

PUBLIC

Configuration Instructions

**SAP Business Network Material Traceability
enhanced for Catena-X Notifications**

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Disclaimer

The integration flows/integration package provided herein are intended to serve as an intermediate solution. Please be advised that, at a later point in time, the functionalities of the iflow may have a successor functionality, resulting in the deprecation of these iflows and restricted support. Advanced information will be given to consumers before the deletion of these iflows.

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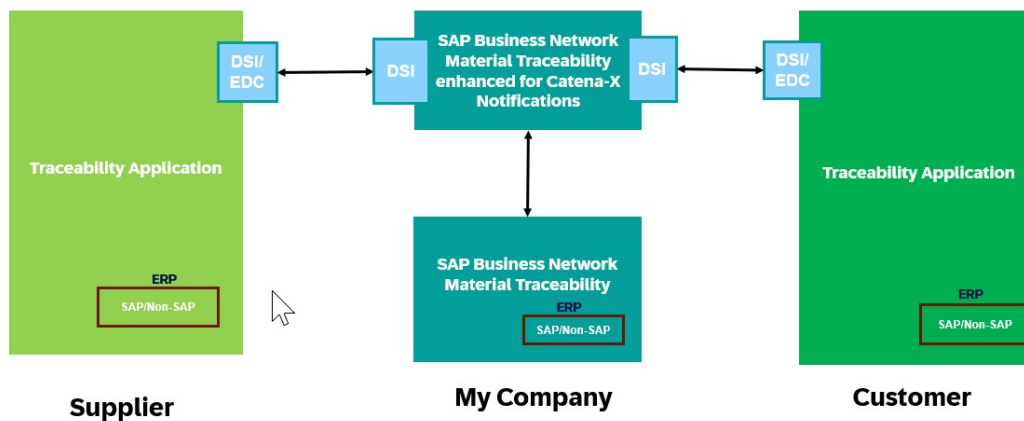
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Introduction

This document is a step-by-step instruction how to install and configure the published Package “**SAP S/4HANA Integration with SAP Business Network Material Traceability enhanced for Catena-X Notifications**”.

The configuration steps are described for each integration flow.

System Landscape



This Software Package enables notification collaboration between your organization and your suppliers and customers leveraging SAP Business Network Material Traceability.

On Sender side, SAP Business Network Material Traceability setup provide the Endpoint to this extension package with the URL **<Integration-Server>/http/send_notification**

On Receiver side, SAP Business Network Material Traceability is defined in the configuration of the Integration Flow “SAP Business Network Material Traceability enhanced for Catena-X Notifications” with the URL **<BN-MT-Server>/api/v1/ctxmessage**

Prerequisites – Prerequisites for Software components

This Table describes the required Software Component Versions

Software	Version	Comments
Catena-X Release	24.03	
Business Network Material Traceability	Q2 2024	
SAP Data Space Integration	0.7.X	



Currently, a certain API is in its Beta phase and has been released on the SAP Business Accelerator Hub. To make use of this API, customers are required to sign a Test and Evaluation Agreement (which should be managed alongside the BNMT license by the Account Executive). Additionally, a ticket needs to be created in the SBN-LBN-MT component, providing the Subaccount ID and Customer Name as essential information.

BTP Roles

The user needs the following Roles Collection assigned in BTP Cockpit to configure these Integration Flows.

For iFlow Configuration: 'PI_Integration_Developer'

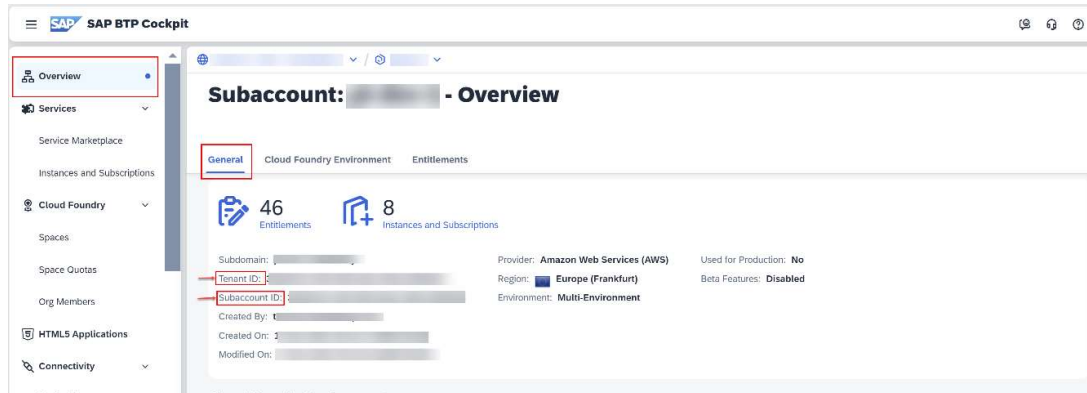
For Certificate generation: 'PI_Administrator'

Cloud Foundry Service Key creation: 'Org Manager' and 'Space Manager' in Cloud Foundry Setup

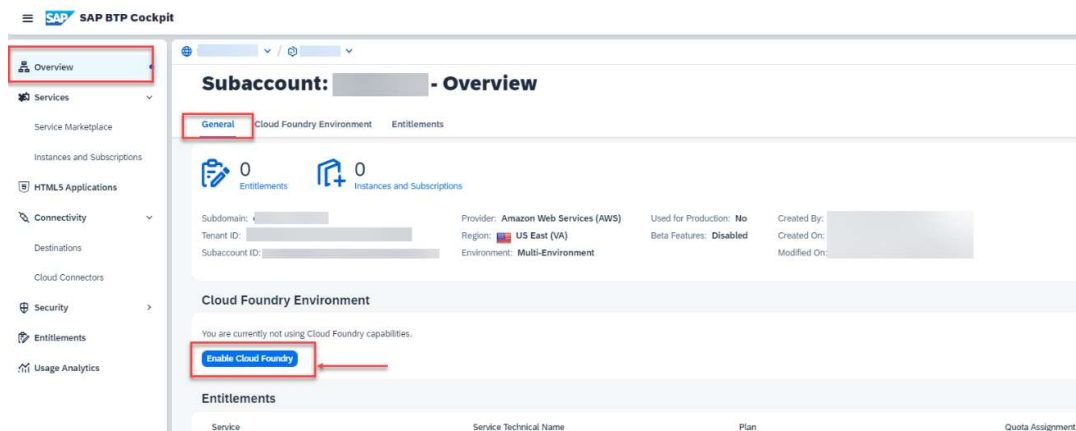
For detailed field description consult SAP Help [Configuring User Access to Cloud Integration](#)

Prerequisites Step-by-step

1. **Request for access from your administrator to the following:**
 - 1.1. BTP Subaccount – Administrator role for the duration of this setup process for the subaccount(s) where Integration Suite and SAP Business Network Material Traceability services has been subscribed.
2. **Identify Subaccount ID and Tenant ID**
 - 2.1. On **Subaccount → Overview** page, **Subaccount ID** and **Tenant ID** can be found as follow.
Remember the **Subaccount ID** and **Tenant ID** it will be needed for later steps.



3. **Enable Cloud Foundry** (Skip this step if Cloud Foundry is already enabled)
 - 3.1. On **Subaccount → Overview** page, select **Enable Cloud Foundry** button



3.2. On **Enable Cloud Foundry** popup page, enter following information, then select **Create** button

Enable Cloud Foundry

1
Basic Info

Enter basic info for your environment instance.

Environment: * [Can't find what you're looking for?](#)

Cloud Foundry Runtime

Plan: *
standard 1

Landscape: *
2

Instance Name: ⓘ 3

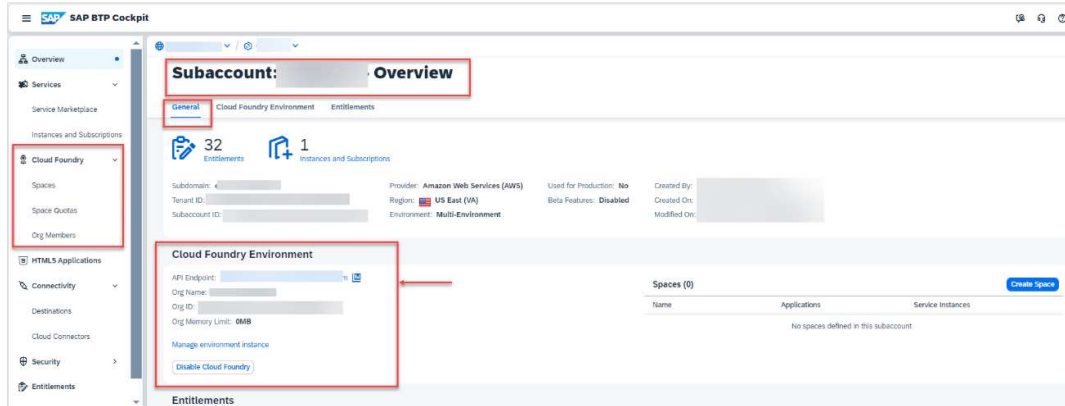
Org Name: * ⓘ 4

Cloud Foundry API endpoints may differ between subaccounts in the same region.
The API endpoint for this subaccount is shown in the Cloud Foundry environment instance details.

