Administration Guide | PUBLIC
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Administration Guide to Implementation of SAP S/4HANA 2020 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 2 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 **2914416** 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*
SCPR20	*Business Configuration Sets: Activation*
SE16	*Data Browser: 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*
SM59	*Configuration of RFC Connections*
SMICM	*ICM Monitor*

Transaction Code	Description
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:

2.1 Required Enterprise Business Functions

This section describes the prerequisite Enterprise Business Functions that you activate after installing SAP S/4HANA.

Activate the Business Functions in the table below **after installing** SAP S/4HANA, but **before activating** the SAP Best Practices for SAP S/4HANA solution.

> **⚠** 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, (building blocks BFD, BFE, BFF, and BFP) / 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	FIN_LOC_SRF		Required for scope item 1J2 (building block BRS) / all FPs **i Note** Requires an additional license. 1J2 is only relevant for specific countries/regions.
S4CORE	FIN_REP_SIMPL_2		Required for Financials Reporting / all FPs
S4CORE	FIN_REP_SIMPL_3		Required for Financials Reporting / all FPs
S4CORE	FIN_REP_SIMPL_4		Required for Financials Reporting / all FPs
S4CORE	LOG_EAM_SIMPLICITY		Required for scope items BH1, BH2 and BJ2 (building blocks BFI, BFJ, BFM and BFN)
S4CORE	LOG_EAM_SIMPLIC-ITY_2		Required for scope items BH1, BH2 and BJ2 (building blocks BFI, BFJ, BFM and BFN)
S4CORE	LOG_EAM_SIMPLIC-ITY_3		Required for scope items BH1, BH2 and BJ2 (building blocks BFI, BFJ, BFM and BFN)
S4CORE	LOG_EAM_SIMPLIC-ITY_4		Required for scope items BH1, BH2 and BJ2 (building blocks BFI, BFJ, BFM and BFN)
S4CORE	LOG_EAM_SIMPLIC-ITY_5		Required for scope items BH1, BH2 and BJ2 (building blocks BFI, BFJ, BFM and BFN)
S4CORE	LOG_EAM_SIMPLIC-ITY_6		Required for scope items BH1, BH2 and BJ2 (building blocks BFI, BFJ, BFM and BFN)
S4CORE	LOG_EAM_SIMPLIC-ITY_7		Required for scope items BH1, BH2 and BJ2 (building blocks BFI, BFJ, BFM and BFN)

Product	Business Function	Configuration or Data required	Relevance
S4CORE	LOG_EAM_SIMPLIC-ITY_8		Required for scope items BH1, BH2 and BJ2 (building blocks BFI, BFJ, BFM and BFN)
S4CORE	LOG_MMFI_P2P		Required for scope item J45

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	Configuration Effort for Later Scope Extensions
1	Best Practices client (BP Client)	Yes	No	Lower	Higher - 2	Lower
2	Merged client (with all client 000 reference settings and BP content)	Yes	Yes	Lower	Lower	Higher
3 (Not an option for Best Practices content activation)	Classic client (existing configuration)	No	Yes	Higher - 1	Lower	Higher - 3

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.

3: Most of the client 000 content isn't required for your company. Because it isn't clear which content is required and which content isn't required, additional design and test efforts are necessary in later scope extensions.

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 11]
Alternative 2 - Setting Up a Merged Client (All Client 000 Reference Settings) [page 14]
Guidance on Copying Missing Client 000 Settings in a Best Practices Client [page 13]
Handling Language Imports [page 15]

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 13]. This process, however, has its own limitations.

Context

Procedure

1. Check if the new Best Practice client is registered in the table `/FTI/T_NOCLN000`.
2. Define a new Best Practice client using transaction `SCC4`. If `SCC4` contains only one entry, there's no possibility to create a new entry due to the program restriction. To avoid a customer message or ticket, refer to SAP Note 2401921.
3. In the client copy program, you can use the copy profiles `SAP_UCUS`, `SAP_CUST`, `SAP_CUSV`, or `SAP_UCSV`. The copy profiles copy only tables from client 000 that are referenced in the whitelist. (Table `/FTI/TWHITEL01` contains a list of tables that the system copies from client 000.) You trigger the client 000 copy in the target client. We recommend setting it up as a background job to avoid timeouts.

4. In *New Entries: Details of Added Entries*, set the properties of the new Best Practice 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**

5. Log on to the new Best Practice client with the following credentials:

user	**SAP***
password	**PASS**

> **i** Note
>
> For the logon, change the parameter `login/no_automatic_user_sapstar` to **1**. A system restart is required afterwards.

6. Run the client copy by starting transaction `SCCL`. We recommend running it as a background job to avoid timeouts. You can monitor the progress with the transaction `SCC3`.

> → Tip
>
> If DDIC error messages appear for some tables after starting the client copy, refer to SAP Note 2071826 to define exceptions for the client copy.

Related Information

Guidance on Copying Missing Client 000 Settings in a Best Practices Client [page 13]

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 2962939 (*Implementation of SAP S/4HANA SAP Best Practices 2020 (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.

Procedure

1. Define a new Best Practice client using transaction `SCC4`. If `SCC4` contains only one entry, there's no possibility to create a new entry due to the program restriction. To avoid a customer message or ticket, refer to SAP Note 2401921.
2. In the client copy program, you can use the copy profiles `SAP_UCUS`, `SAP_CUST`, `SAP_CUSV`, or `SAP_UCSV`. You trigger the client 000 copy in the target client.
3. In *New Entries: Details of Added Entries*, set the properties of the new Best Practice client as indicated in the following table:

Property	Value
Client role	**`Customizing`**
Changes and Transport 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`**

4. Log on to the new Best Practice client with the following credentials:

user	**`SAP*`**

passwo rd	**PASS**

> **i Note**
>
> For the logon, change the parameter `login/no_automatic_user_sapstar` to **1**. A system restart is required afterwards.

5. Run the client copy by starting transaction `SCCL`. We recommend setting it up as a background job to avoid timeouts. You can monitor the progress with the transaction `SCC3`.

> **→ Tip**
>
> If DDIC error messages appear for some tables after starting the client copy, refer to SAP Note 2071826 to define exceptions for the client copy.

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 whitelist 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 17]

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 20]

Step	Step Description	More Information
3	Execute basic SAP Fiori configuration	SAP Fiori configuration is described in detail at http://help.sap.com/s4hana: `<Your on-premise edition>` under *Discover* > *Product Assistance* > *Enterprise Technology* > *SAP Fiori* > *SAP Fiori Overview*. With SAP S/4HANA, all new functions, features, and innovations are accessible in the SAP Fiori launchpad. You use the launchpad 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.*SAP Fiori Overview* explains how to setup a front end server including the SAP Fiori launchpad, and how to implement the individual apps. The guide is intended for system administrators and technical consultants. Apply the settings as described at http://help.sap.com/s4hana: `<Your on-premise edition>` under *Discover* > *Product Assistance* > *Enterprise Technology* > *SAP Fiori* > *SAP Fiori Overview*. **i Note** See subsection Exporting Metadata Lists for Fiori UI Add-Ons and OData Services [page 19] for the technical data for the required UI add-ons for SAP Best Practices for SAP S/4HANA.
4	Tax calculation for US sales and purchases	The US solution for SAP S/4HANA 2020 (BP_OP_ENTPR_S4HANA2020_USV7.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 28] Configuring Proxy Settings [page 29] Output Management [page 29]

Step	Step Description	More Information
7	Create basic settings for using SAP Fiori Launchpad (back end system) [page 30]	Create additional settings as described in the following subsections: Assigning Business Roles to a User [page 32] Creating Back End Authorization Roles [page 34]
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 35] Maintaining SICF Node [page 36] Maintaining Categories for SOMU and DMS_C1_ST [page 37] Activating Storage Repository [page 37] Maintaining Standard Category for SOFFDB [page 38] Adjusting the Customizing in Table TSOPE [page 39]
9	Set up SAP S/4HANA attachment services (front-end system) [page 39]	
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 at http://help.sap.com/s4hana: `<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
2914432	SAP Best Practices for SAP S/4HANA (on premise) (Germany) (V7)	Information on the activation of SAP Best Practices for SAP S/4HANA (on premise) package Germany	All Scope Items / all FPSs
2914407	SAP Best Practices for SAP S/4HANA (on premise) (US) (V7)	Information on the activation of SAP Best Practices for SAP S/4HANA (on premise) package US	All Scope Items / all FPSs
2917978	SAP Best Practices for SAP S/4HANA (on premise) (Canada) (V7)	Information on the activation of SAP Best Practices for SAP S/4HANA (on premise) package Canada	All Scope Items / all FPSs
2928074	SAP Best Practices for SAP S/4HANA (on premise) (Australia) (V7)	Information on the activation of SAP Best Practices for SAP S/4HANA (on premise) package Australia	All Scope Items / all FPSs
2933090	SAP Best Practices for SAP S/4HANA (on premise) (Great Britain) (V7)	Information on the activation of SAP Best Practices for SAP S/4HANA (on premise) package Great Britain	All Scope Items / all FPSs
2959442	SAP Best Practices for SAP S/4HANA (on premise) (Netherlands) (V7)	Information on the activation of SAP Best Practices for SAP S/4HANA (on premise) package Netherlands	All Scope Items / all FPSs
2930904	SAP Best Practices for SAP S/4HANA (on premise) (Hungary) (V7)	Information on the activation of SAP Best Practices for SAP S/4HANA (on premise) package Hungary	All Scope Items / all FPSs
2930913	SAP Best Practices for SAP S/4HANA (on premise) (Singapore) (V7)	Information on the activation of SAP Best Practices for SAP S/4HANA (on premise) package Singapore	All Scope Items / all FPSs

SAP Note No	Content	Comments	Relevance
2959056	SAP Best Practices for SAP S/4HANA (on premise) (Belgium) (V7)	Information on the activation of SAP Best Practices for SAP S/4HANA (on premise) package Belgium	All Scope Items / all FPSs
2959108	SAP Best Practices for SAP S/4HANA (on premise) (Luxembourg) (V7)	Information on the activation of SAP Best Practices for SAP S/4HANA (on premise) package Luxembourg	All Scope Items / all FPSs
2928046	SAP Best Practices for SAP S/4HANA (on premise) (China) (V7)	Information on the activation of SAP Best Practices for SAP S/4HANA (on premise) package China	All Scope Items / all FPSs
2959413	SAP Best Practices for SAP S/4HANA (on premise) (France) (V7)	Information on the activation of SAP Best Practices for SAP S/4HANA (on premise) package France	All Scope Items / all FPSs
2919342	SAP Best Practices for SAP S/4HANA (on premise) (Sweden) (V7)	Information on the activation of SAP Best Practices for SAP S/4HANA (on premise) package Sweden	All Scope Items / all FPSs
2919298	SAP Best Practices for SAP S/4HANA (on premise) (Norway) (V7)	Information on the activation of SAP Best Practices for SAP S/4HANA (on premise) package Norway	All Scope Items / all FPSs
2920662	SAP Best Practices for SAP S/4HANA (on premise) (Switzerland) (V7)	Information on the activation of SAP Best Practices for SAP S/4HANA (on premise) package Switzerland	All Scope Items / all FPSs
2930911	SAP Best Practices for SAP S/4HANA (on premise) (Japan) (V7)	Information on the activation of SAP Best Practices for SAP S/4HANA (on premise) package Japan	All Scope Items / all FPSs
2921371	SAP Best Practices for SAP S/4HANA (on premise) (South Africa) (V7)	Information on the activation of SAP Best Practices for SAP S/4HANA (on premise) package South Africa	All Scope Items / all FPSs

SAP Note No	Content	Comments	Relevance
2917958	SAP Best Practices for SAP S/4HANA (on premise) (Brazil) (V7)	Information on the activation of SAP Best Practices for SAP S/4HANA (on premise) package Brazil	All Scope Items / all FPSs
2917988	SAP Best Practices for SAP S/4HANA (on premise) (Mexico) (V7)	Information on the activation of SAP Best Practices for SAP S/4HANA (on premise) package Mexico	All Scope Items / all FPSs
2933039	SAP Best Practices for SAP S/4HANA (on premise) (Ireland) (V7)	Information on the activation of SAP Best Practices for SAP S/4HANA (on premise) package Ireland	All Scope Items / all FPSs
2917966	SAP Best Practices for SAP S/4HANA (on premise) (Italy) (V7)	Information on the activation of SAP Best Practices for SAP S/4HANA (on premise) package Italy	All Scope Items / all FPSs
2933038	SAP Best Practices for SAP S/4HANA (on premise) (Malaysia) (V7)	Information on the activation of SAP Best Practices for SAP S/4HANA (on premise) package Malaysia	All Scope Items / all FPSs
2917979	SAP Best Practices for SAP S/4HANA (on premise) (Spain) (V7)	Information on the activation of SAP Best Practices for SAP S/4HANA (on premise) package Spain	All Scope Items / all FPSs
2933163	SAP Best Practices for SAP S/4HANA (on premise) (Taiwan) (V7)	Information on the activation of SAP Best Practices for SAP S/4HANA (on premise) package Taiwan	All Scope Items / all FPSs
2920177	SAP Best Practices for SAP S/4HANA (on premise) (United Arab Emirates) (V7)	Information on the activation of SAP Best Practices for SAP S/4HANA (on premise) package United Arab Emirates	All Scope Items / all FPSs
2920243	SAP Best Practices for SAP S/4HANA (on premise) (New Zealand) (V7)	Information on the activation of SAP Best Practices for SAP S/4HANA (on premise) package New Zealand	All Scope Items / all FPSs

