

SAP S/4HANA

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English

# **SAP S/4HANA integration with SAP Fieldglass (1L8)**

Building Block Configuration Guide

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Revision	Change Date	Description
1	09.01.2016	Document created
2	13.03.2017	1611 FP01 upgraded
3	15.12.2017	1709 upgrade

## Icons

Icon	Meaning
	Caution
	Example
	Note
	Recommendation
	Syntax

## Typographic Conventions

Type Style	Description
<i>Example text</i>	Words or characters that appear on the screen. These include field names, screen titles, pushbuttons as well as menu names, paths and options. Cross-references to other documentation.
<b>Example text</b>	Emphasized words or phrases in body text, titles of graphics and tables.
EXAMPLE TEXT	Names of elements in the system. These include report names, program names, transaction codes, table names, and individual key words of a programming language, when surrounded by body text, for example, SELECT and INCLUDE.
Example text	Screen output. This includes file and directory names and their paths, messages, source code, names of variables and parameters as well as names of installation, upgrade and database tools.
EXAMPLE TEXT	Keys on the keyboard, for example, function keys (such as F2) or the ENTER key.
<b>Example text</b>	Exact user entry. These are words or characters that you enter in the system exactly as they appear in the documentation.
<Example text>	Variable user entry. Pointed brackets indicate that you replace these words and characters with appropriate entries.

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# Configuration Guide for SAP S/4HANA integration with SAP Fieldglass

## 1 Purpose

The purpose of this document is to describe the general configuration steps required to manually set up the integration for SAP S/4HANA with SAP Fieldglass within the system landscape that has already been installed using the corresponding installation or configuration guides for installation.

This document supplements the existing customizing documentation in the implementation guide (IMG) and provides additional information where required.

## 2 Preparation

### 2.1 Prerequisites

Before you start installing this scenario, please check if following prerequisites are prepared.

1. Has SAP Fieldglass already been set up?

For more information, see <http://www.fieldglass.com/solutions/support> .

2. Has the middleware already been set up if you want to use SAP HANA Cloud Platform, integration service?

For more information about how to set up SAP HANA Cloud Platform, integration service, refer to SAP HANA Cloud Integration at <https://hcp.sap.com/capabilities/integration.html> .

3. Has the middleware already been set up if you want to use Process Integration (PI version 7.31 or higher)?

## 3 Configuration

The following section describes the complete settings for this building block. These settings can be divided into three main groups:

- Prerequisite settings that have to be checked and which were delivered by SAP (as part of the standard delivery)

The term *Check* refers to these prerequisite settings.

- Settings defined by the customer (in the customer namespace and customer-specific):

The system uses automation to request individual customer settings during the personalization process. These settings can be initial or reused from existing SAP ERP layers and are indicated in the text by <your value>.

- Additional settings that need to be made, covered either by automation or manual configuration (in the customer namespace).

The term *Create* refers to these additional settings in the text.

### 3.1 Framework Settings

#### 3.1.1 Define Credentials for Fieldglass

In this customizing activity, you specify the credentials that you use to communicate with the Fieldglass web service.

1. Access the transaction using the following navigation path:

<b>IMG Path</b>	<i>SAP Customizing Implementation Guide ® Integration with Other SAP Components ® Business Network Integration ® Integration with SAP Fieldglass ® Framework Settings ® Define Credentials for SAP Fieldglass</i>
-----------------	---

- On the *Change View “Credentials for Fieldglass”*: Overview screen, chose *New Entries* to create the following settings:

Field Name	Entry Value and user action
<i>Fieldglass Buyer Company Code</i>	Specify the company code that you as a buyer have in SAP Fieldglass
<i>Fieldglass Web Service User ID</i>	Specify the SAP Fieldglass web service user ID
<i>Password</i>	Specify the password for the SAP Fieldglass web service
	Save

### 3.1.2 Define Basic Message Settings

In this customizing activity, you specify which cXML message types you want to exchange with the business network.

- Access the transaction using the following navigation path:

<b>IMG Path</b>	<i>SAP Customizing Implementation Guide ® Integration with Other SAP Components ® Business Network Integration ® Integration with SAP Fieldglass ® Framework Settings ® Define Basic Message Settings</i>
-----------------	---

- On the *Change View “cXML Message Configuration”*: Overview screen, chose *New Entries* to create the following settings:

User Action	Key Field	Column 1	Column 2
<b>Create</b>	Application Component ID	BNS-FG-SE-ERP	BNS-FG-SE-ERP
	Object Type	BUS2081	BUS2081
	Object Type Description	Incoming Invoice	Incoming Invoice
	cXML Message Type	INVC	STAT
	cXML Message Type Description	InvoiceDetailRequest	StatusUpdateRequest
	Direction	Inbound	Outbound
	Mapping Version	V001	V001
	cXML Version	1.2.030	1.2.030
	Send cXML StatusUpdateRequest Message		
	Active	√	√

User Action	Key Field	Column 1	Column 2
Save			



For inbound messages that are received either via direct connectivity, or via SAP HANA Cloud Platform, integration service, or via Process Integration, a corresponding job is automatically scheduled in the job repository to fetch the messages from the business network.



This configuration guide provides three types of mediated connection for the integration between SAP S/4 HANA and SAP Fieldglass. The first one is direct connection, the second one connection via SAP HANA Cloud Platform, integration service, and the last one connection via SAP Process Integration (PI).

### 3.1.3 Direct Connectivity Settings

#### 3.1.3.1 The Master Data Integration (Purchasing Organization, Plant, Cost Center, Internal Order) and The Invoice Integration

You can use the SOA Manager to configure Enterprise Services and Enterprise Service clients. You can open the SOA Manager in a browser window.

1. Access the transaction using the following navigation path:

<b>IMG Path</b>	<i>Integration with Other SAP Components → Integration Component with SAP Fieldglass → Framework Settings → Direct Connectivity Settings → Manage and Test Enterprise Services</i>
<b>Transaction Code</b>	SOAMANAGER

2. SOA Management (<Systemname; Client>) opens in a separate window. On the *Service Administration* tab, choose the link to *Web Service Configuration*. All services have to be defined in this interface.
3. On the *Web Service Configuration* (<Systemname; Client>) view, select the *Design Time Object Search* tab, enter the following search criteria and choose *Search* to start the search:

Field Name	User Action	Values
<i>Object Type</i>	is	Consumer proxy
<i>Object Name</i>	contains	*FG*

The system displays the outbound services. A configuration only has to be done for the services which exhibit a direct communication with Fieldglass.

- The service named CO\_ARBFND\_FG\_PRX\_DATA\_TRF\_OUT is the data transfer consumer service.
- The service named CO\_ARBFND\_FG\_PRX\_DAT\_BY\_ID\_OUT is for getting data by transaction ID consumer service.





Please note that this service CO\_ARBFND\_FG\_PRX\_DAT\_BY\_ID\_OUT is not public.

4. Select service CO\_ARBFND\_FG\_PRX\_DATA\_TRF\_OUT (*Outbound Service from the Polling Client*). Select *Internal Name*.
5. Under *Details of Consumer Proxy: CO\_ARBFND\_FG\_PRX\_DATA\_TRF\_OUT*, go to the *Configurations* tab and choose *Create – Manual Configuration*.
6. In the guided configuration, you have to do several steps:
  - o **Step 1 Logical Port Name:** Make the following entries and choose *Next*.

