

Kofax Process Director for use with SAP Fiori

Installation and Configuration Guide

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The KOFAX logo is displayed in a bold, blue, sans-serif font. The letters are thick and closely spaced, with a modern, industrial feel. The 'K' and 'O' are particularly prominent due to their size and the way they connect to the rest of the word.

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Overview

Kofax Process Director™ supports the process of document entry into SAP.

The aim is to facilitate automatic posting of error-free data records, as well as to support users in the process of identifying and amending documents that contain errors.

SAP Fiori® is a platform that provides the porting of applications on mobile devices. It is based on SAP's technology platform, NetWeaver. SAP Fiori enables applications to be used on desktop computers, tablets, and smartphones, and supports HTML5.

You can configure the Kofax Process Director for use with SAP Fiori add-ons to suit the requirements of your organization.

For more information on configuring Process Director and Process Director Accounts Payable, see the following guides.

- *Kofax Process Director Import and Upgrade Guide*
- *Kofax Process Director Accounts Payable Configuration Guide*
- *Kofax Process Director Configuration Guide*
- *Kofax Work Cycle Configuration Guide*
- *Kofax Process Director Web Application Configuration Guide*

Prerequisites

To import the Process Director for use with SAP Fiori add-ons into SAP, the following prerequisites must be met.

Frontend

For information on the tested and supported SAP Fiori and Process Director releases, see the document *Kofax Process Director Suite Supported SAP Releases*.

Backend

SAP software component SAP_GWFND 740, Support Package level 015 or higher.

Process Director for use with SAP Fiori transports

The Process Director for use with SAP Fiori add-ons have two transports.

- Front End (FE): Imported into the gateway
- Back End (BE): Imported into the ERP system

The Process Director for use with SAP Fiori add-on transports are available on request. Partners and customers should contact their local Kofax representative to place an order.

See the *Process Director Import and Upgrade Guide* for information on how to import a transport into SAP.

Checking the namespaces

The Kofax_ReadSoft_Namespaces_FQAK901961.zip transport creates the /EBY/, /COCKPIT/, and /RSE/ namespaces. It is recommended that you check the settings of the /EBY/ and /COCKPIT/ namespaces. To check their settings, complete the following steps.

1. Start the SE03 SAP transaction.
2. In the **Administration** folder, double-click **Display/Change Namespaces**, and then click the **Execute** button.

The namespaces should be defined as follows:

Namespace	/COCKPIT/
Namespace role	C – Recipient
Correction license	13375972671823267744
Short text	Process Director - ReadSoft AG - Germany, Frankfurt/M
Owner	ReadSoft AG

Note: The /COCKPIT/ namespace is required only for Accounts Payable.

Namespace	/EBY/
Namespace role	C – Recipient
Correction license	05790374410114137903
Short text	Process Director - ReadSoft AG - Germany, Frankfurt/M
Owner	ReadSoft AG

3. In the **Administration** folder, double-click **Set System Change Option**, and then click the **Execute** button.

The namespaces should be defined as follows:

Namespace/Name Range	Process Director - ReadSoft AG - Germany, Frankfurt/M
Prefix	/COCKPIT/
Modifiable	X - Modifiable

Namespace/Name Range	Process Director - ReadSoft AG - Germany, Frankfurt/M
Prefix	/EBY/
Modifiable	X - Modifiable

Licensing

The Process Director for use with SAP Fiori add-ons are free of charge and no license is required. However, a license is required for the main products Process Director and Process Director Accounts Payable.

Supported user types

	SAP GUI	PD Web App	ReadSoft Mobile	PD Fiori Apps
SAP User	Yes	Yes	Yes	Yes
WC User	No	Yes	Yes	No

Configuration

This chapter explains how to configure the Process Director for use with SAP Fiori applications.

Note: Always use the SAP Fiori Launchpad to configure and use the Process Director for use with SAP Fiori applications. Kofax tests and supports only the integration with the SAP Standard Fiori Launchpad. In the production environment, always use the Launchpad to open the applications; a direct URL application call is not recommended.

SAP Launchpad designer

Starting the Launchpad designer

Start the launchpad designer using the following URLs:

https://<server>:<port>/sap/bc/ui5_ui5/sap/arsvc_upb_admn/main.html

https://<server>:<port>/sap/bc/ui5_ui5/sap/arsvc_upb_admn/main.html?sap-client=<client>&scope=<CONF/CUST>


Launchpad tiles are created in catalogs. Catalogs are collections of tiles that have similar technical or business functionality (similar to the development packages in ABAP).

You can add tiles to groups. Groups are collections of tiles for specific end users and can contain tiles from different catalogs.

You can grant independent access to catalogs and groups.

Create a catalog

To create a new catalog, complete the following steps.

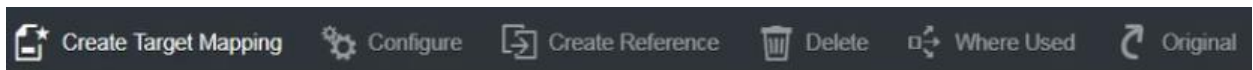
1. In standard launchpad configuration, under the **Catalogs** section, in the footer, click  to display the **Create Catalog** dialog box.
2. Type a title and ID for the new catalog and click **Save**.

The new catalog is created.

Note: The title and ID should follow the customer-specific naming convention.

Example: zcustomer_cat1

3. Select the **Target Mapping** icon, and in the footer, click **Create Target Mapping** to display a new form.



4. Enter the required information. The following list provides some examples.

- **Semantic Object:** *Fiori Application*
- **Action:** *eby_frap_wc*
- **Title:** *Process Director AP*
- **URL:** */sap/bc/ui5_ui5/eby/frap_wc*
- **ID:** *eby.frap_wc*

5. Click **Save**.

Tiles

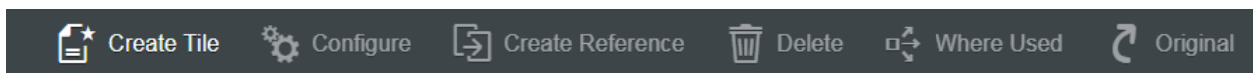
Tiles can be static or dynamic. In dynamic tiles, the data is updated from the database in near real-time (in relatively small intervals).

Note: It is recommended to use dynamic tiles so that even before entering the application, users have an overview of the number of documents that need to be processed.

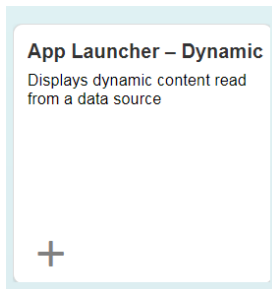
Create a dynamic tile

To create a dynamic tile, complete the following steps.