SAP Note No	Content	Comments	Relevance
2920618	SAP Best Practices for SAP S/4HANA (on premise) (Austria) (V7)	Information on the activation of SAP Best Practices for SAP S/4HANA (on premise) package Austria	All Scope Items / all FPSs
2917919	SAP Best Practices for SAP S/4HANA (on premise) (Denmark) (V7)	Information on the activation of SAP Best Practices for SAP S/4HANA (on premise) package Denmark	All Scope Items / all FPSs
2917980	SAP Best Practices for SAP S/4HANA (on premise) (Finland) (V7)	Information on the activation of SAP Best Practices for SAP S/4HANA (on premise) package Finland	All Scope Items / all FPSs
2919211	SAP Best Practices for SAP S/4HANA (on premise) (Russia) (V7)	Information on the activation of SAP Best Practices for SAP S/4HANA (on premise) package Russia	All Scope Items / all FPSs
2921351	SAP Best Practices for SAP S/4HANA (on premise) (Romania) (V7)	Information on the activation of SAP Best Practices for SAP S/4HANA (on premise) package Romania	All Scope Items / all FPSs
2920248	SAP Best Practices for SAP S/4HANA (on premise) (Portugal) (PTV7)	Information on the activation of SAP Best Practices for SAP S/4HANA (on premise) package Portugal	All Scope Items / all FPSs
2919792	SAP Best Practices for SAP S/4HANA (on premise) (Hong Kong, China) (V7)	Information on the activation of SAP Best Practices for SAP S/4HANA (on premise) package Hong Kong, China	All Scope Items / all FPSs
2919252	SAP Best Practices for SAP S/4HANA (on premise) (Philippines) (V7)	Information on the activation of SAP Best Practices for SAP S/4HANA (on premise) package Philippines	All Scope Items / all FPSs
2920199	SAP Best Practices for SAP S/4HANA (on premise) (Saudi Arabia) (V7)	Information on the activation of SAP Best Practices for SAP S/4HANA (on premise) packageSaudi Arabia	All Scope Items / all FPSs

SAP Note No	Content	Comments	Relevance
2920244	SAP Best Practices for SAP S/4HANA (on premise) (Indonesia) (V7)	Information on the activation of SAP Best Practices for SAP S/4HANA (on premise) packageIndonesia	All Scope Items / all FPSs
2917388	SAP Best Practices for SAP S/4HANA (on premise) (Turkey) (V7)	Information on the activation of SAP Best Practices for SAP S/4HANA (on premise) package Turkey	All Scope Items / all FPSs
2922604	SAP Best Practices for SAP S/4HANA (on premise) (Thailand) (V7)	Information on the activation of SAP Best Practices for SAP S/4HANA (on premise) package Thailand	All Scope Items / all FPSs
2960284	SAP Best Practices for SAP S/4HANA (on premise) (India) (V7)	Information on the activation of SAP Best Practices for SAP S/4HANA (on premise) packageIndia	All Scope Items / all FPSs
2916943	SAP Best Practices for SAP S/4HANA (on premise) (South Korea) (V7)	Information on the activation of SAP Best Practices for SAP S/4HANA (on premise) packageSouth Korea	All Scope Items / all FPSs
2959084	SAP Best Practices for SAP S/4HANA (on premise) (Czech Republic) (CZV7)	Information on the installation of SAP Best Practices for S/4HANA (on premise) (Czech Republic) (CZV7)	All Scope Items / all FPSs
2817565	SAP Best Practices for SAP S/4HANA (on premise) (Poland) (PLV7)	Information on the installation of SAP Best Practices for S/4HANA (on premise) (Poland) (PLV7)	All Scope Items / all FPSs
2959092	SAP Best Practices for SAP S/4HANA (on premise) (Slovakia) (SKV7)	Information on the installation of SAP Best Practices for S/4HANA (on premise) (Slovakia) (SKV7)	All Scope Items / all FPSs

The following SAP Notes apply to all countries/regions:

SAP Note	Content	Comments	Relevance
2914416	SAP S/4HANA, on-premise edition 2020 collective note for content activation	Generic information about the activation of SAP Best Practices for SAP S/4HANA content	All scope items / all FPSs

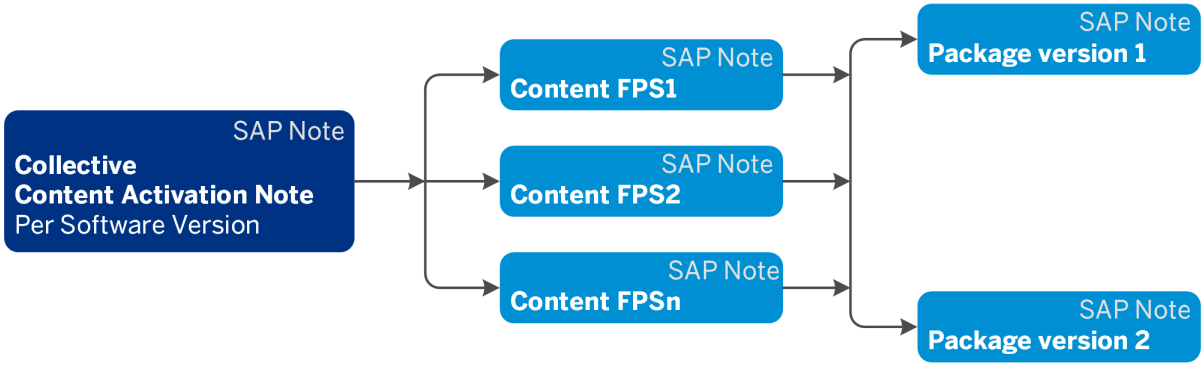
SAP Note	Content	Comments	Relevance
2914417	SAP S/4HANA 2020 FP-Stack 00 (09/2020) SAP Best Practices Content activation note	Before you activate the related SAP Best Practices scope, check the latest versions of this SAP Note and execute all steps as documented in this note.	You are using SAP Best Practices for your SAP S/4HANA implementation and you need current information for the content.
2801944	SAP S/4HANA on-premise: SAP Best Practices Framework Restriction Note	This note provides information about restrictions for using the Fiori apps Manage Your Solution and Edit Expert Configuration for implementation using 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 2020	This note provides additional information about the Basic Warehouse Management Best Practices, which is delivered with SAP Best Practices for SAP S/4HANA 2020	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 - Batch Management in Outbound Processing • 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 28]

Configuring Proxy Settings [page 29]

Output Management [page 29]

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.

2.3.3.3 Output Management

This section describes the procedure for carrying out the output management setup for SAP S/4HANA.

Prerequisites

Download the BRFplus application files from SAP Note 2248229.

Context

To configure the output management for SAP S/4HANA, you upload the corresponding BRF files.

Procedure

1. Access transaction **BRF+**.

   > **i** Note
   >
   > If required, personalize your screen and change the user mode from *Simple* to *Expert*.

2. On the *Business Rule Framework plus* screen, choose *Tools* > *XML Import*.
3. On the *Business Rule Framework plus – XML Import* screen, under *File and Transport Request*, browse for the local *.xml files you want to import. You can import the files one after the other.
4. In the *Customizing Request* field, enter an applicable Customizing Request ID.
5. Choose *Upload XML File*.
6. Choose *Back to Workbench*.

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

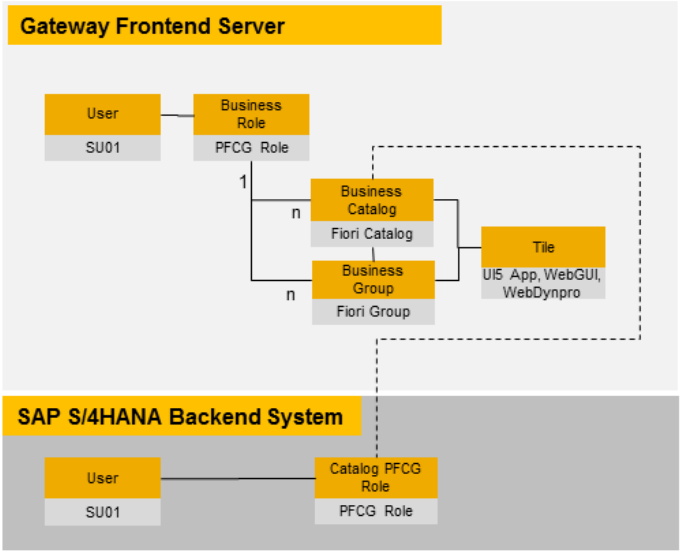
the delivered SAP Fiori content or create your own artifacts, the following table provides a description of the different Fiori artifacts and how they relate to one another:

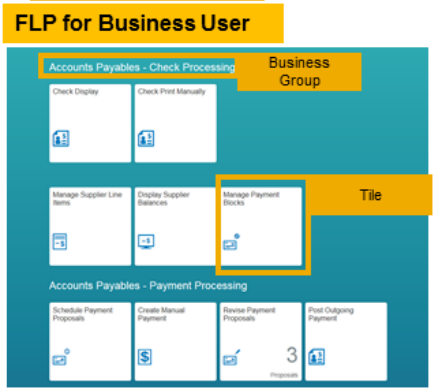
Fiori Entity	Description
App	Executable business functionality; represented in the Fiori UI as a tile and a related target mapping. There are different app types available. Some examples are transactional apps, object pages and analytical apps. For more information, see SAP Fiori App Types. For this 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.
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 32]
Creating Back End Authorization Roles [page 34]

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.
>
> For a summary of all roles used in this edition sorted by scope item, refer to the Process steps, business roles, and apps.

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 NetWeaver 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 of creating and assigning an authorization back end role, refer to http://help.sap.com/s4hana: `<Your on-premise edition>` under *Discover* > *Product Assistance* > *Enterprise Technology* > *SAP Fiori* > *SAP Fiori Overview* > *Implement SAP Fiori Apps*.

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 35]
- Maintaining SICF Node [page 36]
- Maintaining Categories for SOMU and DMS_C1_ST [page 37]
- Activating Storage Repository [page 37]
- Maintaining Standard Category for SOFFDB [page 38]
- Adjusting the Customizing in Table TSOPE [page 39]

2.3.5.1 Maintaining Settings for Storage Systems

Context

In this activity, you create settings for storage systems:

- for employee photo

Procedure

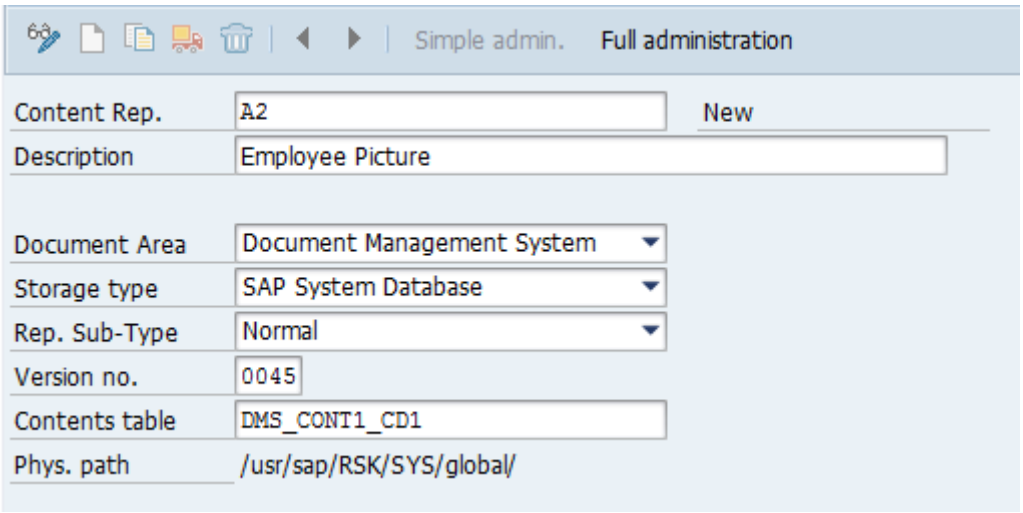
1. To carry out the activity, choose the following navigation option:

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.

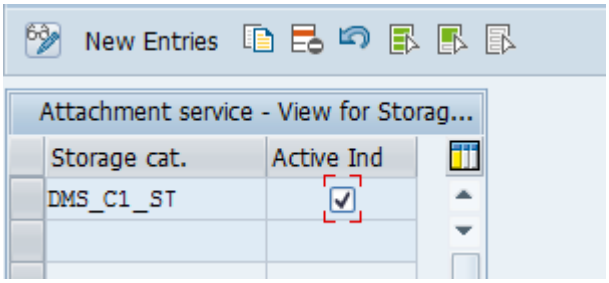
2.3.5.4 Activating Storage Repository

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` ▶ *SAP NetWeaver* ▶ *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 40].
2. Create a dialog user for content activation [page 40].

