Set-Up Instructions | PUBLIC
SAP S/4HANA
2020-09-17

Setting Up *Just-In-Time Supply to Customer* (2EM)

Content

1 Purpose

IFRS 15 Revenue from Contracts with Customer was issued by the IASB on 28 MAY 2014 and applies to an entity's first annual IFRS financial statements for a period beginning on after 1 January 2018.

Revenue Accounting and Reporting enables the customer to manage revenue recognition in a process that involves the following high-level steps:

- Identify contracts
  In this step, you create revenue contracts corresponding to operational documents that are created on a back-end operational system.
- Identify performance obligations
  In this step, you identify the performance obligations included in each contract. You create performance obligations for items in the operational document and manage their relationships with one another.
- Allocate the transaction price
  In this step, you determine the total price by aggregating the pricing conditions passed from the back-end operational system, and then allocate the total price among the performance obligations.
- Manage fulfillment of performance obligations
  In this step, you recognize revenue for performance obligations as they are fulfilled.
- Make revenue postings
  In this step, you make postings to the general ledger regularly to reflect revenue-related transactions.

This document provides a detailed procedure for testing this scope item after solution activation, reflecting the predefined scope of the solution. Each process step, report, or item is covered in its own section, providing the system interactions (test steps) in a table view. Steps that are not in scope of the process but are needed for testing are marked accordingly. Project-specific steps must be added.

2 On-Premise to Cloud Integration

2.1 Prerequisites

It is mandatory that the Integration of SAP S/4HANA Just-In-Time Supply To Customer (2EM) and Integration of SAP S/4HANA Sales with Procurement (2EL) scope items are active. You can check this in the Manage Your Solution app under View Solution Scope.

If the scope item is not active, request the activation through BCP – Ticket Component: `XX-S4C-OPR-SRV`.

During the activities described in this guide, you are required to enter or provide system-specific information. To ensure a smooth and efficient integration to SAP S/4HANA, ensure that you have the information listed in the following table before starting the integration process:

System	Required information
SAP Cloud Platform Integration System	System details such as URL, username and password
OEM – Customer System	System details such as hostname, URLs, URIs, username and password
Buyer - Supplier System	System details such as hostname, URLs, URIs, username and password

> **i Note**
>
> These are just examples since details depend on the actual receiver system. Liaise with your sender / receiver to get the required system information.

To configure the EDI integration, users require the following business roles in S/4HANA Enterprise Cloud:

- Configuration Expert – Business Network Integration (`SAP_BR_CONF_EXPERT_BUS_NET_INT`)
- Configuration Expert – Business Process Configuration (`SAP_BR_BPC_EXPERT`)

For more information about how to manage business users and business roles, see *Identity and Access Management* in the SAP Help Portal.

2.2 Configuration in SAP S/4HANA Cloud

2.2.1 Application-related Settings

2.2.1.1 Assign Sold-To Party for EDI Processing

In this SAP Fiori master data app, you can define supplier, plant, unloading point and sold-to party.

Procedure

1. Log on to the SAP Fiori launchpad in the SAP S/4HANA Cloud system.
2. The logged in user should have the business role `SAP_BR_INTERNAL_SALES_REP`.
3. Choose *Sales Scheduling Agreement Master Data* > *Assign Sold-to Parties*.
4. On the list page of the SAP Fiori app, you can see all the processing options that are saved in the database as well as the draft processing options.
5. On choosing *Create* icon, you can create a new sold-to party assignment with supplier, plant, unloading point and valid sold-to party.
6. Enter the following details:

Fields	Example Values
Supplier	0000003326 (Number that customers assign to suppliers)
Partner Description (Plant)	P001
Unloading Point	UL01
Sold-To Party	10154801 (DE); 17154801 (US)

7. Choose *Save* (Ensure that the supplier, plant and unloading point combination is unique).

2.2.1.2 Convert External to Internal Partner Number

You can convert the external number belonging to an EDI partner into an internal number.

Procedure

1. Log on to the SAP Fiori launchpad in the SAP S/4HANA Cloud system with role `SAP_BR_BPC_EXPERT`.
2. Choose *Implementation Cockpit* > *Manage Your Solution* > *Configure Your Solution*.
3. On the *Configure Your Solution: Realize Phase* screen, make the following entries:
    - *Application Area*: **`Sales`**
    - *Sub-Application Area*: **`Integration`**
4. In the *Configuration Item* area, choose the entry that has these values and also the *Name* as **`Integration with Buyers`**.

5. In the *Configure Your Solution: Integration with Buyers* screen area, choose the *Configuration Steps* tab.
6. Search for *Convert External to Internal Partner Number* and choose *Configure*.
7. Choose *New Entries*. You can create your own entries as shown in the following example:

Fields	Example Values
Customer Number	**10154801** (DE); **17154801** (US)
Partner Function	**SH** (Ship-To Party)
External Partner Number	**P001**
Internal Partner Number	**10154801** (DE); **17154801** (US)

8. Choose *Save*.

2.2.1.3 Assign Customer/Supplier to Sales Organization Data

You can assign a customer or a supplier to sales organization data for the Electronic Data Interchange (EDI) process.

