

SAP PRESS

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SAP

Homepage Framework

POWERED BY SAP HANA

SAP S/4 HANA

**A Business and Technical
Roadmap to Deploying SAP**

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INTRODUCTION

Welcome to the fascinating world of SAP. This book helps you crack the tricks of mastering SAP HANA Customization

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Homepage Framework

Homepage Framework (Overview)

Use

The *Homepage Framework* enables you to create overview and area pages, thereby providing your employees easy access to Web applications (services) that run in the *SAP Enterprise Portal*. These pages group and describe the different services and contain hyperlinks with which they can be started. Various components such as *Employee Self-Service* or *Manager Self-Service* can use the framework. It offers the following functions:

- Add short descriptions for the individual services that will appear on the user interface
- Edit the link texts of the hyperlinks that the employees use to start the services
- Emphasize certain services (for example, because there is an urgent deadline)
- Deactivate services
- Display employee-specific information as dynamic links (for example, "Nine days of leave will expire by < Date>")

A role homepage can also be described as an area group page. From a technical point of view, it has a hierarchical structure (see the following example):

Area Group Page

- Area 1
 - Subarea 1
 - Service 1*
 - Service 2*
 - Service 3*
 - Subarea 2
 - Service 4*
 - Service*
- Area 2
 - Subarea 3
 - Service 6*
 - Subarea 4
 - Service 7*
 - Service 8*
 - Subarea
 - Service 9*
- Area 3
 - Subarea 6
 - Service 10*

Service 11
Service 12
Service 13

You can define several area group pages under one header. You can define this header in the homepage framework.

Activities

We recommend you make a graphical design of the areas and services you want to implement. This way, the hierarchical relations between these elements will become apparent. You should also make a list of the necessary resources. You can then implement this concept using the IMG activities below.

For technical reasons, there are two views for the IMG activities in this section:

- The first view contains SAP's standard entries. Use this view to **add** your own entries.
- The second view contains each entry that is entered in the first view. Use this view to **change** SAP's standard entries.
- The views in which you assign areas, subareas and services, and define the order in which they are displayed, are an exception. In this case you need the first view only to look up SAP entries you want to hide or extend. For more information, see the documentation of the relevant IMG activities.

Resources

Define Server for Resources

Use

In this IMG activity, you define the servers where the resources for the homepage framework are stored.

Activities

In the relevant fields, enter the parts of the URL for the server. The system will concatenate these parts to a complete URL at runtime. When you define a resource, you can also enter directory paths or URLs to the resource object. This means that you do not need to define a server:

- When you enter a directory path and a relative URL (such as a file name), the system will append these entries to the server path you define in this IMG activity.
- When you enter a complete URL for a resource object, the system uses this URL. In this case, do not enter a directory path for the resource object.

Example

You make the following entries:

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- Server: CUSTOMER01
- Protocol: https
- Name and Port: server01.com:8080
- Directory Path: etc/resourcefiles

At runtime, the system will concatenate these entries to the following URL: **https://server01.com:8080/etc/resourcefiles**. Note that the system automatically adds the colon (:) and the forward slashes (//) after the protocol.

You define a picture resource object for the homepage header and make the following entries for this object:

- Server: CUSTOMER01
- Directory Path: pictures
- URL of Resource Object: picture01.jpg

The system will try to find this picture resource object at **https://server01.com:8080/etc/resourcefiles/pictures/picture01.jpg** .

You define another picture resource object at a different location and make the following entries for this object:

- Directory Path: [no entry]
- URL of Resource Object: **file://server02/etc/resourcefiles/pictures/picture02.jpg**

The system will try to find this picture resource object at **file://server02/etc/resourcefiles/pictures/picture02.jpg**.

Define Resources

Use

In this IMG activity, you define resources to be used in area group pages and area pages.

In the homepage framework, you define various pages that the system displays in the Web browser. These pages contain objects of different types:

- Texts
- Pictures
- Hyperlinks
- Services (Web Applications)
- Uniform Resource Locators (URL)

In terms of the homepage framework, each of these objects is a **resource**. Resources can be reused throughout the pages you define. When you define a URL for a resource, you need to provide the relevant content at the location the URL refers to.

The resources you define here will be available in the input help of the other IMG activities. We recommend you choose meaningful technical names and short descriptions for the resources.