3. Prevent out of memory dumps [page 197]

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 40] 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 2914416. 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.

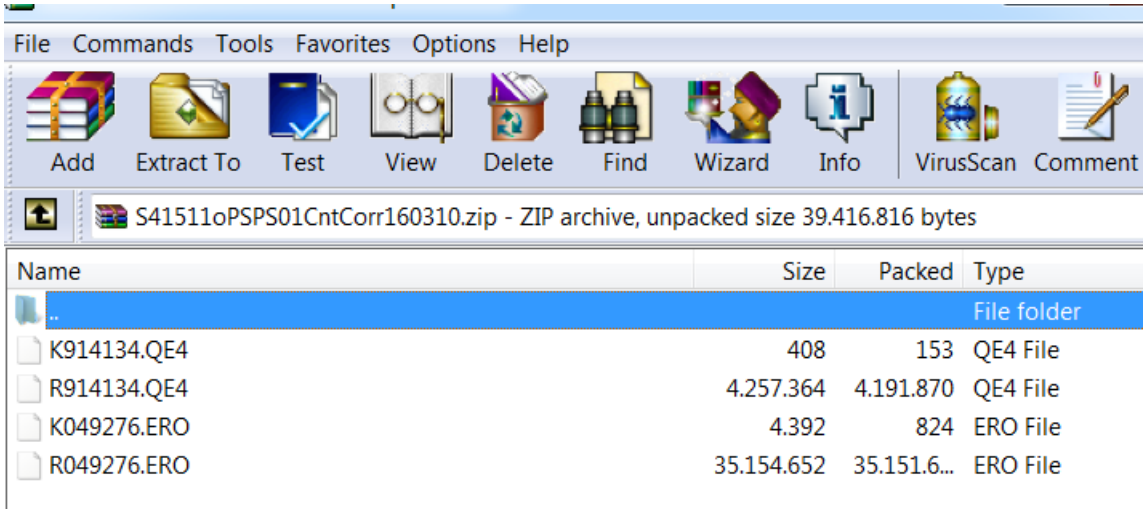
> **i Note**
>
> If no content is provided via the note, proceed with Importing solutions from SAP Best Practices content [page 44].

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_S4HANA2020_<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 54].

> **!** 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.
>
> Before you start the scope item activation, refer to SAP Note 2976053 (SAP S/4HANA 2020, on-premise: SAP Best Practices Content Restriction Note) for more information about restrictions in the SAP Best Practices content.

Information About the Scope

In the SAP S/4HANA 2020 release, the following additional country solution is **new**: SK (Slovakia)

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 48].

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

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

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

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

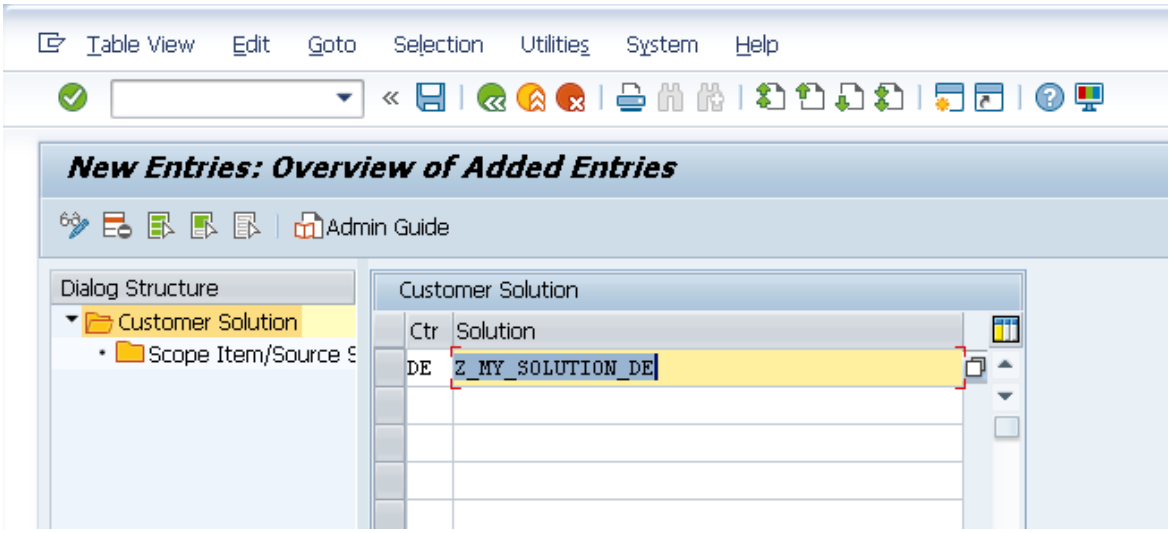
1. Open *SAP Best Practices Solution Builder* by starting transaction **`/n/SMB/BBI`**..
2. Create your own copy of the SAP Best Practices solution.
   1. Select the solution and choose *Copy Solution*.
   2. In the dialog box, enter the solution name.

      > → 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_S4HANA2020_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 54], 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. 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.



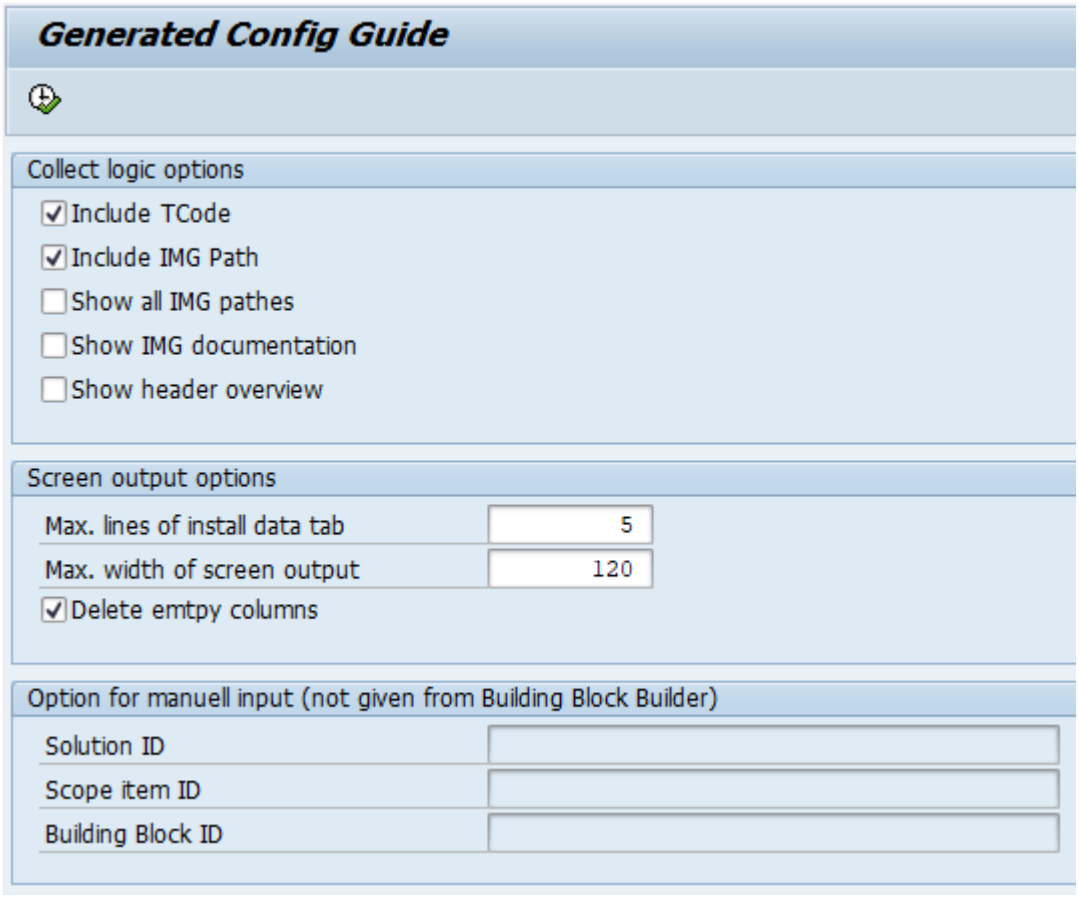
8. Choose *Save*.

> **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 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 `/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

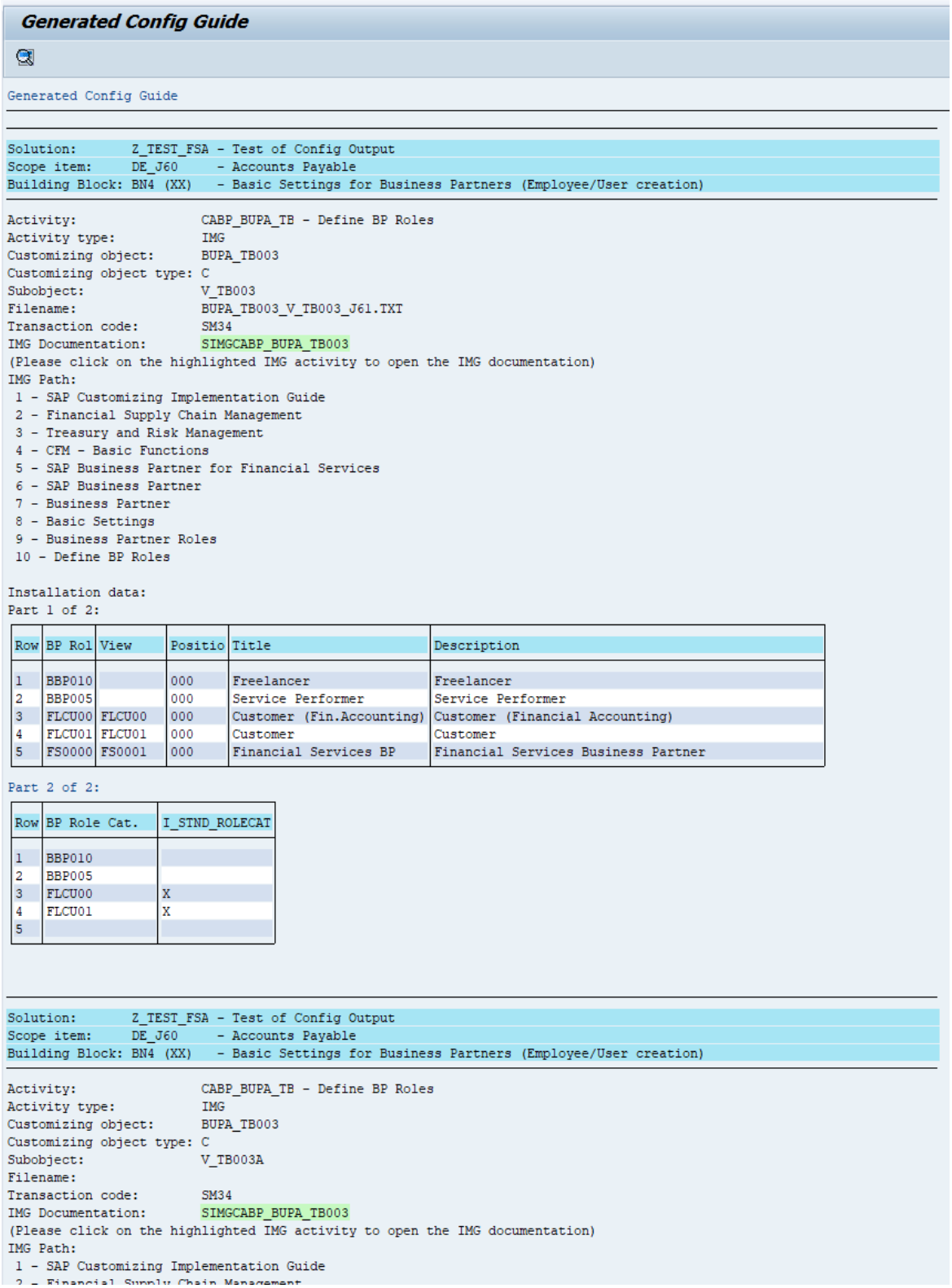
1. Start Solution Builder (transaction `/N/SMB/BBI`).
2. Select the relevant customer solution and set it as favorite (*Set Solution as Favorite* button, `Ctrl` + `Shift` + `F6`).
3. Go to *Building Block Builder*.
4. Navigate to the relevant configuration level, for example a Building Block.

> → 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*.

3.4 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 the use case of integrating SAP S/4HANA with decentralized Extended Warehouse Management based on SAP S/4HANA.

