

CUSTOMER

Gateway Management Cockpit

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1 Gateway Management Cockpit

Gateway Management Cockpit is the central UI for all administration tasks for Integration Gateway.

You can use Gateway Management Cockpit to:

- Manage destinations
- Manage service registrations
- Troubleshoot

This guide walks you through all the activities that can be performed on Gateway Management Cockpit. See Integration Gateway PDF for information on enabling content as OData services: <http://help.sap.com/mobile-platform/>.

Starting Gateway Management Cockpit

To start Gateway Management Cockpit, enter `https://host_name:https_admin_port/gateway/cockpit` in any supported browser. Log in using the administrator user name and password.

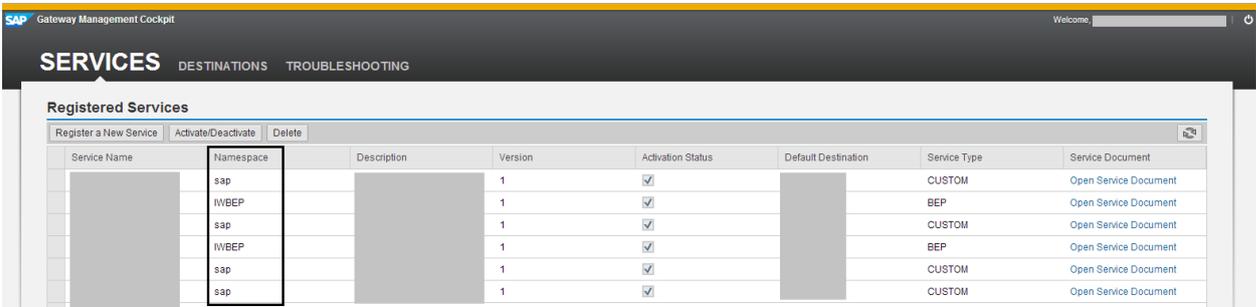
Creating a Security Profile at the Namespace Level

The security profile defines how the SAP Mobile Platform server authenticates the user during onboarding, and request-response interactions. To prevent unauthorized individuals from accessing and reading the data, create the security profile at the namespace level.

i Note

Creating and assigning security profiles at the namespace level is optional. The first and the default security configuration for any OData service is the one that is configured for the mobile application where the OData service is consumed.

You can get the namespace of registered OData services from the Gateway Management Cockpit.



Service Name	Namespace	Description	Version	Activation Status	Default Destination	Service Type	Service Document
	sap		1	<input checked="" type="checkbox"/>		CUSTOM	Open Service Document
	IWBEP		1	<input checked="" type="checkbox"/>		BEP	Open Service Document
	sap		1	<input checked="" type="checkbox"/>		CUSTOM	Open Service Document
	IWBEP		1	<input checked="" type="checkbox"/>		BEP	Open Service Document
	sap		1	<input checked="" type="checkbox"/>		CUSTOM	Open Service Document
	sap		1	<input checked="" type="checkbox"/>		CUSTOM	Open Service Document

i Note

The case-sensitive name of the security profile should match the namespace of the OData service.

See Configuring Security Profiles at <http://help.sap.com/mobile-platform> ▶ *SAP Mobile Platform 3.0* ▶ *Administrator* ▶ *Application Administrator* ▶ *Managing and Monitoring Applications* ▶ *Managing Security Profiles* ▶

2 Creating a Destination on Gateway Management Cockpit

Create destinations for the services to point to the datasource from which the data is fetched.

1. Log in to Gateway Management Cockpit.
2. On the *DESTINATIONS* tab, click *Create a New Destination...*
3. Enter the information that is appropriate to the type of datasource you want to connect to:

JDBC:

Field	Description
<Destination Name>	Enter the name for the destination.
<Destination Type>	Select <i>DATABASE</i> .
<Destination URL>	Enter the destination URL of the JDBC datasource you are connecting to. For example, <code>jdbc:hsqldb:mem:com.sap.sample</code> .
<Database Driver>	Enter the JDBC driver that enables the processor to connect to the database. For example, <code>org.hsqldb.jdbcDriver</code> .
<Authentication Type>	Select one of: <ul style="list-style-type: none"> ○ <i>No Authentication</i>; if no authentication is required to access the JDBC datasource. ○ <i>Basic Authentication</i>; if user name and password is required for to access the JDBC datasource.
<User Name>	If you selected <i>Basic Authentication</i> type, enter the user name to access the JDBC datasource.
<Password>	Enter the password to access the JDBC datasource.

HTTP:

Field	Description
<Destination Name>	Enter a name for the destination.
<Destination Type>	Select <i>HTTP</i> .
<Destination URL>	Enter the destination URL of the datasource you are connecting to.
<Authentication Type>	Select one of: <ul style="list-style-type: none"> ○ <i>No Authentication</i>; if no authentication is required to access the datasource. ○ <i>Basic Authentication</i>; if a user name and password is required to access the datasource.