→ Create Cancel

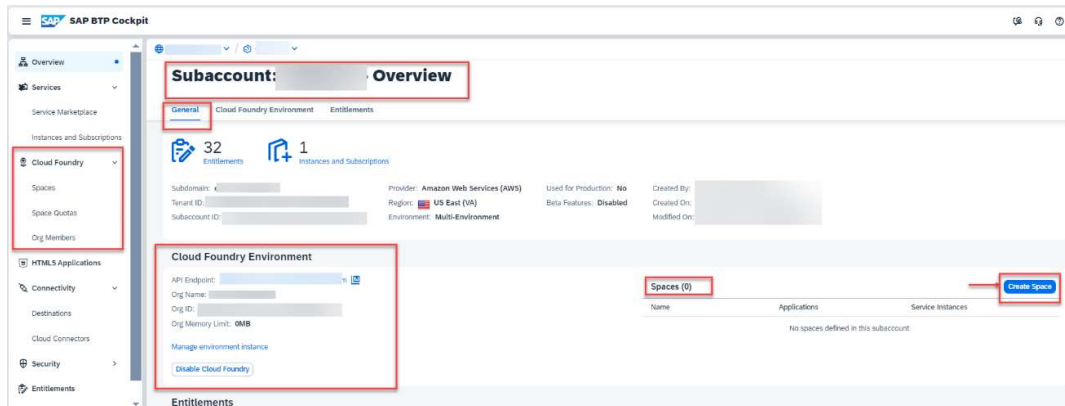
- (1) **Plan:** Select “standard” from dropdown list
- (2) **Landscape:** Select the landscape in your area from dropdown list, for example cf-eu10
- (3) **Instance Name:** Any meaningful name or accept default
- (4) **Org Name:** Suggest changing the default to subaccount ID (You made a note of Subaccount ID in step 2.1 in **Prerequisites Step-by-step → Identify Subaccount ID and Tenant ID** section above)

3.3. On **Subaccount** → **Overview** → **Cloud Foundry Environment** Section, the Cloud Foundry details can be found here

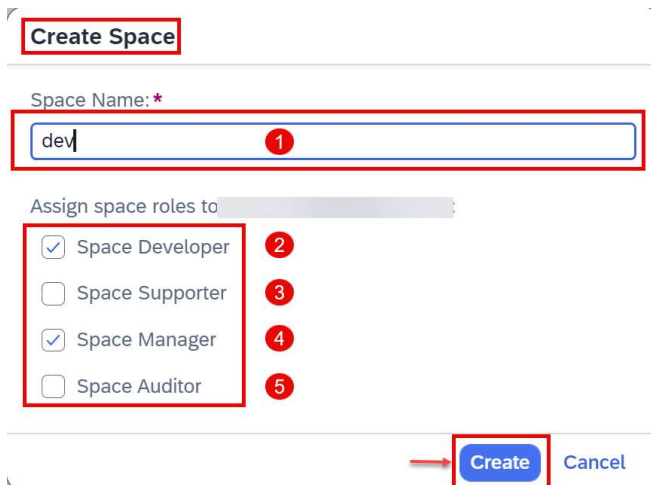


4. **Create Space** (Skip this step if your space is already created)

4.1. On **Subaccount** → **Overview** → **Cloud Foundry Environment** section, select **Create Space** button

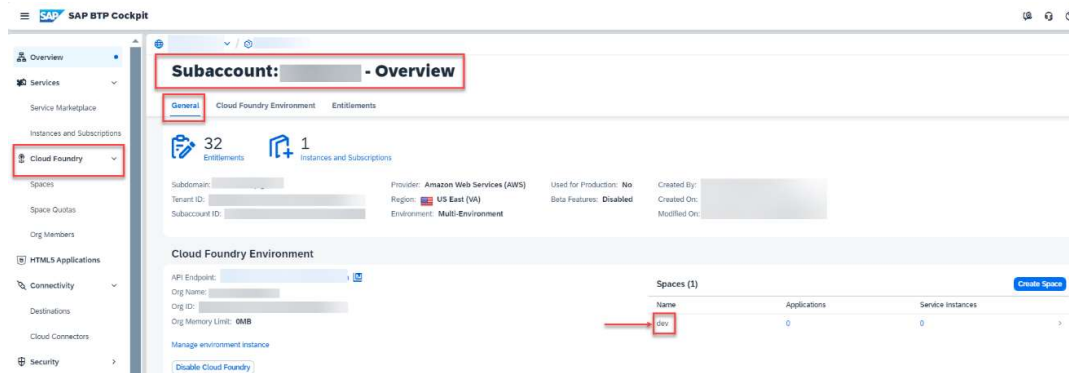


4.2. On **Create Space** popup page, enter following information, then select **Create** button



- (1) **Space Name:** Any meaningful name, for example: dev
- (2) **Space Developer:** Checked
- (3) **Space Supporter:** Use default
- (4) **Space Manager:** Checked
- (5) **Space Auditor:** Use default

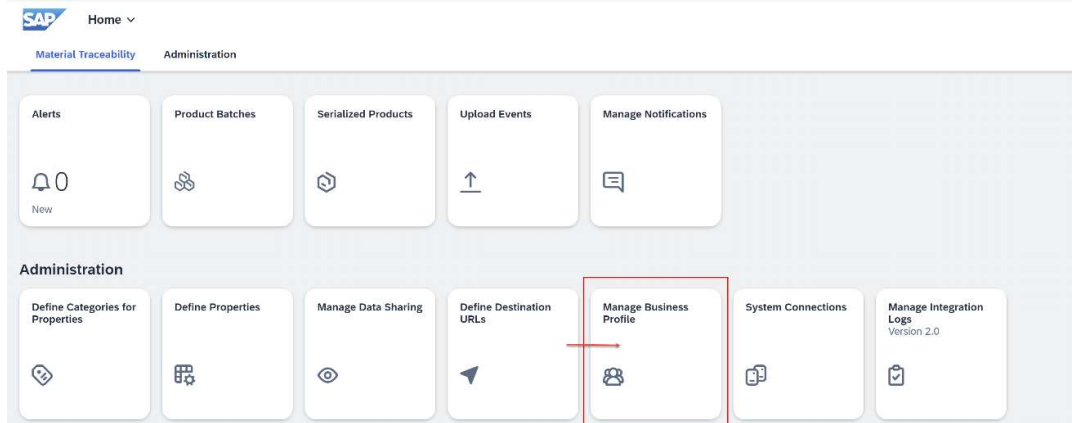
4.3. On **Subaccount** → **Overview** → **Cloud Foundry Environment** Section, the **Space** details can be found here. Remember the **Space Name** it will be needed for later steps



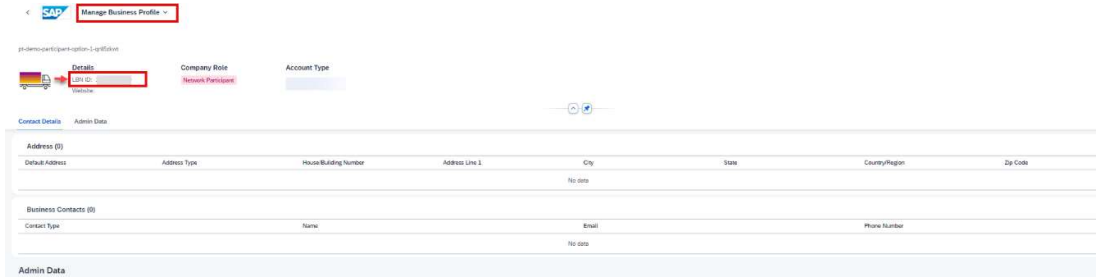
5. Identify **LBN ID** from SAP Business Network Material Traceability

5.1. Login to SAP Business Network Material Traceability

5.2. Select **Manage Business Profile** tile



5.3. **LBN ID** can be found under **Details**

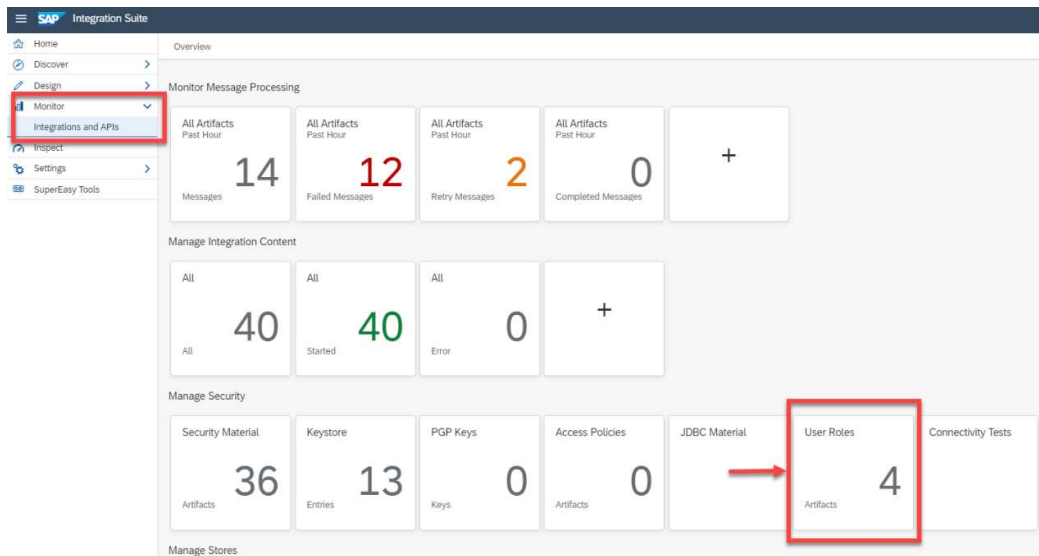


Remember the **LBN ID** it will be needed for later steps

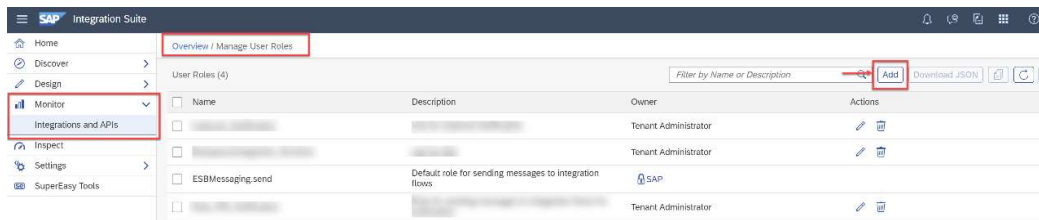
6. **Create User Role** (Contact your Subaccount administrator where integration suite is created to grant you proper role to perform this step):