1. In the standard launchpad configuration, select the **Tiles** icon and in the footer, click **Create Tile**.



2. On the next screen, select **App Launcher – Dynamic**.



3. In the **General** section, enter the required information. The following list provides some examples.
 - **Title:** *Process Director AP*
 - **Subtitle:** *Fiori App*
 - **Keywords:** [Optional]
 - **Icon:** Select an icon. (for example, *sap-icon://Fiori2/F0102*)
 - **Information:** [Optional]
 - **Number Unit:** *Documents*
4. In the **Dynamic Data** section, enter the required information. The following list provides some examples.
 - To procure the number of invoices, use the following **Service URL**:
`/sap/opu/odata/EBY/FRAP_WC/HeaderSet/$count`
 - **Refresh Interval in Seconds:** 30

This is the number of seconds after which the dynamic content is read again from the data source, and the display is refreshed.

Too small an interval will result in the database being read too often, while a large interval will make the dynamic tile similar to a static one.


Note: The launchpad uses a default of 10 seconds, unless you enter a higher value in this field. If the value entered is >0 and <10, it will fall back to 10 seconds. If the value entered is 0, the dynamic tile is updated only once (on loading). If the value is >= 10, this value is taken as the refresh interval.
5. In the **Navigation** section, enter the required information. The following list provides some examples.
 - **Use semantic object navigation:** Select the check box to use this option.
 - **Semantic Object:** *Fiori Application*
 - **Action:** *eby_frap_wc*

Note: This is a standard launchpad configuration option.
 - **Parameters:** [Optional]

The entries in the **Tile Actions** section are optional and not required to be filled in.
6. Click **Save**.

Create a group and add an existing tile to it


To create a new group and add a tile, complete the following steps.

1. In the standard launchpad configuration, under the **Groups** section, in the footer, click  to display the **Create Group** dialog box.
2. Type a title and ID for the new group and click **Save**.


The new group is created.

Note: The title and ID should follow the customer-specific naming convention.

Example: zcustomer_grp1

3. In the **Show as Tiles** section, click  to select the catalog that you created.
The selected catalog displays the dynamic tile that you created.
4. Click the plus icon below the title to add that tile to the group.





The plus icon changes into a tick  and the tile is successfully added to the group.

Authorizations and roles

For transactional applications, ABAP backend users with corresponding roles and authorizations are necessary. The roles provide authorizations for the OData service of the applications. The roles for the transactional applications do not comprise any authorization for the business data that needs to be displayed in the application. It is assumed that these authorizations will be provided by the customer.

For every role, authorizations must be granted according to the customer's roles and authorization concept. To assign the Process Director for use with SAP Fiori application to users, complete the following steps.

1. Go to the PFCG transaction.
2. Create a new role or select an existing one.
3. Click the **Menu** tab.
4. In the **Hierarchy** section, select the **Role Menu** folder and then from **Transaction**, select **SAP Fiori Tile Catalog**.
5. In the **Assign Tile Catalog** dialog box, select or type a catalog ID and click **Continue** .
6. Assign the [catalog ID](#) you created to the authorization role.
7. In the **Hierarchy** section, select the **Role Menu** folder again and then from **SAP Fiori Tile Catalog**, select **SAP Fiori Tile Group**.
8. In the **Assign Group** dialog box, select or type a group ID and click **Continue** .

9. Assign the [group ID](#) that you created to the authorization role.
10. Click **Save**.
11. Click the **User** tab.
12. Type the required user IDs and click **Save** to add the role to the users.

The authorized users can now access the required application.

Assign the Web Service to user roles

Depending on the existing authorization concepts, you may need to add the Web Service to the user roles. To assign the Web Service to a role, complete the following steps.

1. Go to the PFCG transaction.
2. Select the role that you need to modify.
3. Click the **Authorizations** tab.
4. Click **Change Authorization Data**.
5. In the **Object class AAB** list, select the **S_SERVICE** authorization object.
6. Click the edit icon next to the **SRV_NAME** node.
7. In the **Type** list, select **TADIR Service**.
8. In the **Object Type** list, select **IWSG**.
9. In the **Object Name** list, select **/EBY/FRAP_WC_0001**.
10. Save the changes.

Worklist

To use the Process Director for use with SAP Fiori applications, you must create a basic Worklist in Process Director for Incoming Invoices (for the Process Director for Accounts Payable application) and Requisitions (for the Process Director for Purchase Orders application).

The Process Director for use with SAP Fiori applications display data in the following tabs.

- The **Inbox** tab displays all the documents that are currently in workflow.
- The **History** tab displays all the documents that have already been processed.

Each Process Director for use with SAP Fiori application requires a top level Worklist node and two subnodes - one for documents to display in the **Inbox** tab, and one for documents to display in the **History** tab. You can create other subnodes as needed for the SAP GUI, but the Process Director for use with SAP Fiori applications access only the Workflow Inbox and Workflow History nodes.


If you do not already have a Worklist, complete the following procedures to create one. For detailed information on creating a Worklist, see the *Process Director Configuration Guide*.

Open the Worklist configuration

To open the Worklist configuration, go to transaction `/N/EBY/PDBO_WLC`.

Create the top level node

To create the top level node, complete the following steps.

1. In change mode, click the **Add Business Object node**  button.
2. In the **Change basic data** dialog box, enter the following settings.

Accounts Payable:

Setting	Entry
Object type	IV Incoming Invoice
Node description	Incoming Invoices (This is the display name for the node. You can use another name.)
Control	ICS_DOCS

Purchase Orders:



Setting	Entry
Object type	PO Requisition
Node description	Requisitions (This is the display name for the node. You can use another name.)
View name	/EBY/PDPO_VWRKL
Node type	ST Static
Ranges configuration	OBJ='PO'

3. To save, click **Continue** .

A new Worklist node is inserted.

Create the subnodes

To create each subnode under the top level node, complete the following steps.

1. Right-click the new **Incoming Invoices** or **Requisitions** node and click **Insert node as a subnode** .
2. In the **Change basic data** dialog box, enter the settings for the subnode.
3. Click **Continue**  to save.