Field Name	User Action and Values
<i>Logical Port Name</i>	DATA_TRANSFER_OUT_DIRECT
<i>Description</i>	(empty)
<i>Logical Port is Default</i>	Check this Check-box

- o **Step 2 Consumer Security:** Select the *User ID/Password* checkbox and choose *Next*
- o **Step 3 HTTP Settings:** In the *Transport Binding Box*, create the following settings:

Field Name	User Action and Values
<i>URL components</i>	Check the radio button
<i>Protocol</i>	HTTPS
<i>Host</i>	For example, int42.fgvms.com
<i>Port</i>	443
<i>Path</i>	For example, /ws2/services/connector
<i>Name of Proxy Host</i>	For example, proxy
<i>Port Number of Proxy Host</i>	For example, 8080
<i>Make Local Call</i>	No Call in Local System
<i>Transport Binding Type</i>	SOAP 1.1
<i>Maximum Wait for WS Consumer</i>	0
<i>Optimized XML Transfer</i>	None
<i>Compress HTTP Message</i>	Inactive
<i>Compress Response</i>	TURE

- o **Step 4 SOAP Protocol:** In the *Message ID Box (Synchronous)*, select the *Suppress ID Transfer* in the *Message ID Protocol* dropdown list. Then in the *Metering of Service Calls Box*, select the *Minimal Data Transfer* in the *Data transfer scope* dropdown list and select the *Transfer via SOAP header* in the *Transfer protocol* dropdown list. Then choose *Next*
- o **Step 5 Identifiable Business Context box:** Do not input anything and choose *Next*.
- o **Step 6 Operation Settings Box:** In the *Transport Binding Box*, select the *Use non-default value* for checkbox and make the following entries. Then choose *Finish*

Field Name	User Action and Values
<i>SOAP Action</i>	For example, http://insite.partner.webservice/dataTransfer

7. Repeat the previous steps for service CO\_ARBFND\_FG\_PRX\_DAT\_BY\_ID\_OUT except the SOAP Action. Use instead the SOAP Action shown below.

Field Name	User Action and Values
Logical Port Name	GET_DATA_BY_TRANSACTION_ID_DIRECT
SOAP Action	http://insite.partner.webservice/getDataByTransactionId

### 3.1.3.2 The Business Partner (Supplier) Integration

1. Access the transaction using the following navigation path or using T-code "SOAMANAGER":

<b>IMG Path</b>	SAP Customizing Implementation Guide → Integration with Other SAP Components → Integration Component with SAP Fieldglass → Framework Settings → Direct Connectivity Settings → Manage and Test Enterprise Services
-----------------	--

2. SOA Management (<Systemname; Client>) opens in a separate window. On the Service Administration tab, choose the link to Web Service Configuration. All services have to be defined in this interface.
3. On the Web Service Configuration (<Systemname; Client>) view, choose the Design Time Object Search tab, enter the following search criteria and choose Search to start the search:

Field Name	User Action	Values
Object Type	is	Consumer proxy
Object Name	is	CO_MDG_BP_RPLCTRQ

The system displays the outbound service.

Select service CO\_MDG\_BP\_RPLCTRQ. Select Internal Name.

4. Under Details of Consumer Proxy: CO\_MDG\_BP\_RPLCTRQ, go to the Configurations tab and choose Create – Manual Configuration.
5. In the guided configuration, you have to do several steps:
  - o Step 1 Logical Port Name: Make the following entries and choose Next.

Field Name	User Action and Values
Logical Port Name	BP_REPLICATE_DIRECT
Description	(empty)
Logical Port is Default	Check this Check-box

- o Step 2 Consumer Security: Select the User ID/Password checkbox and choose Next

Field Name	User Action and Values
User Name	User Name for access to the Fieldglass Web Service
Password	Password of the user to access the Fieldglass Web Service

- o Step 3 HTTP Settings: In the Transport Binding Box, create the following settings:

Field Name	User Action and Values
<i>URL components</i>	Check the radio button
<i>Protocol</i>	HTTPS
<i>Host</i>	For example, https://psgl.fgvms.com
<i>Port</i>	443
<i>Path</i>	For example, /ws2/services/SAPBusinessPartnerPush
<i>Name of Proxy Host</i>	proxy
<i>Port Number of Proxy Host</i>	8080
<i>Make Local Call</i>	No Call in Local System
<i>Transport Binding Type</i>	SOAP 1.1
<i>Maximum Wait for WS Consumer</i>	0
<i>Optimized XML Transfer</i>	None
<i>Compress HTTP Message</i>	Inactive
<i>Compress Response</i>	TURE

- o Step 4 *SOAP Protocol*, select the value from dropdown list for each item:

Field Name	User Action and Values
<i>RM Protocol</i>	SAP RM
<i>Message ID Protocol</i>	Suppress ID Transfer
<i>Data transfer scope</i>	Minimal Data Transfer
<i>Transfer protocol</i>	Transfer via HTTP header

Then choose *Next*

- o Step 5 *Identifiable Business Context Box*: Do not input anything and choose *Next*
- o Step 6 *Operation Settings Box*: In the *Transport Binding Box*, select the *Use non-default value* checkbox. Create the following setting, then choose *Finish*

Field Name	User Action and Values
<i>SOAP Action</i>	BusinessPartnerSUITEBulkReplicateRequest_Out

- 6. Repeat the previous steps for service *CO\_MDG\_BP\_RELATIONSHIP\_OUT* with the following details:

Field Name	User Action and Values
<i>Logical Port</i>	BP_RELATIONSHIP_REPLICAT_DIRECT
<i>Path</i>	/ws2/services/SAPBusinessPartnerRelationshipPush
<i>SOAP Action</i>	BusinessPartnerRelationshipSUITEBulkReplicateRequest_Out

## 3.1.4 Mediated Connectivity Settings for Integration Using HCI (Optional)

### 3.1.4.1 View and Extend the Deployed Integration Flows using SAP Eclipse (Optional)

This step is optional and only required if you want to extend the standard integration flows.

#### Prerequisites

1. Install the SAP HCI Eclipse environment, see <https://tools.hana.ondemand.com/#hci>
2. Maintain the HCI Operation server details at *Windows à Preferences à SAP Cloud Platform Integration à Operation server* (see provisioning e-mail for details)

#### 3.1.4.1.1 Download the Integration Flow projects on your desktop

1. Go to *Integration Designer* perspective.
2. In the Project Explorer, on the Eclipse toolbar, navigate to *File à Import*
3. In the Import wizard, select the option *Integration Content Archive* under SAP Cloud Platform Integration and choose *Next*
4. In the next screen under *Import*, select *Tenant Management Node* in the *From location* dropdown list and select your tenant in the *Tenant ID* dropdown list
5. From the Integration content section, select the integration flows(download from SAP S/4HANA integration with SAP Fieldglass package) which you want to download and choose *Finish*.
6. The project is imported and displayed under the Project Explorer

#### 3.1.4.1.2 View the configured certificates and externalized parameters

1. In the Project Explorer, expand the tree view and double-click to open the integration flow under *src.main.resources.scenarioflows.integrationflows*.
2. In the Integration Designer, select the integration flow.
3. Within the integration flow, under the *Properties* tab, select the sender system.
4. If you wish to update the authentication of the integration flow to Basic Authentication, you can do so by selecting the mode of authentication as Basic Authentication. For more information on configuring basic authentication, see [How-To guides](#).