To run a business scenario for integrating SAP S/4HANA with decentralized Extended Warehouse Management (EWM) based on SAP S/4HANA, 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
1FS_<your_country> - Basic Warehouse Inbound Processing from Supplier
1G2_<your_country> - Basic Warehouse Outbound Processing to Customer
1FU_<your_country> - Initial Stock Upload for Warehouse
1FY_<your_country> - Replenishment in Warehouse
1FW_<your_country> - Physical Inventory in Warehouse
1G0_<your_country> - Scrapping in Warehouse
1V5_<your_country> - Warehouse Inbound Processing from Supplier with Batch Management
1V7_<your_country> - Batch Management in Outbound Processing
1V9_<your_country> - Basic Warehouse Inbound Processing from Supplier with Quality Management
1VB_<your_country> - Production Integration - Component Consumption and Receipt in Warehouse

Scope Item
1VD_<your_country> - Advanced Warehouse Outbound Processing to Customer

Activate scope items as described in the following sections:

- Scope Items in the ERP System [page 53]
- Scope Items in the EWM System [page 54]

3.4.1 Scope Items in the ERP System

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

Context

For the use case of decentralized Extended Warehouse Management (EWM) based on SAP S/4HANA, 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:

2TX - Direct Procurement with Inbound Delivery
BMC - Core Inventory Management
BD9 - Sell from Stock

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

BKP - Accelerated Customer Returns
BMK - Return to Supplier
BKJ - Sales Order Processing with Customer Down Payment
3NR - Sales Scheduling Agreements
BDA - Free of Charge Delivery
1IU - Customer Consignment
BDN - Sales of Non-Stock Item with Order-Specific Procurement

3. Activate the following mandatory technical integration scope item:

4UA - Decentralized EWM - Technical Integration ERP

3.4.2 Scope Items in the EWM System

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

Context

For the use case of decentralized Extended Warehouse Management (EWM) based on SAP S/4HANA, 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:

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

3.5 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 enable the integration of remote applications (for example, SAP Cloud Platform, SAP Ariba, SAP SuccessFactors) into SAP S/4HANA. Please check with your SAP representative regarding required licenses for these remote applications.

Table 2:

Scope Items
16R - Bank Integration with SAP Multi-Bank Connectivity
19O - Automated Dynamic Discounts with SAP Ariba Discount Management
19W - Contingent Workforce Invoice Processing via SAP Fieldglass

Scope Items
1A0 - Sourcing with SAP Ariba Sourcing
1J2 - Advance Compliance Reporting
1J5 - Invoice, Taxes and Complementary Postings
1JW - Advanced Available-to-Promise Processing
1KU - Leveraging SAP RealSpend
1L2 - Supplier Quote Automation with SAP Ariba Commerce Automation
1MN - SAP Fiori Analytical Apps for Treasury and Risk Management
1MV - Cash Application Integration
1NF - Engineering Change Management with Change Records
1QA - Specification Management for Recipes
1QC - Formulation - Recipe Development
1QG - Recipe Handover to Production - Bill of Material
1QM - Advanced Credit Management
1S0 - Customer Payments
1S2 - Digital Payments
1SG - Group Reporting - Financial Consolidation
1T6 - Lease-In Accounting
1VD - Advanced Warehouse Outbound Processing to Customer
1WE - Restricted Party Screening with SAP Watch List Screening
1XI - Central Requisitioning
1XV - SAP S/4HANA for Enterprise Contract Management
1Y2 - Demand-Driven Buffer Level Management
1YT - Make-to-Order Production with Variant Configuration
1ZI - Basic Handover of Bill of Material
21D - Make-to-Stock Production with Variant Configuration
21P - Lease-In Accounting - Group Ledger IFRS
21Q - Lease-Out Accounting
21R - Service Contract
22K - Contingent Workforce Procurement via SAP Fieldglass
22R - Advanced Ingredient Replacement for Recipes
22T - Setup Configurable Model using Variant Configuration
24F - Transfer of Contact Person for SAP Global Trade Services
24H - Transfer of Bill of Materials for SAP Global Trade Services
24J - Compliance Management with SAP Global Trade Services

Scope Items
287 - Group Reporting - Data from SAP Group Reporting Data Collection
28B - Group Reporting - Plan Consolidation
2G4 - Requirements Driven Development
2G5 - Software Compatibility Management
2JN - Production Operations with SAP Manufacturing Execution
2LZ - External Digital Payments
2M0 - External Customer Payments
2ME - Central Purchase Contracts
2O0 - Bank Fee Management
2OH - Continuous Control Monitoring with SAP Process Control
2OQ - Integration to SAP S/4HANA Cloud for Enterprise Contract Assembly
2QI - Demand-Driven Replenishment Planning and Execution
2RP - Electronic Documents
2SA - Lease-Out for Sublease Accounting - Group Ledger IFRS
2SB - Lease-Out for Sublease Accounting
2U1 - Customs Management with SAP Global Trade Services
2U2 - Key Risk Indicator Monitoring with SAP Risk Management
2U6 - Group Reporting - Data from External Systems
2V2 - Inbound Service for Predictive Analytics Integrator
2V7 - Monitoring of Goods and Invoice Receipts
2WK - Handover of Product Information to SAP Asset Intelligence Network
2XT - Central Purchasing
2XU - Procurement of Materials with Variant Configuration
2XV - Proposal of Material Group
2XW - Proposal of New Catalog Item
2YC - Intelligent Content Processing for Document Classification
2YJ - Predictive Analytics Model Training - Sales
2ZS - Machine Learning for Monitoring of Goods and Invoice Receipts
30K - Predictive Analytics Model Training - Finance
30W - Proposal of options for Materials without Purchase Contract
31G - Chemical Compliance Approval for Purchased Material And Supplier
31H - Assess Marketability of a Product
31J - Chemical Compliance in Sales
34P - Treasury Workstation Cash Integration

Scope Items
35Q - Product Structure Template Management
3AF - Group Account Preparation for Financial Consolidation
3DT - Blockchain-Verified RFQ Processing
3F7 - Joint Venture Accounting
3FC - Assess Dangerous Goods for a Product
3FY - Prediction of Delivery Date for Purchase Order Items
3G8 - Dangerous Goods in Sales
3JP - Group Reporting - Predictive Consolidation
3JX - Preference Management with SAP Global Trade Services
3L5 - Liquidity Planning
3LX - Group Reporting - Matrix Consolidation
3ND - Product Structure Management
3SS - General Indirect Tax in the Canary Islands
3UH - Image-Based Buying
3VQ - Safety Data Sheets in Sales
3VR - Manage Safety Data Sheets for Products
3ZF - Central Sourcing
43D - Tax Service Integration
43E - Intelligent Approval Workflow
J77 - Advanced Bank Account Management
J78 - Advanced Cash Operations
J82 - Automated Purchase-to-Pay with SAP Ariba Commerce Automation
1WV - Debt and Investment Management
1X1 - Foreign Currency Risk Management
1X7 - Debt and Investment Management - Group Ledger IFRS
1X9 - Foreign Currency Risk Management - Group Ledger IFRS
1XD - Hedge Accounting for FX Forward - Group Ledger IFRS
1XN - Market Rates Management - Manually via Upload
2FM - Financial Planning and Analysis
2NV - Guided Buying Capability with SAP Ariba Buying
2RW - Hedge Accounting for FX Option - Group Ledger IFRS
2UF - Hedge Accounting for FX Swap - Group Ledger IFRS
2UN - Money Market Mutual Fund Management
2UO - Money Market Mutual Fund Management - Group Ledger IFRS

Scope Items
3EN - Guided Buying for Central Procurement with SAP Ariba Buying
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
BFC - Collections and Dispute Management
3KX - Privacy Risk Detection with SAP Privacy Governance
4B5 - Predictive Material and Resource Planning
4IH - Delivery Insights enabled by IoT
4LU - Physical Inventory - Cycle Counting
4MT - Advanced Payment Management
4N6 - SAP Central Invoice Management Backend Enablement
4OC - Make-to-Order Production for Sales Kits with Variant Configuration
4R6 - Sales Processing using Third-Party with Variant Configuration
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
4UA - Decentralized EWM - Technical Integration ERP

3.6 Activating Your Solution

Prerequisites

You have checked the SAP S/4HANA content activation note 2914416 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 62]

> ⚠ 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.

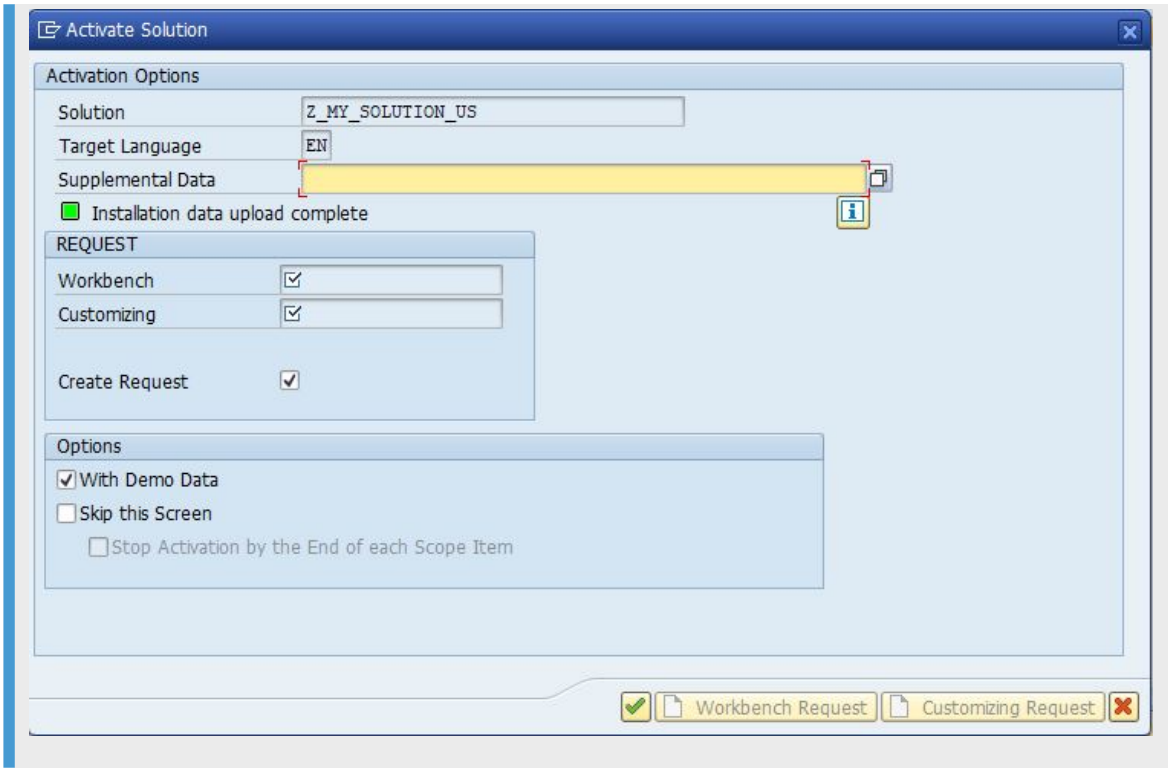
> ℹ Note
>
> You can activate several country solutions in the same client.

> 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 136].

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 190] and review the scope items.
- The scope items can be tested in the system. Before testing, the Prerequisites for Testing Scope Items [page 191] must be fulfilled.

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

- Prerequisite Settings for Activation [page 61]
- Changing SAP Best Practices Content [page 97]
- Handling Installation Errors During Activation [page 101]
- Carrying Out Post-Activation Configuration [page 104]

3.6.1 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 62]
Settings for activating several country solutions	All scope items	Activating Several SAP Best Practices Country Solutions [page 63]
Update the activation user settings	All scope items	Updating Activation User Settings [page 64]
Carry out the pre-activation settings for EWM scope items	1FS_<your_country> - Basic Warehouse Inbound Processing from Supplier 1G2_<your_country> - Basic Warehouse Outbound Processing to Customer 1FU_<your_country> - Initial Stock Upload for Warehouse 1FY_<your_country> - Replenishment in Warehouse 1FW_<your_country> - Physical Inventory in Warehouse 1G0_<your_country> - Scrapping in Warehouse 1V5_<your_country> - Warehouse Inbound Processing from Supplier with Batch Management 1V7_<your_country> - Batch Management in Outbound Processing 1V9_<your_country> - Basic Warehouse Inbound Processing from Supplier with Quality Management 1VB_<your_country> - Production Integration - Component Consumption and Receipt in Warehouse 1VD_<your_country> - Advanced Warehouse Outbound Processing to Customer	Pre-Activation Settings for Embedded EWM Scope Items [page 65]

Activity	Affected Scope Items	More Information
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
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.

