Customer adaptation content	The content modified by the customer (so that it differs from the SAP Best Practices content)
Solution update	Unchanged solution file, but new or changed values in the installation files. Delivered as change packages.
Solution improvement	Changed solution file and adapted installation data files. Delivered as a new solution.
Change package	A solution Builder artifact to track customer changes
Client 000 include list	A table containing a collection of customer tables that have to be cascaded to a new best-practice client before the content is activated. Technically, these settings cannot be deployed using Solution Builder.
Scope item	The smallest unit of the scope offered by a solution package that can be used to create the implementation scope of a solution (with the implementation functions of Solution Builder). A scope item can be, for example, a business process within an application area of a solution package.
Building block	A self-contained and reusable entity of business content. It is the smallest logical unit in the SAP Best Practices content architecture and includes customizing and/or master data steps for the corresponding piece of business content.

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