



# **Configuration Guide for SAP Fiori Appliance**

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## Typographic Conventions

Type Style	Description
<i>Example Text</i>	Words or characters quoted from the screen. These include field names, screen titles, pushbuttons labels, menu names, menu paths, and menu options. Cross-references to other documentation
<b>Example text</b>	Emphasized words or phrases in body text, graphic titles, and table titles
Example text	File and directory names and their paths, messages, names of variables and parameters, source text, and names of installation, upgrade and database tools.
<b>Example text</b>	User entry texts. These are words or characters that you enter in the system exactly as they appear in the documentation.
<Example text>	Variable user entry. Angle brackets indicate that you replace these words and characters with appropriate entries to make entries in the system.
EXAMPLE TEXT	Keys on the keyboard, for example, F2 or ENTER.

## Icons

Icon	Description
	Caution
	Important
	Note
	Recommendation or Tip
	Example

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## Overview

This guide provides the information you need to know and execute the last steps for configuration of the cloud environment and start the business process evaluation in your own Demo/Evaluation Appliances landscape consisting of an SAP Gateway and an SAP ERP system,

This document does not provide a general overview and explanation of SAP Best Practices. For more information about the Best Practices concepts, see the related documentation on <http://service.sap.com/solutionpackages> and follow the links to the *Learning Maps*.

This document is intended for the following project roles, which already have a sound knowledge of SAP Best Practices, including tools and documentation:

- **System administrators and basis consultants**, responsible for system set up and preparation including troubleshooting.

## 1 Solution Information

This sandbox system landscape can be used to evaluate SAP Fiori with six applications based on SAP Best Practices Baseline pre-configuration. The landscape consists of two systems as described below.

### 1.1 SAP Gateway Appliance

- Is based on service package 6 for SAP Gateway 2.0

### 1.2 SAP ERP Appliance

- Is based on Enhancement Package 6 for SAP ERP 6.0

The ERP 6.0 sandbox system in this landscape is mainly meant to be used to evaluate SAP Fiori applications based on SAP Best Practices Baseline package US version 1.606 pre-configuration.



More detail information

refer to [SAP Mobile Apps and Infrastructure rapid-deployment solution – Fiori Edition](#).

## 2 Configuration Information for SAP Gateway Appliance in the Fiori application landscape

### 2.1 Connecting to your Gateway instance

#### Procedure

1. Run the following activity to access the SAP GUI to complete the system configuration:

<b>Application</b>	Start SAP GUI Logon <i>application</i>
--------------------	--

2. Choose the Create a new entry action.
3. Select the *User Specified System* option.
4. On the *System Connection Parameter* screen, make the following entries.

Parameter ID	Parameter Value	Note
Connection Type	Custom application server	
Description	<your description>	Create a description for the new system entry to be shown in your SAP Logon overview.
Application Server	<IP Address of your instance>	You find the IP address of your instance in the instance details screen.
Instance Number	00	Default value for SAP Cloud Appliance Library images
System ID	GW1	

5. Save this new entry in the SAP Logon entries for future logon.



Now you can connect to the solution instance.

6. Continue with the specific activities described in Chapter 2.2 in this document. Log on via the administrative user listed in Chapter 2.3.1 to perform the specific activities.

## 2.2 Specific Activities in Gateway System

### 2.2.1 Transaction SICK

#### Purpose

Check the health of the system.

**Executed Already: Yes**

**To Be Executed (again): Yes**

#### Actions

Run transaction SICK.

#### Expected Result

SAP System Check: “no errors reported”

### 2.2.2 Transaction DB59

#### Purpose

Set the correct MaxDB passwords for the application server.

**Executed Already: No**

**To Be Executed (again): Yes**

#### Actions

1. Call transaction DB59.
2. Click the *Integration Data* button.



3. Set the password to the master password that was specified when the solution instance was created.
4. Go back to the previous screen.
5. Perform a connection test.
6. On the next screen, mark the server line and click the *Check Selected Servers* button.

### **Expected Result**

The application server should have established a database connection.

All check results should be successful (green status). In case of a warning or error (red status), ensure that you have selected the right system and the correct master password.

## **2.2.3 Transaction DB50N**

### **Purpose**

Monitor the availability of the database.

**Executed Already: No**

**To Be Executed (again): Yes**

### **Actions**

1. Call transaction DB50N.
2. Select your SID for *Name of Database Connection*.
3. Choose *Execute* (F8) and select *No* on the pop-up screen.

### **Expected Result**

Successful result – your database is shown.

## **2.2.4 Transaction SE06**

### **Purpose**

Post- installation actions for Transport Organizer.