When using Basic Authentication, make sure to create new SCN user or use the existing SCN user and password to authenticate into HCI. The SAP SCN can be accessed from <https://scn.sap.com>.

5. For Certificate-based Authentication, view the details under the *Properties* tab.
6. To view the configuration of the integration flow, select the *Externalized Parameters* tab, under the *Value* field, and view the configured *<host>:<port>* information of the receiver system.

### 3.1.4.2 Configure and Deploy pre-package content using HCI web UI and get the endpoints (Recommend)

You get the endpoint of an integration flow from the following place once the integration flows are deployed.

1. Access the Web UI URL from the provisioning e-mail. It should be in the format: `https://<HCI tenant>.hci.us1.hana.ondemand.com/itspaces` (please get the correct link from your system lead).
2. In the *Discover* tab, find the package “SAP S/4HANA integration with SAP Fieldglass” and copy all the integration flows to the workspace by clicking on the button with the tooltip *Copy to workspace*
3. In the *Design* tab, navigate to the package and select individual integration flow. Now, choose the *Actions* icon and select the *Configure* option
4. Under the receiver tab in the "Configure SAP S4HANA Get Data By Transaction ID from SAP Fieldglass" screen, provide the address: `https://<HOST>/<WEB SERVICE>`, for example `https://<Fieldglass Host Name>/ws2/services/connectorn`
5. Choose *Deploy*
6. You should see a “*Deploy Successful*” message in the console
7. Repeat the above steps for all integration flows which you wish to deploy
8. In the HCI Web UI, navigate to *Monitor*. Click on the *Started* tile.
9. Search for the integration flow, e.g. *SAP S4HANA Get Data by Transaction ID from SAP Fieldglass* . Click on status *Started*. The second part of the listed endpoint starting with */cxf/* is the needed service endpoint. Example: `/cxf/fieldglass/dataTransfer`

### 3.1.4.3 Configure Communication User Credentials using SAP Cloud Platform Integration Web UI (Recommend)

If you want to use basic authentication between SAP Cloud Platform Integration and SAP Fieldglass, you need to deploy credentials in SAP Cloud Platform Integration.

1. Access the Web UI URL from the provisioning e-mail. It should be in the format: `https://<HCI tenant>.hci.us1.hana.ondemand.com/itspaces`.
2. In the *Monitor* tab, navigate to *Manage Security Material* and choose *Security Material*.
3. Select *Add* → *User Credential* in the lower right corner.
4. Maintain a meaningful Name (please use the given name: **Fieldglass\_Credential**) – this will be referenced in integration flows – a Description, and the User and Password. Do not flag the *SuccessFactors* check box.

<i>User Name</i>	The user name to access the Fieldglass web service
<i>Password</i>	The password(license) to access the Fieldglass web service

5. Choose *Deploy*.

### 3.1.4.4 Manage and Test Enterprise Services

#### 3.1.4.4.1 The Master Data Integration (Purchasing Organization, Plant, Cost Center, Internal Order) and The Invoice Integration

1. Access the transaction using the following navigation path or using T-code “SOAMANAGER”:

IMG Path	<i>Integration with Other SAP Components</i> → <i>Integration Component with SAP Fieldglass</i> → <i>Framework Settings</i> →
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	<i>Mediated Connectivity Settings → Manage and Test Enterprise Services</i>
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2. SOA Management (<Systemname; Client>) opens in a separate window. On the *Service Administration* tab, choose the link to *Web Service Configuration*. All services have to be defined in this interface.
3. On the *Web Service Configuration* (<Systemname; Client>) view, select the *Design Time Object Search* tab, enter the following search criteria and choose *Search* to start the search:

Field Name	User Action	Values
<i>Object Type</i>	<i>is</i>	<i>Consumer proxy</i>
<i>Object Name</i>	<i>contains</i>	<i>*FG*</i>

The system displays the outbound services. A configuration only has to be done for the services which exhibit a direct communication with the Fieldglass.

The service named `CO_ARBFND_FG_PRX_DATA_TRF_OUT` is the data transfer consumer service.

The service named `CO_ARBFND_FG_PRX_DAT_BY_ID_OUT` is for getting data by transaction ID consumer service.

Select service `CO_ARBFND_FG_PRX_DATA_TRF_OUT` (Outbound Service from the Polling Client). Select *Internal Name*.

4. Under *Details of Consumer Proxy*. `CO_ARBFND_FG_PRX_DATA_TRF_OUT`, go to the *Configurations* tab and choose *Create – Manual Configuration*.
5. In the guided configuration, you have to do several steps:
  - o Step 1 Logical Port Name: Make the following entries and choose *Next*.

Field Name	User Action and Values
<i>Logical Port Name</i>	<code>DATA_TRANSFER_OUT_HCI</code>
<i>Description</i>	(empty)
<i>Logical Port is Default</i>	Check this Check-box

- o Step 2 Consumer Security: Select the *User ID/Password* checkbox and choose *Next*

Field Name	User Action and Values
<i>User Name</i>	User Name for accessing the SCP tenant
<i>Password</i>	Password of the user for accessing the SCP tenant

- o Step 3 HTTP Settings: In the *Transport Binding Box*, create the following settings:

Field Name	User Action and Values
<i>URL components</i>	Check the radio button
<i>Protocol</i>	HTTPS
<i>Host</i>	For example, <tenant>-iflmap.hcisb.int.sap.hana.ondemand.com
<i>Port</i>	443
<i>Path</i>	For example, /cxf/fieldglass/dataTransfer
<i>Name of Proxy Host</i>	For example, proxy
<i>Port Number of Proxy Host</i>	For example, 8080
<i>Make Local Call</i>	No Call in Local System
<i>Transport Binding Type</i>	SOAP 1.1
<i>Maximum Wait for WS Consumer</i>	0
<i>Optimized XML Transfer</i>	None
<i>Compress HTTP Message</i>	Inactive
<i>Compress Response</i>	TURE

- o Step 4 *SOAP Protocol*, select the following values from the dropdown list for each item:

Field Name	User Action and Values
<i>Message ID Protocol</i>	Suppress ID Transfer
<i>Data transfer scope</i>	Minimal Data Transfer
<i>Transfer protocol</i>	Transfer via HTTP header

Then choose *Next*

- o Step 5 *Identifiable Business Context Box*: Do not input anything and choose *Next*
- o Step 6 *Operation Settings Box*: In the *Transport Binding Box*, select the *Use non-default value* for checkbox and make the following entries. Then choose *Finish*

Field Name	User Action and Values
<i>SOAP Action</i>	http://insite.partner.webservice/dataTransfer