Note that certain fields in this IMG activity only apply to certain types of resources. Example: If the resource object is a service, it makes sense to enter URL parameters. If the resource object is a picture file, it does not make sense to enter URL parameters.

Service Types

The homepage framework supports the following service types and expects entries in this view as indicated below:

- BSP: Service build with BSP
- Directory Path: No entry
- Object Name: BSP-Application/BSP-Page
- ITS: ITS-based service
- Directory Path: No entry
- Object Name: ITS-Application
- PORTALPAGE: Call a Portal page (PCD)
- Directory Path: No entry
- Object Name: No entry
- Enter the absolute URL of the page in the *URL of PCD Page* field
- URL: Direct URL launched in a separate window
- You can either enter the relevant parts of the URL in the *Directory Path* and *Object Name* fields or enter an absolute URL in the *URL of PCD Page* field.
- WEBDYNPRO: Web Dynpro application
- Directory Path: Vendor/DC-Name
- Object Name: Web Dynpro application

In addition to these entries, you need to enter the PCD page that starts a service in the SAP Enterprise Portal. This applies to all service types.

Example

The service that lets employees display and change their skills profile is a Web Dynpro application. For this service, the following entries are necessary in the fields mentioned above:

- Object Name: SkillsApplication - Directory Path: sap.com/ess~skl
- URL of PCD Page:
ROLES://portal_content/com.sap.pct/every_user/com.sap.pct.ess/pages/com.sap.pct.employ
ee.CareerServices

Headers and Area Group Pages

Define Headers

Use

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In this IMG activity, you define the headers for your homepages. The header contains a picture and a welcome text for the employee.

Activities

You need to define at least one header.

Define Area Group Pages

Use

In this IMG activity, you define area group pages. Area group pages contain descriptions of areas, hyperlinks to access the area pages, and hyperlinks to start services directly.

Activities

You need to define at least one area group page.

Example

You define an area group page for each role in your company. In this case, the different area group pages could also be called role homepages.

Areas

Define Areas

Use

In this IMG activity, you define area pages. Area pages contain services (Web applications) that are related to each other. Employees access an area page from an area group page.

Activities

You need to define at least one area page.

Example

You define an area page for all services in the Time Management area (Record Working Times, Leave Request, and so on).

Assign Areas to Area Group Pages

Use

In this IMG activity, you assign each area to an area group page and define its position.

Activities

If you want to hide an area on an area group page that has been delivered by SAP, proceed as follows:

1. Look up the relevant entry in the **first view** of this IMG activity.
2. Repeat this entry with position **0** in the **second view** of this IMG activity.

If you want to add your own areas to an area group page, enter the area group page in the **second view** of this IMG activity and assign your areas to it. This applies to area group pages delivered by SAP as well as your own area group pages.

Subareas

Define Subareas

Use

In this IMG activity, you define subareas. Areas and subareas can be compared to headings and subheadings in a document. You use subareas to group the services that belong to an area on the screen.

Activities

You need to define at least one subarea per area.

Assign Subareas to Areas

Use

In this IMG activity, you assign subareas to area pages and define their position.

Activities

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If you want to hide a subarea on an area page that has been delivered by SAP, proceed as follows:

1. Look up the relevant entry in the **first view** of this IMG activity.
2. Repeat this entry with position **0** in the **second view** of this IMG activity.

If you want to add your own subareas to an area page, enter the area page in the **second view** of this IMG activity and assign your subareas to it. This applies to area pages delivered by SAP as well as your own area pages.

Services

Define Services

Use

In this IMG activity, you define the services (Web applications) that are to appear on the area pages. For each service you define, a hyperlink and a short description will appear on the related area page.

Employees use this link to start the service. You can make numerous settings to define where and how the hyperlink to the service will appear.

Define Country-Specific Services

Use

In this IMG activity, you define country-specific services. When an employee starts a service, the system determines the employee's country grouping and checks if there is a country-specific service definition in the V_T7XSSSERSRVCG and V_T7XSSSERSRVCGC views.

- If there is a country-specific service definition, the system uses this definition.
- If there is no country-specific service definition, the system uses the general service definition in the V_T7XSSSERSRV and V_T7XSSSERSRVC views. If the general service definition does not contain a resource object, the system does not display the service (see example 2).

This enables you to define country-specific variations of services for certain countries while using a general service definition for all other countries.