Workflow Inbox for Accounts Payable

Setting	Entry
Object type	IV Incoming Invoice

Setting	Entry
Node description	Workflow Inbox (This is a suggestion; you can use another name.)
Control	WC_INBOX
Not visible in	SAP GUI

Workflow Inbox for Requisitions

Setting	Entry
Object type	PO Requisition
Node description	Workflow Inbox (This is a suggestion; you can use another name.)
View name	/EBY/PDPO_VWCWKL
Node type	SD Semi-dynamic
Control	WC_INBOX
Ranges configuration	<pre>((WC_PROC_TYPE = "[/EBY/CL_PDBO_WL_QRY_PD_USER_TY] AND WC_PROCESSOR = "[/EBY/CL_PDBO_WL_QRY_PD_USER]) OR (ANY_FIELD = " [/EBY/CL_PDBO_WL_QRY_PD_SUBST])) AND WC_PROC_STATE='X'</pre> <p>The /EBY/CL_PDBO_WL_QRY_PD_SUBST class includes documents sent to the user's substitutes in the Inbox.</p>

Workflow History for Accounts Payable

Setting	Entry
Object type	IV Incoming Invoice
Node description	Workflow History (This is a suggestion; you can use another name.)
Control	WC_HISTORY

Setting	Entry
Not visible in	SAP GUI

Workflow History for Requisitions

Setting	Entry
Object type	PO Requisition
Node description	Workflow History (This is a suggestion; you can use another name.)
View name	/EBY/PDPO_VWCWKL
Node type	SD Semi-dynamic
Control	WC_HISTORY
Ranges configuration	WC_PROC_ACTIVITY = 'APR' OR WC_PROC_ACTIVITY='RJC'

Generate the Worklist

You must generate the Worklist to make your changes available to users in the Process Director for Fiori applications.

To generate the Worklist, complete the following step.

- Click the **Generate**  button.

Messages confirming that the Worklist was successfully generated appear.

View model

Customer implementations often require that you make changes to the user interface. You can implement most of these changes in the view model.

The view model determines the data that is presented to the user and how it is presented. Only the data that is defined in the view model is available to the user in the user interface.

When any change is made in the standard view model configuration, the Fiori runtime configuration is updated once a day.

When any change is made in the customer view model configuration, the Fiori runtime configuration is updated instantly.

To force the Fiori runtime configuration update, you can run the `/EBY/FR_OMODEL_FORCE` transaction (`/EBY/FR_FORCE_OMODEL_UPDATE` program).

For more information on the view model, see to the *Process Director Configuration Guide*.

Enable image attachment upload

It is optional to activate the image upload functionality for the Accounts Payable for use with SAP Fiori application; and by default, it is deactivated.

To activate the upload functionality, configure the following settings in Process Director Accounts Payable.

- Set up the archiving configuration for Process Director Accounts Payable documents.
See the *Process Director Accounts Payable Configuration Guide* for more information about archiving.
- In the /COCKPIT/WI15 transaction, maintain the archive document types for attachment upload.
- In the workflow step configuration, select the **Doc. upload** check box.
See the *Work Cycle Configuration Guide* for more information.

Application service activation

This applies only to the one-system configuration or to the frontend system in the two-system configuration.

For the two-system configuration, the OData service exists in both the backend and frontend systems. The application service exists only in the frontend system.

You must verify if the application service is active. If it is not, you must activate it.

Activate the service element tree nodes

To activate the service element tree node, complete the following steps.

1. Run the `SICF` transaction.
2. In the **Service Name** field, enter `frap_wc` and click **Execute**.
3. Right-click the **frap_wc** tree nodes and select **Activate Service**.

Virtuelle Hosts / Services	Documentation
▼ default_host	VIRTUAL DEFAULT HOST
▼ sap	SAP NAMESPACE; SAP IS OBLIGED NOT TO DELI...
▼ bc	BASIS TREE (BASIS FUNCTIONS)
▼ bsp	BUSINESS SERVER PAGES (BSP) RUNTIME
▼ eby	namespace
• frap_wc	Fiori for Process Director Accounts Payable
▼ ui5_ui5	SAPUI5 Application Handler SAPUI5 Application call...
▼ eby	namespace
• frap_wc	Process Director AP Workcycle application
▼ opu	OData for SAP Products
▼ odata	Standard Mode
▼ eby	Namespace
• frap_wc	Backend service for PD AP approval application

4. Run the `SICF` transaction again.
5. In the **Service Name** field, enter `fr_lib` and click the **Execute** button.
6. Now, right-click the **fr_lib** tree nodes and select **Activate Service**.

Virtuelle Hosts / Services	Documentation
▼ default_host	VIRTUAL DEFAULT HOST
▼ sap	SAP NAMESPACE; SAP IS OBLIGED NOT TO DELI...
▼ bc	BASIS TREE (BASIS FUNCTIONS)
▼ bsp	BUSINESS SERVER PAGES (BSP) RUNTIME
▼ eby	namespace
▼ * fr_lib	Kofax UI5 Frontend Library
▼ ui5_ui5	SAPUI5 Application Handler SAPUI5 Application call...
▼ eby	namespace
▼ * fr_lib	Kofax UI5 Frontend Library

Note: Both **frap_wc** and **fr_lib** need to be activated, regardless of the sequence you follow.

If the customer's SAP runtime environment is set up correctly, you can now start the application.

7. Right-click any **fr_lib** entry and select **Test Service**.
8. Activate it.

Troubleshooting

This section aims at troubleshooting issues that may occur while configuring the Process Director Accounts Payable for use with SAP Fiori application, which uses the /EBY/FRAP_WC service. For other applications, the names should be correspondingly modified.

Basic system settings

Parameter: login/create_sso2_ticket

To get rid of the error message encountered in the gateway client on trying to run the oData service, modify the *login/create_sso2_ticket* system parameter.

Selection of default profile for virus scan

1. Based on the assumption that there are no other requirements for the default profile for the virus scan, run the SM30 transaction for the / IWFND / C_CONFIG table.

Edit Table Views: Initial Screen

Find Maintenance Dialog

Table/View:

Restrict Data Range

☒ No Restrictions

☐ Enter conditions

☐ Variant

2. Modify the value for the GATEWAY_VIRUSCAN_PROFILE parameter to -.
If this parameter does not exist, add it first in the / IWFND / C_COF_PAR table.