6.1. Go to Integration Suite

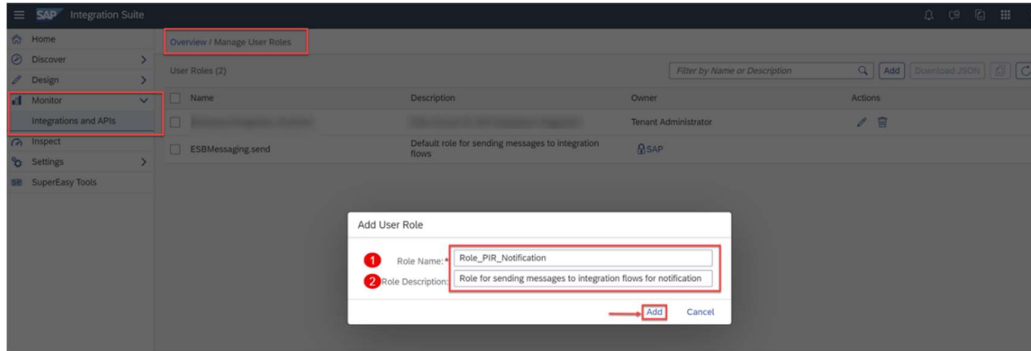
6.2. On **Integration Suite** → **Monitor** → **Integrations and APIs**, select **User Roles** tile



6.3. On **Overview/Manage User Roles** page, select **Add** button



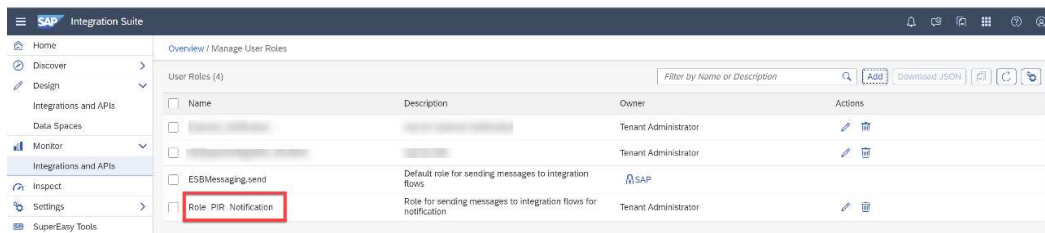
6.4. On **Add User Role** popup page, enter following information, then select **Add** button



(1) **Role Name:** Any meaningful role name, for example: Role_PIR_Notification

(2) **Role Description:** Any meaningful description, for example: Role for sending messages to integration flows for notification

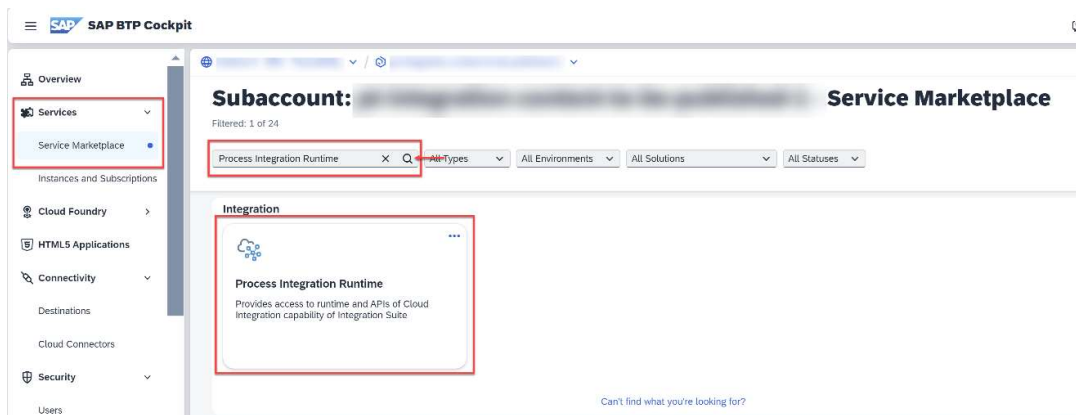
6.5. User Role created. Remember the **Role Name** it will be needed for later steps:



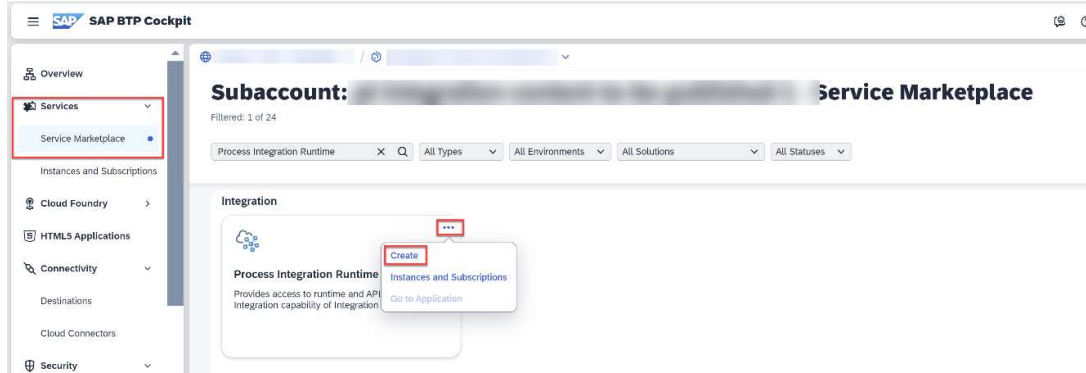
7. **Create Process Integration Runtime Service Key**

7.1. Go to **Subaccount** with **Integration Suite** subscribed

7.2. On **Subaccount** → **Services** → **Service Marketplace** page, Search for “**Process Integration Runtime**”



7.3. Select ... → Create



7.4. On **New Instance or Subscription - (1) Basic Info** page, enter following information, then select **Next** button

The screenshot shows the 'New Instance or Subscription' form. The title 'New Instance or Subscription' is highlighted with a red box. Below the title is a progress bar with three steps: '1 Basic Info' (highlighted with a red box), '2 Parameters', and '3 Review'. The form contains the following fields:

- Service:** * (info icon) Can't find what you're looking for? Process Integration Runtime (1)
- Plan:** * integration-flow (2)
- Runtime Environment:** * Cloud Foundry (3)
- Space:** * _Space (4)
- Instance Name:** * (info icon) PIR_notification1 (5)

At the bottom right, there are three buttons: 'Next >' (highlighted with a red box and an arrow), 'Create', and 'Cancel'.

- (1) **Service:** Select “Process Integration Runtime” from dropdown list
- (2) **Plan:** Select “Integration-flow” from dropdown list
- (3) **Runtime Environment:** Select “Cloud Foundry” from dropdown list
- (4) **Space:** Select Name of the space from dropdown list (You made a note of Space Name in step 4.3 in **Prerequisites Step-by-step → Create Space** section above)
- (5) **Instance Name:** any meaningful name, for example: PIR_notification1.
Remember the **Instance Name** it will be needed for later steps

- 7.5. On **New Instance or Subscription – (2) Parameters** page, enter following information, then select **Next** button

New Instance or Subscription

1 Basic Info 2 Parameters 3 Review

Configure instance parameters. ⓘ

Form 1 JSON

Roles: ⓘ

Role_PIR_Notification x 2

Grant-types: ⓘ

Client Credentials x 3

Redirect-uris: ⓘ

Access Token Validity (in seconds): ⓘ

3,600 5

< Back Next > Create Cancel

- (1) Select **Form** tab
- (2) **Roles**: Remove any default value, enter the **Role Name** you made a note of in step 6.5 in **Prerequisites Step-by-step → Create User Role** section above
- (3) **Grant-types**: Select “Client Credentials” from dropdown list
- (4) **Redirect-uris**: Leave as default - blank
- (5) **Access Token Validity (in seconds)**: Leave as default - 3,600

- 7.6. On **New Instance or Subscription - (3) Review** page, Review the instance details and select **Create** button

New Instance or Subscription

1 Basic Info 2 Parameters 3 Review

Review and verify the instance details.

PIR_notification1

Service: Process Integration Runtime

Service Plan: integration-flow

Runtime Environment: Cloud Foundry

Space: _Space

i Creating an instance might take a while.

< Back **Create** Cancel

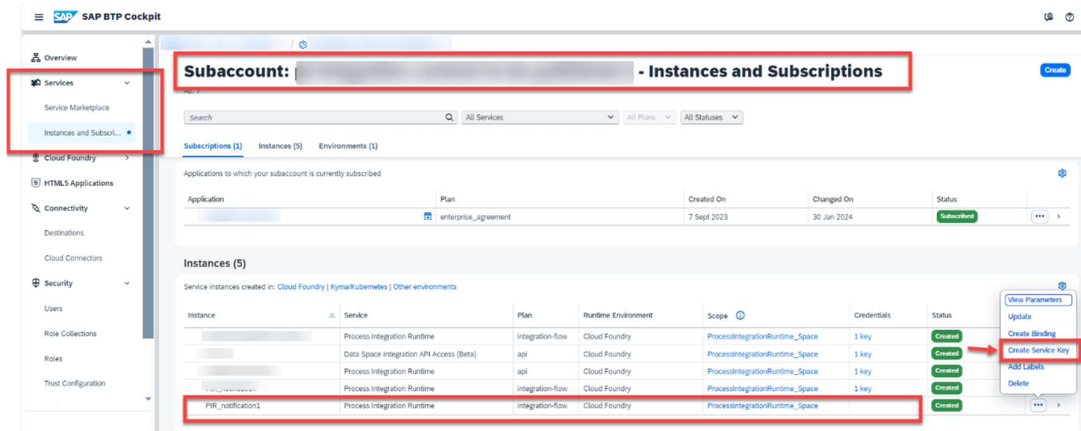
- 7.7. On **Information** popup page, select **View Instance** button

Information

Service instance creation is in progress.
You can view the instance and its current status on the [Instances and Subscriptions](#) page.