1. Log on to the SAP Fiori launchpad in the SAP S/4HANA Cloud system.
2. Choose *Implementation Cockpit* > *Manage Your Solution* > *Configure Your Solution*.
3. On the *Configure Your Solution: Realize Phase* screen, make the following entries:
   - *Application Area*: **Sales**
   - *Sub-Application Area*: **Integration**
4. In the *Configuration Item* area, choose the entry that has these values and also the *Name* as **Integration with Buyers**.
5. In the *Configure Your Solution: Integration with Buyers* screen area, choose the *Configuration Steps* tab.
6. Search for *Assign Customer/Supplier to Sales Organization Data* and choose *Configure*.
7. Choose *New Entries*. You can create your own entries as shown in the following example:

Fields	Example Values
Customer Number	**10154801** (DE); **17154801** (US)
Supplier Number	**0000003326** (Number that customers assign to suppliers)
Sales Organization	**1010** (DE); **1710** (US)
Distribution Channel	**10**
Division	**00**
Sales Document Type	**LZJ**

8. Choose *Save*.

2.2.1.4 BRF+ Settings

2.2.1.4.1 BRF+ Settings Generic for Delivery Document and Picking List

Procedure

1. Proceed to *Output Control* > *Output Parameter Determination* .
   Web browser launches, and the *Output Parameter Determination* screen is displayed.
2. In the *Select Business Rules* section, enter the required details:
   - *Show Rules for*: **`Outbound Delivery`**
   - *Determination Step*: **`Form Template`**

   Details are displayed in the *Maintain Business Rules* section.
3. Carry out the following:
   1. Expand the *Maintain Business Rules* section and choose *Edit*.
   2. Choose *Table Settings*. Choose *Insert Column*.
   3. Select *From Context Data Objects...*
   4. Select *JIT-Relevant*.
   5. Choose *OK*.
   6. In *Condition Columns*, select **`ISJITRELEVANT`**.
   7. Choose *OK*.

   Now the *JIT-Relevant* field appears in the *Table Contents*.
4. Choose *Activate* **`(Ctrl-A)`**.
   Contents are activated.

2.2.1.4.2 BRF+ Settings Specific for Delivery Document

Use

In this Customizing activity, you define how the system determines output parameters for the Delivery Document.

Prerequisites

You must have the user and password along with authorization to access the SAP S/4HANA Cloud system.

Procedure

1. Proceed to *Output Control* > *Output Parameter Determination* .
   Web browser launches, and the *Output Parameter Determination* screen is displayed.
2. In the *Select Business Rules* section, enter the required details:
   - *Show Rules for*: **`Outbound Delivery`**
   - *Determination Step*: **`Output Type`**

Details are displayed in the *Maintain Business Rules* section.

3. Expand the *Maintain Business Rules* section and choose *Edit*. In *Table Contents*, choose *Insert New Row* and enter the following:
    - **<Next higher number automatically generated>**
    - *Delivery Type*: **<blank>**
    - *Output Type*: Select **Direct Value Input**, then search for and select **DELIVERY_NOTE (Delivery Note)** in the dialog box that opens.
    - *Dispatch Time*: **1 (Immediately)**

    Now the *JIT-Relevant* field appears in the *Table Contents*.
4. Choose *Activate* **(Ctrl-A)**.
    Rules are activated.
5. *Determination Step*: **Receiver**
    Details are displayed in the *Maintain Business Rules* section.
6. Expand the *Maintain Business Rules* section and choose *Edit*. In *Table Contents*, choose *Insert New Row* and enter the following:
    - **<Next higher number automatically generated>**
    - *Output Type*: Select **Direct Value Input**, then search for and select **DELIVERY_NOTE (Delivery Note)** in the dialog box that opens.
    - *Role*: **WE**
    - *Exclusive Indicator*: **- (false)**
7. Choose *Activate* **(Ctrl-A)**.
    Rules are activated.
8. *Determination Step*: **Channel**
    Details are displayed in the *Maintain Business Rules* section.
9. Expand the *Maintain Business Rules* section and choose *Edit*. In *Table Contents*, choose *Insert New Row* and enter the following:
    - **<Next higher number automatically generated>**
    - *Output Type*: Select **Direct Value Input**, then search for and select **DELIVERY_NOTE (Delivery Note)** in the dialog box that opens.
    - *Role*: **WE**
    - *Recipient*: **<blank>**
    - *Channel*: **PRINT (Printout)**
    - *Exclusive Indicator*: **<blank>**
10. Choose *Activate* **(Ctrl-A)**.
    Rules are activated.
11. *Determination Step*: **Printer Settings**
    Details are displayed in the *Maintain Business Rules* section.
12. Expand the *Maintain Business Rules* section and choose *Edit*. In *Table Contents*, choose *Insert New Row* and enter the following:
    - **<Next higher number automatically generated>**
    - *Output Type*: Select **Direct Value Input**, then search for and select **DELIVERY_NOTE (Delivery Note)** in the dialog box that opens.
    - *Role*: **<blank>**
    - *Recipient*: **<blank>**
    - *Shipping Point*: **<blank>**

- *Print Queue*: **DEFAULT**
- *Number of Copies*: **1**

13. Choose *Activate* **(Ctrl-A)**.
    Rules are activated.
14. *Determination Step*: **Form Template**
    Details are displayed in the *Maintain Business Rules* section.
15. Expand the *Maintain Business Rules* section and choose *Edit*. In *Table Contents*, choose *Insert New Row* and enter the following:
    - **<Next higher number automatically generated>**
    - *Output Type*: Select **Direct Value Input**, then search for and select **DELIVERY_NOTE (Delivery Note)** in the dialog box that opens.
    - *Role*: **<blank>**
    - *Recipient*: **<blank>**
    - *Channel*: **PRINT (Printout)**
    - *Sender Country*: **<blank>**
    - *Recipient Country*: **<blank>**
    - *Recipient Language*: **<blank>**
    - *Authorization*: **<blank>**
    - *JIT-Relevant*: **X (true)**
    - *Form Template*: **FDP_NJIT_DELIVERY_NOTE_V1**
    - *Form Language*: **<blank>**

    > **i Note**
    >
    > This rule must be at the top or below the `DELIVERY_PICK_LIST` rule.