**Executed Already: Yes**

**To Be Executed (again): No**

### **Actions**

None, because this transaction has been executed.

## **2.2.5 Transaction SECSTORE**

### **Purpose**

Administration of Secure Storage.

**Executed Already: Yes**

**To Be Executed (again): No**

### **Actions**

None, because this transaction has been executed.

## **2.2.6 Transaction STMS**

### **Purpose**

Configure Transport Organizer.

**Executed Already: Yes**

**To Be Executed (again): No**

### **Actions**

None, because this transaction has been executed.

## **2.2.7 Transaction RZ10**

### **Purpose**

Import profile parameters.

**Executed Already: Yes**

**To Be Executed (again): No**

### **Actions**

None, because this transaction has been executed.

## **2.2.8 Transaction SMLG**

### **Purpose**

Change Logon Group.

**Executed Already: Yes**

**To Be Executed (again): No**

### **Actions**

None, because this transaction has been executed.

## **2.2.9 Transaction RZ12**

### **Purpose**

Change Logon Group.

**Executed Already: Yes**

**To Be Executed (again): No**

### **Actions**

None, because this transaction has been executed.

## **2.2.10 Transaction STRUSTSSO2**

### **Purpose**

Set up Single Sign-On for the system.

**Executed Already: No**

**To Be Executed (again): Yes**

### **Actions**

1. Call transaction STRUSTSSO2.

2. Right mouse click for the following entries to create/replace/delete PSE:
  - a. *SNC SAP Cryptolib*
  - b. *System PSE*
  - c. *SSL server Standard*
  - d. *SSL client (Standard)*

## **Expected Result**

Single Sign-On is configured correctly.

## **2.2.11 Transaction RZ04/RZ03**

### **Purpose**

Define instances/operation modes

**Executed Already: Yes**

**To Be Executed (again): No**

### **Actions**

None, because this transaction has been executed.

## **2.2.12 Transaction SM59**

### **Purpose**

Configure ABAP and RFC connections.

**Executed Already: Yes**

**To Be Executed (again): No**

### **Actions**

None, because this transaction has been executed.

## **2.2.13 Transaction SGEN**

### **Purpose**

Generate ABAP resources.

**Executed Already: Yes**

**To Be Executed (again): No**

### **Actions**

None, because this transaction has been executed.

## **2.2.14 Change SAPFQDN Parameter**

### **Purpose**

Change the SAPFQDN parameter values in the profiles and configure the host names in /etc/hosts so that you can access the Fiori applications via the Browser.

### **Actions**

1. Log in to your Amazon instance as 'root' user name where the Gateway system is running. Refer to Chapter 6.1 for information on OS access to the solution instance.

2. Create a shell script file as follows to execute the commands at the operating system level for your solution instance. Replace the value for NEWDOMAIN. OLDDOMAIN corresponds to the current SAPFQDN parameter value in the profile.

```
#!/bin/bash
OLDDOMAIN=dummy.nodomain
NEWDOMAIN=<your_new_domain>
SID=GW1
sid=`echo $SID | tr '[A-Z]' '[a-z]'`
hostname=cigw1
sed -i.bak -e "s@^[ \t]*SAPFQDN[ \t]*=.*@SAPFQDN = $NEWDOMAIN@g"
/sapmnt/$SID/profile/DEFAULT.PFL
sed -i.bak -e "s@^[ \t]*SAPFQDN[ \t]*=.*@SAPFQDN = $NEWDOMAIN@g"
/sapmnt/$SID/profile/${SID}_DVEBMGS00_${hostname}
sed -i.bak -e "s@${OLDDOMAIN}@${NEWDOMAIN}@g" /etc/init.d/updatehosts-network
sed -i.bak -e "s@${OLDDOMAIN}@${NEWDOMAIN}@g" /etc/hosts
/etc/init.d/updatehosts-network start
su -c stopsap - ${sid}adm
su -c startsap - ${sid}adm
```

3. Assign the execute permission to the script file; e.g. `chmod 755 <script file name>`. Execute the script. Note that you may see a ‘.. failed’ message in the output. You can ignore this message.
4. Review each affected profile and confirm that the SAPFQDN parameter value is updated to the value of NEWDOMAIN. In the example script file above, the affected profiles are DEFAULT.PFL and GW1\_DVEBMGS00\_cigw1 under /sapmnt/GW1/profile.
5. Review /etc/hosts file and confirm that the host names contain the value of NEWDOMAIN as part of the host names.