View Instance Close

- 7.8. On **Subaccount** → **Services** → **Instances and Subscription** page, select ... → **Create Service Key** for the newly created “**Process Integration Runtime**” service instance (i.e., the **Instance Name** you created in step 7.4 in **Prerequisites Step-by-step** → **Create Process Integration Runtime Service Key** section above).



- 7.9. On **New Service Key** page, enter following information, then select **Create** button

New Service Key

Service Key Name: *

sk_PIR_notification 1

Configure Binding Parameters: i

Form 2 JSON

Key Type: i

ClientId/Secret 3

External Certificate (only applicable for Key Type 'External Certificate'): i

4

5 Pin Certificate (only applicable for Key Type 'External Certificate'): i

Validity in days (only applicable for Key Type 'Certificate'): i

— 365 + 6

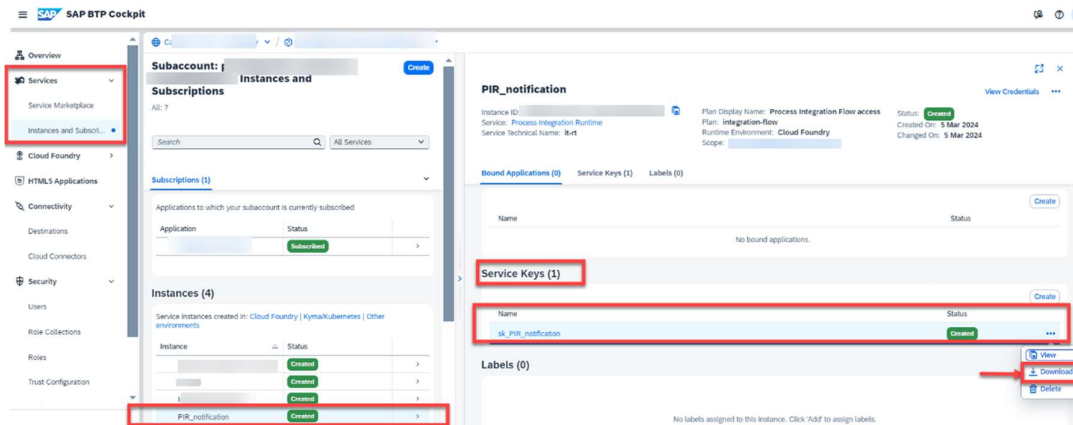
Key Size (only applicable for Key Type 'Certificate'): i

2048 7

Create Cancel

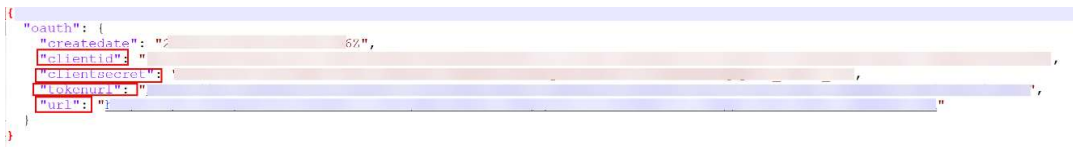
- (1) **Service Key Name:** Any meaningful name, for example: sk_PIR_notification
- (2) Select **Configure Binding Parameters: Form** tab
- (3) **Key Type:** Select "Client/Secret" from dropdown list
- (4) **External Certificate:** Leave as default - blank
- (5) **Pin Certificate:** Leave as default - checked
- (6) **Validity in days:** Leave as default - 365
- (7) **Key Size:** Leave as default - 2048

7.10. On **Service Keys** page, select ... → **Download** for the newly created service key and save the file locally on your desktop



7.11. Open **service key file** in any text editor, and remember the following information from **service key** it will be needed for later steps

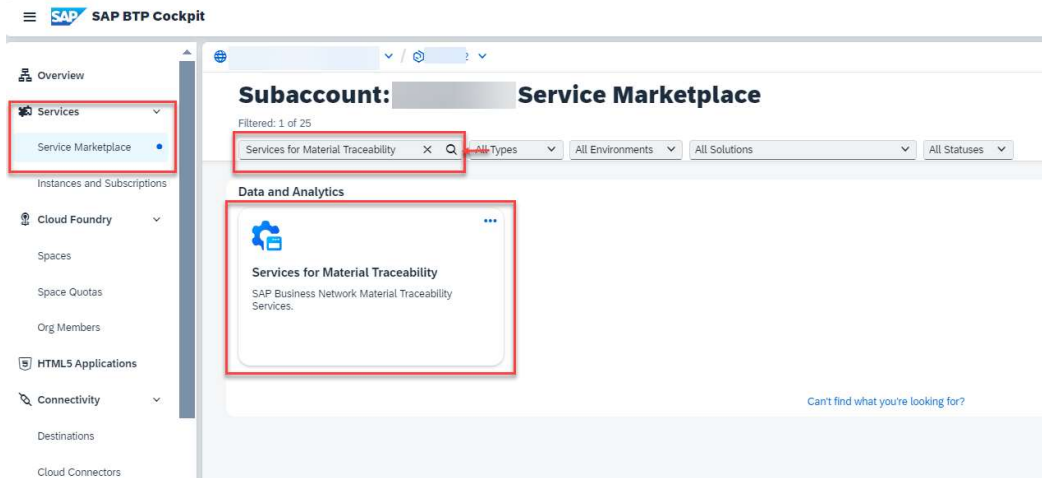
- (1) **Integration Flow client ID:** clientid
- (2) **Integration Flow client secret:** clientsecret
- (3) **Integration Flow token url:** tokenurl
- (4) **Integration Flow url:** url



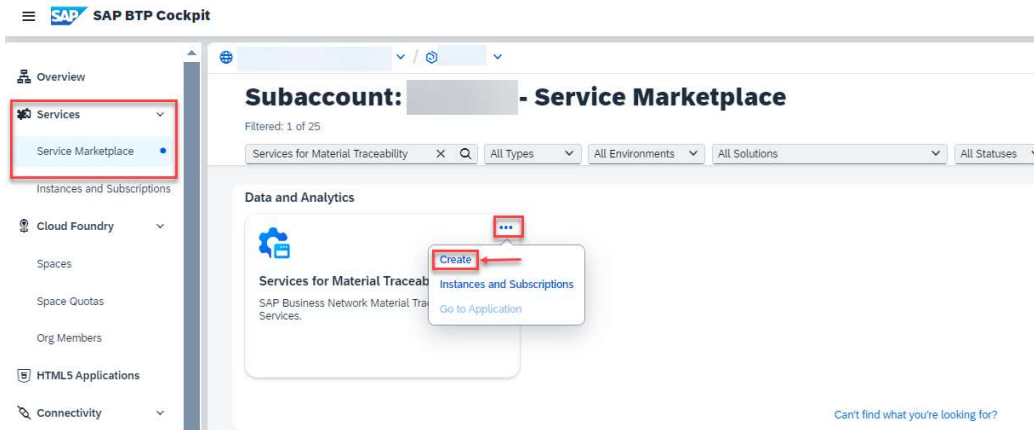
8. **Create Instance of Services for Material Traceability** (contact your subaccount administrator to grant your proper role to perform this step)

8.1. Login **Subaccount** with **Material Traceability** subscribed

8.2. On **Subaccount** → **Services** → **Service Marketplace**, search **Services for Material Traceability**



8.3. Select ... → **Create**



8.4. On **New Instance or Subscription - (1) Basic Info** page, enter following information, then select **Next** button

The screenshot shows the 'New Instance or Subscription' page with three steps: 1. Basic Info, 2. Parameters, and 3. Review. The 'Basic Info' step is active and highlighted with a red box. Below the step indicator, there is a search bar for services and five dropdown menus for Plan, Runtime Environment, Space, and Instance Name. Each dropdown menu has a red number indicating the step. The 'Next >' button is highlighted with a red box and an arrow.

1 Basic Info

2 Parameters

3 Review

Enter basic info for your instance or subscription.

Service: * ⓘ [Can't find what you're looking for?](#)

Services for Material Traceability 1

Plan: * 2

catena-x

Runtime Environment: * 3

Cloud Foundry

Space: * 4

Dev

Instance Name: * ⓘ 5

smt-catena-x

Next > Create Cancel

- (1) **Service:** Select “Service for Material Traceability” from dropdown list
- (2) **Plan:** Select “catena-x” from dropdown list
- (3) **Runtime Environment:** Select “Cloud Foundry” from dropdown list
- (4) **Space:** Enter the space you created in the subaccount (You made a note of Space Name in step 4.3 in **Prerequisites Step-by-step → Create Space** section above)
- (5) **Instance Name:** Any meaningful name, for example smt-catena-x.
Remember the **Instance Name** it will be needed for later steps.

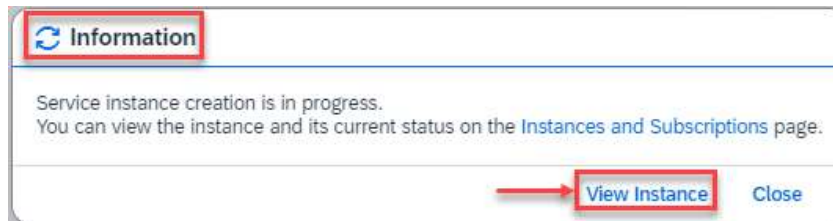
8.5. On **New Instance or Subscription – (2) Parameters** page, no need to change anything, select **Next** button

The screenshot shows the 'New Instance or Subscription' page at the 'Parameters' step. The title 'New Instance or Subscription' is highlighted with a red box. A progress bar at the top has three steps: '1 Basic Info', '2 Parameters' (highlighted with a red box), and '3 Review'. Below the progress bar, the text 'Configure instance parameters.' is followed by a help icon. There are two options for uploading parameters: 'Upload a JSON file:' with a text input field containing 'Select JSON file' and a 'Browse...' button, and 'Or specify the parameters in JSON format:' with a 'Clear' button. Below these is a code editor with a single line of text: '1 {}'. At the bottom, there are navigation buttons: '< Back', 'Next >' (highlighted with a red box), 'Create', and 'Cancel'.