16. Choose *Activate* **(Ctrl-A)**.
    Rules are activated.
17. *Determination Step*: **Output Relevance**
    Details are displayed in the *Maintain Business Rules* section.
18. Expand the *Maintain Business Rules* section and choose *Edit*. In *Table Contents*, choose *Insert New Row* and enter the following:
    - **<Next higher number automatically generated>**
    - *Output Type*: Select **Direct Value Input**, then search for and select **DELIVERY_NOTE (Delivery Note)** in the dialog box that opens.
    - *OvrlGdsMvtStat*: **C (Completely processed)**
    - *Delivery Cat.*: **J (Delivery)**
    - *Ovr.Pick.Status*: **<blank>**
    - *OverallWMStatus*: **<blank>**
    - *StatDecntrlWhse*: **<blank>**
    - *Relevance Indicator*: **X (true)**
19. Choose *Activate* **(Ctrl-A)**.
    Rules are activated.

2.2.1.4.3 BRF+ Settings Specific for Picking Document

Use

In this Customizing activity, you define how the system determines output parameters for the Picking Document.

Prerequisites

You must have the user and password along with authorization to access the SAP S/4HANA Cloud system.

Procedure

1. Proceed to *Output Control* > *Output Parameter Determination*.
   Web browser launches, and the *Output Parameter Determination* screen is displayed.
2. In the *Select Business Rules* section, enter the required details:
   - *Show Rules for*: **Outbound Delivery**
   - *Determination Step*: **Output Type**

   Details are displayed in the *Maintain Business Rules* section.
3. Expand the *Maintain Business Rules* section and choose *Edit*. In *Table Contents*, choose *Insert New Row* and enter the following:
   - **<Next higher number automatically generated>**
   - *Delivery Type*: **<blank>**
   - *Output Type*: Select **Direct Value Input**, then search for and select **DELIVERY_PICK_LIST(Delivery picking list)** in the dialog box that opens.
   - *Dispatch Time*: **1 (Immediately)**

   Now the *JIT-Relevant* field appears in the *Table Contents*.
4. Choose *Activate* **(Ctrl-A)**.
   Rules are activated.
5. *Determination Step*: **Receiver**
   Details are displayed in the *Maintain Business Rules* section.
6. Expand the *Maintain Business Rules* section and choose *Edit*. In *Table Contents*, choose *Insert New Row* and enter the following:
   - **<Next higher number automatically generated>**
   - *Output Type*: Select **Direct Value Input**, then search for and select **DELIVERY_PICK_LIST(Delivery picking list)** in the dialog box that opens.
   - *Role*: **WE**
   - *Exclusive Indicator*: **- (false)**
7. Choose *Activate* **(Ctrl-A)**.
   Rules are activated.
8. *Determination Step*: **Channel**
   Details are displayed in the *Maintain Business Rules* section.
9. Expand the *Maintain Business Rules* section and choose *Edit*. In *Table Contents*, choose *Insert New Row* and enter the following:
   - **<Next higher number automatically generated>**
   - *Output Type*: Select **Direct Value Input**, then search for and select **DELIVERY_PICK_LIST(Delivery picking list)** in the dialog box that opens.
   - *Role*: **WE**

- *Recipient*: **<blank>**
- *Channel*: **PRINT(Printout)**
- *Exclusive Indicator*: **<blank>**

10. Choose *Activate* **(Ctrl-A)**.
    Rules are activated.
11. *Determination Step*: **Printer Settings**
    Details are displayed in the *Maintain Business Rules* section.
12. Expand the *Maintain Business Rules* section and choose *Edit*. In *Table Contents*, choose *Insert New Row* and enter the following:
    - **<Next higher number automatically generated>**
    - *Output Type*: Select **Direct Value Input**, then search for and select **DELIVERY_PICK_LIST(Delivery picking list)** in the dialog box that opens.
    - *Role*: **<blank>**
    - *Recipient*: **<blank>**
    - *Shipping Point*: **<blank>**
    - *Print Queue*: **DEFAULT**
    - *Number of Copies*: **1**
13. Choose *Activate* **(Ctrl-A)**.
    Rules are activated.
14. *Determination Step*: **Form Template**
    Details are displayed in the *Maintain Business Rules* section.
15. Expand the *Maintain Business Rules* section and choose *Edit*. In *Table Contents*, choose *Insert New Row* and enter the following:

    > **i Note**
    >
    > This rule must be at the top or below the `DELIVERY_NOTE` rule.