For example,

```
10.79.22.1 sid-gw1 sid-gw1.<your_new_domain> cigw1 cigw1.<your_new_domain>
```

## 2.2.15 Resolve “host.domain” in Local System

### Purpose

Since “host.domain” might not be a registered DNS or a Web address, it is necessary to make modification in the local operating system to resolve the “host.domain” to the belonging IP address of the Gateway system in order to access the Fiori applications.

### Actions

1. You have to configure the hostnames also inside your local hosts file.

In the Windows operating systems the path to the hosts file is:  
<windowspath>/system32/drivers/etc/hosts.

In the UNIX operating systems the path is: /etc/hosts.

The entry to the local host file contains following values: IP Address to VM <tab>  
hostname.domainname specified in the SAP system.

For example:

```
10.79.22.1 sid-gw1 sid-gw1.<your_new_domain> cigw1 cigw1.<your_new_domain>
```

## 2.3 User Maintenance and Settings in Gateway System

## 2.3.1 User Administration and Authentication

This section provides an overview of the users available for this solution package.

The following sample users have been created in the respective clients in the system and assigned to the corresponding organizational units to perform the pre-configured business processes:

### 2.3.1.1 Sample Users for Fiori applications in Gateway System Used in Client 001

Purpose	User ID	Initial Password	Name	Last Name
<i>Customer Invoices</i>	BPINST	Password is set to master password provided by you at Instance creation		
<i>Change Sales Orders</i>	BPINST	Password is set to master password provided by you at Instance creation		
<i>Create Sales Orders</i>	BPINST	Password is set to master password provided by you at Instance creation		
<i>Track Sales Orders</i>	BPINST	Password is set to master password provided by you at Instance creation		
<i>Order From Requisitions</i>	BPINST	Password is set to master password provided by you at Instance creation		
<i>Track Purchase Order</i>	BPINST	Password is set to master password provided by you at Instance creation		

### 2.3.1.2 Sample Users for System Administration in Gateway System Used in Client 000 and Client 001

Purpose	User ID	Initial Password	Name	Last Name
Client 000: for system administration tasks	DDIC SAP*	Password is set to master password provided by you		

		at Instance creation		
Client 001: for system administration tasks	DDIC SAP*	Password is set to master password provided by you at Instance creation		

## 3 Configuration Information for the SAP ERP Appliance in the Fiori application landscape

### 3.1 Connecting to your ERP instance

#### Procedure

1. Run the following activity to access the SAP GUI to complete the system configuration:

<b>Application</b>	Start SAP GUI Logon <i>application</i>
--------------------	--

2. Choose the Create a new entry action.
3. Select the *User Specified System* option.
4. On the *System Connection Parameter* screen, make the following entries.

Parameter ID	Parameter Value	Note
Connection Type	Custom application server	
Description	<your description>	Create a description for the new system entry to be shown in your SAP Logon overview.
Application Server	<IP Address of your instance>	You find the IP address of your instance in the instance details screen.
Instance Number	00	Default value for SAP Cloud Appliance Library images
System ID	EH6	

5. Save this new entry in the SAP Logon entries for future logon.



Now you can connect to the solution instance.

6. Continue with the specific activities described in Chapter 3.2 in this document. Log on via the administrative user listed in Chapter 3.3.1 to perform the specific activities.



After the configuration is complete, you are able to access the Gateway system of the Fiori applications via the browser by using Uniform Resource Locators (URLs) that are described in Chapter 4.

## 3.2 Specific Activities in ERP System

### 3.2.1 Transaction SICK

#### Purpose

Check the health of the system.

**Executed Already:** Yes

**To Be Executed (again):** Yes

#### Actions

Run transaction SICK.

#### Expected Result

SAP System Check: “no errors reported”

### 3.2.2 Transaction DB59

#### Purpose

Set the correct MaxDB passwords for the application server.

**Executed Already:** No

**To Be Executed (again):** Yes

#### Actions

1. Call transaction DB59.
2. Click the *Integration Data* button.
3. Set the password to the master password that was specified when the solution instance was created.
4. Go back to the previous screen.
5. Perform a connection test.
6. On the next screen, mark the server line and click the *Check Selected Servers* button.

#### Expected Result

The application server should have established a database connection.

All check results should be successful (green status). In case of a warning or error (red status), ensure that you have selected the right system and the correct master password.

### 3.2.3 Transaction DB50N

#### Purpose

Monitor the availability of the database.

**Executed Already:** No

**To Be Executed (again):** Yes

#### Actions

1. Call transaction DB50N.
2. Select your SID for *Name of Database Connection*.
3. Choose *Execute* (F8) and select *No* on the pop-up screen.