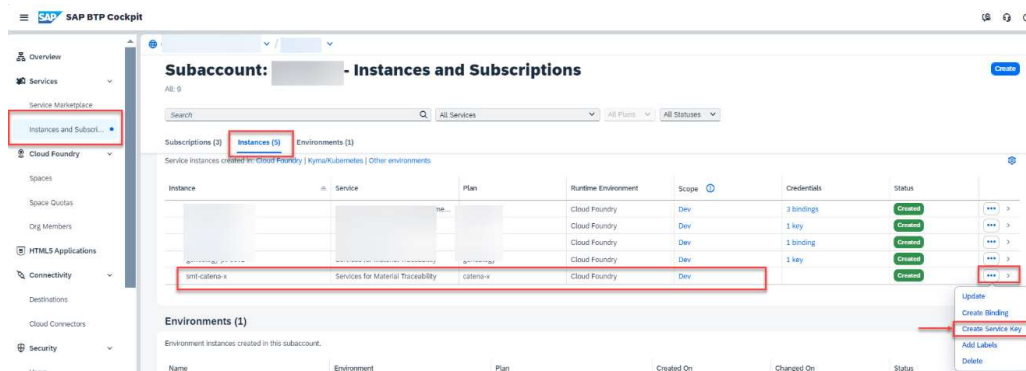
8.6. On **New Instance or Subscription - (3) Review** page, no need to change anything, select **Create** button

The screenshot shows the 'New Instance or Subscription' page at the 'Review' step. The title 'New Instance or Subscription' is highlighted with a red box. A progress bar at the top has three steps: '1 Basic Info', '2 Parameters', and '3 Review' (highlighted with a red box). Below the progress bar, the text 'Review and verify the instance details.' is followed by a summary box containing the following information: 'smt-catena-x', 'Service: Services for Material Traceability', 'Service Plan: catena-x', 'Runtime Environment: Cloud Foundry', and 'Space: Dev'. At the bottom, there is a blue information bar with a help icon and the text 'Creating an instance might take a while.'. Below this, there are navigation buttons: '< Back', 'Create' (highlighted with a red box), and 'Cancel'.

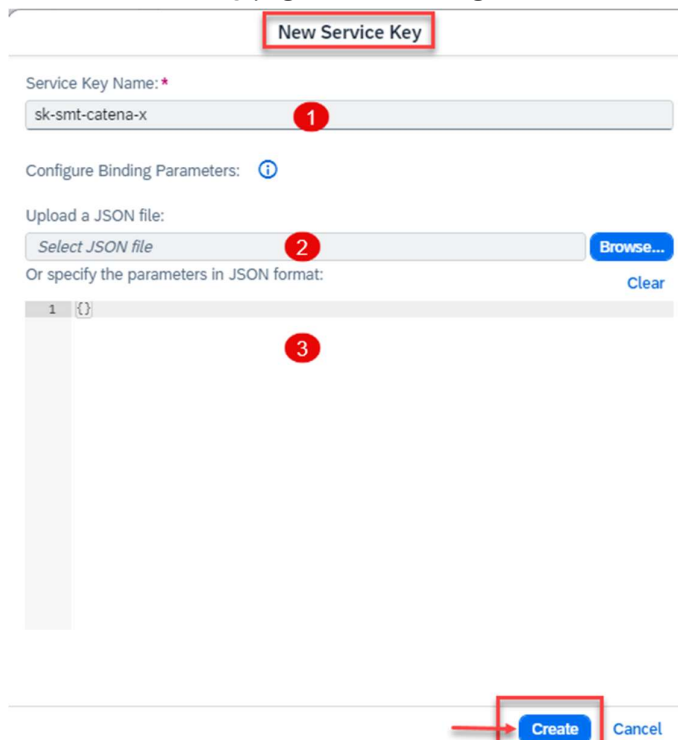
8.7. On **Information** popup page, select **View Instance** button



8.8. On **Subaccount** → **Services** → **Instances and Subscription** page, select ... → **Create Service Key** for the newly created “**Services for Material Traceability**” service instance (i.e., the **Instance Name** you created in step 8.4 in **Prerequisites Step-by-step** → **Create Instance of Services for Material Traceability** section above).



8.9. On **New Service Key** page, enter following information, then select **Create** button



9. Create EDC Discovery connection credential via Security Material

9.1. Go to **Integration Suite**

9.2. On **Integration Suite** → **Monitor** → **Integrations and APIs** → **Manage Security** section, select **Security Material** tile

The screenshot shows the SAP Integration Suite interface. The left sidebar has 'Monitor' and 'Integrations and APIs' highlighted. The main area displays 'Manage Security' with several tiles. The 'Security Material' tile is highlighted with a red box and a red arrow. The tiles show the following counts:

Category	Count
All Artifacts (Past Hour)	0
Failed Messages	0
Retry Messages	0
Completed Messages	0
All (Integration Content)	40
Started	40
Error	0
Security Material Artifacts	35
Keystore Entries	13
PGP Keys	0
Access Policies	0
JDBC Material	0
User Roles	2
Connectivity Tests	0

9.3. On **Overview / Manage Security Material** page, select **Create** → **OAuth2 Client Credentials**

The screenshot shows the 'Overview / Manage Security Material' page. The 'Create' button is highlighted with a red box. The dropdown menu is open, and 'OAuth2 Client Credentials' is highlighted with a red box. The table below shows the existing security material:

Name	Type	Status	Deployed By	Deployed On
[Redacted]	User Credentials	Deployed	[Redacted]	Mar 19, 2024, 14:...
[Redacted]	User Credentials	Deployed	[Redacted]	Mar 14, 2024, 21:...

9.4. On **Create OAuth2 Client Credentials** page, enter following information, then Select **Deploy** button

Create OAuth2 Client Credentials

Name: *	<input type="text"/>	1	
Description:	<input type="text"/>	2	
Token Service URL: *	<input type="text"/>	3	
Client ID: *	<input type="text"/>	4	
Client Secret: *	<input type="text"/>	5	
Client Authentication: *	Send as Body Parameter	6	▼
Scope:	<input type="text"/>	7	
Content Type:	application/x-www-form-urlencoded	8	▼
Resource:	<input type="text"/>	9	
Audience:	<input type="text"/>	10	

→ Deploy Cancel

- (1) **Name:** Any alias name, for example EDC_Discovery_Credential_Alias
Remember Name it will be needed for later steps
- (2) **Description:** Any meaningful description
- (3) **Token Service URL:** Shared by **Cofinity-X**
- (4) **Client ID** Shared by **Cofinity-X**
- (5) **Client Secret:** Shared by **Cofinity-X**
- (6) **Client Authentication:** Select “Send as Body Parameter” from dropdown list
- (7) **Scope:** Leave as default - blank
- (8) **Content Type:** Select “application/x-www-form-urlencoded” from dropdown list
- (9) **Resource:** Leave as default - blank
- (10) **Audience:** Leave as default - blank

10. Create EDC connection credential via Security Material

10.1. Go to **Integration Suite**

10.2. On **Integration Suite** → **Monitor** → **Integrations and APIs** → **Manage Security** section, select **Security Material** tile

The screenshot shows the SAP Integration Suite interface. The left sidebar has the 'Monitor' menu item highlighted. The main content area is divided into three sections: 'Monitor Message Processing', 'Manage Integration Content', and 'Manage Security'. The 'Manage Security' section contains several tiles: 'Security Material' (14 artifacts), 'Keystore' (7 entries), 'PGP Keys' (0 keys), 'Access Policies' (0 artifacts), 'JDBC Material', and 'User Roles' (3 artifacts). The 'Security Material' tile is highlighted with a red box.

10.3. On **Overview / Manage Security Material** page, select **Create** → **OAuth2 Client Credentials**


The screenshot shows the 'Overview / Manage Security Material' page. The 'Create' button is highlighted with a red box, and the 'OAuth2 Client Credentials' option is selected in the dropdown menu. The table below shows a list of security materials.

Name	Type	Status	Deployed By	Deployed On
[Redacted]	User Credentials	Deployed	[Redacted]	Mar 19, 2024, 14:...
[Redacted]	User Credentials	Deployed	[Redacted]	Mar 14, 2024, 21:...

10.4. On **Create OAuth2 Client Credentials** page, enter following information, then Select **Deploy** button

Create OAuth2 Client Credentials

Name: *	<input type="text"/>	1
Description:	<input type="text"/>	2
Token Service URL: *	<input type="text"/>	3
Client ID: *	<input type="text"/>	4
Client Secret: *	<input type="text"/>	5
Client Authentication: *	Send as Request Header	6
Scope:	<input type="text"/>	7
Content Type:	application/json	8
Resource:	<input type="text"/>	9
Audience:	<input type="text"/>	10

 Deploy Cancel

- (1) **Name:** Any alias name, for example EDC_ControlPlane_Credential_Alias
Remember Name it will be needed for later steps
- (2) **Description:** Any meaningful description
- (3) **Token Service URL:** Please contact your DSI/EDC administrator for this information
- (4) **Client ID:** Please contact your DSI/EDC administrator for this information
- (5) **Client Secret:** Please contact your DSI/EDC administrator for this information
- (6) **Client Authentication:** Select “Send as Request Header” from dropdown list
- (7) **Scope:** Leave as default - blank
- (8) **Content Type:** Select “application/json” from dropdown list
- (9) **Resource:** Leave as default - blank
- (10) **Audience:** Leave as default - blank

11. Create SAP Business Network Material Traceability Catena-X connection credential via Security Material

11.1. Go Integration Suite

11.2. On Integration Suite → Monitor → Integrations and APIs → Manage Security section, select Security Material tile

The screenshot shows the SAP Integration Suite interface. The left sidebar has a menu with 'Monitor' selected, and 'Integrations and APIs' is highlighted. The main area is titled 'Monitor Message Processing' and contains several summary tiles. Below this is the 'Manage Integration Content' section, and at the bottom is the 'Manage Security' section. The 'Security Material' tile in the 'Manage Security' section is highlighted with a red box and shows 14 artifacts.