    - **<Next higher number automatically generated>**
    - *Output Type*: Select **Direct Value Input**, then search for and select **DELIVERY_PICK_LIST(Delivery picking list)** in the dialog box that opens.
    - *Role*: **<blank>**
    - *Recipient*: **<blank>**
    - *Channel*: **PRINT (Printout)**
    - *Sender Country*: **<blank>**
    - *Recipient Country*: **<blank>**
    - *Recipient Language*: **<blank>**
    - *Authorization*: **<blank>**
    - *JIT-Relevant*: **X (true)**
    - *Form Template*: **FDP_NJIT_PICKING_LIST_V1**
    - *Form Language*: **<blank>**

    > **i Note**
    >
    > This rule must be at the top or below the `DELIVERY_PICK_LIST` rule.

16. Choose *Activate* **(Ctrl-A)**.

Rules are activated.

17. *Determination Step*: **Output Relevance**
    Details are displayed in the *Maintain Business Rules* section.
18. Expand the *Maintain Business Rules* section and choose *Edit*. In *Table Contents*, choose *Insert New Row* and enter the following:
    - **<Next higher number automatically generated>**
    - *Output Type*: Select **Direct Value Input**, then search for and select **DELIVERY_PICK_LIST(Delivery picking list)** in the dialog box that opens.
    - *OvrlGdsMvtStat*: **C (Completely processed)**
    - *Delivery Cat.*: **J(Delivery)**
    - *Ovr.Pick.Status*: **A (Not yet processed) and C (Completely processed)**
    - *OverallWMStatus*: **<blank>**
    - *StatDecntrlWhse*: **<blank>**
    - *Relevance Indicator*: **X (true)**
19. Choose *Activate* **(Ctrl-A)**.
    Rules are activated.

2.2.1.4.4 BRF+ Settings Specific for Advanced Shipping Notice

Use

In this Customizing activity, you define how the system determines output parameters for Advance Shipping Notice (ASN).

Prerequisites

You must have the user and password along with authorization to access the SAP SAP S/4HANA Cloud system.

Procedure

1. Proceed to *Output Control* > *Output Parameter Determination*.
   Web browser launches, and the *Output Parameter Determination* screen is displayed.
2. In the *Select Business Rules* section, enter the required details:
   - *Show Rules for*: **Outbound Delivery**
   - *Determination Step*: **Output Type**

   Details are displayed in the *Maintain Business Rules* section.
3. Expand the *Maintain Business Rules* section and choose *Edit*. In *Table Contents*, choose *Insert New Row* and enter the following:
   - **<Next higher number automatically generated>**
   - *Delivery Type*: **<blank>**
   - *Output Type*: Select **Direct Value Input**, then search for and select **DELIVERY_NOTE (Delivery Note)** in the dialog box that opens.
   - *Dispatch Time*: **1(Immediately)**

   Now the *JIT-Relevant* field appears in the *Table Contents*.

4. Choose *Activate* **(Ctrl-A)**.
   Rules are activated.
5. *Determination Step*: **Receiver**
   Details are displayed in the *Maintain Business Rules* section.
6. Expand the *Maintain Business Rules* section and choose *Edit*. In *Table Contents*, choose *Insert New Row* and enter the following:
   - **<Next higher number automatically generated>**
   - *Output Type*: **<blank>**
   - *Role*: **WE**
   - *Exclusive Indicator*: **- (false)**
7. Choose *Activate* **(Ctrl-A)**.
   Rules are activated.
8. *Determination Step*: **Channel**
   Details are displayed in the *Maintain Business Rules* section.
9. Expand the *Maintain Business Rules* section and choose *Edit*. In *Table Contents*, choose *Insert New Row* and enter the following:
   - **<Next higher number automatically generated>**
   - *Output Type*: Select **Direct Value Input**, then search for and select **DELIVERY_NOTE (Delivery Note)** in the dialog box that opens.
   - *Role*: **WE**
   - *Receiver ID*: **<blank>**
   - *Channel*: **-EDI (EDI)**
10. Choose *Activate* **(Ctrl-A)**.
    Rules are activated.
11. *Determination Step*: **Output Relevance**
    Details are displayed in the *Maintain Business Rules* section.
12. Expand the *Maintain Business Rules* section and choose *Edit*. In *Table Contents*, choose *Insert New Row* and enter the following:
    - **<Next higher number automatically generated>**
    - *Output Type*: Select **Direct Value Input**, then search for and select **DELIVERY_NOTE (Delivery Note)** in the dialog box that opens.
    - *Document Cat.*: **J (Delivery)**
    - *TotalGdsMvtStat:* : **C (Completely processed)**
    - *Relevance Indicator*: **X (True)**
13. Choose *Activate* **(Ctrl-A)**.
    Rules are activated.

2.2.1.5 Assign Recipients

Procedure

1. Log on to the SAP Fiori Launchpad in the SAP S/4HANA Cloud system.
2. Select *Message Monitoring* > *Assign Recipients*.

3. Enter *Namespace* as **/NJIT** and *Recipient for Alert* as **JIT_CALLS_RECIPIENT**.
4. Choose *Execute*.
5. On the *Recipients (Cloud Edition)* screen, choose *Append Row*.
6. Make the following settings:

Alias	Message Type	Include on Overview	Tech. User
ADMINISTRATOR (for example)	Application Error or Technical Error	Set flag	Set flag

7. Save your changes.
8. Repeat steps 3 to 7 for both *Namespace* and *Recipient for Alert*.

Namespace	Recipient for Alert
/NJIT	**EDI_SD_CONF_RECIPIENT**
/LEEDI	**EDI_DELOUT_RECIPIENT**

2.2.2 Communication-Related Settings

A communication arrangement is required for the event propagation between SAP S/4HANA Cloud and the SAP Cloud Platform Integration environment. This must be activated in SAP S/4HANA for communication with web services.