6. Repeat the previous steps for service `CO_ARBFND_FG_PRX_DAT_BY_ID_OUT`, except the fields as shown below.

Field Name	User Action and Values
<i>Logical Port Name</i>	GET_DATA_BY_TRANSACTION_ID_HCI
<i>Path</i>	/cxf/fieldglass/dataTransfer
<i>SOAP Action</i>	http://insite.partner.webservice/getDataByTransactionId

### 3.1.4.4.2 The Business Partner (Supplier) Integration

1. Access the transaction using the following navigation path or using T-code "SOAMANAGER":

<b>IMG Path</b>	SAP Customizing Implementation Guide → Integration with Other SAP Components → Integration Component with SAP Fieldglass → Framework Settings → Mediated Connectivity Settings → Manage and Test Enterprise Services
-----------------	--

2. SOA Management (<Systemname; Client>) opens in a separate window. On the *Service Administration* tab, choose the link *Web Service Configuration*. All services have to be defined in this interface.
3. On the *Web Service Configuration* (<Systemname; Client>) view, choose the *Design Time Object Search* tab, enter the following search criteria and choose *Search* to start the search:

Field Name	User Action	Values
<i>Object Type</i>	is	Consumer proxy
<i>Object Name</i>	is	CO_MDG_BP_RPLCTRQ

The system displays the outbound service.

Select service CO\_MDG\_BP\_RPLCTRQ. Select *Internal Name*.

4. Under *Details of Consumer Proxy: CO\_MDG\_BP\_RPLCTRQ*, go to the *Configurations* tab and choose *Create – Manual Configuration*.
5. In the guided configuration, you have to do several steps:

- o Step 1 Logical Port Name: Make the following entries and choose *Next*.

Field Name	User Action and Values
<i>Logical Port Name</i>	BP_REPLICATE_HCI
<i>Description</i>	(empty)
<i>Logical Port is Default</i>	Check this Check-box

- o Step 2 Consumer Security: Select the *User ID/Password* checkbox and choose *Next*

Field Name	User Action and Values
<i>User Name</i>	User Name for access the SCP tenant
<i>Password</i>	Password of the user to access the SCP tenant

- o Step 3 HTTP Settings: In the *Transport Binding Box*, create the following settings:



Field Name	User Action and Values
<i>URL components</i>	Check the radio button
<i>Protocol</i>	HTTPS
<i>Host</i>	For example, <tenant>-iflmap.hcisb.int.sap.hana.ondemand.com
<i>Port</i>	443
<i>Path</i>	/cxf/Fieldglass/BusinessPartnerPush
<i>Name of Proxy Host</i>	proxy
<i>Port Number of Proxy Host</i>	8080
<i>Make Local Call</i>	No Call in Local System
<i>Transport Binding Type</i>	SOAP 1.1
<i>Maximum Wait for WS Consumer</i>	0
<i>Optimized XML Transfer</i>	None
<i>Compress HTTP Message</i>	Inactive
<i>Compress Response</i>	TURE

- o Step 4 *SOAP Protocol*, select the following values from the dropdown list for each item:

Field Name	User Action and Values
<i>RM Protocol</i>	SAP RM
<i>Message ID Protocol</i>	Suppress ID Transfer
<i>Data transfer scope</i>	Minimal Data Transfer
<i>Transfer protocol</i>	Transfer via HTTP header

Then choose *Next*

- o Step 5 *Identifiable Business Context Box*: Do not input anything and choose *Next*
- o Step 6 *Operation Settings Box*: In the *Transport Binding Box*, select *Use non-default value* checkbox. Create the following setting and then choose *Finish*

Field Name	User Action and Values
<i>SOAP Action</i>	BusinessPartnerSUITEBulkReplicateRequest_Out

- 6. Repeat the previous steps for service CO\_MDG\_BP\_RELATIONSHIP\_OUT with:

Field Name	User Action and Values
<i>Logical Port</i>	BP_RELATIONSHIP_REPLICAT_HCI
<i>Path</i>	/cxf/Fieldglass/BusinessPartnerRelationshipPush
<i>SOAP Action</i>	BusinessPartnerRelationshipSUITEBulkReplicateRequest_Out

### 3.1.4.4.3 The WBS Elements Integration

- 1. Access the transaction using the following navigation path or using T-code "SOAMANAGER":

<b>IMG Path</b>	SAP Customizing Implementation Guide → Integration with Other SAP Components → Integration Component with SAP
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	<i>Fieldglass → Framework Settings → Mediated Connectivity Settings → Manage and Test Enterprise Services</i>
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2. SOA Management (<Systemname; Client>) opens in a separate window. On the *Service Administration* tab, choose the link *Web Service Configuration*. All services have to be defined in this interface.
3. On the *Web Service Configuration* (<Systemname; Client>) view, choose the *Design Time Object Search* tab, enter the following search criteria and choose *Search* to start the search:

Field Name	User Action	Values
<i>Object Type</i>	is	Consumer proxy
<i>Object Name</i>	is	CO_PSWBSELEMENT_MASTER_DATA_RE

The system displays the outbound service.

Select service CO\_PSWBSELEMENT\_MASTER\_DATA\_RE. Select *Internal Name*.

4. Under *Details of Consumer Proxy: CO\_PSWBSELEMENT\_MASTER\_DATA\_RE*, go to the *Configurations* tab and choose *Create – Manual Configuration*.
5. In the guided configuration, you have to do several steps:

Step 1 *Logical Port Name*: Make the following entries and choose *Next*.

Field Name	User Action and Values
<i>Logical Port Name</i>	WBS_ELEMENT_REPLICATE_HCI
<i>Description</i>	(empty)
<i>Logical Port is Default</i>	Check this Check-box

Step 2 *Consumer Security*: Select the *User ID/Password* checkbox and choose *Next*

Field Name	User Action and Values
<i>User Name</i>	User Name for access the SCP tenant
<i>Password</i>	Password of the user to access the SCP tenant

- o Step 3 *HTTP Settings*: In the *Transport Binding Box*, create the following settings:

Field Name	User Action and Values
<i>URL components</i>	Check the radio button
<i>Protocol</i>	HTTPS
<i>Host</i>	For example, <tenant>-iflmap.hcisb.int.sap.hana.ondemand.com
<i>Port</i>	443
<i>Path</i>	/cxf/Fieldglass/WBS_ELEMENT_REPLICATE
<i>Name of Proxy Host</i>	proxy
<i>Port Number of Proxy Host</i>	8080
<i>Make Local Call</i>	No Call in Local System
<i>Transport Binding Type</i>	SOAP 1.1
<i>Maximum Wait for WS Consumer</i>	0
<i>Optimized XML Transfer</i>	None
<i>Compress HTTP Message</i>	Inactive
<i>Compress Response</i>	TURE

- o Step 4 *SOAP Protocol*, select the value from dropdown list for each item:

Field Name	User Action and Values
<i>RM Protocol</i>	SAP RM
<i>Message ID Protocol</i>	Suppress ID Transfer
<i>Data transfer scope</i>	Minimal Data Transfer
<i>Transfer protocol</i>	Transfer via HTTP header

Then choose *Next*

- o Step 5 *Identifiable Business Context Box*: Do not input anything and choose *Next*
- o Step 6 *Operation Settings Box*: In the *Transport Binding Box*, select the *Use non-default value* checkbox. Create the following setting and then choose *Finish*

Field Name	User Action and Values
<i>SOAP Action</i>	WBSElementMasterDataReplicationBulkRequest_Out

### 3.1.4.4.4 The Company Codes and G/L Accounts Integration

1. Access the transaction using the following navigation path or using T-code "SOAMANAGER":

<b>IMG Path</b>	SAP Customizing Implementation Guide → Integration with Other SAP Components → Integration Component with SAP Fieldglass → Framework Settings → Mediated Connectivity Settings → Manage and Test Enterprise Services
-----------------	--

2. *SOA Management (<Systemname; Client>)* opens in a separate window. On the *Service Administration* tab, choose the link to *Web Service Configuration*. All services have to be defined in this interface.
3. On the *Web Service Configuration (<Systemname; Client>)* view, choose the *Design Time Object Search* tab, enter the following search criteria and choose *Search* to start the search:

Field Name	User Action	Values
<i>Object Type</i>	is	Consumer proxy
<i>Object Name</i>	is	CO_BNSCOMPANY_CODE_MASTER_DATA

The system displays the outbound service.