#### Expected Result

Successful result – your database is shown.

### **3.2.4 Transaction SE06**

#### **Purpose**

Post- installation actions for Transport Organizer.

**Executed Already: Yes**

**To Be Executed (again): No**

#### **Actions**

None, because this transaction has been executed.

### **3.2.5 Transaction SECSTORE**

#### **Purpose**

Administration of Secure Storage.

**Executed Already: Yes**

**To Be Executed (again): No**

#### **Actions**

None, because this transaction has been executed.

### **3.2.6 Transaction STMS**

#### **Purpose**

Configure Transport Organizer.

**Executed Already: Yes**

**To Be Executed (again): No**

#### **Actions**

None, because this transaction has been executed.

### **3.2.7 Transaction RZ10**

#### **Purpose**

Import profile parameters.

**Executed Already: Yes**

**To Be Executed (again): No**

#### **Actions**

None, because this transaction has been executed.

### **3.2.8 Transaction SMLG**

#### **Purpose**

Change Logon Group.

**Executed Already: Yes**



**To Be Executed (again): No**

### **Actions**

None, because this transaction has been executed.

## **3.2.9 Transaction RZ12**

### **Purpose**

Change Logon Group.

**Executed Already: Yes**

**To Be Executed (again): No**

### **Actions**

None, because this transaction has been executed.

## **3.2.10 Transaction STRUSTSSO2**

### **Purpose**

Set up Single Sign-On for the system.

**Executed Already: No**

**To Be Executed (again): Yes**

### **Actions**

1. Call transaction STRUSTSSO2.
2. Right mouse click for the following entries to create/replace/delete PSE:
  - a. *SNC SAP Cryptolib*
  - b. *System PSE*
  - c. *SSL server Standard*
  - d. *SSL client (Standard)*

### **Expected Result**

Single Sign-On is configured correctly.

## **3.2.11 Transaction RZ04/RZ03**

### **Purpose**

Define instances/operation modes

**Executed Already: Yes**

**To Be Executed (again): No**

### **Actions**

None, because this transaction has been executed.

## **3.2.12 Transaction SM59**

### **Purpose**

Configure ABAP and RFC connections.

**Executed Already: Yes**

**To Be Executed (again): No**

## Actions

None, because this transaction has been executed.

### 3.2.13 Transaction SGEN

#### Purpose

Generate ABAP resources.

**Executed Already: Yes**

**To Be Executed (again): No**

## Actions

None, because this transaction has been executed.

### 3.2.14 Change SAPFQDN Parameter

#### Purpose

Change the SAPFQDN parameter values in the profiles and configure the host names in /etc/hosts so that you can access the ERP system from the specified host name(s).

## Actions

1. Log in to your Amazon instance as 'root' user name where the ERP system is running. Refer to Chapter 6.1 for information on OS access to the solution instance.
2. Create a shell script file as follows to execute the commands at the operating system level for your solution instance. Replace the value for NEWDOMAIN. OLDDOMAIN corresponds to the current SAPFQDN parameter value in the profile.

```
#!/bin/bash
OLDDOMAIN=dummy.nodomain
NEWDOMAIN=<your_new_domain>
SID=EH6
sid=`echo $SID | tr '[A-Z]' '[a-z]`
hostname=cieh6
sed -i.bak -e "s@[ \t]*SAPFQDN[ \t]*=.*@SAPFQDN = $NEWDOMAIN@g"
/sapmnt/$SID/profile/DEFAULT.PFL
sed -i.bak -e "s@[ \t]*SAPFQDN[ \t]*=.*@SAPFQDN = $NEWDOMAIN@g"
/sapmnt/$SID/profile/${SID}_DVEBMGS00_${hostname}
sed -i.bak -e "s@$OLDDOMAIN@$NEWDOMAIN@g" /etc/init.d/updatehosts-network
sed -i.bak -e "s@$OLDDOMAIN@$NEWDOMAIN@g" /etc/hosts
/etc/init.d/updatehosts-network start
su -c stopsap - ${sid}adm
su -c startsap - ${sid}adm
```

3. Assign the execute permission to the script file; e.g. `chmod 755 <script file name>`. Execute the script. Note that you may see a '.. failed' message in the output. You can ignore this message.
4. Review each affected profile and confirm that the SAPFQDN parameter value is updated to the value of NEWDOMAIN. In the example script file above, the affected profiles are DEFAULT.PFL and EH6\_DVEBMGS00\_cieh6 under /sapmnt/EH6/profile.
5. Review /etc/hosts file and confirm that the host names contain the value of NEWDOMAIN as part of the host names.