> **i Note**
>
> For these settings, the business user must have a business role containing the business catalog `SAP_CORE_BC_COM` (Communication Management), for example, `SAP_BR_CONF_EXPERT_BUS_NET_INT`.

2.2.2.1 Download Client Certificate in SAP Cloud Platform Integration

Note that this step is relevant only for certificate-based authentication.

1. Log on as Cloud Platform Integration Administrator to your SAP Cloud Platform Integration tenant web UI (for example, **https://<your SAP Cloud Platform Integration tenant URL>/itspaces**).
2. Download the SAP Cloud Platform Integration certificates from here .
3. Enter or select the file path to store the certificates on your local system.

2.2.2.2 Create Communication User

1. Log on to the SAP Fiori launchpad in the SAP S/4HANA Cloud Supplier system.
2. Choose *Communication Management*, then choose *Maintain Communication Users*.
3. Choose *New*.
4. Enter a username and description.
5. Assign a password for the user to use basic authentication. Alternatively, assign the SAP Cloud Platform Integration public client certificate to the user for certificate-based authentication.
6. For basic authentication, enter a password in the *Password* field.
7. For certificate-based authentication, select *Upload Certificate* (exported from SAP Cloud Platform Integration KeyStore).
8. For more information, see *Download Client Certificate* in SAP Cloud Platform Integration chapter.
9. Choose *Save*.
10. Note down the user data for further steps.

2.2.2.3 Create Communication System

1. Open the *Communication Systems* app by choosing *Communication Management* > *Communication Systems*.
2. Choose *New* to create a new communication system.
3. On the *New Communication System* screen, enter the required details:
   - *ID*: <CPI Tenant ID>, for example
   - *System Name*: <CPI Tenant ID>, for example.
4. Choose *Create*.
5. On the *Communication Systems* screen, do as follows:
   - Enter *Host Name* as **`<IFLMAP hostname for SAP CPI Tenant>`**.

     > **i Note**
     >
     > The IFLMAP hostname can be accessed in the *Overview* tab of the SAP CPI tenant under the *Manage Integration Content* section after the integration flows mentioned below have been deployed.
     >
     > While creating this communication system, give a dummy hostname and replace it later with the actual IFLMAP hostname obtained.

   - Add a business partner.
   - In the *User for Inbound Communication* area, choose *Add*.
   - On the *New Inbound Communication User* screen, enter the following details:

Fields	Example Values
User Name	**`<user name created in the previous chapter>`**

Fields	Example Values
Authentication Method	**<User Name and Password or SSL Client Certificate>**

6. Choose *OK*.
7. Choose *Save*.

2.2.2.4 Create Communication Arrangement

1. Open the *Communication Systems* app by choosing *Communication Management* › *Communication Systems* .
2. Choose *New*.
3. On the *New Communication Arrangements* screen, enter the required details:
    - *Scenario*: **SAP_COM_0168**
    - Choose *Create*.
4. On the *Communication Arrangements* screen, enter the required details:
    - *Communication System*: **<Select the communication system created in the previous chapter, for example, CPI Tenant ID>**
5. Choose *Save*.
6. Choose the back button and choose *New* again.
7. On the *New Communication Arrangements* screen, enter the required details:
    - *Scenario*: **SAP_COM_0223**
    - Choose *Create*.
8. On the *Communication Arrangements* screen, enter the required details:
    - *Communication System*: **<Select the communication system created in the previous chapter, for example, CPI Tenant ID>**
    - *Outbound Services*:

Service	Field	Value
Outbound Delivery – Notify	*Path*	**/cxf/EDI/DeliveryRequest_In**

9. Deactivate the outbound services *Sales Order/Customer Return* and *Customer Invoice*.
10. Choose *Save*.

2.2.3 Getting the Endpoint URL

1. Go to the *Monitor* tab screen in the navigation panel to the left.

2. Select *Manage Integration Content* > *All*.
3. From the displayed integration flows, select *Create Just-In-Time calls in SAP S/4 HANA – Supplier*. Details of the integration flow are displayed.
4. Copy the endpoint.

> **Note**
>
> Endpoint URL is required to set up the RFC destination.

2.3 Configuration in SAP Cloud Platform Integration

2.3.1 SAP Cloud Platform Integration User for Basic Authentication

Basic authentication with a user and password is possible. However, it is not recommended in a productive environment due to security reasons.

To connect the On-Premise system to the SAP Cloud Platform integration service, you require an SAP Cloud Platform integration service user with the appropriate roles assigned. This should be a generic user. Ideally, an explicit SAP SCN user must be created for this.

To create an explicit SAP SCN user, refer to the following blog: https://blogs.sap.com/2018/08/17/creating-a-technical-user-for-cloud-platform-integration/

Procedure

1. Log on to your SAP HANA Cloud Platform Cockpit.
2. Add the SCN user to your SAP CPI tenant and give it the role **`Support User`**.
3. Choose *Security* > *Authorizations*.
4. To use an SNC user for basic authentication, assign it the following roles:
   - `AuthGroup.IntegrationDeveloper`
   - `AuthGroup.BusinessExpert`
   - `esbmessagestorage.read`
   - `ESBMessaging.send`

2.3.2 Deploy Technical Communication User Data with Credential Artifact

Context

> **i Note**
>
> In the *Communication Arrangement* chapter, a communication user in your SAP S/4HANA Cloud (Customer and Supplier) system was created. You must store these credentials in your SAP Cloud Platform Integration tenant as *User Credentials*.