3.6.1.1 Changing Group Currency from USD to Another Currency

Prerequisites

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

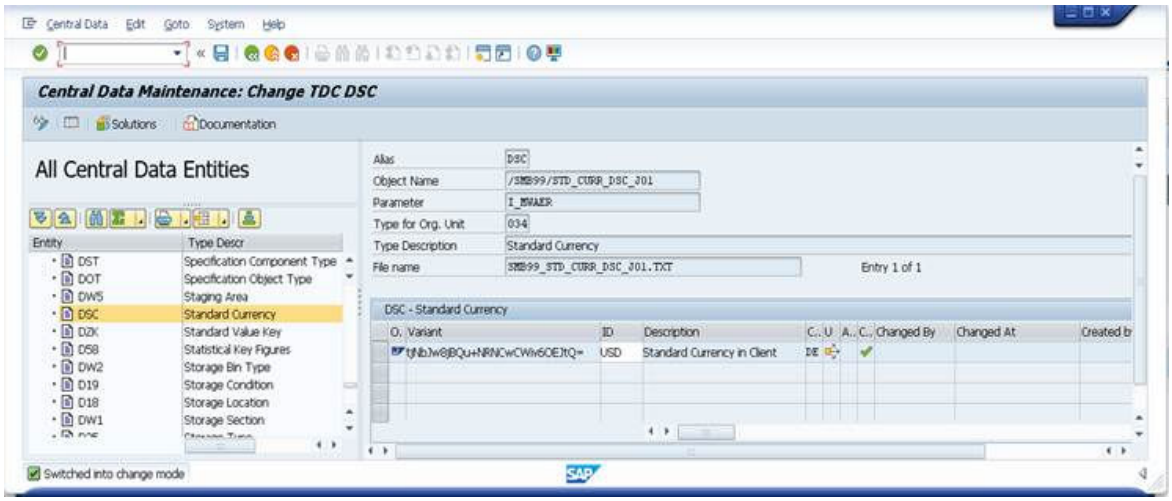
Context

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: TDC DSC saved

   When activating several SAP Best Practices country solutions, follow the procedure in Activating Several SAP Best Practices Country Solutions [page 63].

3.6.1.2 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.

3.6.1.3 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

Set/Get parameter ID	Parameter Value
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.

3.6.1.4 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
1FS_<your_country> - Basic Warehouse Inbound Processing from Supplier
1G2_<your_country> - Basic Warehouse Outbound Processing to Customer
1FU_<your_country> - Initial Stock Upload for Warehouse
1FY_<your_country> - Replenishment in Warehouse
1FW_<your_country> - Physical Inventory in Warehouse
1G0_<your_country> - Scrapping in Warehouse
1V5_<your_country> - Warehouse Inbound Processing from Supplier with Batch Management
1V7_<your_country> - Batch Management in Outbound Processing
1V9_<your_country> - Basic Warehouse Inbound Processing from Supplier with Quality Management
1VB_<your_country> - Production Integration - Component Consumption and Receipt in Warehouse
1VD_<your_country> - Advanced Warehouse Outbound Processing to Customer

Before you start the activation, deselect the following scope items (belonging to the Decentralized EWM scenario) in Solution Builder to exclude them from the scope:

Scope Item
4UA_<your_country> - Decentralized EWM - Technical Integration ERP
4RO_<your_country> - Decentralized EWM - Inbound Processing
4RP_<your_country> - Decentralized EWM - Outbound Processing
4RQ_<your_country> - Decentralized EWM - Ad Hoc Goods Issue
4RR_<your_country> - Decentralized EWM - Physical Inventory
4RS_<your_country> - Decentralized EWM - Replenishment

Create the following manual settings:

- Defining RFC Destination [page 66]
- Defining Dummy Logical System [page 68]
- Determining RFC Destinations for Method Calls [page 69]
- Determining RFC Destinations for Method Calls from SAP S/4HANA EWM [page 69]
- Defining Queue for Transfer to SAP S/4HANA EWM [page 70]
- Setting the QOUT Scheduler [page 71]
- Defining the Business System [page 72]
- Defining Own Business System [page 72]
- Maintaining Business System Group [page 73]
- Assigning Logical System and Queue Type [page 74]
- Setting Control for RFC Queue [page 74]

3.6.1.4.1 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>**
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.

3.6.1.4.2 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 *SAP NetWeaver* > *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.

3.6.1.4.3 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 *SAP NetWeaver* > *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`)

3.6.1.4.4 Determining RFC Destinations for Method Calls from SAP S/4HANA EWM

Context

You use this procedure to determine remote function call (RFC) destinations in the EWM system used for method calls. This step is required for initial stock uploading or goods movement posting from EWM.

Procedure

1. Start transaction `SA38` or from the menu, choose *Tools* > *ABAP Workbench* > *Development* > *ABAP Editor*.
2. On the *ABAP Editor: Initial Screen*, in the *Program* field, enter **`/SCWM/R_ERP_RFC_DEST`**.
3. Choose *Execute*.
4. On the *Assign a Standard BAPI Destination* screen, in the *RFC Destination* field, enter the RFC destination you have created for the system:

<S/4HANA system name>CLNT<client>, for example **RSKCLNT079**.

5. Choose *Execute*.
6. Confirm the message *Destination created successfully*.
7. Choose the *Back* button.

Results

An entry is created in table `TBLSYSDEST` 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`. You can only view this entry in table`TBLSYSDEST` by using transaction `SE16`.

3.6.1.4.5 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**	
MQueue Act	**Mass Queue disabled (=> Single Queues)**	

Field Name	Entry	Comment
MQueue Par	**1**	

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

3.6.1.4.6 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.

> **i 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).

3.6.1.4.7 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.

> **i** 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*.

3.6.1.4.8 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`.

3.6.1.4.9 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).

3.6.1.4.10 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).

3.6.1.4.11 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).

3.6.1.5 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 76]
- Settings in SAP S/4HANA Decentralized EWM System [page 84]

3.6.1.5.1 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:

3.6.1.5.1.1 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.

3.6.1.5.1.2 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*.

3.6.1.5.1.3 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.

3.6.1.5.1.4 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	SAP NetWeaver → 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*.

3.6.1.5.1.5 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)	SAP NetWeaver → 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*.

3.6.1.5.1.6 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`).

3.6.1.5.1.7 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).

3.6.1.5.1.8 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

3.6.1.5.1.9 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*.

3.6.1.5.2 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 84]
- Naming Logical Systems in SAP S/4HANA Decentralized EWM System [page 85]
- Assigning Logical System to SAP S/4HANA Decentralized EWM Client [page 86]
- Setting Up RFC Destination to SAP S/4HANA ERP System in SAP S/4HANA Decentralized EWM System [page 87]
- Determining RFC Destinations for Method Calls in SAP S/4HANA Decentralized EWM System [page 88]
- Setting Up QOUT Scheduler [page 89]
- Setting Up QIN Scheduler [page 90]
- Setting Up qRFC Administration for CIF Queue Display [page 90]
- Maintaining Business System Group in SAP S/4HANA Decentralized EWM System [page 91]
- Defining Business System [page 92]
- Defining Own Business System [page 93]
- Assigning Logical System and Queue Type [page 94]
- Control for RFC Queue [page 94]
- Setting Control Parameters for ERP Version Control [page 96]
- Creating Model 000 and Version 000 [page 97]

3.6.1.5.2.1 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.

3.6.1.5.2.2 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*.

3.6.1.5.2.3 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.

3.6.1.5.2.4 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	SAP NetWeaver → 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*.

3.6.1.5.2.5 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	SAP NetWeaver → 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*.

3.6.1.5.2.6 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 SQMS.
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)**
Scheduler Monitoring	**0**

7. Choose *Continue* (Enter).

3.6.1.5.2.7 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).

3.6.1.5.2.8 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

3.6.1.5.2.9 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*.

3.6.1.5.2.10 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)

Business System	Logical System	Manual Maint.
<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*.

3.6.1.5.2.11 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*.

3.6.1.5.2.12 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*.

3.6.1.5.2.13 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*.

3.6.1.5.2.14 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*.

3.6.1.5.2.15 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*.

3.6.1.5.2.16 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*.

3.6.2 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 98]
Adapting SAP Best Practices Content After Activation [page 100]

3.6.2.1 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 48]). 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.

3.6.2.2 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*.

3.6.3 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.

3.6.3.1 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`.

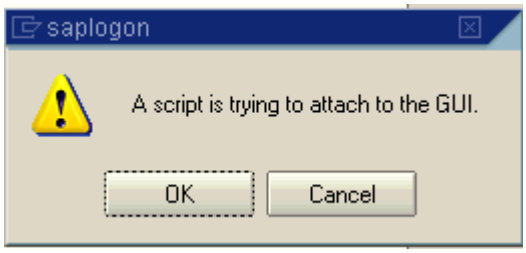
3.6.3.2 eCATT Error: "variable xyz does not exist"

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`.

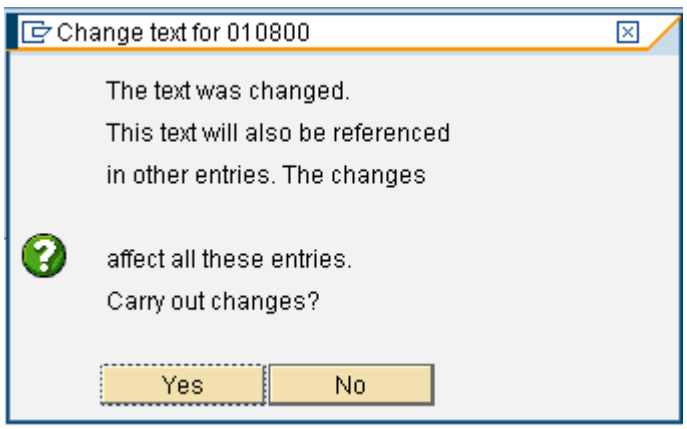
3.6.3.3 Dialog Box During Activation: "A script is trying to attach to the GUI"

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*.



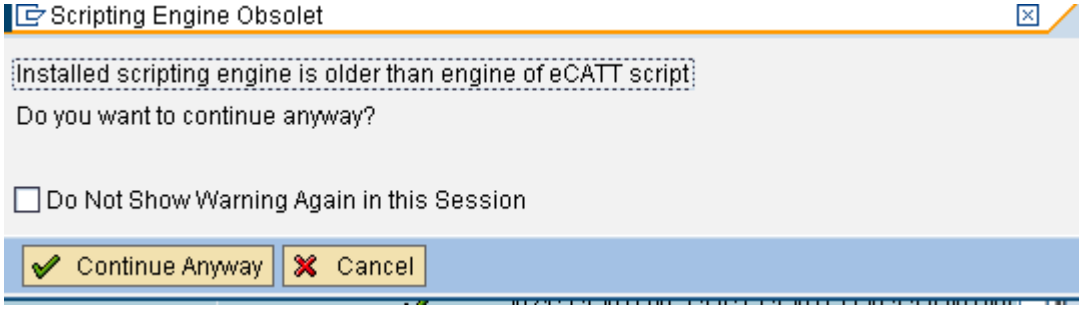
3.6.3.4 Dialog Box During Activation Asking to Confirm Text Changes

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



3.6.3.5 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.

3.6.3.6 Processing Scope Item Specific Errors

Building Block	Error Message	Error Resolution
BLG BR1	Error in eCATT `/SMB99/CHARACTERISTIC_O209_J01`: some or all variants terminate with status `red`	If the eCATT `/SMB99/CHARACTERISTIC_O209_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.

3.6.4 Carrying Out Post-Activation Configuration

Carry out the following activities after the content activation:

Table 3:

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 113] OData Service Registration for Enterprise Contract Management [page 114]
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 115] **Note** For workflows in Sourcing and Procurement, please see the product assistance for flexible workflows. Agent Assignment Attribute for PFTC_CHG Workflow [page 117] Setting Up Default Print Queues [page 117] Configuring the Web Service Runtime [page 118]

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 for MBC connectivity as described in the sections under chapter Setting Up Multi-Bank Connector (MBC) Connectivity for SAP S/4HANA [page 122].
Setting up Automated Dynamic Discounts with SAP Ariba Discount Management	19O - Automated Dynamic Discounts with SAP Ariba Discount Management	Create settings as described in the Set-up Instructions 19O For setting up workflows for Sourcing and Procurement objects, please see the product assistance for flexible workflows.
Setting up Sourcing with SAP Ariba Sourcing	1A0 - Sourcing with SAP Ariba Sourcing	Create settings as described in the Set-up Instructions 1A0 For setting up workflows for Sourcing and Procurement objects, please see the product assistance for flexible workflows.
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 J82 For setting up workflows for Sourcing and Procurement objects, please see the product assistance for flexible workflows.

Activity	Affected Scope Items	More Information
	1FS_<your_country> - Basic Warehouse Inbound Processing from Supplier	
	1G2_<your_country> - Basic Warehouse Outbound Processing to Customer	
	1FU_<your_country> - Initial Stock Upload for Warehouse	
	1FY_<your_country> - Replenishment in Warehouse	
	1FW_<your_country> - Physical Inventory in Warehouse	
	1G0_<your_country> - Scrapping in Warehouse	
Set up SAP EWM Integration	1V5_<your_country> - Warehouse Inbound Processing from Supplier with Batch Management	Carry out the Post-Activation Steps for Embedded EWM Scope Items [page 136].
	1V7_<your_country> - Batch Management in Outbound Processing	
	1V9_<your_country> - Basic Warehouse Inbound Processing from Supplier with Quality Management	
	1VB_<your_country> - Production Integration - Component Consumption and Receipt in Warehouse	
	1VD_<your_country> - Advanced Warehouse Outbound Processing to Customer	
Make settings to secure your data and processes	All scope items	Security Settings in the SAP S/4HANA Front End System (SAP Gateway) [page 132] To get an overview of security-relevant information, refer to the SAP S/4HANA Security Guide.