Examples

Example 1

Your company has employees in seven different countries:

- Germany (01)

- Austria (02)
 - Switzerland (03)
 - Canada (07)
 - USA (10)
- (Number in brackets = country grouping)

The service for displaying a salary statement is the same for Germany, Austria, and Switzerland. For Canada and the USA, you need services with additional content.

- You define a general service for displaying the salary statement in the V_T7XSSSERSRV and V_T7XSSSERSRVC views.
- You define two additional services for the country groupings 07 and 10 in the V_T7XSSSERSRVCG and V_T7XSSSERSRVCGC views.

When an employee from Germany, Austria or Switzerland starts the service for displaying salary statements, the system uses the service definition in the V_T7XSSSERSRV and V_T7XSSSERSRVC views.

When an employee from Canada or the USA starts the service for displaying salary statements, the system uses the service definition in the V_T7XSSSERSRVCG and V_T7XSSSERSRVCGC views.

Example 2

Your company has employees in two different countries:

- Germany (01)
 - Switzerland (03)
- (Number in brackets = country grouping)

There is a service that is only relevant for employees from Switzerland.

- You define a general service **without a resource object** in the V_T7XSSSERSRV and V_T7XSSSERSRVC views.
- You define a country-specific service **with a resource object** for country grouping 03 in the V_T7XSSSERSRVCG and V_T7XSSSERSRVCGC views

This service is only displayed for employees in Switzerland.

Assign Services to Subareas

Use

In this IMG activity, you assign each service to a subarea and define its position.

Activities

If you want to hide a service in a subarea that has been delivered by SAP, proceed as follows:

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1. Look up the relevant entry in the **first view** of this IMG activity.
2. Repeat this entry with position **0** in the **second view** of this IMG activity.

If you want to add your own services to a subarea, enter the subarea in the **second view** of this IMG activity and assign your services to it. This applies to subareas delivered by SAP as well as your own subareas.

Define Service Groups

Use

In this IMG activity, you can define service groups. Service groups are an additional way of grouping services on an area page.

Example

- You define three additional services for the *Travel* area page:
 - Corporate Travel Policy
 - Visa Information
 - Travel Risk and Threat Advisory
- You define a service group with the name *Additional Travel Information*.
- You enter this service group in the service definition of the mentioned services.

The system groups the links to these services under the heading *Additional Travel Information* on the *Travel* area page.

Define links on confirmation page

Use

In this IMG activity, you determine which links appear on the confirmation page of a self-service application. The confirmation page is the last page displayed when editing an application.

You can display several types of links:

- Standard links connect back to the ESS homepage or the page for the area, or they can restart the service.
- Examples of other links include a direct launch of another self-service application from the confirmation page. In this case, after the user has finished one self-service application, he or she can jump directly to the next self-service application without having to call up the ESS homepage or area page. This is especially useful when two applications either have related content or when your users frequently perform two applications consecutively.

Example:

From the confirmation page of the *Delete Expense Report* application, you can link to the *My Trips and Expenses* application.

You can define up to five links for one application.

Standard settings

You can either change the items delivered in the standard system or create new items for an application.

Activities

Browse to the required application and choose *Details*.

In the group box *Confirmation Screen Links*, you can choose which of the available standard links appear on the application's confirmation page. You can create the text for the selected links in the text field.

In the group box *Service Links*, you can select which other applications you want the confirmation page to be linked to. You can create the text for the selected application links in the text field.

Self-Services

Employee Self-Service (ESS) and Manager Self-Service (MSS)

Use

For information about Customizing for the *Employee Self-Service* component, see Customizing for *Personnel Management* under *Employee Self-Service*.

For information about Customizing for the *Manager Self-Service* component, see Customizing for *Personnel Management* under *Manager Self-Service*.

Express Planning

Define Planning Scenario

Use

In this IMG activity you define a planning scenario that you use for planning with Express Planning in the *SAP NetWeaver Portal*. You can find additional information on using Express Planning in the SAP library under *Cross-Application Components -> Express Planning*.

For each planning scenario you create at least one Express Planning instance. If you create several instances, you can use the planning scenario for more than one planning round. You can additionally define a context area in which information for the planner can be displayed in the portal.

Requirements

The plan versions defined in the instance are available in the IMG activity Maintain Versions.

Standard settings

The planning scenario *Express Planning: Cost Center Planning (0_CC_EXP)* is contained in the standard delivery, which you can use as an example. For additional information on this example, see the SAP library under *Cross-Application Components -> Express Planning -> Example Scenario for Cost Center Planning*.