Change View "Configuration for SAP NetWeaver Gateway": Overview

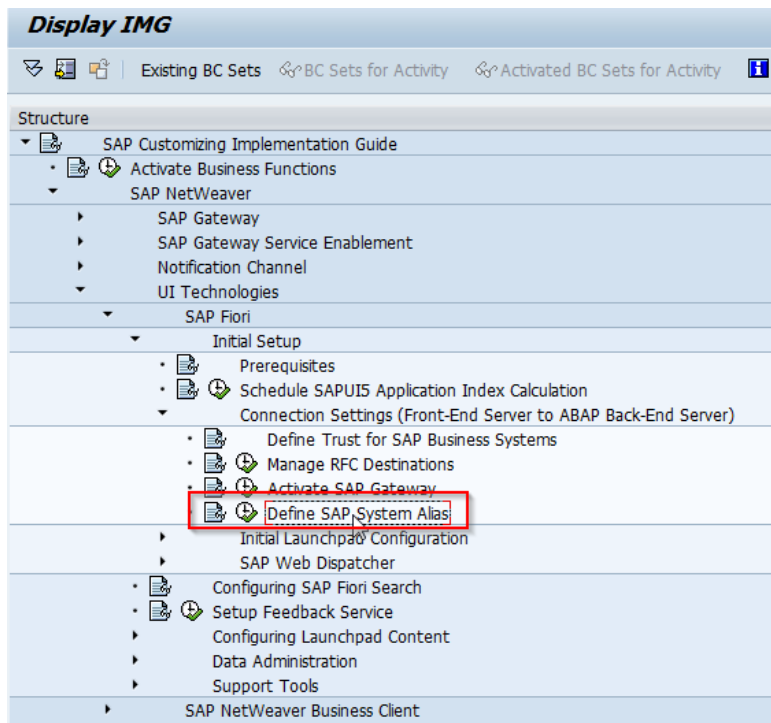
New Entries

Configuration for SAP NetWeaver Gateway

Name	Configuration Value
GATEWAY_VIRUSCAN_PROFILE	
MED_CACHE_ENABLED	X
SA_MED_CACHE_ENABLED	-

System alias

In the IMG, go to **Define SAP System Alias**.



One-system configuration (backend and frontend in one system)

Create the **LOCAL** system alias.

Change View "Manage SAP System Aliases": Overview

SAP System Alias	Description	Local SAP ...	For Local App	RFC Destination	Software Version	System ID	Client	WS Provider System
IWF UNIT TEST 1	Unit Test System Alias - Do not modify	<input type="checkbox"/>	<input type="checkbox"/>	U3D_000	DEFAULT			PS U3D_000
LOCAL	Local System Alias	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	NONE	DEFAULT			

Two-system configuration (backend and frontend in separate systems)

In this scenario, the alias works as a proxy to the remote system.

1. The user needs to have authorization for the S_RFCACL object, in both the systems.

Object class AAAB	Manually	Cross-application Authorization Objects
Authorization Object S_RFCACL	Manually	Authorization Check for RFC User (e.g. Trusted Sys...
Authorizat. T-G103000100	Manually	Berechtigungsprüfung für RFC-Benutzer (z.B. T...
RFC_SYSID	Manually	System ID (for SAP and External systems)
RFC_CLIENT	Manually	RFC client or domain
RFC_USER	Manually	RFC User (SAP or External)
RFC_EQUER	Manually	RFC same user ID
RFC_TCODE	Manually	RFC transaction code
RFC_INFO	Manually	RFC information
ACTVT	Manually	Activity

2. Create a trusted RFC connection.

The screenshot shows the 'ABAP Connection' configuration window. At the top, 'RFC Destination' is set to 'SAPGW1_TST_TRUSTED' and 'Connection Type' is '3 ABAP Connection'. Below this is a 'Description' section with three empty text boxes labeled 'Description 1', 'Description 2', and 'Description 3'. A tabbed interface at the bottom includes 'Administration', 'Technical Settings', 'Logon & Security', 'Unicode', and 'Special Options'. The 'Technical Settings' tab is active, showing 'Target System Settings'. Under 'Load Balancing Status', 'Load Balancing' is set to 'No'. 'Target Host' is 'saptst.ebydos.local' and 'Instance No.' is '00'. 'Save to Database as' is set to 'Host' with the value 'saptst.ebydos.local'. The 'Gateway Options' section at the bottom has empty fields for 'Gateway Host' and 'Gateway service', and a 'Delete' button.

In the **Logon and Security** tab, make sure to leave the **Language** field blank.

The screenshot shows the 'Logon & Security' tab in the configuration window. The 'Logon Procedure' section has 'Language' blank, 'Client' set to '100', 'User' blank, 'PW Status' set to 'is initial', and a checked 'Current User' checkbox. The 'Trust Relationship' section has 'Yes' selected. The 'Status of Secure Protocol' section has 'SNC' selected and 'Inactive' selected. The 'Authorization for Destination' field is blank. The 'Callback Positive List' section has 'Positive List Actv' unchecked and a list of icons. Below the icons, the text 'Called Function Module; Callback Function Module' is visible.

3. Create the alias.

In the **System ID** field, provide the SAP system name for the backend system.

Change View "Manage SAP System Aliases": Overview

New Entries

SAP System Alias	Description	Local GW	For Local App	Use Micro Hub	RFC Destination	Software Version	System ID	Client	WS Provider System
BWH	BW on HANA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SAPGW1_BWH_TRUSTED	DEFAULT	BWH	100	
D67		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SAPGW1_D67_TRUSTED	DEFAULT	D67	001	
H74		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SAPGW1_H74_TRUSTED	DEFAULT	H74	100	
IWF_UNI1_TEST1_1	Unit Test System Alias - Do not modify	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	U3D_000	DEFAULT			PS_U3D_000
LOCAL	Local System Alias	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NONE	DEFAULT	GW1	100	
PD2		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SAPGW1_PD2_TRUSTED	DEFAULT	PD2	100	
S75	S/4HANA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SAPGW1_S75_TRUSTED	DEFAULT	S75	100	
TST	Platform QA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SAPGW1_TST_TRUSTED	DEFAULT	TST	100	

OData service configuration

1. In the IMG, go to **Service Maintenance of SAP Gateway**.

Display IMG

Existing BC Sets | BC Sets for Activity | Activated BC Sets for Activity | Release

Structure
SAP Customizing Implementation Guide
Activate Business Functions
SAP NetWeaver
SAP Gateway
SAP Gateway Service Enablement
UI Technologies
SAP Fiori
Initial Setup
Prerequisites
Schedule SAPUI5 Application Index Calculation
Connection Settings (Front-End Server to ABAP Back-End Server)
Initial Launchpad Configuration
Service Maintenance of SAP Gateway
Maintain Logon Group
Service Maintenance of Internet Communication Framework (ICF)
Assign Launchpad Authorizations to Users
SAP Web Dispatcher
Configuring SAP Fiori Search

2. Verify if the `/EBY/FRAP_WC` service has already been preset.

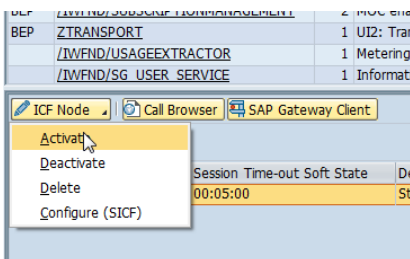
- If it has a green status and in the **ICF Nodes** section, the **Session Time-out Soft State** value equals **00:05:00**, and also the system alias has been defined, the service is configured correctly.