Activity	Affected Scope Items	More Information
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 135]
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 184]
Setting up Central Requisitioning	1XI - Central Requisitioning	Create settings as described in the Set-up Instructions 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 18J For setting up workflows for Sourcing and Procurement objects, please see the product assistance for flexible workflows.
Setting up Proposal of Material Group	2XV - Proposal of Material Group	Create settings as described in the Set-up Instructions 2XV
Setting up Proposal of New Catalog Item	2XW - Proposal of New Catalog Item	Create settings as described in the Set-up Instructions 2XW
Setting up Inbound Service for Predictive Analytics Integrator	2V2 - Inbound Service for Predictive Analytics Integrator	Create settings as described in the Set-up Instructions 2V2
Setting up Statistical Sales Conditions	34B - Statistical Sales Conditions	Create settings as described in the Set-up instructions 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*.

Activity	Affected Scope Items	More Information
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*.
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 Social Collaboration Integration	1JB - Social Collaboration Integration	Create settings as described in the Set-up instructions 1JB
Setting up Cash Application Integration	1MV - Cash Application Integration	Create settings as described in the Set-up instructions 1MV
Setting up Specification Management for Recipes	1QA - Specification Management for Recipes	Create settings as described in the Set-up instructions 1QA
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 1WE
Setting up Requirements Driven Development	2G4 - Requirements Driven Development	Create settings as described in the Set-up instructions 2G4
Setting up Central Purchase Contracts	2ME - Central Purchase Contracts	Set-up instructions 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 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 2U2

Activity	Affected Scope Items	More Information
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 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 2WK
Setting up Central Purchasing	2XT - Central Purchasing	Set-up instructions (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 2YC
Setting up Proposal of options for Materials without Purchase Contract	30W - Proposal of options for Materials without Purchase Contract	Create settings as described in the Set-up instructions 30W
Setting up Group Reporting - Data from External Systems	2U6 - Group Reporting - Data from External Systems	Create settings as described in the Set-up instructions 2U6
Setting up Contingent Workforce Procurement via SAP Fieldglass	22K - Contingent Workforce Procurement via SAP Fieldglass	Set-up instructions 22K For setting up workflows for Sourcing and Procurement objects, please see the product assistance for flexible workflows.
Setting up Contingent Workforce Invoice Processing via SAP Fieldglass	19W - Contingent Workforce Invoice Processing via SAP Fieldglass	Set-up instructions 19W
Setting up Treasury Workstation Cash Integration	34P - Treasury Workstation Cash Integration	Create settings as described in the Set-up instructions 34P
Setting up Legal Control	1W8 - Legal Control	Create settings as described in the Set-up instructions 1W8

Activity	Affected Scope Items	More Information
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 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 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 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 2U1
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 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 24J
Setting up Intercompany Reconciliation Process	40Y - Intercompany Reconciliation Process	Create settings as described in the Set-up instructions 40Y
Setting up Order-based Transportation Consolidation	3EP - Order-based Transportation Consolidation	See the following sections in the SAP S/4HANA 2020 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 35Q

Activity	Affected Scope Items	More Information
Setting up Integration to SAP S/4HANA Cloud for Enterprise Contract Assembly	2OQ - Integration to SAP S/4HANA Cloud for Enterprise Contract Assembly	Create settings as described in the Set-up instructions 2OQ
Setting up Central Sourcing	3ZF - Central Sourcing	Create settings as described in the Set-up instructions 3ZF For setting up workflows for Sourcing and Procurement objects, please see the product assistance for flexible workflows.
Setting up Image-Based Buying	3UH - Image-Based Buying	Create settings as described in the Set-up instructions 3UH
Setting up Liquidity Planning	3L5 - Liquidity Planning	Create settings as described in the Set-up instructions 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 2JN
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 Set-up instructions 287
Setting up Production Operations with Manufacturing Execution System	1Y5 - Production Operations with Manufacturing Execution System	Create settings as described in the Set-up instructions 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 1XV
Setting up Advance Compliance Reporting	1J2 - Advance Compliance Reporting	Create settings as described in the Set-up instructions 1J2
Setting up Supplier Quote Automation with SAP Ariba Commerce Automation	1L2 - Supplier Quote Automation with SAP Ariba Commerce Automation	Create settings as described in the Set-up instructions 1L2

Activity	Affected Scope Items	More Information
Set up Blockchain-Verified RFQ Processing	3DT - Blockchain-Verified RFQ Processing	Create settings as described in the Set-up instructions 3DT
Set up Intelligent Approval Workflow	43E - Intelligent Approval Workflow	Create settings as described in the Set-up instructions 43E
	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 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 2EM
Setting up Situation Handling	31N - Situation Handling	Create settings as described in the Set-up instructions 31N
Setting up Scheduling Agreements in Procurement	BMR - Scheduling Agreements in Procurement	Create settings as described in the Set-up instructions BMR
Setting up Tax Service Integration	43D - Tax Service Integration	Create settings as described in the Set-up instructions 43D
Setting up Service Contract Management	426 - Service Contract Management	Create settings as described in the Set-up instructions 426
Setting up Interaction Center Service Request Management	41W - Interaction Center Service Request Management	Create settings as described in the Set-up instructions 41W
Setting up Service Order Management	41Z - Service Order Management	Create settings as described in the Set-up instructions 41Z
Setting up Presales Management	41V - Presales Management	Create settings as described in the Set-up instructions 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 4N6

Activity	Affected Scope Items	More Information
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 4A1
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 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 2NV

3.6.4.1 Creating SAP NetWeaver Gateway Settings

Requests for Bank Accounts - Defining the Scenario [page 113]

OData Service Registration for Enterprise Contract Management [page 114]

3.6.4.1.1 Requests for Bank Accounts - Defining the Scenario

Context

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

Procedure

1. Start transaction `SPRO` and choose *SAP NetWeaver* > *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.

3.6.4.1.2 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.

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

3.6.4.2.1 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.

3.6.4.2.2 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**

3.6.4.2.3 Setting Up Default Print Queues

Prerequisites

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.

3.6.4.2.4 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.

3.6.4.2.5 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.

3.6.4.2.6 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.

3.6.4.2.7 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.

3.6.4.2.8 Checking Time Zone Settings

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

Context

After activating the Best Practice content, please make sure to check the system time zone in the customizing activity *SAP NetWeaver* > *General Settings* > *Time Zones* > *Maintain System Settings (transaction STZAC)* in the activation client. This setting has to be consistent with the underlying server and database settings. To check consistency, run the report RSDBTIME in the activation client.

If the time zone default value *UTC* is not consistent with your system environment, please 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*.

3.6.4.3 Setting Up Multi-Bank Connector (MBC) Connectivity for SAP S/4HANA

3.6.4.3.1 Activating XI Engine in Transaction SICF

Prerequisites

Make sure that SICF node path `/sap/xi/engine` is active.

Procedure

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

SAP Menu	*Architecture and Technology* > *System Administration* > *Administration* > *Network* > *HTTP Service Hierarchy Maintenance*
Transaction Code	`SICF`

2. Choose *Execute (F8)*.
3. Navigate the following path: `/sap/xi/engine`

4. Check that the following services are activated:

   `/sap/xi/engine`

   `/sap/xi/adapter_plain`

   `/sap/xi/cache_ssl`

   `/sap/xi/cache`

   `/sap/bc/bsp/sap/sxms_alertrules`

   `/sap/bc/bsp/sap/alertinbox`

   `/sap/xi/cache_gui`

   `/sap/xi/cache_gui_ssl`

   `/sap/xi/simulation`

   `/sap/bc/webdynpro/sap/appl_bckgnd_moni_jobs`

   `/sap/public/bc/webicons`

   `/sap/public/bc/pictograms`

   `/sap/bc/webdynpro/sap/c_srt_seq_mon`

   `/sap/bc/webdynpro/sap/appl_log_trc_viewer`
5. If the services are not activated, right-click the service and choose *Activate service*.

3.6.4.3.2 Defining the Logical System in Table LCRT_CLNTCACHE

Context

If not available, define the logical system in table `LCRT_CLNTCACHE` (Cross-client Customizing needs to be allowed)

Procedure

1. To carry out the activity, start transaction `SE16`.
2. Enter `LCRT_CLNTCACHE` as the table name and choose *Create Entries*.
3. Make the following entries:

Field name	User actions and values
SRTFD	<SID><client>, for example, **ER9500**
AEDAT	Enter current date.
BS KEY NAME	<SID>_<client>, for example, **ER9_500**
BS ROLE	**LOC**
BS CAPTION	<SID>_<client>, for example, **ER9_500**

4. Save.

3.6.4.3.3 Configuring Integration Engine in SXMB_ADM

Procedure

1. Start transaction `SXMB_ADM`.
2. Choose *Integration Engine* > *Configuration* > *Integration Engine Configuration*
3. In the menu bar, choose *Edit* > *Change Selected Configuration Data*
4. Select *Application System* as the business system role.

3.6.4.3.4 Activating Queues for XI Message Processing

Procedure

1. Start transaction `SXMB_ADM`.
2. Choose *Integration Engine* > *Administration* > *Manage Queues*
3. Choose *Register Queues*.

3.6.4.3.5 Creating Interface-Specific XI Configuration

Creation of Sender/Receiver

Context

The following senders/receivers have to be created:

- MBC Payment
- MBC Connector Pull
- MBC Connector Acknowledgment

Procedure

1. Start transaction `SXMSIF`.
2. Choose *Edit*. Then choose *New Entries* and create the following settings:

MBC Payment	
Sender/ReceiverID	**FSN_PAYMENT**
Description	**FSN Payment**
Component	*
Interface Name	**FSNInterface_Out**
Interface Namespace	http://sapcd.com/fsnagt

MBC Connector Pull	
Sender/ReceiverID	**FSN_PULL**
Description	**FSN Connector Pull**
Component	*
Interface Name	**FSNInterfaceSync_Out**
Interface Namespace	http://sapcd.com/fsnagt

MBC Connector Acknowledgment	
Sender/ReceiverID	**FSN_ACK**
Description	**FSN Connector Acknowledgment**
Component	*
Interface Name	**FSNInterface_Pull_Receipt_Out**
Interface Namespace	http://sapcd.com/fsnagt

Creation of RFC

Context

Creation of RFC

An RFC connection has to be created for each Sender/Receiver.

Procedure

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

SAP Menu	*Architecture and Technology* > *System Administration* > *Administration* > *Network* > *RFC Destinations*
Transaction Code	`SM59`

2. On the *Configuration of RFC Connections* screen, choose *Create*. Create the following RFC connections one after the other.

RFC connection for FSN_Payment

Field name	User actions and values
RFC Destination	**FSN_CORP_PAYMENTS-<CLIENT>**
Type	**G**
Target Host	**<Corporate FSN Tenant host>**
Path Prefix	**/cxf/fsn/corp/payments_<SIDCLNT>**
Service No	**443**
Proxy	None, use existing global configuration
Change to the *Logon & Security/Security Options* tab	
Status of Secure Protocol	**SSL Active**
SSL Certificate	**DFAULT**

RFC connection for FSN_Pull

Field name	User actions and values
RFC Destination	**FSN_CORP_PULL-<CLIENT>**
Type	**G**
Target Host	**<Corporate FSN Tenant host>**
Path Prefix	**/cxf/fsn/corp/statements/pull_<SIDCLNT>**

Field name	User actions and values
Service No	**443**
Proxy	None, use existing global configuration
Change to the *Logon & Security/Security Options* tab	
Status of Secure Protocol	**SSL Active**
SSL Certificate	**DFAULT**

RFC connection for FSN_ACK

Field name	User actions and values
RFC Destination	**FSN_CORP_ACK-<CLIENT>**
Type	**G**
Target Host	**<Corporate FSN Tenant host>**
Path Prefix	**/cxf/fsn/corp/statements/ack_<SIDCLNT>**
Service No	**443**
Proxy	None, use existing global configuration
Change to the *Logon & Security/Security Options* tab	
Status of Secure Protocol	**SSL Active**
SSL Certificate	**DEFAULT**

Specify interface-specific integration server URL

Context

Specify interface-specific integration server URL

You need to set up an interface-specific integration server URL for each sender/receiver. To do this, you specify the related RFC destination for each sender/receiver ID.

Procedure

1. Start transaction `SXMB_ADM`.
2. Choose *Integration Engine* > *Configuration* > *Integration Engine Configuration*
3. Choose *Configuration*.
4. Switch to change mode. From the menu bar, choose *Edit* > *New Entries*

5. Create the following settings:

	Category	Parameters	Subparameter	Current Value
Entry for FSN_PAY-MENT	RUNTIME	IS_URL	FSN_PAYMENT	dest:// FSN_CORP_PAYMENTS-<CLIENT>
Entry for FSN_PULL	RUNTIME	IS_URL	FSN_PULL	dest:// FSN_CORP_PULL-<CLIENT>
Entry for FSN_ACK	RUNTIME	IS_URL	FSN_ACK	dest:// FSN_CORP_ACK-<CLIENT>

6. Save your entries.

3.6.4.3.6 STRUST Configuration

Configure the SSL Client Standard PSE

Context

Import the root CA of the MBC Load Balancers on Prod landscape: GTECyberTrustGlobalRoot.crt and BaltimoreCyberTrustRoot.crt

If not yet done, download the root CA and the intermediate CA for the MBC landscape (GTECyberTrustGlobalRoot.crt and BaltimoreCyberTrustRoot.crt)

Procedure

1. Start transaction `STRUST`.
2. Navigate to the PSE for **SSL Client Standard** and open it by double-clicking the PSE.
3. Switch to edit mode.
4. Choose the *Import certificate* button.
5. In the *Import Certificate* dialog box, enter or select the path to the provided certificates and choose *Enter*
   The certificate is displayed in the *Certificate* area.
6. Choose *Add to Certificate List* to add the certificate to the *Certificate List* of the SSL Server Standard PSE.
7. Save your entries.