Field	Description
	<ul style="list-style-type: none"> ○ <i>Client Certificate</i> ; if client certificate is enabled on the datasource. ○ <i>CSI Authentication</i> ; if the outgoing call to the destination will use the same authentication mechanism as the incoming request to SAP Mobile Platform.
<User Name>	If you selected <i>Basic Authentication</i> type, enter the user name to access the SAP system.
<Password>	Enter the password to access the SAP system.
<TrustStore File>	If you selected <i>Client Certificate</i> , enter the name of the truststore file (which contains certificates from external parties, or from certificate authorities that are trusted to identify other parties); not the file location.
<TrustStore Password>	Enter the password to access the truststore file.
<KeyStore File>	If you selected <i>Client Certificate</i> , enter the name of the keystore file (which is a repository of public and private keys, along with a corresponding certificate alias used in authentication).
<KeyStore Password>	Enter the password to access the keystore file.

JPA:

Field	Description
<Destination Name>	Enter a name for the destination.
<Destination Type>	Select <i>JPA</i> .
<Persistence Unit>	Enter the name of the JPA persistence unit as defined in the persistence.xml file (created in the META-INF directory).
<Authentication Type>	Select one of: <ul style="list-style-type: none"> ○ <i>No Authentication</i>; if no authentication is required to access the JPA datasource. ○ <i>Basic Authentication</i>; if a user name and password is required to access the JPA datasource.
<User Name>	If you selected <i>Basic Authentication</i> type, enter the user name to access the JPA datasource.
<Password>	Enter the password to access the JPA datasource.

4. Save the settings.

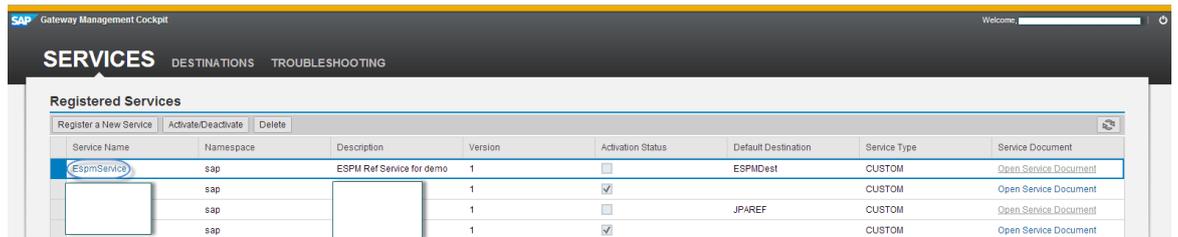
3 Assigning and Removing Destinations

To access the service document URL of the registered service in the Gateway Management Cockpit, assign destinations to them . Multiple destinations can be assigned for a service or entity sets. Before you assign destinations to a service, make sure the service is registered.

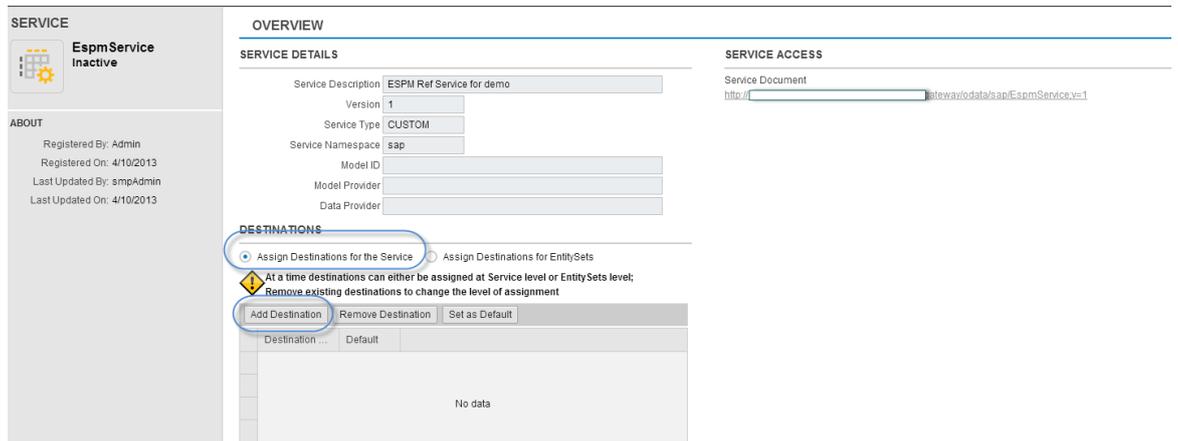
i Note

Assign destinations to either a service or entity sets but not both. To assign destinations to entity sets, remove any existing destinations assigned for the service and vice versa.

1. To assign destinations for the service:
 - a) Log in to Gateway Management Cockpit.
 - b) On the *SERVICES* tab, under *Registered Services*, click the service for which you want to assign a destination.



- c) On the service overview screen, click *Assign Destinations for the Service*.
- d) Click *Add Destination*.



- e) Choose the destination from the list and click *OK*. The assigned destination appears in the *DESTINATIONS* section.
- f) Select the assigned destination and click *Set as Default*.
2. To assign destinations for entity sets:
 - a) Log in to Gateway Management Cockpit.
 - b) On the *SERVICES* tab, under *Registered Services*, click the service for which you want to assign a destination.
 - c) On the service overview screen, click *Assign Destinations for EntitySets*.