Status	ICF Node	Session Time-out Soft State	Description
Green	DATA	00:05:00	Standard Mode

SAP System Alias	Description	Default	Metadata	User Role
LOCAL	Local System Alias	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Note: This timeout defines the time for which a document remains locked in the application. For a longer session lock period, consider modifying this parameter.

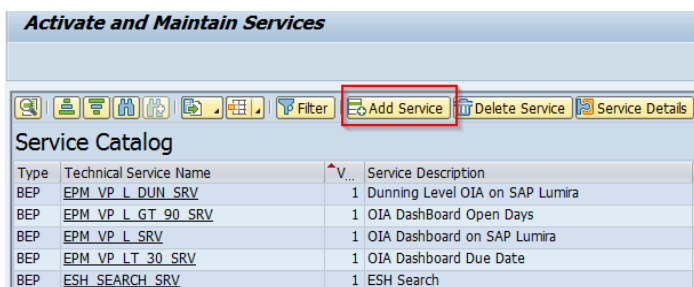
- If the **ICF Node** status is yellow, the only thing you need to do is activate it.



- If the service does not exist, proceed to the next step of [creating the service](#); or if it exists, but the status in the **ICF Nodes** section is blank or the **Session Time-out Soft State** value equals **00:00:00**, remove the alias and ICF Node first to remove the service.

Create the service

1. Click **Add Service**.



2. In the **Filter** section, populate the values, with `/EBY/FRAP_WC` as the **Technical Service Name** and `FRAP_WC` as the **External Service Name**.

Add Selected Services

Get Services

Filter

System Alias	TST		
Technical Service Name	/EBY/FRAP_WC	Version	1
External Service Name	FRAP_WC	External Mapping ID	

Icons: Search, Filter, Sort, Add Selected Services

Select Backend Services

Type	Technical Service Name	Ver...	Service Description	External Service Name
------	------------------------	--------	---------------------	-----------------------

- Press **Enter**. In the **Select Backend Services** section, select the line and click **Add Selected Services**.

Add Selected Services

Get Services

Filter

System Alias	TST		
Technical Service Name	/EBY/FRAP_WC	Version	1
External Service Name	FRAP_WC	External Mapping ID	

Icons: Search, Filter, Sort, Add Selected Services

Select Backend Services

Type	Technical Service Name	V	Service Description	External Service Name	Namespace	Ext...
BEP	/EBY/FRAP_WC	1	PD AP WORK CYCLE for Fiori	FRAP_WC	/EBY/	

- Correct the names suggested by the system (starting with Z*), to names starting with /EBY/*.
- Provide the **Package Assignment** as /EBY/FRAP.

GW2(1)/100 Add Service

Service

Technical Service Name: /EBY/FRAP_WC

Service Version: 1

Description: PD AP WORK CYCLE for Fiori

External Service Name: FRAP_WC

Namespace: /EBY/

External Mapping ID:

External Data Source Type: C

Model

Technical Model Name: /EBY/FRAP_WC_MDL

Model Version: 1

Creation Information

Package Assignment: /EBY/FRAP

Local Object

ICF Node

☒ Standard Mode ☐ None

☒ Set Current Client as Default Client in ICF Node

OAuth enablement

☐ Enable OAuth for Service

- Go back to the service list.

Assign the alias

- Click **Add System Alias**.

Activate and Maintain Services

Service Catalog

Type	Technical Service Name	V...	Service Description	External Service Name	Nsp.	OAu...	Soft State	Processi...
BEP	ZFIN_USER_DEFAULTPARAMETER	1	User Default Parameter	FIN_USER_DEFAULTPARAMETER		<input type="checkbox"/>	Not Supported	Routing-
BEP	/EBY/FRAP_WC	1	PD AP WORK CYCLE for Fiori	FRAP_WC	/EBY/	<input type="checkbox"/>	Active	Routing-
BEP	/EBY/FRPD_PO	1	PROCESS DIRECTOR: Fiori (FR) for Requisitions	FRPD_PO	/EBY/	<input type="checkbox"/>	Active	Routing-

ICF Nodes

Status	ICF Node	Session Time-out	Soft State	Description
	ODATA	00:05:00		Standard Mode

System Aliases

SAP System Alias	Description	Default	Metadata	User Role	Host Name

- Use the search help to select the `/EBY/FRAP_WC_0001` service.

New Entries: Overview of Added Entries

Assign SAP System Aliases to OData Service

Service Doc. Identifier	User Role	Host Name	SAP System Alias	Default System	Metadata Default
/EBY/FRAP_WC_0001				<input type="checkbox"/>	<input type="checkbox"/>

Service Document Identifier (1) 76 Entries found

Restrictions

Service Document Identifier	Mdl. Act.	Service Description
/EBY/FRAP_WC_0001	A	PD AP WORK CYCLE for Fiori
/EBY/FRPD_PO_0001	A	PROCESS DIRECTOR: Fiori (FR) for Requisitions
/IWFND/GWDEMO_SP2_0001	A	ZCL_ZTEST_GWDEMO_DPC_EXT
/IWFND/SG_MED_CATALOG_0001	A	Catalog Service
/IWFND/SG_MED_CATALOG_0002	A	Catalog Service Version 2

- Assign the **LOCAL** or remote system alias, depending on if you have one- or two-system configuration.

New Entries: Overview of Added Entries

Assign SAP System Aliases to OData Service

Service Doc. Identifier	User Role	Host Name	SAP System Alias	Default System	Metadata Default	Tech.
/EBY/FRAP_WC_0001				<input type="checkbox"/>	<input type="checkbox"/>	

SAP System Alias (1) 11 Entries found

Restrictions

SAP System Alias	Description
BACK_PGW	For workflow &inbox
BSH	Business Suite on HANA
D67	
DEV	
FQA	
IWF UNIT TEST 1	Unit Test System Alias - Do not modify
LOCAL	Local System Alias
LSR	
S75	
S76	S/4 HANA
TST	

Note: **TST** is an example of an additional remote system. Depending on the requirements of your system landscape, you can use any suitable name for the remote system alias.