Select service CO\_BNSCOMPANY\_CODE\_MASTER\_DATA. Display *Internal Name*.

4. Under *Details of Consumer Proxy: CO\_BNSCOMPANY\_CODE\_MASTER\_DATA*, go to the *Configurations* tab and choose *Create – Manual Configuration*.
5. In the guided configuration, you have to do several steps:

Step 1 *Logical Port Name*: Make the following entries and choose *Next*.

Field Name	User Action and Values
<i>Logical Port Name</i>	COMPANYCODE_REPLICATE_HCI
<i>Description</i>	(empty)
<i>Logical Port is Default</i>	Check this Check-box

Step 2 *Consumer Security*: Select the *User ID/Password* checkbox and choose *Next*

Field Name	User Action and Values
<i>User Name</i>	User Name for access the SCP tenant
<i>Password</i>	Password of the user to access the SCP tenant

- o Step 3 *HTTP Settings*: In the *Transport Binding Box*, create the following settings:

Field Name	User Action and Values
<i>URL components</i>	Check the radio button
<i>Protocol</i>	HTTPS
<i>Host</i>	For example, <tenant>-iflmap.hcisb.int.sap.hana.ondemand.com
<i>Port</i>	443
<i>Path</i>	/cxf/Fieldglass/CompanyCodeReplication
<i>Name of Proxy Host</i>	proxy
<i>Port Number of Proxy Host</i>	8080
<i>Make Local Call</i>	No Call in Local System
<i>Transport Binding Type</i>	SOAP 1.1
<i>Maximum Wait for WS Consumer</i>	0
<i>Optimized XML Transfer</i>	None
<i>Compress HTTP Message</i>	Inactive
<i>Compress Response</i>	TURE

- o Step 4 *SOAP Protocol*, select the value from dropdown list for each item:

Field Name	User Action and Values
<i>RM Protocol</i>	SAP RM
<i>Message ID Protocol</i>	Suppress ID Transfer
<i>Data transfer scope</i>	Minimal Data Transfer
<i>Transfer protocol</i>	Transfer via SOAP header

Then choose *Next*

- Step 5 *Identifiable Business Context Box*: Do not input anything and choose *Next*
- Step 6 *Operation Settings Box*: In the *Transport Binding Box*, select *Use non-default value* checkbox. Create the following setting, then choose *Finish*

Field Name	User Action and Values
<i>SOAP Action</i>	http://insite.partner.webservice/dataTransfer

6. Repeat the previous steps for service `CO_BNSGLACCOUNT_MASTER_DATA_RE` with:

Field Name	User Action and Values
<i>Logical Port</i>	GLACCOUNT_REPLICATE_HCI
<i>Path</i>	/cxf/Fieldglass/GLAccountsReplication

## 3.2 Application-Specific Settings

### 3.2.1 Reference Data Replication

#### 3.2.1.1 Define Technical Settings for Business Systems

To enable the communication with the SAP Fieldglass system, you have to define the name of the system in this customizing activity.

1. Access the transaction using the following navigation path:

<b>IMG Path</b>	<i>SAP Customizing Implementation Guide @ Integration with Other SAP Components → Business Network Integration @ Integration Component with SAP Fieldglass → Application-specific Settings → Reference Data Replication → Define Technical Settings for Business Systems</i>
-----------------	--

2. On the *Change View "Define Business Systems"*: Overview view choose *New Entries* and make the following entries. Then choose *Save*.

Field Name	Entry Value and user action
<i>Business System</i>	Fieldglass
	Save



*Under Business System, specify a name for the SAP Fieldglass system. You can freely define this name; it does not have to exist in the system landscape directory (SLD). You can use Fieldglass, for example. Leave all other columns empty and save your data.*

#### 3.2.1.2 Define Replication Models

You can use this customizing activity to specify the replication model for SAP Fieldglass. The replication model defines what data you want to replicate to SAP Fieldglass.

1. Access the transaction using the following navigation path:

<b>IMG Path</b>	<i>SAP Customizing Implementation Guide @ Integration with Other SAP Components → Business Network Integration @ Integration Component with SAP Fieldglass → Application-specific Settings → Reference Data Replication → Define Replication Models</i>
-----------------	---

2. On the *New Entries: Overview of Added Entries* view choose *New Entries* and make the following entries. Then choose *Save*.

Field Name	Entry Value and user action
<i>Replication Model</i>	Fieldglass
<i>Description</i>	S4H Fieldglass Integration
	Save

3. Select the entry created and double-click on *Assign Outbound Implementation*.



*If you want to replicate master data including cost center, internal order, plants and purchasing organization, please implement the steps below*

4. On the *New Entries: Overview of Added Entries* screen, chose *New Entries* to create the following settings and choose *Save*:

Key Field	Column 1	Column 2	Column 3	Column 4
<i>Outbound Implementation</i>	FG_CC	FG_IO	FG_PLANT	FG_PUR_ORG
<i>Description</i>	Fieldglass: Upload Cost Centers	Fieldglass: Upload Internal Orders	Fieldglass: Upload of Plants	Fieldglass: Upload of Purchasing Organizations
<i>Communication Channel</i>	Replication via Services	Replication via Services	Replication via Services	Replication via Services
<i>Filter Time</i>	Filter After Change Analysis	Filter After Change Analysis	Filter After Change Analysis	Filter After Change Analysis

5. In the Dialog Structure on left side, double-click *Assign Outbound Implementation*. Make the following settings for each outbound implementation you create:
  - Select one entry and double-click on *Assign Target Systems for Repl. Model/Outb. Impl* in the dialog structure.
  - On the *Change View "Assign Target Systems for Repl. Model /Outb. Impl": Overview* screen, choose *New Entries* and make the following entries. Then choose *Save*.

Field Name	Entry Value and user action
<i>Business System</i>	Fieldglass
	Save

6. Double-click on *Define Replication Model* in the dialog structure and go back to the initial Customizing view.
7. Select the entry created and choose *Activate* to activate the replication model.