Procedure

1. Open the SAP Cloud Platform Integration tenant web UI. For example, **`https://<your SAP Cloud Platform Integration tenant URL>/itspaces`**.
2. In the *Tenant* menu, choose *Monitor*.
3. Choose the *Security Material* tile in the *Manage Security Material* section.
4. Choose *Add*.
5. Select *User Credentials*.
6. Enter the following values in the *Add User Credentials* dialog box:

Fields	Entry
Name	**`<For example, S2C_JIT_Credential>`**
Description	**`<Optional>`**
User	**`<User alias name of technical user. Enter the username created in communication user.>`**
Password	**`<Enter the password of technical user>`**

7. Choose *OK* to save the credentials.
8. Repeat steps 3 to 6 for the SCN P-User created earlier.

2.3.3 Deployment and Configuration of Integration Packages

2.3.3.1 Copying Integration Package from Content Catalog

1. Open the SAP Cloud Platform integration service tenant web UI. For example, **`https://<your SAP Cloud Platform, integration service tenant URL>/itspaces`**.
2. In the *Tenant* menu, choose *Discover*.
3. Select *All* to see all the published integration packages.
4. Search for the integration package name *SAP S/4HANA Cloud Integration with SAP ERP or SAP S/4HANA - Just-In-Time Supply*.
5. Choose the package to display the package content.
6. To copy the integration package of the catalog to your customer workspace, choose *Copy Package* in the upper right corner.
7. In the *Tenant* menu, choose *Design*.
8. On the *Design* tab page, select the integration package that you copied.
9. An overview of the artifacts available in the selected integration package is displayed. The following artifact is provided: *Create Just-In-Time Calls in SAP S/4HANA – Supplier*.

2.3.3.2 Deployment and Configuration of Create Just-In-Time Calls in SAP S/4HANA – Supplier Integration Flow

1. Open the SAP Cloud Platform Integration tenant web UI. For example, **`https://<your SAP Cloud Platform Integration tenant URL>/itspaces`**.
2. In the *Tenant* menu, choose *Design*.
3. On the *Design* tab page, select the integration package *SAP S/4HANA Cloud Integration with SAP ERP or SAP S/4HANA - Just-In-Time Supply*, which contains the integration flows objects.
4. To configure, choose *Configure* in the *Actions* column of the *Create Just-In-Time Calls in SAP S/4HANA – Supplier* artifact.
5. Enter the relevant details on the *Sender* tab page:

Fields	Entry
Sender	**`NJIT_OEM`**
Adapter Type	**`IDOC`**
IDoc Endpoint	**`/EDI/IDoc_Endpoint`** This address must be unique on SAP Cloud Platform Integration tenant. If you want to deploy this scenario twice on the same tenant, change this address.
Authorization	**`Role-Based Authorization`**
For User Role	**`ESBMessaging.send`**

6. Enter the relevant details on the *Receiver* tab page:

Fields	Entry
Sender	**NJIT_SUPPLIER**
Adapter Type	**SOAP**
Address	**<SOAP SERVICE URL>** Check the communication arrangement created in *Create Communication Arrangement - Service URL*
Proxy Type	*On-Premise* if SAP Cloud Connector is used. *Internet* if SAP Cloud Connector is NOT used.
Authentication	**Basic**
Credential	

7. Select *Mail Exception* as **Receiver** and enter the relevant details:

Fields	Entry
Address	**<mail Server>**
Proxy Type	**None**
Protection	**STARTTLS Mandatory**
Credential Name	**<Credential_name>**
From	**<From@email.com>**
To	**<To@email.com>**
CC	**<ccto@email.com>**
Subject	**<Enter the subject of the email>**
Mail Salutation	**<Enter as required>**
Mail Body	**<Enter as required>**
Mail Ending	**<Enter as required>**

8. Choose *Save*.
9. Choose *Deploy* to directly deploy the integration flow.

2.3.3.3 Deployment and Configuration of Advanced Shipping Notification Integration Flow

1. Open the SAP Cloud Platform Integration tenant web UI. For example, **`https://<your SAP Cloud Platform Integration tenant URL>/itspaces`**.
2. In the *Tenant* menu, choose *Design*.
3. On the *Design* tab page, select the package *SAP Next Generation Just-In-Time Supply – Supplier Integration with SAP S/4HANA*, which contains the integration flows objects.
4. To configure, choose *Configure* in the *Actions* column of the *Advanced Shipping Notification* artifact.
5. Enter the relevant details on the *Sender* tab page:

Fields	Entry
Sender	**`S4CESupplier`**
Adapter Type	**`SOAP`**
Address	**`/EDI/DeliveryRequest_in`** This address must be unique on SAP Cloud Platform Integration tenant. If you want to deploy this scenario twice on the same tenant, change this address.
Authorization	**`Role-based Authentication or Certificate-based Authentication`**
For Certificate Authentication	Choose *Browse* and select the stored certificate (see *Export S/4 HANA Cloud Supplier Public Certificate*).
For User Role	**`ESBMessaging.send`**
Body Size (in MB)	**`40 (keep default)`**
Attachment Size (in MB)	**`100 (keep default)`**