Activities

You create a planning scenario under *Scenario -> Create*.

Under the *Specification Work Area* node you can then define the steps and substeps of the planning scenario. To do this, place the cursor on the higher-level node and from the context menu choose *Insert Step/Substep*.

You can also use all steps and substeps across a range of scenarios. When you do this, you have the option of either creating the subordinate elements of a scenario again by copying, or including them as a reference of the original.

You make the basic settings for a substep. You use this to include a planning service and define its parameters. If you want to change the standard selection of the object types for the planning service, enter a personalization dialog at the level of the planning scenario that contains the required object types.

You can enter an *RFC Destination* for some substeps. You can specify a different system in the RFC destination than the one that is linked in the portal. The planning service then determines the data in the system specified in the RFC destination when you execute planning.

To define an instance for the planning scenario, place the cursor on the *Specification Instance* node, and from the context menu choose *Insert Instance*.

Under the *Specification Context Area* node you can assign steps and substeps of a planning scenario an explanatory text, a document or a URL. To create a new entry, place the cursor on the higher-level element and from the context menu choose *Insert Section/Item*. You can change the sequence of the context area sections using the arrow keys.

For additional information regarding the settings options, see either the documentation for the fields, or the SAP library under *Cross-Application Components -> Express Planning -> Configuring a Planning Scenario*. You can also access this documentation by choosing *Help -> Application Help*.

Define Key Figure Prices

Use

In this IMG activity you can define prices that can be used within Express Planning for the valuation of statistical key figures entered.

To enter prices, the following entries are mandatory:

- Controlling area that is used to determine the currency and to restrict the validity of key figures and cost elements.

- Key figure for which the valuation is to be made.
- Cost element to which the valuation is posted (if you use the same cost element for several key figures, the individual values are added together).

With these required entries you can enter general prices in the system that are not specified in greater detail with regard to company code, version and also fiscal year and period.

In addition to these general prices, you can also enter prices in greater detail by specifying one or more additional parameters such as the company code.

If you enter several prices in differing levels of detail for a key figure and cost element then the price used for the key figure valuation is the one with the finest granularity (technically the price with the maximum number of matching arguments). If, for example, the valuation is to be carried out for a particular period, and a price has been defined for this period, then this price is used for the valuation. However, if no price has been defined for the period, then the price that has been defined (for example) for the corresponding fiscal year is used. For the price determination, this means that the parameters that can be defined for a price are gradually made more general. Only if no price can be found at the key figure or cost element level in the course of this gradual generalization is the system unable to carry out a key figure valuation.

You enter the price for a price unit. The price unit frequently has the value 1, but you can also specify prices that relate to a particular quantity (for example, price per 100 units)

BAdI: Change Room Parameters

Use

This Business Add-In (BAdI) is used in the role *Business Unit Analyst (BUA) 2.0*. In this role you can create planning rounds for *Express Planning*. In the portal, a room is created for every planning round in which you send Express Planning tasks to the manager, and can follow the status of these planning tasks.

You can use this BAdI to change the parameters of the planning round or room. The BAdI is called when you create a planning round in the portal.

Standard settings

This BAdI is active in the standard SAP system. It cannot be multiply used and is not filter-dependent.

Activities

After you call the IMG activity, the system displays a dialog box where you enter a name for the implementation.

If implementations of this Business Add-In have already been created, the system displays them in a dialog box. You then choose one of them by choosing *Create*, and continue as follows:

1. In the dialog box, enter a name for the implementation of the Add-In and choose *Create*. The system displays the initial screen for creating Business Add-In implementations.
2. On this screen, enter a short description for you implementation in the *Implementation Short Text* field.
3. If you choose the *Interface* tab, you will notice that the system has filled in the *Name of the Implementing Class* field automatically, by assigning a class name based on the name of your implementation.
4. Save your entries and assign the Add-In to a package.
5. To edit a method, double-click its name.
6. Enter your implementation code between the method `<Interface Name>~<Name of Method> . and endmethod . statements.`
7. Save and activate your code. Navigate back to the *Change Implementation* screen.
Note: You can also create an implementation for an Add-In and not activate it until later. If you want to do this, do not carry out the following step:
8. Choose *Activate*.
When the application program is executed, the system carries out the code in the method you wrote.

For more information, see:

Methods

Change person responsible

Change role names

Change the room parameters

Change application parameters