If you want to replicate master data including business partner and business partner relationship, please implement the steps below:

- Repeat steps 3-7 for Business Partner and Business Partner Relationship master data replication with the following values:

Field Name	Entry Value and user action
<i>Outbound Implementation</i>	986_3
<i>Description</i>	Outbound Impl. for BP/REL via Services
<i>Communication Channel</i>	Replication via Services
<i>Filter Time</i>	Filter After Change Analysis



If you want to replicate master data including WBS Elements, please implement the steps below:

- Repeat steps 3-7 for WBS Element master data replication with:

Field Name	Entry Value and user action
<i>Outbound Implementation</i>	PS_WBS_OUT
<i>Description</i>	Replicate WBS Elements
<i>Communication Channel</i>	Replication via Services
<i>Filter Time</i>	Filter After Change Analysis



If you want to replicate master data including Company Code and G/L Account master, please implement the steps below:

- Repeat steps 3-7 for Company Code and G/L Account master data replication with the following values:

Key Field	Column 1	Column 2
<i>Outbound Implementation</i>	AR_CCODE	AR_GLACC
<i>Description</i>	Ariba: Upload Company Code	Ariba: Upload G/L Accounts
<i>Communication Channel</i>	Replication via Services	Replication via Services
<i>Filter Time</i>	Filter After Change Analysis	Filter After Change Analysis

- After Outbound Implementation AR\_CCODE has been created, please select it and double-click on *Assign Outbound Parameter* in the dialog structure.
- On the *Change View "Assign Outbound Parameter": Overview* screen, choose *New Entries* and choose the entries you need (multiple languages are supported), for example:

Field Name	Entry Value and user action
<i>Outbound Parameter</i>	PACK_SIZE_BULK
<i>Parameter Description</i>	Package Size for Bulk Messages
<i>Mandatory</i>	check

Then choose *Save*.

- After Outbound Implementation AR\_GLACC has been created, please select it and double-click on *Assign Language* in the dialog structure.
- On the *Change View “Assign Language”*: Overview screen, choose *New Entries* and choose the entries you need (multiple languages are supported), for example:

Field Name	Entry Value and user action
Language	EN
Name	English

Then choose *Save*.

## 3.2.2 Define Message Output Control

### 3.2.2.1 Activate Business Transaction Events to Trigger Message

1. Access the transaction using the following navigation path:

IMG Path	
	<i>SAP Customizing Implementation Guide → Integration with Other SAP Components → Business Network Integration → Integration with SAP Fieldglass → Application -Specific Settings → Define Message Output Control → Activate Business Transaction Events to Trigger Messages</i>

2. The settings that you make in this customizing activity are shared in both Ariba Network and SAP Fieldglass integration scenarios. Therefore, make sure that the following entries have been entered correctly.

Field Name	Entry Value and user action
Application Indicator	ARBERP
A	Check the checkbox, to activate BTEs
Text	Ariba Integration
	Save

### 3.2.2.2 Define Conditions for Output Control

You must define the conditions under which supplier invoices are transferred from SAP S/4HANA to SAP Fieldglass.

1. Access the transaction using the following navigation path:

IMG Path	
	<i>SAP Customizing Implementation Guide → Integration with Other SAP Components → Business Network Integration → Integration with SAP Fieldglass → Application -Specific Settings → Define Message Output Control → Define Conditions for Output Control</i>

2. Select the application MR for Invoice Verification and choose *Condition records*.
3. Double-click output type FGSU (Fieldglass Status Update) and select the key combination Company Code/Invoicing. This is the combination of criteria for which you want to define conditions.
4. On the next screen, make the following entries:

Field Name	Entry Value and user action
Company code	Specify a company code
Invoicing Party	(empty)



Field Name	Entry Value and user action
	Execute

5. On the *Change Condition Records (Fieldglass Status Up): Fast Change* view, in the Condition Recs. table, make the following entries:

Field Name	Entry Value and user action
<i>Inv.Pty</i>	Specify a supplier in Fieldglass, for example 10300080
	Press enter
<i>Funct</i>	PI
<i>Partner:</i>	(empty)
<i>Medium</i>	8
<i>Date/Time</i>	4
<i>Language</i>	(empty)
	Save

### 3.2.2.3 Map Application and Output Type to cXML Message (NAST-Based Output Control)

You must define which cXML message type you want to use for SAP S/4HANA supplier invoices.

1. Access the transaction using the following navigation path:

<b>IMG Path</b>	<i>SAP Customizing Implementation Guide → Integration with Other SAP Components → Business Network Integration → Integration with SAP Fieldglass → Application-Specific Settings → Define Message Output Control → Map Application and Output Type to cXML Message (NAST-Based Output Control)</i>
-----------------	--

2. On the *Change View “NAST: Map Application and Output Type to cXML Message”* view, choose *New Entries* and make the following entries. Then choose *Save*.

Field Name	Entry Value and user action
<i>Application for Output Conditions</i>	MR
<i>Output Type cXML</i>	FGSU
<i>cXML Message Type</i>	STAT
<i>Application Component ID</i>	BNS-FG-SE-ERP
	Save

### 3.2.3 Define Application-Specific Mapping Settings

In this customizing activity, you can define the mapping of data that is relevant for logistics invoice verification. Using logistics invoice verification is mandatory if you transfer invoices between a business network and SAP S/4HANA.

1. Access the transaction using the following navigation path:

<b>IMG Path</b>	<i>Integration with Other SAP Components → Integration Component with SAP Fieldglass → Application-specific Settings → Define Application-Specific Mapping Settings</i>
-----------------	---

→ Define Mapping Settings for Invoices

- On the *Select Activity* screen, choose *Incoming Invoice: Map Tax Codes for Logistics Invoice Verification*.



*In this activity, you map the cXML tax categories and country-specific values to the tax codes in your SAP S/4HANA system. You can do this for each of your suppliers.*

- On the *Change View "Incoming Invoice: Map Tax Codes for Logistics Invoice Verification"* view, choose *New Entries* and make the following entries. Then choose *Save*.

Field Name	Entry Value and user action
<i>Vendor</i>	Supplier Name in Fieldglass, for example: 10300080
<i>Tax Category in cXML</i>	Invoice Adjustment Name in Fieldglass, for example: V1
<i>Tax Rate in cXML</i>	Adjustment in Fieldglass, for example: 7
<i>Country</i>	for example: DE
<i>Tax Code</i>	Invoice Adjustment Name in Fieldglass, for example: V1
	Save

- On the *Select Activity* screen, choose *Incoming Invoice: Map Company Codes for Logistics Invoice Verification*.



*In this activity, you map the company code in your SAP S/4HANA system to a bill to name in the incoming cXML message. You do this for each of your suppliers.*

- On the *Change View "Incoming Invoice: Map Company Codes for Log. Invoice Verification"* view, choose *New Entries* and make the following entries. Then choose *Save*.

Field Name	Entry Value and user action
<i>Vendor</i>	Supplier Name in Fieldglass, for example: 10300080
<i>Name of Partner in cXML</i>	Legal Entity name in cXML, for example: Company Code 1010
<i>Company Code</i>	Legal Entity name in Fieldglass, for example: 1010
	Save

- On the *Select Activity* screen, choose *Enter Control Parameters for Log. Invoice Verification - w/o order reference*.