Monitor Message Processing	
All Artifacts Past Hour Messages: 6	All Artifacts Past Hour Failed Messages: 0
All Artifacts Past Hour Retry Messages: 0	All Artifacts Past Hour Completed Messages: 6

Manage Integration Content	
All: 11	All Started: 11
All: 0	Error: 0

Manage Security				
Security Material: 14 Artifacts	Keystore: 7 Entries	PGP Keys: 0 Keys	Access Policies: 0 Artifacts	JDBC Material: 0
				User Roles: 3 Artifacts

11.3. On Overview / Manage Security Material page, select Create → OAuth2 Client Credentials



The screenshot shows the 'Overview / Manage Security Material' page. A table lists existing security materials. A 'Create' button is highlighted with a red box, and a dropdown menu is open, showing 'OAuth2 Client Credentials' as the selected option.

Name	Type	Status	Deployed By	Deployed On
[Redacted]	User Credentials	Deployed	[Redacted]	Mar 19, 2024, 14:...
[Redacted]	User Credentials	Deployed	[Redacted]	Mar 14, 2024, 21:...

11.4. On **Create OAuth2 Client Credentials** page, enter following information, then Select **Deploy** button

Create OAuth2 Client Credentials

Name: *	<input type="text"/>	1
Description:	<input type="text"/>	2
Token Service URL: *	<input type="text"/>	3
Client ID: *	<input type="text"/>	4
Client Secret: *	<input type="text"/>	5
Client Authentication: *	Send as Request Header	6
Scope:	<input type="text"/>	7
Content Type:	application/json	8
Resource:	<input type="text"/>	9
Audience:	<input type="text"/>	10

- (1) **Name:** Any alias name, for example BN-MT_Catena-X_Credential_Alias
Remember Name it will be needed for later steps
- (2) **Description:** Any meaningful description
- (3) **Token Service URL:** Enter the **Catena-x message token url** (You made a note of Token Service URL in step 8.11 in **Prerequisites Step-by-step → Create instance of Services for Material Traceability** section above)
- (4) **Client ID:** Enter the **Catena-x message client ID** (You made a note of Client ID in step 8.11 in **Prerequisites Step-by-step → Create instance of Services for Material Traceability** section above)
- (5) **Client Secret:** Enter the **Catena-x message client secret** (You made a note of Client Secret in step 8.11 in **Prerequisites Step-by-step → Create instance of Services for Material Traceability** section above)
- (6) **Client Authentication:** Select “Send as Request Header” from dropdown list
- (7) **Scope:** Leave as default - blank
- (8) **Content Type:** Select “application/json” from dropdown list
- (9) **Resource:** Leave as default - blank
- (10) **Audience:** Leave as default - blank

12. Create Integration Flow connection credential via Security Material

12.1. Go to **Integration Suite**

12.2. On **Integration Suite** → **Monitor** → **Integrations and APIs** → **Manage Security** section, select **Security Material** tile

The screenshot shows the SAP Integration Suite Monitor interface. The left sidebar contains navigation options: Home, Discover, Design, Monitor (selected), Inspect, Settings, and SuperEasy Tools. The 'Monitor' dropdown is expanded to show 'Integrations and APIs'. The main content area is titled 'Monitor Message Processing' and 'Manage Integration Content'. Below these, the 'Manage Security' section is highlighted with a red box. It contains several tiles: 'Security Material' (14 Artifacts), 'Keystore' (7 Entries), 'PGP Keys' (0 Keys), 'Access Policies' (0 Artifacts), 'JDBC Material', and 'User Roles' (3 Artifacts). The 'Security Material' tile is also highlighted with a red box and an arrow pointing to it.

12.3. On **Overview / Manage Security Material** page, select **Create** → **OAuth2 Client Credentials**


The screenshot shows the 'Overview / Manage Security Material' page in SAP Integration Suite. The left sidebar is the same as in the previous screenshot. The main content area is titled 'Security Material (14)'. A 'Create' button is highlighted with a red box. A dropdown menu is open from the 'Create' button, showing options: 'User Credentials', 'OAuth2 Client Credentials' (highlighted with a red box), 'OAuth2 SAML Bearer Assertion', 'OAuth2 Authorization Code', and 'Secure Parameter'. The table below shows a list of Security Material items with columns for Name, Type, Status, Deployed By, and Deployed On.

Name	Type	Status	Deployed By	Deployed On
[Redacted]	User Credentials	Deployed	[Redacted]	Mar 19, 2024, 14:...
[Redacted]	User Credentials	Deployed	[Redacted]	Mar 14, 2024, 21:...

12.4. On **Create OAuth2 Client Credentials** page, enter following information, then Select **Deploy** button

Create OAuth2 Client Credentials

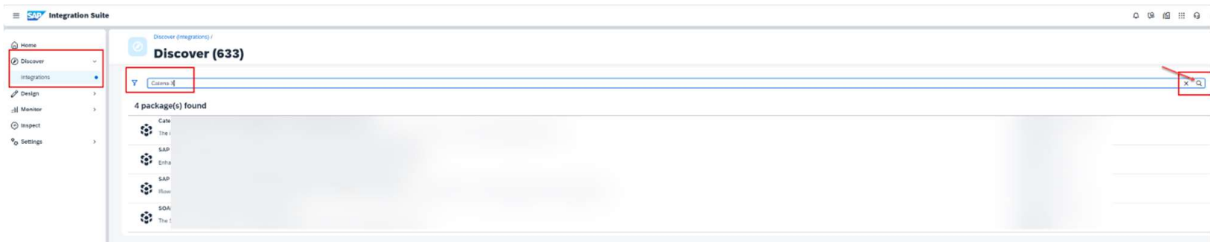
Name: *	<input type="text"/>	1
Description:	<input type="text"/>	2
Token Service URL: *	<input type="text"/>	3
Client ID: *	<input type="text"/>	4
Client Secret: *	<input type="text"/>	5
Client Authentication: *	Send as Request Header	6
Scope:	<input type="text"/>	7
Content Type:	application/json	8
Resource:	<input type="text"/>	9
Audience:	<input type="text"/>	10

 **Deploy** Cancel

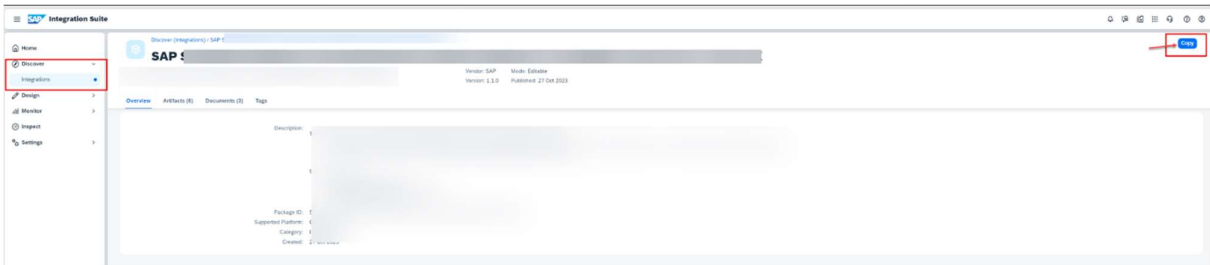
- (1) **Name:** Any alias name, for example Integration_Flow_Credential_Alias
Remember Name it will be needed for later steps
- (2) **Description:** Any meaningful description
- (3) **Token Service URL:** Enter the **Integration Flow token url** (You made a note of Token Service URL in step 7.11 in **Prerequisites Step-by-step → Create Process Integration Runtime Service Key** section above)
- (4) **Client ID:** Enter the **Integration Flow Client ID** (You made a note of Client ID in step 7.11 in **Prerequisites Step-by-step → Create Process Integration Runtime Service Key** section above)
- (5) **Client Secret:** Enter the **Integration Flow Client Secret** (You made a note of Client Secret in step 7.11 in **Prerequisites Step-by-step → Create Process Integration Runtime Service Key** section above)
- (6) **Client Authentication:** Select “Send as Request Header” from dropdown list
- (7) **Scope:** Leave as default - blank
- (8) **Content Type:** Select “application/json” from dropdown list
- (9) **Resource:** Leave as default - blank
- (10) **Audience:** Leave as default - blank

Install Package from Discover in SAP Integration Suite

Go to **Integration Suite**, navigate to **Discover** → **Integrations** and search for Catena-X.



Select **“SAP Business Network Material Traceability enhanced for Catena-X Notification collaboration V1.0”** package. The content is shown and in the upper right corner you find a **Copy** link.



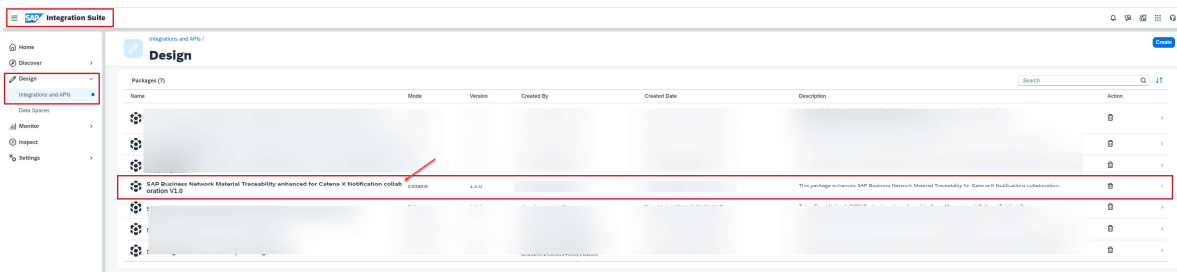
Press **Copy** to download the project to your SAP Integration Suite.