6. Enter the relevant details on the *Receiver* tab page for the receiver OPBuyer:

Fields	Entry
Receiver	**`OPBuyer`**
Adapter Type	**`IDOC`**

Fields	Entry
Address	Using Reverse Proxy/Webdispatcher: **`https://<ReverseProxy/Webdispatcher host>:<ReverseProxy/Webdispatcher port>/sap/bc/srt/idoc?sap-client=<OP_Client>`** Using Cloud Connector: **`https://<opbuyer_virtual_host_defined in Cloud Connector>:<opbuyer _virtual_port defined in Cloud Connector>/sap/bc/srt/idoc?sap-client=<OP_Client>`** Ensure that the host and port of the On-Premise system are accessible through public network. Reverse proxy/SAP Web-dispatcher or Cloud Connector, depending on customer landscape, can be used to expose On-Premise system to the public. The usage of a Cloud Connector is recommended. Details for configuring a Cloud Connector are available in the SAP Help Portal.
Proxy Type	Internet (Reverse proxy/SAP Webdispatcher) or On-Premise (Cloud Connector)
Authentication	Basic Authentication or Certificate Authentication (for Cloud Connector, only **`Basic`** or **`None`**)
Credential Name (only for basic authentication)	**`opbuyer_credential`** (Enter the name from *Deploy Technical Communication User Data with Credential Artifact*)
Private Key Alias (for Certificate-based Authentication)	**`private_key_alias`** Alias for SSL Keypair in SAP Cloud Platform Integration key-store. For example, **`hcicertificate`** (provided by SAP) For more information about certificate to user mapping, see *Configure SSL Client certificates for On-Premise*.
Allow Chunking	**`<Select this option>`**
Clean-up Request Headers	**`<Select this option>`**

7. If you want to implement mapping extension for this integration flow, enter the relevant details on the *Receiver* tab page for **SOA2IDoc_DeliveryCustomMapping_iFlow**:

Fields	Entry
Adapter Type	**ProcessDirect**
Address	**/EDI/DeliveryRequest_CustomMap** This address must be unique on SAP Cloud Platform Integration Tenant. If this scenario has to be deployed twice on the same tenant, change this address. In addition to that, the address maintained here must be the same as the one defined for the sender *ProcessDirect* adapter in the corresponding delivery custom integration flow.

For more information about the mapping extension process, refer to the *Developing and Deploying Mapping Extensions for Integration Package* chapter.

8. Enter the relevant details on the *Receiver* tab page for SAP Cloud Platform Integration error mail notification: (Optional - Keep default values if *MailNotification* is not active)

Field Name	Value
Receiver	**CPI_Error**
Adapter Type	**Mail**
Address	**smtp.server.com:port** Enter SMTP mail server details, for example, **smtp.gmail.com:587**. By default, the ports 587 (SMTP + STARTTLS) and 465 (SMTPS) are supported.
Protection	**STARTTLS Mandatory** (Settings depend on the mail provider.)
Authentication	**<Plain User/Password>** (Settings depend on the mail provider.)
Credential Name	**<MailUserCredential>**
From	**<from@mail.com>**
To	**<to@mail.com>**
Subject	**SAP CPI process error**
Mail Body	**${in.body}** If you want to receive the complete error log, keep the mail body unchanged.

Field Name	Value
Body Mime-Type	Text/Plain
Body Encoding	UTF-8
Add Message Attachments	<Do not select this option>

9. Enter the relevant details on the *More* tab page:

Field Name	Value
EnableLogging	Set to **`True`** if payload must be logged as an attachment to Message Processing Log (MPL). The attachments can be found in the message details under *Web UI* > *Operations View* > *Monitor Message Processing*. Default is **`false`** (recommended for better performance).
ExtensionRequired	**`False`** Set it to **`True`** if you want to activate the extension process.
MailNotification	For SAP HANA Cloud Platform, if you require mail notifications for integration service errors and SAP S/4HANA Cloud Sales errors, enter **`True`** to set as active.
ReceiverPartner	**`<Logical system name of SAP On-Premise system in the format SIDCLNTXXX, where SID is the system ID of SAP On-Premise system and XXX denotes client number (as defined in transaction WE20 under Partner Type LS)>`** This is used to populate *RCVPRN* field in IDoc.
ReceiverPort	**`<Free text to be mapped to the RCVPOR field in IDoc in the format SAPSID, where SID is the system ID of the SAP On-Premise system>`** This is used to populate the *RCVPOR* field in IDoc.
SenderPartner	**`<Logical system name of SAP S/4HANA as explained in the Define Logical System chapter>`** (Can be checked using transaction) This is used to populate the *SNDPRN* field in IDoc.

Field Name	Value
SenderPartnerType	**<Partner type of SAP S/4HANA as explained in the Define Logical System chapter>** (Can be checked using transaction WE20) This is used to populate the *SNDPRT* field in IDoc.
SenderPort	**<Free text to be mapped to the RCVPOR field in IDoc>** For example, the logical system name in *Define Logical System*.

10. Choose *Save*.
11. Choose *Deploy* to directly deploy the integration flow.

2.4 Configuration on Customers' On-Premise System (OEM)

2.4.1 ALE Configuration – OEM System

2.4.1.1 Define Logical System

Use

You can create a logical system that represents the SAP Cloud Platform Integration (SAP CPI) tenant. Logical settings are cross-client.

Note that you must already have the logical system defined for SAP ERP system.