*In this activity, you define whether invoices without reference to a purchase order are posted. Also, you decide how the system reacts if an invoice without a reference to a purchase order cannot be posted.*

- On the *Change View "Incoming Invoice: Incoming Invoice: Control Parameters for Log. Invoice Ver"* view make sure the following entries have been entered correctly. Then choose *Save*.

Field Name	Entry Value and user action
<i>Correction Ind.</i>	Unclassified Error: Park Invoice
<i>Post Invoices w/o order reference, if possible</i>	Select the checkbox
<i>Otherwise, do the following:</i>	Park invoice
	Save

## 3.3 Scheduling the Invoice Status Update as a Regular Background Job

Schedule the programs that process the invoice status updates – such as *Payment Pending* and *Paid* – from SAP S/4HANA to SAP Fieldglass. The invoice status is displayed in SAP Fieldglass to the supplier to enable the further invoice processing in S/4HANA.

### 3.3.1 Procedure

1. Access the transaction using the following navigation path:

<b>Transaction Code</b>	SM36
-------------------------	------

2. Decide on a name for the job you are defining and enter it in the *Job Name* field.



*The Job Name should start with the letter Z.*

3. Choose the *Job wizard* button on the top of the *Define Background Job* screen.
4. Choose the *Continue* button on the *Create a job* screen.
5. On the *General job information* screen make the following entries. Then choose *Continue*.

Field Name	Entry Value and user action
<i>Job Name</i>	The job name defined above
<i>Job Class</i>	B- Middle priority
	Continue

6. On the *Job definition: Job step* screen, check the *ABAP program step* radio button and choose *Continue*.
7. On the *ABAP program step* screen make the following entries. Then choose *Continue*.

Field Name	Entry Value and user action
<i>ABAP program step</i>	ARBERP_BUS2081_EXTRACT_STS_UPD
<i>Variant</i>	Empty
	Continue

8. On the *Multi-step option* screen, choose *Continue*.
9. On the *Job definition: Job conditions* screen, check the *Data/time* radio button and choose *Continue*.
10. On the *Definition of start at date/time* screen, make the following entries and check the *Period* checkbox under *Periodic jobs* tab. Then choose *Continue*.

Field Name	Entry Value and user action
<i>Scheduled start</i>	The start time of the backgroundjob(Start date can't in the past)
<i>Latest start</i>	Empty
	Continue

11. On the *Period definition* screen, check the *None of the above* radio button. Then enter 2 *Minute(s)* and choose *Create*. Then choose *Continue*.
12. On the *Set job* screen, choose *Complete*.

## 3.4 Fieldglass - Service Procurement Integration Configuration

Activate the integration of SAP Fieldglass with SAP S/4HANA to support, automate and extend SAP S/4HANA contingent labor and statement of work hiring and management processes.

### 3.4.1 Prerequisites

#### 3.4.1.1 Get Virtual Host for S/4HANA On Premise System

Log on to the SAP HANA Cloud Connector Administration system. Under the *Access Control* tab, you find the Internal Host URL of the S/4HANA On Premise system. Write down the corresponding Virtual Host URL.

### 3.4.2 Manage and configured web service

#### 3.4.2.1 Simplified web service configuration

1. Access the transaction using the following navigation path or using T-code "SOAMANAGER":

<b>IMG Path</b>	<i>SAP Customizing Implementation Guide @ Integration with Other SAP Components → Integration Component with SAP Fieldglass → Framework Settings → Mediated Connectivity Settings → Manage and Test Enterprise Services</i>
-----------------	---

2. *SOA Management (<Systemname; Client>)* opens in a separate window. On the *Service Administration* tab, choose the link to *Simplified Web Service Configuration*.
3. On the *Simplified Service Configuration (<Systemname; Client>)* view, under *Configuration* tab, enter the following search criteria and choose *Search* to start the search:

Field Name	Values	User Action
<i>Search Pattern</i>	PurchaseRequisitionReplicationRequest_In	Go



Please note that this API `PurchaseRequisitionReplicationRequest_In` is not public.

4. The system displays the configure service definitions. Select the found entry, activate the *User Name/Password(Basic)* checkbox and then save it.
5. Choose the *Show Details* button. The access URL consists of host and web service like `https://<HOST>/<WEB SERVICE>`. Write down the Web Service. Then choose *OK*.
6. On the *Simplified Service Configuration (<Systemname; Client>)* view, under *Configuration* tab, enter the following search criteria and choose *Search* to start the search:

Field Name	Values	User Action
<i>Search Pattern</i>	PurchaseOrderERPRequest_In_V1	Go



Please note that this API `PurchaseOrderERPRequest_In_V1` is not public.

7. The system displays the configure service definitions. Select the found entry, activate the *User Name/Password(Basic)* checkbox and then save it.
8. Choose the *Show Details* button. The access URL consists of Host and Web Service like `https://<HOST>/<WEB SERVICE>`. Write down the Web Service. Then choose *OK*.

### 3.4.2.2 Web service configuration

1. Access the transaction using the following navigation path or using T-code "SOAMANAGER":

<b>IMG Path</b>	<i>SAP Customizing Implementation Guide → Integration with Other SAP Components → Integration Component with SAP Fieldglass → Framework Settings → Mediated Connectivity Settings → Manage and Test Enterprise Services</i>
-----------------	---

2. *SOA Management (<Systemname; Client>)* opens in a separate window. On the *Service Administration* tab, choose the link to *Web Service Configuration*. All services have to be defined in this interface.
3. On the *Web Service Configuration (<Systemname; Client>)* view, select the *Design Time Object Search* tab, enter the following search criteria and choose *Search* to start the search:

Field Name	User Action	Values
<i>Object Type</i>	is	Consumer proxy
<i>Object Name</i>	is	CO_PUR_ORDER_STATUS_NOTIF_OUT

The system displays the outbound service.

Select service `CO_PUR_ORDER_STATUS_NOTIF_OUT`. Select *Internal Name*.



Please note that the service `CO_PUR_ORDER_STATUS_NOTIF_OUT` is public, but extensibility option is not provided.

4. Under *Details of Consumer Proxy: CO\_PUR\_ORDER\_STATUS\_NOTIF\_OUT*, go to the *Configurations* tab and choose *Create – Manual Configuration*.
5. In the guided configuration, you have to do several steps:  
 Step 1 *Logical Port Name*: Make the following entries and choose *Next*.