Configuration Step-by-Step

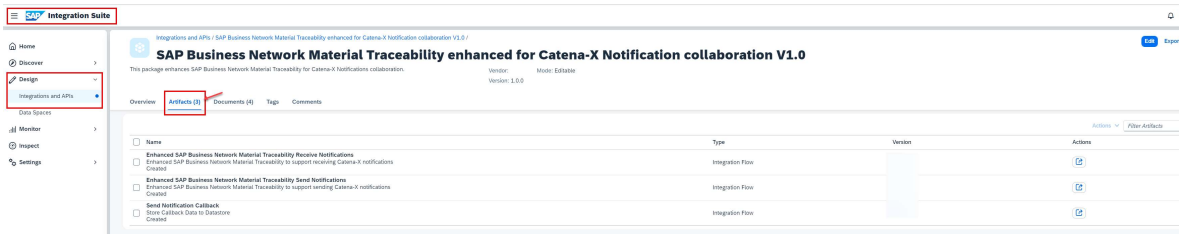
Please follow these instructions to setup all related parameters for each Integration Flow.

SAP Business Network Material Traceability enhanced for Catena-X Notification collaboration V1.0

From the menu on the left **Integration Suite** → **Design** → **Integrations and APIs**, Select the package "**SAP Business Network Material Traceability enhanced for Catena-X Notification collaboration V1.0**"

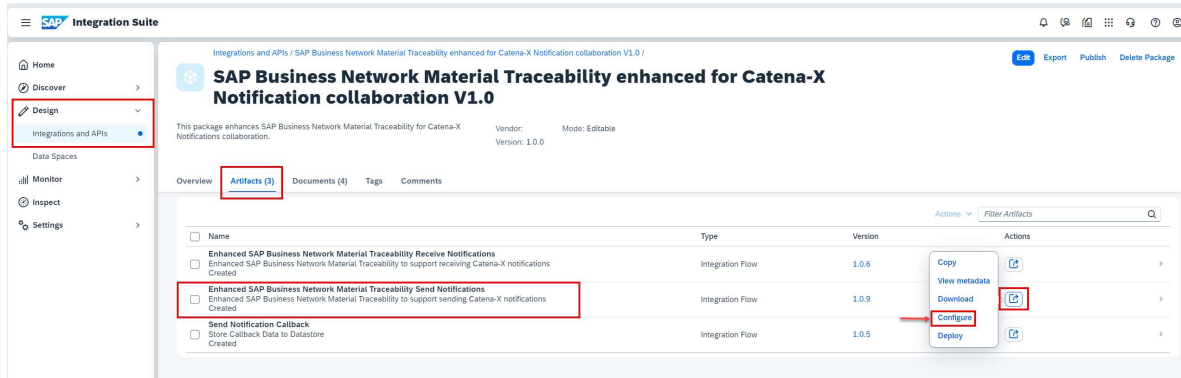


Select **Artifacts** Tab at the top.



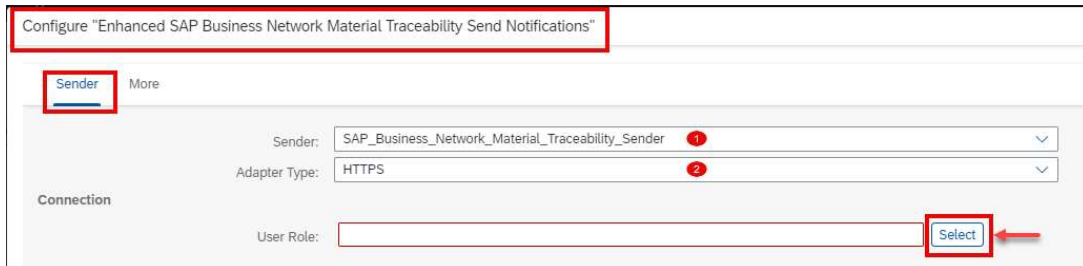
Enhanced SAP Business Network Material Traceability Send Notifications

From Integration Suite, select "**Configure**" from the Dropdown list under the "**Action**" button for the Integration Flow "**Enhanced SAP Business Network Material Traceability Send Notifications**".

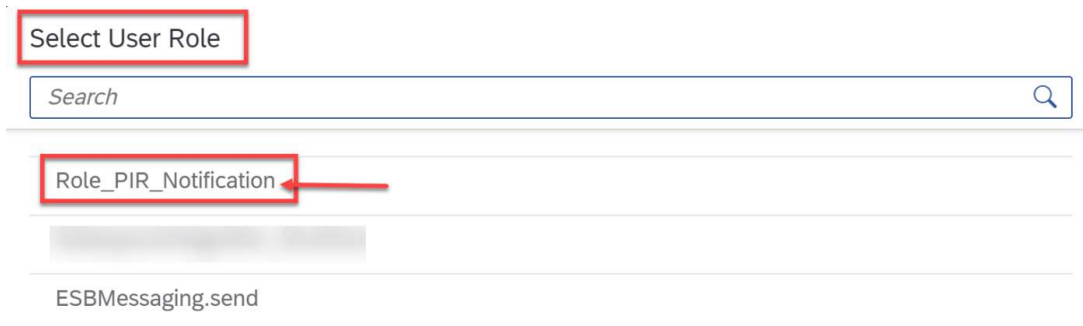


Sender Tab

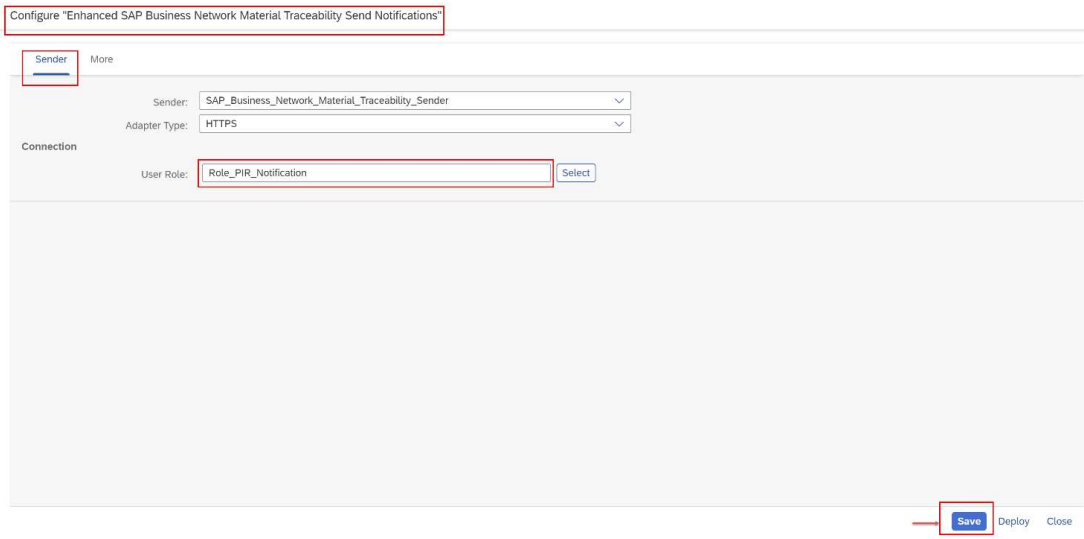
- 1) On **Sender** tab, enter following information, then select **Select** button



- (1) **Sender**: Select "SAP_Business_Network_Material_Traceability_Sender" from dropdown list
 - (2) **Adapter Type**: Select "HTTPS" from dropdown list
- 2) On **Select User Role** page, select the **Role Name** from list (You made a note of Role Name in step 6.5 in **Prerequisites Step-by-step → Create User Role** section above)



- 3) On **Configure "Enhanced SAP Business Network Material Traceability Send Notifications"** → **Sender** page, Select **Save** button



Configure "Enhanced SAP Business Network Material Traceability Send Notifications"

Sender More

Sender: SAP_Business_Network_Material_Traceability_Sender

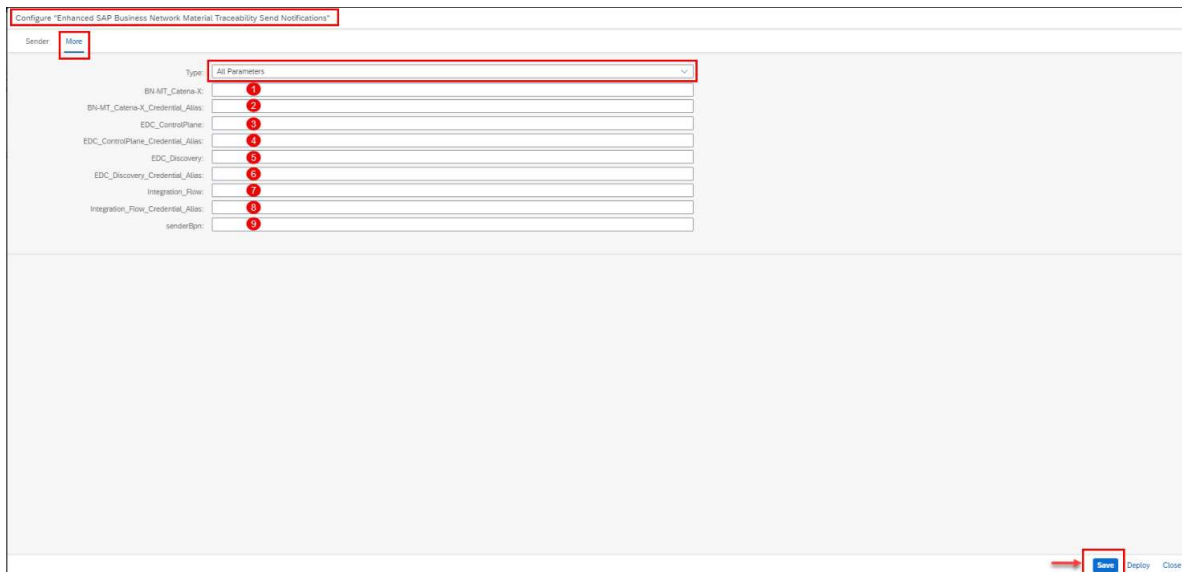
Adapter Type: HTTPS

Connection

User Role: Role_PIR_Notification

More Tab

On the **More** tab, select "**All Parameter**" from **Type** dropdown list and enter following information, then select **Save** button