Change View "Assign SAP System Aliases to OData Service": Overview

New Entries

Assign SAP System Aliases to OData Service

Service Doc. Identifier	User Role	Host Name	SAP System Alias	Default System	Metadata Default	Tech. Svc. Name	Ext. Service Name
/EBY/FRAP_WC_0001			LOCAL	<input checked="" type="checkbox"/>	<input type="checkbox"/>	/EBY/FRAP_WC	FRAP_WC

Change View "Assign SAP System Aliases to OData Service": Overview

New Entries

Assign SAP System Aliases to OData Service

Service Doc. Identifier	User Role	Host Name	SAP System Alias	Default System	Metadata Default	Tech. Svc. Name	Ext. Service Name
/EBY/FRAP_WC_0001			TST	<input type="checkbox"/>	<input type="checkbox"/>	/EBY/FRAP_WC	FRAP_WC

- Go back to the service list.

Activate and Maintain Services

Service Catalog

Type	Technical Service Name	Service Description	External Service Name	Namespace	OAut...	Soft State	Status	Is SAP Serv
BEP	/EBY/FRAP_WC	1 PD AP WORK CYCLE for Fiori	FRAP_WC	/EBY/	<input type="checkbox"/>	Active		
BEP	/EBY/FRPD_PO	1 PROCESS DIRECTOR: Fiori (FR) for Requisitions	FRPD_PO	/EBY/	<input type="checkbox"/>	Active		
BEP	/IWFND/GWDEMO_SP2	1 ZCL_ZTEST_GWDEMO_DPC_EXT	GWDEMO_SP2	/IWBEP/	<input type="checkbox"/>			
BEP	ILM_ARCH_VARIANT_DIST_SERVICE	1 Service for archiving distribution app	ILM_ARCH_VARIANT_DIST_SERVICE		<input checked="" type="checkbox"/>			
BEP	ILM_JOB_MONITOR_SERVICE	1 ILM Job Monitor Service	ILM_JOB_MONITOR_SERVICE		<input type="checkbox"/>			
BEP	ZINTEROP	1 Gateway Service of Interoperability	INTEROP	/UI2/	<input type="checkbox"/>	Not Supported		
BEP	IRWC	1 ILM Reporting Work Center	IRWC		<input checked="" type="checkbox"/>			
BEP	ZLAUNCHPAD	1 Launchpad Data Provider	LAUNCHPAD	/UI2/	<input type="checkbox"/>			
BEP	LORD_MY_QUOTATION	1 My Quotation Odata Service	LORD_MY_QUOTATION		<input checked="" type="checkbox"/>			
BEP	LORD_ODATA_ORDER	1 Odata Service for Sales Order	LORD_ODATA_ORDER		<input checked="" type="checkbox"/>			

ICF Nodes

Status	ICF Node	Session Time-out	Soft State	Description
<input checked="" type="checkbox"/>	ODATA	00:05:00		Standard Mode

System Aliases

SAP System Alias	Description	Default	Metadata	User Role
LOCAL	Local System Alias	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Activate and Maintain Services

Service Catalog

Type	Technical Service Name	Service Description	External Service Name	Nsp.	OAut...	Soft State	Processing Mode
BEP	ZFI_CORRESPONDENCE	1 Finance Correspondence	FI_CORRESPONDENCE		<input type="checkbox"/>	Not Supported	Routing-based
BEP	ZFIORI_CATALOGS	1 Fiori Catalogs	FIORI_CATALOGS	/UI2/	<input type="checkbox"/>	Not Supported	Routing-based
BEP	/EBY/FRAP_WC	1 PD AP WORK CYCLE for Fiori	FRAP_WC	/EBY/	<input type="checkbox"/>	Inactive	Routing-based
BEP	/EBY/FRPD_PO	1 PROCESS DIRECTOR: Fiori (FR) for Requisitions	FRPD_PO	/EBY/	<input type="checkbox"/>	Active	Routing-based
BEP	ZFT_CONFIG_UI	1 Fiori Technology Config UI	FT_CONFIG_UI	/UI2/	<input type="checkbox"/>	Not Supported	Routing-based
BEP	/IWFND/GWDEMO_SP2	1 ZCL_ZTEST_GWDEMO_DPC_EXT	GWDEMO_SP2	/IWBEP/	<input type="checkbox"/>		Routing-based
BEP	ZINTEROP	1 Gateway Service of Interoperability	INTEROP	/UI2/	<input type="checkbox"/>	Not Supported	Routing-based
BEP	ZLAUNCHPAD	1 Launchpad Data Provider	LAUNCHPAD	/UI2/	<input type="checkbox"/>	Not Supported	Routing-based

ICF Nodes

Status	ICF Node	Session Time-out	Soft State	Description
<input checked="" type="checkbox"/>	ODATA	00:00:00		Standard Mode

System Aliases

SAP System Alias	Description	Default	Metadata	User Role
TST		<input type="checkbox"/>	<input type="checkbox"/>	

ICF Node

The Process Director Accounts Payable for use with SAP Fiori(r) application uses two ICF Nodes:

- Odata
- Application services.

The OData service should either already exist and have been activated, or should be created (recreated) for the newly added `/EBY/FRAP_WC` service.

Activate and Maintain Services

Service Catalog

Type	Technical Service Name	V...	Service Description	External Service Name	Nsp.	OAut...	Soft State	Processing Mode
BEP	/EBY/FRAP_WC	1	PD AP WORK CYCLE for Fiori	FRAP_WC	/EBY/	<input type="checkbox"/>	Active	Routing-based
BEP	/EBY/FRPD_PO	1	PROCESS DIRECTOR: Fiori (FR) for Requisitions	FRPD_PO	/EBY/	<input type="checkbox"/>	Active	Routing-based

ICF Node

System Aliases

SAP System Alias	Description	Default	Metadata	User Role	Host Name
TST	Plattform QA	<input checked="" type="checkbox"/>	<input type="checkbox"/>		

If this ICF Node has a yellow status, the service should only be activated:

Filter Details

Virtual Host: Service Path:

ServiceName:

Description:

Lang.: Ref.Service:

Apply Reset Fine-Tune

Virtual Hosts / Services

- default_host
 - sap
 - bc
 - u5_u5
 - eby
 - frap_w
- opu
 - odata
 - eby
 - frap_w