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- d) Click *Add Destination*.
 - e) Enter the name of the entity set.
 - f) Choose the destination from the list and click *OK*.
3. To remove assigned destinations:
- a) Log in to Gateway Management Cockpit.
 - b) On the *SERVICES* tab, under *Registered Services*, click the service from which to remove the destinations.
 - c) On the service overview screen, under *DESTINATIONS*, select the destination , click *Remove Destination*.

4 Activating and Deactivating a Service

To activate or deactivate a registered service in Gateway Management Cockpit:

1. Log in to Gateway Management Cockpit.
2. On the [Registered Services](#) screen, choose the service to be activated or deactivated.
3. Click [Activate/Deactivate](#).

5 Registering an SAP Service on Gateway Management Cockpit

You can use Gateway Management Cockpit to register SAP services.

i Note

Deploy the `IW_BEP` component to enable SAP back-end to consume OData services. See SAP note [1816779](#).

1. To create a destination for the SAP service:
 - a) Log in to Gateway Management Cockpit.
 - b) On the *DESTINATIONS* tab, click *Create a New Destination....*
 - c) Enter the following in the *Create a New Destination* screen.

Field	Description
<Destination Name>	Enter a name for the destination. For example, Test.
<Destination Type>	Select HTTP.
<Destination URL>	<p>Enter the URL of the SAP back-end system where service implementations are located.</p> <p>The generic URL is <code>https://<hostname>:<port>/sap/iwbep?sap-client=<client number></code> where hostname, port and client number are system dependent.</p> <p>To get the destination URL:</p> <ol style="list-style-type: none"> 1. Log in to SAP back-end system. 2. In transaction <code>SICF</code>, choose <i>Execute (F8)</i> to display the service tree hierarchy. 3. Expand the default host and navigate to the node <code>IWBEP</code> (▶ <code>default_host</code> ▶ <code>sap</code> ▶ <code>iwbep</code> ▶). 4. In the context menu of the <code>iwbep</code> node, choose <i>Test Service</i>, click <i>Allow</i>. The URL in the address bar of the browser is the destination URL.
<Authentication Type>	<p>Select one of:</p> <ul style="list-style-type: none"> ○ <i>No Authentication</i>; if no authentication is required to access the SAP system. ○ <i>Basic Authentication</i>; if a user name and password is required to access the SAP system.

Field	Description
	<ul style="list-style-type: none"> ○ <i>Client Certificate</i> ; if client certificate is enabled on the SAP system. ○ <i>CSI Authentication</i> ; if the outgoing call to the destination will use the same authentication mechanism as the incoming request to SAP Mobile Platform.

- d) Choose [Save](#).
2. To register and activate an SAP service:
- a) Log in to Gateway Management Cockpit.
 - b) On the [SERVICES](#) tab, click [Register a New Service...](#)
 - c) Choose a destination from the [Select a Destination](#) list.
 - d) Enter the service name, or a key word in the [Search](#) field to search for SAP services.
 - e) Select the service you want to register and click [Register](#).

6 Troubleshooting in Gateway Management Cockpit

The *Troubleshooting* tab provides access to monitoring and error data.

The example below, which uses **TEA_TEST_APPLICATION** service, explains how to use Gateway Management Cockpit for troubleshooting.

i Note

If you cannot analyze or solve the error, create a message in the Customer Service System (CSS) and append the error log.

To get the back-end error information, register **ERROR_LOG_SRV** service in the Gateway Management Cockpit.

1. Skip to step 2 if you already have an error, otherwise, to simulate an error:
 - a) In *Gateway Management Cockpit*, create a destination.
 - b) Register the **TEA_TEST_APPLICATION** service.

i Note

To register services successfully, and to receive back-end error information, you must assign the correct destination for the services you register. See [Creating a Destination on Gateway Management Cockpit](#) [page 5]

2. To troubleshoot:
 - a) Open the service document of the **TEA_TEST_APPLICATION** service.
 - b) Navigate to the *ErrorCases* and enter an URL for a single error case to simulate an exception. For example, `/odata/IWBEP/TEA_TEST_APPLICATION;v=1/ErrorCases('BUSI')`
 - c) On the *Troubleshooting* tab, choose *Select Logs*.
 - d) Click a *Time stamp* field to open the error details.
 - e) Choose the *DETAILS* tab for an overview of the error details.
 - f) Select the *STACKTRACE* tab for the Java error stacktrace.
 - g) Choose the *BACKEND ERROR LOG* tab for the error log information of the back-end system. If there is no error in the back-end but only in the Java stack, *BACKEND ERROR LOG* is not displayed.
 - h) To see the error content information, select a *LOGHEADER* row.
 - i) Copy the Transaction ID.
 - j) Log in to your back-end system and use transaction `/IWBEP/ERROR_LOG` to open the back-end error log.
 - k) Filter for the copied Transaction ID.
 - l) Double-click the Transaction ID to display the *Error Context* section.
 - m) Click *Call Stack* to display the *Call Stack* screen.
 - n) From the *Call Stack* screen, you can navigate to the source code and set a breakpoint to see what went wrong.



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