Forward the SSL Client Standard PSE to Cloud Service Center MBC

Procedure

1. Start transaction `STRUST`.
2. Navigate to the PSE for **SSL Client Standard** and open it by double-clicking the PSE.
3. Switch to edit mode.
4. Double-click the *Subject* under *Own Certificate* to display the certificate.
5. Choose the *Export certificate* button.
6. Send the certificate to the MBC Service Center *DL Cloud Service Center FSN Onboarding*.

3.6.4.3.7 Maintaining SSFA Parameters for the MBC Connector

Procedure

1. Start transaction `SSFA`.
2. On the *Change View "Application-Specific SSF Parameters": Overview* screen, choose *New Entries*.
3. On the *New Entries: Details of Added Entries* screen, in the *SSF Application* field, enter **`BSNAGT`** and choose *Enter*.
4. Create the following settings:

Field name	User actions and values
SSF Profile ID (opt)	**`CN=SID SSF BSNAGT, OU=Installation Number, OU=SAP Web AS, O=SAP Trust Community, C=DE`**
Hash Algorithm	**`SHA256.`**
Encryption Algorithm	**`AES128-CBC.`**
Include Certificates	Select checkbox.
Digital Signature with Data	Select checkbox.

5. Save your entries.

3.6.4.3.8 Configuring SSF BSNAGT PSE

Configure the SSL Client Standard PSE

Context

Import the root CA of the MBC Load Balancers on Prod landscape: GTECyberTrustGlobalRoot.crt and BaltimoreCyberTrustRoot.crt

If not yet done, download the root CA and the intermediate CA for the MBC landscape (GTECyberTrustGlobalRoot.crt and BaltimoreCyberTrustRoot.crt)

Procedure

1. Start transaction `STRUST`.
2. In the context menu of *SSF BSNAGT*, choose *Create*.
3. Change the algorithm to **`RSA with SHA-256`**.
4. Set the key length to **`2048`**.
5. Save your entries.
6. Navigate to the PSE for **SSF BSNAGT** and open it by double-clicking the PSE.
7. Switch to edit mode.
8. Double-click the *Subject* under *Own Certificate* to display the certificate.
9. Choose the *Export certificate* button.
10. Send the BSNAGT certificate to the MBC Service Center *DL Cloud Service Center FSN Onboarding*.

Import the MBC tenant certificate into SSF BSNAGT PSE

Context

The certificates together with the URL are provided by the *Cloud Service Center MBC*.

Procedure

1. To add the certificate to the *Certificate List* of the SSL BSNAGT PSE, choose *Import Certificate*. Select the provided file and start the upload.
2. Choose the *Add to Certificate List* button.
3. Save your entries.
4. Click the *Certificate Details* button and copy the **subject line** to a temporary text file.

   This information is required in the section Configuring Message Level Security [page 131].

5. Start transaction `SMICM` and restart ICM (▶ *Administration* ▶ *ICM* ▶ *Exit soft* ▶ *Global* ▶).

3.6.4.3.9 Configuring Message Level Security

Procedure

1. Access the transaction using the following navigation option:

Transaction Code	`SPRO`
SAP Menu	▶ *SAP Reference IMG* ▶ *Financial Services Network Connector* ▶ *Maintain Secure Store and Forward (SSF) Profile Data* ▶

2. On the *Change View "Maintain Secure Store and Forward (SSF) Profile Data": Overview* screen, create the following settings for each of the message types:
   - `PAIN.001.001.03`
   - `CAMT.053.001.02`
   - `PAIN.002.001.03`

   Maintain the field *Signatory/Recipient Name* using the data from the temporary text file (see Configuring SSF BSNAGT PSE [page 129]).

Message Type	SenderID ReceiverID	Appl.	Signatory/ Recipient Name	Sign	Encrypt	Decrypt	Verify
PAIN. 001.001.03		BSNAGT	**CN=_EDX_ 00163E07 32641EE3 BC907ECD 36C4DB8D , OU=I0000 00000740 018331 – Business ByDesign , O=SAP Trust Communit y, C=DE**	Yes	Yes	Yes	Yes

3. Save your entries.

3.6.4.4 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 whitelist of MIMEtypes. 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 NetWeaver 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 (this means whitelisting is used)

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

Activate virus scanning in gateway with profile ZBASIC. Use file type whitelisting wherever possible. The scanner whitelist should be as restrictive as possible.

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

If major extensions to the whitelist 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 whitelist. The final whitelist 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 NetWeaver 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.

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

Procedure

1. Start transaction `SR13`.
2. Select the tab *PlainHtmlHttp*.
3. Choose *New Entries*.

   Create new entries for both the *Documentation* and the *XML Documentation* areas.

   To create entries for the *Documentation* area, enter the following values. For more information, refer to the section *User Assistance Settings* in the *Installation Guide for SAP S/4HANA 2020*:

Name	Value to be entered
Variant	Enter a name for the variant (any name).
Platform	Select the platform relevant for your implementation, for example, **`WN32`**.
Area	Select *Documentation*. This selection is displayed in the table as *IWBHELP*.
Server Names	Enter **`https://help.sap.com/http.svc/ahp2`**.
Path	Enter **`dps/d/ahp/2020`**.
Language	Select the language you need.

   To create entries for the *XML Documentation* area, enter the following values:

Name	Value to be entered
Variant	Enter a name for the variant (any name).
Platform	Select the platform relevant for your implementation, for example, **`WN32`**.
Area	Select *XML Documentation*. This selection is displayed in the table as *XML_DOCU*.
Server Names	Enter **`https://cp.hana.ondemand.com`**.

Name	Value to be entered
Path	Enter `dps/d/ahp/2020` .
Language	Select the language you need.

4. Repeat step 3 for each relevant platform and language.
5. Select **one** entry as default per platform.
6. Save your changes and create a transport.

3.6.4.6 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
1FS_<your_country> - Basic Warehouse Inbound Processing from Supplier
1G2_<your_country> - Basic Warehouse Outbound Processing to Customer
1FU_<your_country> - Initial Stock Upload for Warehouse
1FY_<your_country> - Replenishment in Warehouse
1FW_<your_country> - Physical Inventory in Warehouse
1G0_<your_country> - Scrapping in Warehouse
1V5_<your_country> - Warehouse Inbound Processing from Supplier with Batch Management
1V7_<your_country> - Batch Management in Outbound Processing
1V9_<your_country> - Basic Warehouse Inbound Processing from Supplier with Quality Management
1VB_<your_country> - Production Integration - Component Consumption and Receipt in Warehouse
1VD_<your_country> - 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 137]
- Mapping Warehouse Numbers from ERP System to EWM [page 138]
- Mapping Storage Locations from ERP System to EWM [page 138]
- Replicating PSA to EWM [page 139]
- Settings for Printing [page 140]

3.6.4.6.1 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/OL19` 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*()

3.6.4.6.2 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*.()

3.6.4.6.3 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*. ()

3.6.4.6.4 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.
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*.

3.6.4.6.5 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 141]
- Creating Condition Records for HU Printing Procedure [page 143]
- Creating Condition Records for Printing (Warehouse Orders) [page 147]
- Creating Condition Records for Printing (Physical Inventory) [page 148]

3.6.4.6.5.1 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.
Device Class	**_ Standard printer**	Default value

Field Name	User Action and Values	Comment
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.

3.6.4.6.5.2 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

> **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*. ()

3.6.4.6.5.3 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*. ()

3.6.4.6.5.4 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)

3.6.4.7 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 150]
- Distributing Master Data using ALE/Idoc in SAP S/4HANA ERP System [page 157]
- Activating Additional Data Transfer in EWM [page 162]
- Generating Distribution Model from SAP S/4HANA to SAP EWM in SAP S/4HANA ERP System [page 164]
- Mapping Warehouse Numbers from ERP System to EWM in SAP S/4HANA Decentralized EWM System [page 165]
- Mapping Storage Locations from ERP System to EWM in SAP S/4HANA Decentralized EWM System [page 166]
- Maintaining Warehouse Product Attributes in the SAP S/4HANA Decentralized EWM System [page 171]

3.6.4.7.1 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 151]
- Creating Reduced Message Types in ERP System [page 152]
- Creating Reduced Message Types in Decentralized EWM System [page 153]
- Creating ALE Configuration in ERP System [page 154]
- Creating ALE Configuration in decentralized EWM System [page 155]

3.6.4.7.1.1 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).

3.6.4.7.1.1.1 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.

3.6.4.7.1.1.2 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.

3.6.4.7.1.1.3 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.

3.6.4.7.1.1.4 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.

3.6.4.7.1.1.5 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*.

3.6.4.7.2 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.

3.6.4.7.2.1 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 158]

- Executing Initial Transfer of Classes [page 158]
- Executing Initial Transfer of Materials [page 159]
- Executing Initial Transfer of Batches [page 160]
- Executing Initial Transfer of Customers [page 161]
- Executing Initial Transfer of Vendors [page 162]

3.6.4.7.2.1.1 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*.

3.6.4.7.2.1.2 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*.

3.6.4.7.2.1.3 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*.

3.6.4.7.2.1.4 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*.

3.6.4.7.2.1.5 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*.

3.6.4.7.2.1.6 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*.

3.6.4.7.3 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.

3.6.4.7.4 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*.

3.6.4.7.5 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*.

3.6.4.7.6 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*.

3.6.4.7.7 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*.

3.6.4.7.8 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*.

3.6.4.7.9 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*.

3.6.4.7.10 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.

3.6.4.7.11 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.

3.6.4.7.12 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			

3.6.4.7.13 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*.

3.6.4.7.14 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 95].

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*.

3.6.4.7.15 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 175]
- Spool Administration [page 175]
- Creating Condition Records for HU Printing [page 177]
- Creating Condition Records for Printing (Warehouse Orders) [page 181]
- Creating Condition Records for Printing (Physical Inventory) [page 182]

3.6.4.7.15.1 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*.

3.6.4.7.15.2 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.

3.6.4.7.15.3 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	
No. Copies	

Option	Description
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	
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					

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	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)

3.6.4.7.15.4 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	WhsePrcTp e	Form	Printer	PPool	Spool Data	Action
XX60				**/SCWM/ WO_SING LE**	**SDP1_XX**		**01**	**WO_SING LE**

> **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*.

3.6.4.7.15.5 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	Pro-cessor	PI Area	Form	Printer	PPool	Spool Data	Action Defini-tion	No Print	Det. No. of C	Form Type
XX60		**S001**	**/SCWM/PI_CNT_FIORI**	**SDP1_XX**		**01**	**PI_COUNT_FIORI**		**1**	**A**
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*.

3.6.4.7.16 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 35]
2. Setting Up SAP S/4HANA Attachment Services (Front End System) [page 39]

3.6.4.8 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 184]

Assigning a User to an Employee [page 186]

Defining the Email Address of an Employee [page 187]

Business Partner Synchronization [page 188]

Changing the Organizational Structure [page 189]

3.6.4.8.1 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**

Field	Value
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`.

3.6.4.8.2 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`.

3.6.4.8.3 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`.

3.6.4.8.4 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`.

3.6.4.8.5 Changing the Organizational Structure

Context

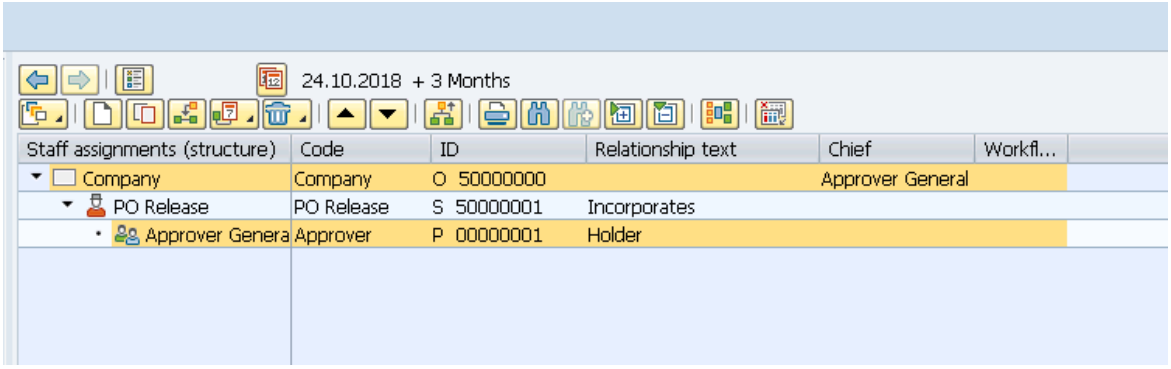
In this step, you assign the position and the organizational unit to a previously created employee and grant the employee permission to release a purchase order.