Documentation

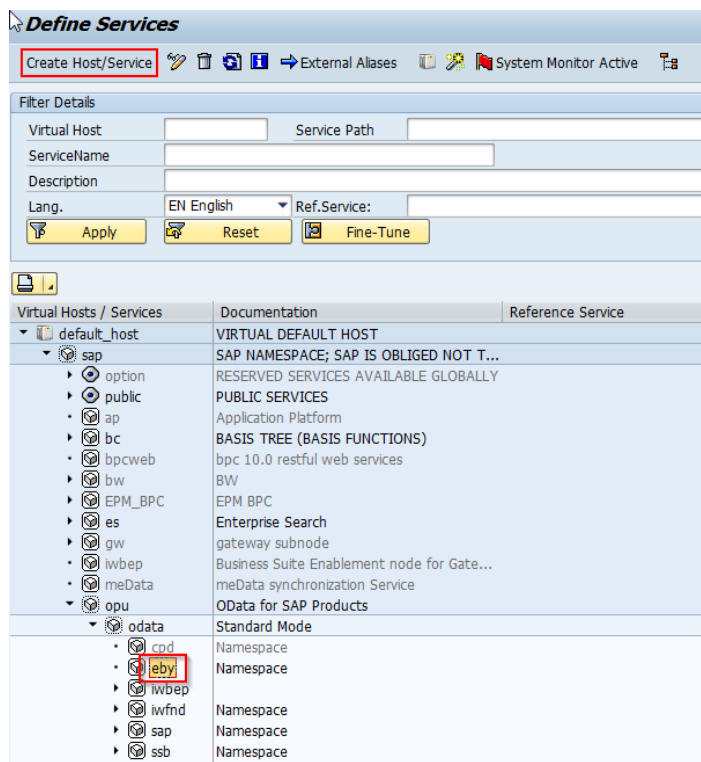
- VIRTUAL DEFAULT HOST
- SAP NAMESPACE; SAP IS OBLIGED NOT BASIS TREE (BASIS FUNCTIONS)
- SAPUI5 Application Handler SAPUI5 Appl namespace

frap_w

- New Sub-Element
- Display Service
- Delete Service
- Rename Service
- Activate Service
- Deactivate Service
- Test Service

If this ICF Node has a blank status or the **Session Time-out Soft State** value is set to **00:00:00**, the node needs to be created, or deleted and recreated.

1. Run the `SICF` transaction, click the **Execute** button, and then go to the following path.



2. Select the **leby** position and click **Create Host/Service**.
3. Confirm the popup and in the **Name of Service Element to Be Created** field, enter **frap_wc**.
4. Click **OK**.

5. Provide a description and in the **Session Timeout** field, enter the required time interval (for example, 00:05:00).

Create/Change a Service

Path: /default_host/sap/opu/odata/eby

Service Name: frap_wc ☒ Service (Inactive)

Lang.: EN English (undefined) [Other Languages](#)

Description

Description 1	frap_wc
Description 2	
Description 3	

Service Data | Logon Data | Handler List | Error Pages | Administration

Service Options

☐ Web Service

☐ Ignore inherited settings

Load Balancing:

SAP Authoriz.:

Session Timeout: 00:05:00 (HH:MM:SS)

Compression: Not specified

Interactive Options

GUI Interface: Not specified [GUI Configuration](#)

Support Accessibility: Not specified

6. Switch to the **Handler List** tab.

7. Add **/IWFND/CL_SODATA_HTTP_HANDLER** to the **Handler List**.

Create/Change a Service

Path: /default_host/sap/opu/odata/eby

Service Name: Service (Inactive)

Lang.: (undefined) [Other Languages](#)

Description

Description 1:

Description 2:

Description 3:








Service Data Logon Data **Handler List** Error Pages Administration

Handler List (in Order of Execution)

N..	Handler
1	/IWFND/CL_SODATA_HTTP_HANDLER
2	
3	
4	
5	
6	
7	

8. Go back to the service list and activate the service.

Define Services

Create Host/Service     External Aliases   System Monitor Active 




Filter Details


Virtual Host: Service Path:

ServiceName:

Description:

Lang.: Ref.Service:

 Apply  Reset  Fine-Tune



Virtual Hosts / Services	Documentation	Rel
▼ default_host	VIRTUAL DEFAULT HOST	
▼ sap	SAP NAMESPACE; SAP IS OBLIGED NOT T...	
▶ option	RESERVED SERVICES AVAILABLE GLOBALLY	
▶ public	PUBLIC SERVICES	
▶ ap	Application Platform	
▶ bc	BASIS TREE (BASIS FUNCTIONS)	
▶ bpcweb	bpc 10.0 restful web services	
▶ bw	BW	
▶ EPM_BPC	EPM BPC	
▶ es	Enterprise Search	
▶ gw	gateway subnode	
▶ iwbsp	Business Suite Enablement node for Gate...	
▶ meData	meData synchronization Service	
▼ opu	OData for SAP Products	
▼ odata	Standard Mode	
▶ cpd	Namespace	
▼ eby	Namespace	
▶ ifrap_w...	frap_wc_srv	
▶ iwbsp	Namespace	
▶ iwfn	Namespace	
▶ sap	Namespace	
▶ ssb	Namespace	
▶ ui2	Namespace	
▶ odata4	Gateway OData V4	
▶ utils	by services	
▶ transfer	Proxy Transfer Service, supports Fref...	
▶ xi	ange Infrastructure (XI)	

Context menu for 'ifrap_w...' service:

- New Sub-Element
- Display Service
- Delete Service
- Rename Service
- Activate Service**
- Deactivate Service
- Test Service

Activate the soft state in the services list

Verify if the soft state of the `/EBY/FRAP_WC` service is active. If not, click **Soft State** to activate it.