Procedure

1. Go to transaction `BD54`.
2. Choose *New Entries*.
3. Create a logical system that identifies the Cloud system as given in the following table:

Fields	Entry
Logical System	**<Logical system for SAP CPI tenant>**

Fields	Entry
Name	**`<Description, for example, SAP Cloud Platform Integration <Tenant ID>>`**

4. Choose *Save* and select or create a workbench request.
5. Choose *OK* to confirm.

2.4.1.2 Create RFC Destination

Use

You must set up an RFC destination for sending IDocs from SAP S/4HANA On-Premise to SAP Cloud Platform Integration.

Procedure

1. Go to transaction `SM59`.
2. Choose *Create* and enter the following values on the *Technical Settings* tab:

Fields	Entry
RFC Destination	**`<Enter free text, for example, JITREQUESTSEND>`**
Connection Type	**`G`**
Description	**`<Enter a description, for example, RFC destination to send JIT calls to vendors>`**

3. Choose *Enter* and enter the following details:

Fields	Entry
Target Host	**`<Enter free text, for example, cd5n06-iflmap.hcisb.int.sap.hana.ondemand.com>`**
Service No.	**`<Port number, for example, 443>`**
Path Prefix	**`<Path prefix, for example, /cxf/EDI/>`** **i Note** ○ Endpoint URL of the SAP CPI process configured ○ Ensure that the endpoint is not the same as that of any other integration flow deployed in your tenant.

4. Go to *Logon & Security* tab and make the following settings:
   - Select the *For Basic Authentication* option.
   - Enter the SAP Cloud Platform Integration user and password.
   - In *Security Options Category*, specify *SSL* as **`Active`** and *SSL Certificate* as **`Anonymous`**.
5. Choose *Save*.
6. Choose *Connection Test* to test the connection. A response of 500 indicates that the connection is established successfully.

2.4.1.3 Maintain Ports in IDoc Processing

A port is a way to identify a specific process to which an Internet message or other network message is to be forwarded when it arrives at a server.

In this chapter, you configure the transactional XML HTTP port for ALE communication.

Procedure

1. Go to transaction `WE21`.
2. On the *Ports in IDoc Processing* screen, select the *XML HTTP* folder in the tree structure.
3. Choose *Create* and make the following settings:

Fields	Entry
Port	**`<Enter the port, for example, JITREQ>`**
Type	**`XML HTTP`**
Description	**`<Enter the description, for example, XML HTTP port Just-In-Time Supply>`**
RFC Destination	**`<Enter RFC destination you have created, for example, JITREQUESTSEND>`**
Content Type	**`Text/XML`**
SOAP Protocol	**`<Select the checkbox>`**

   Note that you must set up XML-HTTP ports for each of the different IDoc types.

4. Choose *Save*.
5. Choose *Back* to return to *SAP Easy Access* menu.

Result

Port is created and saved.

2.4.1.4 Create Condition Records

Procedure

1. Go to transaction PJNK1.
2. Enter *Output Type* as **OJIT** (Outbound JIT Call)
3. Enter the following details:

Fields	Entry
Plant	**US**
JC profile	**<EPR user>**
Vendor	**<Vendor number, for example, 3178>**
Function	**VN (Supplier)**
Transmission Medium	**6 (EDI)**
Date and Time	**4 (Send immediately when saving the application)**
Language	**EN**

4. Choose *Save*.

2.4.1.5 Create Partner Profile

Partner profiles are a prerequisite for data exchange. This involves defining who can exchange what kind of messages with an SAP system and using which port.

Procedure

1. Go to transaction WE20.
2. In the *Partner Profiles* folder, go to *Partner* > *Partner Profiles* > *Partner Type LI (Vendor)*.
3. Choose *Create*.
4. Enter *Partner No.* (This should be the number of the vendor who will receive the JIT calls).
5. Enter the following details:

Fields	Entry
Ty.	**US**
Agent	**<EPR user>**
Lang.	**EN**

6. Choose the *Create Outbound Parameter* icon to maintain the following Outbound Parameters:

Fields	Entry
Partner Type	**LI**
Partner Role	**VN (Supplier)**
Message Type	**SEQJIT**
Receiver Port	**<Maintain the port created in previous steps>**
Basic Type	**SEQJIT03**

Note that you select the *Pass IDoc Immediately* checkbox.

7. Choose the *Create Inbound Parameter* icon to maintain the following Inbound Parameters:

Fields	Entry
Partner Type	**LI**
Partner Role	**VN (Supplier)**
Message Type	**DESADV**
Process Code	**DELS**
Basic Type	**DELVRY07**

8. For the entry in the previous table, choose the *Message Control* tab and enter values as required:

Fields	Entry
Application	**PA**
Message Type	**OJIT**
Process Code	**SJCL**
Change Message	**Not Selected**

3 Troubleshooting and Log

In the SAP Cloud Platform Integration web UI, you can analyze the deployed integration flows in the *Monitoring* section as follows:

Procedure

1. To carry out the activity, open your SAP Cloud Platform Integration tenant web UI, for example, **`https://<your SAP Cloud Platform Integration tenant URL>/itspaces`**.
2. In the *Tenant* menu, choose *Monitor* > *Monitor Message Processing*.
3. On the *Overview* screen, choose the tile with the message status you wish to analyze.
4. On the left, select the integration flow you wish to analyze.
5. Access the *Message Processing Log* from the *Log* tabs.

4 Appendix

4.1 Ticket Component

In case of errors with the integration content, open a customer ticket in component `LE-JIT`.

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