Field Name	User Action and Values
<i>Logical Port Name</i>	PO_STATUS_NOTIF_OUT
<i>Description</i>	(empty)
<i>Logical Port is Default</i>	Check this Check-box

Step 2 *Consumer Security*: Select the *User ID/Password* checkbox and choose *Next*

Field Name	User Action and Values
<i>User Name</i>	User Name for access the SCP tenant
<i>Password</i>	Password of the user to access the SCP tenant

- o Step 3 *HTTP Settings*: In the *Transport Binding Box*, create the following settings:

Field Name	User Action and Values
<i>URL components</i>	Check the radio button
<i>Protocol</i>	HTTPS
<i>Host</i>	For example, <tenant>-iflmap.hcisb.int.sap.hana.ondemand.com
<i>Port</i>	443
<i>Path</i>	/cxf/Fieldglass/PO_STATUS_NOTIF_OUT
<i>Name of Proxy Host</i>	proxy
<i>Port Number of Proxy Host</i>	8080
<i>Make Local Call</i>	No Call in Local System
<i>Transport Binding Type</i>	SOAP 1.1
<i>Maximum Wait for WS Consumer</i>	0
<i>Optimized XML Transfer</i>	None
<i>Compress HTTP Message</i>	Inactive
<i>Compress Response</i>	TURE

- o Step 4 *SOAP Protocol*, select the value from dropdown list for each item:

Field Name	User Action and Values
<i>RM Protocol</i>	SAP RM
<i>Message ID Protocol</i>	Suppress ID Transfer
<i>Data transfer scope</i>	Minimal Data Transfer
<i>Transfer protocol</i>	Transfer via SOAP header

Then choose *Next*

- o Step 5 *Identifiable Business Context Box*: Do not input anything and choose *Next*
  - o Step 6 *Operation Settings Box*: In the *Transport Binding Box*, select the *Use non-default value* checkbox and choose *Finish*
6. Repeat the previous steps for service `CO_PUR_REQUISITION_STATUS_OUT` with Logical Port `PR_STATUS_OUT`.

Field Name	User Action and Values
<i>Path</i>	/cxf/Fieldglass/PR_STATUS_OUT



Please note that the service `CO_PUR_REQUISITION_STATUS_OUT` is public, but extensibility option is not provided.

### 3.4.3 Configure Integration in SAP Cloud Platform Integration

#### 3.4.3.1 Configure Communication User Credentials using SAP Cloud Platform Integration Web UI

1. Access the Web UI URL from the provisioning e-mail. It should be in the format: `https://<HCI tenant>.hci.us1.hana.ondemand.com/itspaces`.
2. In the *Monitor* tab, navigate to *Manage Security* and select *Security Material*.
3. Select *Add à User Credential* in the lower right corner.

- Maintain a meaningful name (please use the given name: **Fieldglass\_Credential**) – this will be referenced in integration flows – a description, and the user and password. Do not flag the *SuccessFactors* check box.

<i>User Name</i>	The user name to access the Fieldglass web service
<i>Password</i>	The password(license) to access the Fieldglass web service

- Choose *Deploy*.
- Choose *Add à User Credential* in the lower right corner.
- Maintain a meaningful name (please use the given name: **S4OP\_Credential**) – this will be referenced in integration flows – a description, and the user and password. Do not flag the *SuccessFactors* check box.

<i>User Name</i>	The user name to access the S/4HANA On Premise System
<i>Password</i>	The password to access the S/4HANA On Premise System

- Choose *Deploy*.

### 3.4.3.2 Configure and Deploy Integration Flows using HCI Web UI

To be able to import and deploy integration flows, you need the `AuthGroup.IntegrationDeveloper` role assigned in your tenant.

- In the *Discover* tab, find the package *SAP S/4HANA integration with SAP Fieldglass* and copy the four integration flows related to the service procurement integration to the workspace by choosing the button with the tooltip *Copy to Workspace*.
- In the *Design* tab, navigate to the package and click on individual integration flow. Now, choose the *Actions* icon, and select the *Configure* option.
- For the *Purchase Requisition Replicate from SAP Fieldglass to SAP S4HANA* integration flow and *Purchase Order Replicate from SAP Fieldglass to SAP S4HANA* integration flow, the address of connection under the *Receiver* tab should be maintained (please refer to chapter 3.4.1.1 to get the Virtual Host and chapter 3.4.2.1 to get the Web Service). Then choose *Deploy*.

<i>Address</i>	The host name and the web service path, <code>https://&lt;VIRTUAL HOST&gt;/&lt;WEB SERVICE&gt;</code> .
----------------	---

- For *Purchase Requisition Status Update from SAP S4HANA to SAP Fieldglass* integration flow and *Purchase Order Status Update from SAP S4HANA to SAP Fieldglass* integration flow, the address of connection under the *Receiver* tab should be maintained. Then choose *Deploy*.

<i>Address</i>	The host name and the web service path, <code>https://&lt;HOST&gt;/&lt;WEB SERVICE&gt;</code> . For example, <code>https://xxxx.fgvms.com/ws2/services/connectorn</code>
----------------	--

- You should see the message *Deploy Successful* in the console.

## 3.4.4 Basic Settings

### 3.4.4.1 Define Communication Systems for Inbound Messages

- Access the transaction using the following navigation path:

<b>IMG Path</b>	<i>SAP Customizing Implementation Guide @ Integration with Other SAP Components @ Integration for Purchasing @ Basic Settings @ Define Communication Systems for Inbound Messages</i>
-----------------	---

2. On the *Change View “System, service and document type mapping”*: Overview screen, choose *New Entries* to create the following settings and then choose *Save*:

Key Field	Column 1	Column 2
External System ID	Fieldglass	Fieldglass
Proxy Class of Logical Port	II_PUR_PURCHASEORDERERPMNTR Q1	II_PUR_PURCHASE_REQUISITION _R3
Type of External System	Fieldglass System	Fieldglass System
Purchasing Doc. Type	Select the type of purchasing document that you want to be created in SAP S/4HANA, for example FG	Select the type of purchasing document that you want to be created in SAP S/4HANA, for example FG

### 3.4.4.2 Define Communication Systems for Outbound Messages

1. Access the transaction using the following navigation path:

<b>IMG Path</b>	<i>SAP Customizing Implementation Guide @ Integration with Other SAP Components @ Integration for Purchasing @ Basic Settings @ Define Communication Systems for Outbound Messages</i>
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2. On the *Change View “System, service and document type mapping”*: Overview screen, choose *New Entries* to create the following settings and then choose *Save*:

Key Field	Column 1	Column 2
External System ID	Fieldglass	Fieldglass
Proxy Class of Logical Port	CO_PUR_ORDER_STATUS_NOTIF_OUT	CO_PUR_REQUISITION_STATUS_OUT
Logical Port	PO_STATUS_NOTIF_OUT	PR_STATUS_OUT

## 3.5 Extensibility options

### 3.5.1 Fieldglass APIs Extensibility

Please contact the Fieldglass administrator in case of any customer specific extensibility requirements.

### 3.5.2 S/4HANA APIs Extensibility

The table below lists interfaces used in SAP Fieldglass integration scenarios with technical details and extensibility availability.



Technical Name	Application Component	Is public API	Extensibility supported
PurchaseRequisitionReplicationRequest_In	BNS-INT-ARI	No	No
PurchaseRequisitionStatusNotification_Out	MM-PUR-REQ	Yes	No
PurchaseOrderERPRequest_In_V1	BNS-INT-ARI	No	No
PurchaseOrderStatusNotification_Out	MM-PUR-REQ	Yes	No

If your requirements exceed the baseline setup, use the SAP Customizing Implementation Guide in the SAP S/4HANA system. You can make the required settings and define replication models in Customizing for Business Network Integration under Integration with SAP Fieldglass.

### 3.5.3 CPI Extensibility

SAP S/4HANA with SAP Fieldglass-This pre-defined package is in Configure-only mode, which means you can't extend the middleware content as per your customized requirement. For more information, contact your SAP system administrator.