Activate and Maintain Services									
Service Catalog									
Type	Technical Service Name	Service Description	External Service Name	Nsp.	OAut.	Soft State	Processing Mode		
BEP	ADT	1 Gateway service for ADT	ADT_SRV		<input checked="" type="checkbox"/>	Not Supported	Routing-based		
BEP	CA_DATA_MODEL_SRV	1 Odata service for data model	CA_DATA_MODEL_SRV		<input type="checkbox"/>	Not Supported	Routing-based		
BEP	CA_INFORMATION_SRV	1 Information Management	CA_INFORMATION_SRV		<input type="checkbox"/>	Not Supported	Routing-based		
	/IWFND/SG_MED_CATALOG	1 Catalog Service	CATALOGSERVICE	/IWFND/	<input checked="" type="checkbox"/>	Not Supported	Routing-based		
	/IWFND/SG_MED_CATALOG	2 Catalog Service Version 2	CATALOGSERVICE	/IWFND/	<input checked="" type="checkbox"/>	Not Supported	Routing-based		
BEP	DAAG_DTG_SRV	1 Odata for DTG app	DAAG_DTG_SRV		<input type="checkbox"/>	Not Supported	Routing-based		
BEP	EPM_OIA_L_1_SRV_01	1 OIA Service	EPM_OIA_L_1_SRV_01		<input checked="" type="checkbox"/>		Routing-based		
BEP	EPM_OIA_L_SRV	1 OIA using SAP Lumira	EPM_OIA_L_SRV		<input checked="" type="checkbox"/>		Routing-based		
BEP	EPM_VP_L_BT_30_60_SRV	1 OIA Dashboard Open Days	EPM_VP_L_BT_30_60_SRV		<input checked="" type="checkbox"/>		Routing-based		
BEP	EPM_VP_L_BT_60_90_SRV	1 OIA Dashboard Open Days	EPM_VP_L_BT_60_90_SRV		<input checked="" type="checkbox"/>		Routing-based		
BEP	EPM_VP_L_DUN_SRV	1 Dunning Level OIA on SAP Lumira	EPM_VP_L_DUN_SRV		<input checked="" type="checkbox"/>		Routing-based		
BEP	EPM_VP_L_GT_90_SRV	1 OIA Dashboard Open Days	EPM_VP_L_GT_90_SRV		<input checked="" type="checkbox"/>		Routing-based		
BEP	EPM_VP_L_SRV	1 OIA Dashboard on SAP Lumira	EPM_VP_L_SRV		<input checked="" type="checkbox"/>		Routing-based		
BEP	EPM_VP_LT_30_SRV	1 OIA Dashboard Due Date	EPM_VP_LT_30_SRV		<input checked="" type="checkbox"/>	Not Supported	Routing-based		
BEP	/EBY/FRAP_WC	1 PD AP WORK CYCLE for Fiori	FRAP_WC	/EBY/	<input type="checkbox"/>	Inactive	Routing-based		
BEP	/EBY/FRPD_PO	1 PROCESS DIRECTOR: Fiori (FR) for Requisitions	FRPD_PO	/EBY/	<input type="checkbox"/>	Active	Routing-based		
BEP	ZFT_CONFIG_UI_SRV	1 Fiori Technology Config UI	FT_CONFIG_UI_SRV	/UI2/	<input type="checkbox"/>		Routing-based		
BEP	/IWFND/GW/DEMO_SP2	1 ZCL_ZTEST_GW/DEMO_DPC_EXT	GWDEMO_SP2	/IWBEP/	<input type="checkbox"/>		Routing-based		

SAP Internet Communication Framework

The SICF (SAP Internet Communication Framework) standard transaction code is used to maintain the services for HTTP communication in the SAP system, using the Internet Communication Manager (ICM) and the Internet Communication Framework (ICF).

Deactivate the parallelization of batch requests

If the parallelization of batch requests is active, soft state does not work. It can be activated globally, and deactivated for each service.

To deactivate it for a service, complete the following steps.

1. In the service maintenance (/IWFND/MAINT_SERVICE) transaction, click **Service Implementation**.

Activate and Maintain Services

Service Catalog

Type	Technical Service Name	Service Description	External Service Name	Nsp.	OAUT.	Soft State	Processing Mode
BEP	ZFI_CORRESPONDENCE_SRV	1 Finance Correspondence	FI_CORRESPONDENCE_SRV		<input type="checkbox"/>	Not Supported	Routing-based
BEP	ZFIORI_CATALOGS	1 Fiori Catalogs	FIORI_CATALOGS	/UI2/	<input type="checkbox"/>	Not Supported	Routing-based
BEP	/EBY/FRAP_WC	1 PD AP WORK CYCLE for Fiori	FRAP_WC	/EBY/	<input type="checkbox"/>	Inactive	Routing-based
BEP	/EBY/FRPD_PO	1 PROCESS DIRECTOR: Fiori (FR) for Requisitions	FRPD_PO	/EBY/	<input type="checkbox"/>	Active	Routing-based
BEP	ZFT_CONFIG_UI_SRV	1 Fiori Technology Config UI	FT_CONFIG_UI_SRV	/UI2/	<input type="checkbox"/>	Not Supported	Routing-based
BEP	/IWFND/GWDEMO_SP2	1 ZCL_ZTEST_GWDEMO_DPC_EXT	GWDEMO_SP2	/IWBEP/	<input type="checkbox"/>		Routing-based
BEP	ZINTEROP	1 Gateway Service of Interoperability	INTEROP	/UI2/	<input type="checkbox"/>	Not Supported	Routing-based
BEP	ZLAUNCHPAD	1 Launchpad Data Provider	LAUNCHPAD	/UI2/	<input type="checkbox"/>	Not Supported	Routing-based

ICF Nodes

Status	ICF Node	Session Time-out	Soft State	Description
	ODATA	00:00:00		Standard Mode

System Aliases

SAP System Alias	Description	Default	Metadata	User Role
TST		<input type="checkbox"/>	<input type="checkbox"/>	

Buttons: ICF Node, Call Browser, SAP Gateway Client, Add System Alias, Remove System Alias, Customizing, **Service Implementation**

2. Click **Configuration**.

Display Service

Cleanup Cache **Configuration**

Service Information

Technical Service Name	/EBY/FRAP_WC
Service Version	1
Description	PD AP WORK CYCLE for Fiori
External Service Name	FRAP_WC
Namespace	/EBY/
Data Provider Class	/EBY/CL_FRAP_WC_DPC_EXT
Created By	SKOLIMOWSKI
Changed By	
Package	/EBY/FRAP_ODATA

3. Deselect the **Deactivate Parallelization of Batch Requests** check box.

Change Configuration

Service Information

Technical Service Name	/EBY/FRAP_WC
Service Version	1

Service Settings

<input type="checkbox"/> Deactivate Soft-State based Query Result Cache
<input checked="" type="checkbox"/> Deactivate Parallelization of Batch Requests

Parallelization of batch requests not possible if the service has been activated for soft-state

SAP Gateway troubleshooting

In case of errors, it is still viable to use the `ST22` transaction to check for them. However, this does not cover web-specific errors. Web-specific errors are logged in the `/IWFND/ERROR_LOG` (SAP Gateway Error Log) transaction.

View model troubleshooting

Although the first **Environment** field in the configuration of the view model settings is not mandatory and the system environment should be automatically used, if an error is encountered, ensure that this field is filled in.

For more information about view model configuration, refer to the *Kofax Process Director Configuration Guide*.