For example,

10.79.22.2 sid-eh6 sid-eh6.<your\_new\_domain> cieh6 cieh6.<your\_new\_domain>

## 3.3 User Maintenance and Settings in ERP System

### 3.3.1 User Administration and Authentication

The following sample users have been created in the respective clients in the system and assigned to the corresponding organizational units to perform the pre-configured business processes:

#### 3.3.1.1 Sample Users for ERP System Used in Client 167

Purpose	User ID	Initial Password	Name	Last Name
Client 167: for business process tasks	BPINST	Password is set to master password provided by you at Instance creation		

#### 3.3.1.2 Sample Users for System Administration Used in Client 000 and Client 001 and Client 167

Purpose	User ID	Initial Password	Name	Last Name
Client 000: for system administration tasks	DDIC SAP*	Password is set to master password provided by you at Instance creation		
Client 001: for system administration tasks	DDIC SAP*	Password is set to master password provided by you at Instance creation		
Client 167: for system administration tasks	DDIC SAP*	Password is set to master password provided by you at Instance creation		

## 4 Front-end Access to SAP Fiori applications

After completing the configuration for both the SAP Gateway system and SAP ERP system, you can access the Fiori applications using URLs. This chapter describes how to do the front-end access to the SAP Fiori applications via browsers. Please refer to [SAP Mobile Apps and Infrastructure rapid-deployment solution – Fiori Edition](#) for the information on the supported browsers and their versions.

### 4.1 Access the User's Home Page (Launch page)

#### Use

The SAP Fiori applications can either be accessed via a direct link or via the user's Home Page. Using the user's Home Page allows the users to access all SAP Fiori applications where they are assigned to accessing one single page. When the user's home page is launched, you will be prompted to login. Please use the sample user, BPINST, in the client 001.

## Procedure

The user's Home Page can be called using this URL:

[https://<fully qualified host name of the Gateway system>:<port>/sap/bc/ui5\\_ui5/ui2/launchpage/home.html](https://<fully qualified host name of the Gateway system>:<port>/sap/bc/ui5_ui5/ui2/launchpage/home.html)

The preconfigured port is 44300.



You will need to ensure the full DNS resolution of the URL in order to access the system.

## 4.2 SAP Fiori Application URLs

### Use

Each Fiori application can be opened by calling an URL.

### Procedure

To open an SAP Fiori application, use the URL listed in this table. The URL is assembled as follows: <https://<fully qualified host name of the Gateway system>:<port>/<URL from table below>>. The preconfigured port is 44300.



You will need to ensure the full DNS resolution of the URL in order to access the system.

Application	URL
<b>Sales Representatives Applications</b>	
<i>Change Sales Orders</i>	/sap/bc/ui5_ui5/sap/ui5_sd_so_mon/index.html
<i>Create Sales Orders</i>	/sap/bc/ui5_ui5/sap/ui5_sd_so_cr/index.html
<i>Customer Invoices</i>	/sap/bc/ui5_ui5/sap/ui5_sd_inv_mon/index.html
<i>Track Sales Orders</i>	/sap/bc/ui5_ui5/sap/ui5_sd_so_mon/index.html
<b>Purchasing Agent Applications</b>	
<i>Order From Requisitions</i>	/sap/bc/ui5_ui5/sap/ui5_mm_popr_cr /index.html
<i>Track Purchase Orders</i>	/sap/bc/ui5_ui5/sap/ui5_mm_po_tr/index.html

### User

While accessing any of the URLs at the first time, you will be prompted to login. Please use the sample user, BPINST, in the client 001. For details, please refer to Section 2.3.1.1.

## 5 Generic Security for Fiori



More information on security settings.

Refer to Security Guide under <http://help.sap.com/fiori>.

## 6 Additional Information

### 6.1 OS Access to the instances

If you need OS access, you must use SSH connectivity. Use the default user **root** and the **private key** for the instance (either for Gateway or for ERP), which was downloaded when your instance was created from SAP Cloud Appliance Library. You can use tools such as PuTTY or SSH to connect to the OS. Refer to Amazon Elastic Compute Cloud documentation for detailed information on connecting to Linux/UNIX instances.

Parameter ID	Parameter Value	Note
OS User Name	root	The default OS Administrator user for Linux SUSE.
OS Password	<none>	Use the private key (downloaded during the creation of the instances, Gateway and ERP, in SAP Cloud Appliance Library) for logging on with the root user.

### 6.2 Track Purchase Order application

In order to see a list of purchase orders based on a vendor, for example, type "300000" vendor number in the search field. All purchase orders filtered by the vendor are displayed on the left pane.