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 184] 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`.

3.6.5 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 48]). 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.

3.6.6 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.

3.7 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.

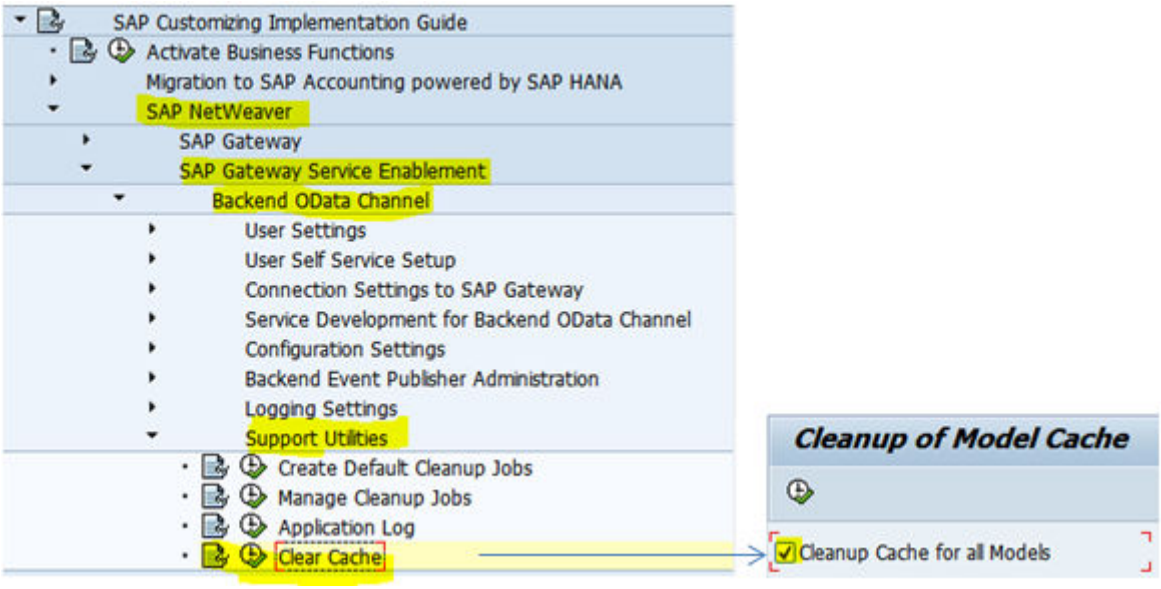
3.8 Deleting the Metadata Cache

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 *SAP NetWeaver* > *SAP Gateway Service Enablement* > *Backend OData Channel* > *Support Utilities* > *Clear Cache*.
4. Choose *Cleanup Cache for all Models*.
5. Choose *Execute*.



3.9 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`.

3.9.1 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.

3.10 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.

3.11 Known Issues

3.11.1 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 2020

The following section lists all required activities when you upgrade to 2020.

> ⚠ Caution
>
> If you have already activated the 1909 Best Practices Content, **do not activate** the Best Practices Content for 2020 with the standard procedure in SAP Best Practices Solution Builder. It is currently not supported.
>
> Do not apply 2020 content to a 1909 release. A higher version content on a lower release system is generally not supported.
>
> The upgrade from 1909 to 2020 is only a technical system upgrade. A content lifecycle compatible upgrade in an On Premise system is not supported in the SAP Best Practices Solution Builder. After the technical upgrade, we recommend activating SAP Best Practices in a separate client and running a FIT/GAP analysis of the current Customizing. For the same reason, you cannot install an additional country solution in the context of an upgrade from 1909 to 2020.

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

Procedure

1. Start transaction `SR13`.
2. Select the tab *PlainHtmlHttp*.
3. Choose *New Entries*.

   Create new entries for both the *Documentation* and the *XML Documentation* areas.

   To create entries for the *Documentation* area, enter the following values. For more information, refer to the section *User Assistance Settings* in the *Installation Guide for SAP S/4HANA 2020*:

Name	Value to be entered
Variant	Enter a name for the variant (any name).
Platform	Select the platform relevant for your implementation, for example, **`WN32`**.
Area	Select *Documentation*. This selection is displayed in the table as *IWBHELP*.
Server Names	Enter **`https://help.sap.com/http.svc/ahp2`**.
Path	Enter **`dps/d/ahp/2020`**.
Language	Select the language you need.

To create entries for the *XML Documentation* area, enter the following values:

Name	Value to be entered
Variant	Enter a name for the variant (any name).
Platform	Select the platform relevant for your implementation, for example, **`WN32`**.
Area	Select *XML Documentation*. This selection is displayed in the table as *XML_DOCU*.
Server Names	Enter **`https://cp.hana.ondemand.com`**.
Path	Enter **`dps/d/ahp/2020`** .
Language	Select the language you need.

4. Repeat step 3 for each relevant platform and language.
5. Select **one** entry as default per platform.
6. Save your changes and create a transport.

4.1.2 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.
>
> For a summary of all roles used in this edition sorted by scope item, refer to the Process steps, business roles, and apps.

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 NetWeaver 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.

4.1.3 Executing Basic SAP Fiori Configuration

Context

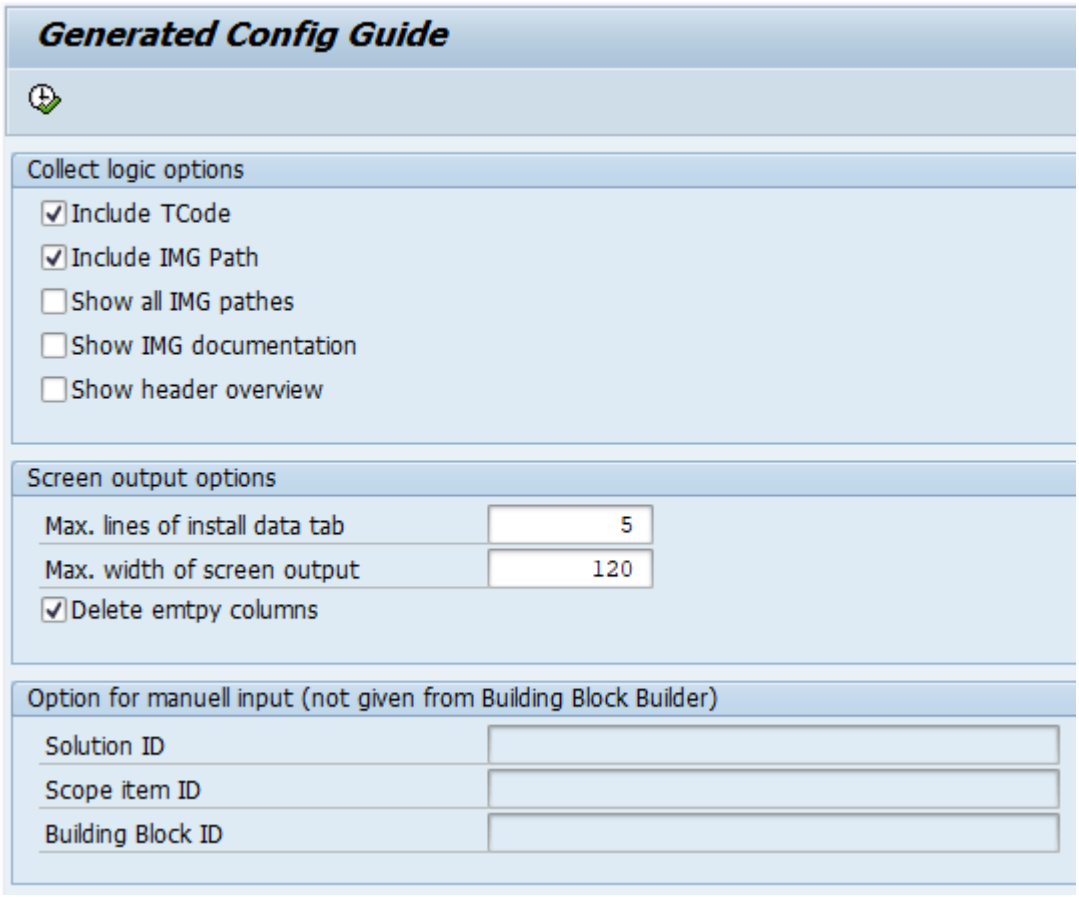
To carry out the basic SAP Fiori configuration, apply the settings as described under http://help.sap.com/s4hana: `<Your on-premise edition>` under *Discover* > *Product Assistance* > *Enterprise Technology* > *SAP Fiori* > *SAP Fiori Overview*. With SAP S/4HANA, all new functions, features, and innovations 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.*SAP Fiori Overview* explains how to setup 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.

Apply the settings as described under http://help.sap.com/s4hana: `<Your on-premise edition>` under *Discover* > *Product Assistance* > *Enterprise Technology* > *SAP Fiori* > *SAP Fiori Overview*.

> **i Note**
>
> See section Exporting Metadata Lists for Fiori UI Add-Ons and OData Services [page 19] for getting the technical data for the required UI add-ons for SAP Best Practices for SAP S/4HANA.

4.1.4 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 `/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.

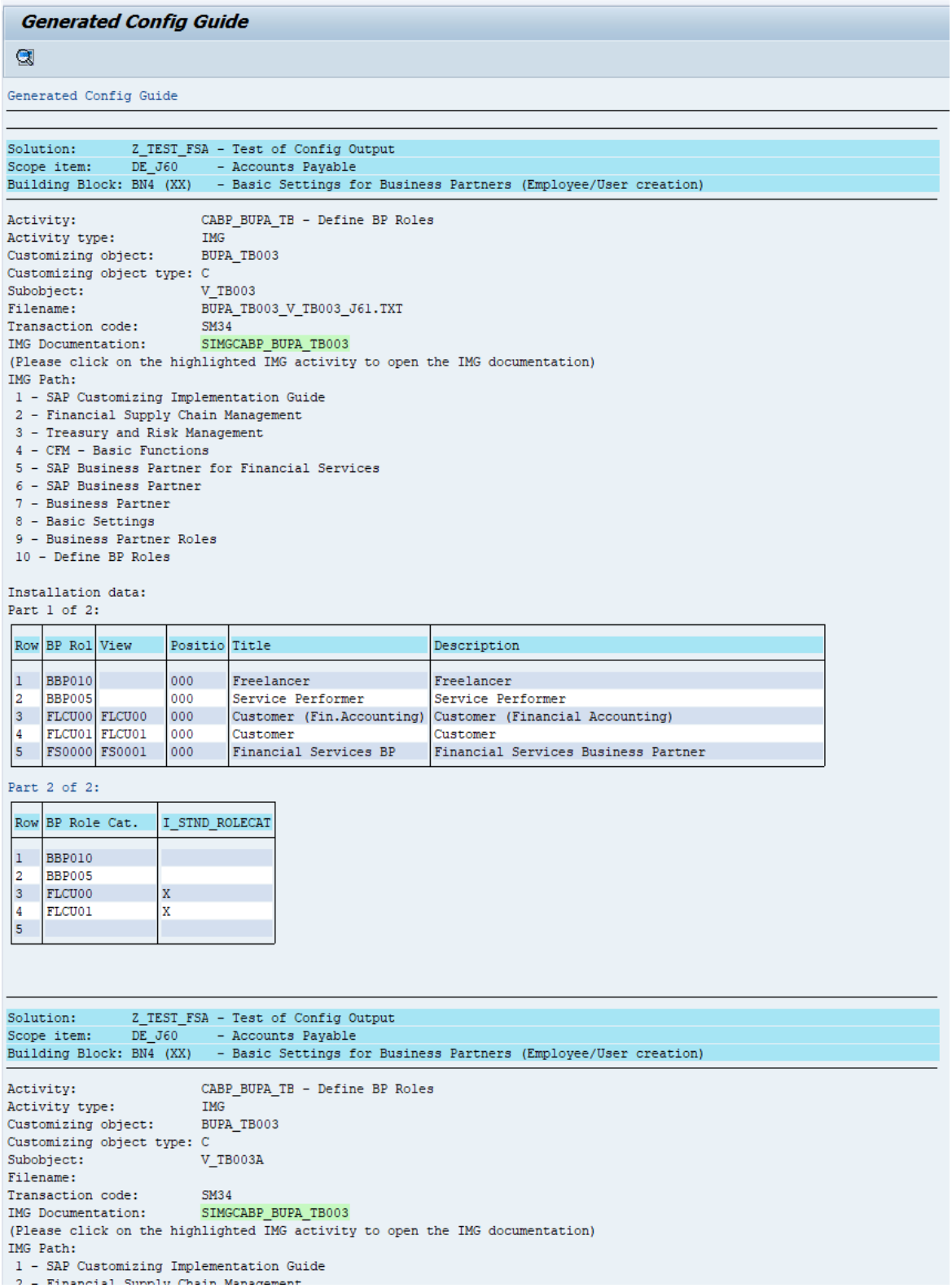
   > → Recommendation
   >
   > Choose a lower level, for example a Building Block instead of a scope item to avoid a long processing time of the report.

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*.

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
Whitelist	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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