Configure "Enhanced SAP Business Network Material Traceability Send Notifications"

Sender More

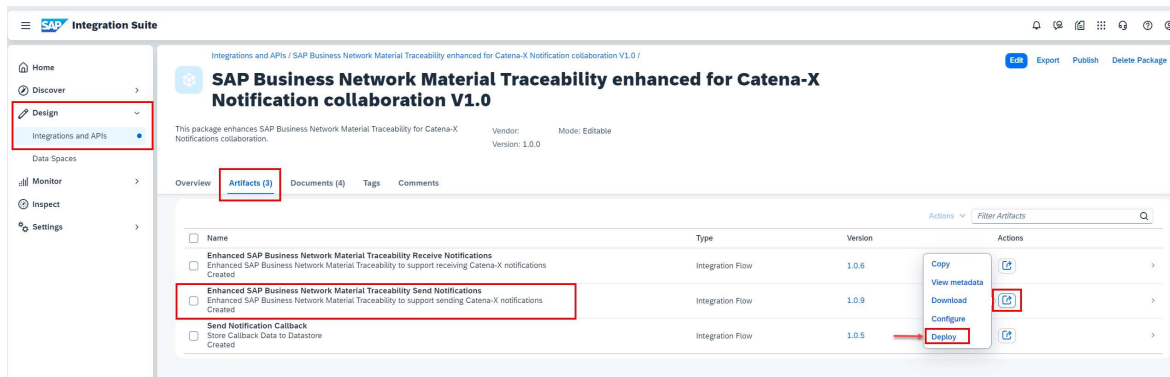
Type: All Parameters

BN-MT_Catena-X:	1
BN-MT_Catena-X_Credential_Alias:	2
EDC_ControlPlane:	3
EDC_ControlPlane_Credential_Alias:	4
EDC_Discovery:	5
EDC_Discovery_Credential_Alias:	6
Integration_Flow:	7
Integration_Flow_Credential_Alias:	8
senderBon:	9

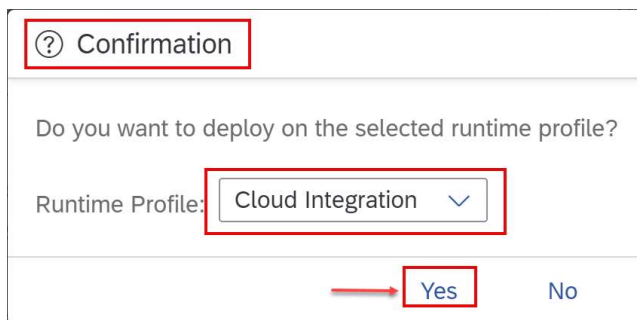
- (1) **BN-MT_Catena-X:** Enter the **Catena-x message address** which you made a note of **Catena-x message address** in step 8.11 in **Prerequisites Step-by-step → Create instance of Services for Material Traceability** section above
- (2) **BN-MT_Catena-X_Credential_Alias:** Enter the **Name** which you made a note of **Name** in step 11.4 in **Prerequisites Step-by-step → Create SAP Business Network Material Traceability Catena-X connection credential via Security Material** section above

- (3) **EDC_ControlPlane:** This is the URL of your **DSI** tenant. For non-SAP **EDC**, please contact your **EDC** administrator.
- (4) **EDC_ControlPlane_Credential_Alias:** Enter the **Name** which you made a note of **Name** in step 10.4 in **Prerequisites Step-by-step → Create EDC connection credential via Security Material** section above
- (5) **EDC_Discovery:** This is the URL which is shared from **Cofinity-X** for the discovery service
- (6) **EDC_Discovery_Credential_Alias:** Enter the **Name** which you made a note of **Name** in step 9.4 in **Prerequisites Step-by-step → Create EDC Discovery connection credential EDC Credentials via Security** section above
- (7) **Integration_Flow:** Enter the **Integration Flow url** which you made a note of **Integration Flow url** in step 7.11 in **Prerequisites Step-by-step → Create Process Integration Runtime Service Key** section above
- (8) **Integration_Flow_Credential_Alias:** Enter the **Name** which you made a note of **Name** in step 12.4 in **Prerequisites Step-by-step → Create Integration Flow connection credential via Security Material** section above
- (9) **senderBpn:** This is BPN of your **EDC**

From Integration Suite, select "**Deploy**" button from the Drop-Down under the "**Action**" button for the Integration Flow "**Enhanced SAP Business Network Material Traceability Send Notifications**".

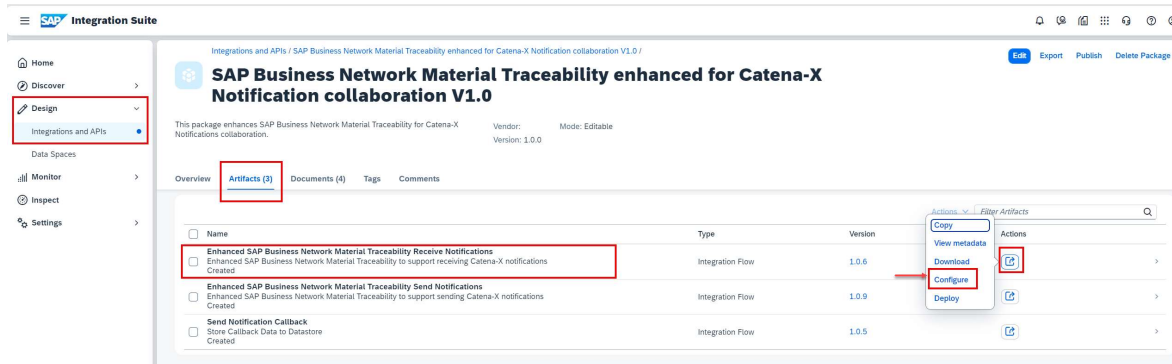


On **Confirmation** popup page, select **Yes** button



Enhanced SAP Business Network Material Traceability Receive Notifications

From Integration Suite, select "**Configure**" from the Drop-Down under the "**Action**" button for the Integration Flow "**Enhanced SAP Business Network Material Traceability Receive Notifications**".



Sender Tab

- 1) On **Sender** tab, enter following information, then select **Select** button

The screenshot shows the 'Sender' configuration tab. The title is 'Configure "Enhanced SAP Business Network Material Traceability Receive Notifications"'. The 'Sender' dropdown is set to 'Data_Space_Integration' and the 'Adapter Type' dropdown is set to 'HTTPS'. The 'User Role' field is empty, and the 'Select' button is highlighted.

Sender: Data_Space_Integration
Adapter Type: HTTPS
User Role:
Select

- (1) **Sender**: Select "Data_Space_Integration" from dropdown list
- (2) **Adapter Type**: Select "HTTPS" from dropdown list

- 2) On **Select User Role** page, select the **Role Name** from list (You made a note of **Role Name** in step 6.5 in **Prerequisites Step-by-step → Create User Role** section above)

Select User Role

Search

Role_PIR_Notification

ESBMessaging.send

- 3) On **Configure "Enhanced SAP Business Network Material Traceability Receive Notifications"** → **Sender** tab, select **Save** button

Configure "Enhanced SAP Business Network Material Traceability Receive Notifications"

Sender More

Sender: Data_Space_Integration

Adapter Type: HTTPS

Connection

User Role: Role_PIR_Notification Select

Save Deploy Close

More Tab

- 1) On **Configure “Enhanced SAP Business Network Material Traceability Receive Notifications”** → **More** page, enter following information, then select **Save** button

Configure "Enhanced SAP Business Network Material Traceability Receive Notifications"

Sender **More**

Type: All Parameters 1

BN-MT_Catena-X: 2

BN-MT_Catena-X_Credential_Alias: 3

Save Deploy Close

- (1) **Type:** Select “**All Parameters**” from dropdown list
- (2) **BN-MT_Catena-X:** Enter the **Catena-x message address** which you made a note of **Catena-x message address** in step 8.11 in **Prerequisites Step-by-step → Create instance of Services for Material Traceability** section above
- (3) **BN-MT_Catena-X_Credential_Alias:** Enter the **Name** which you made a note of Name in step 11.4 in **Prerequisites Step-by-step → Create SAP Business Network Material Traceability Catena-X connection credential via Security Material** section above

From Integration Suite, select "**Deploy**" button from the Drop-Down under the "**Action**" button for the Integration Flow "**Enhanced SAP Business Network Material Traceability Receive Notifications**".

Integrations and APIs / SAP Business Network Material Traceability enhanced for Catena-X Notification collaboration V1.0 /

SAP Business Network Material Traceability enhanced for Catena-X Notification collaboration V1.0

This package enhances SAP Business Network Material Traceability for Catena-X Notifications collaboration. Vendor: Mode: Editable Version: 1.0.0

Overview **Artifacts (3)** Documents (4) Tags Comments

Name	Type	Version	Actions
<input type="checkbox"/> Enhanced SAP Business Network Material Traceability Receive Notifications Created	Integration Flow	1.0.6	Copy View metadata Download Deploy Configure
<input type="checkbox"/> Enhanced SAP Business Network Material Traceability Send Notifications Created	Integration Flow	1.0.9	Copy View metadata Download Configure Deploy
<input type="checkbox"/> Send Notification Callback Store Callback Data to Datastore Created	Integration Flow	1.0.5	Copy View metadata Download Configure Deploy

On **Confirmation** popup page, select **Yes** button

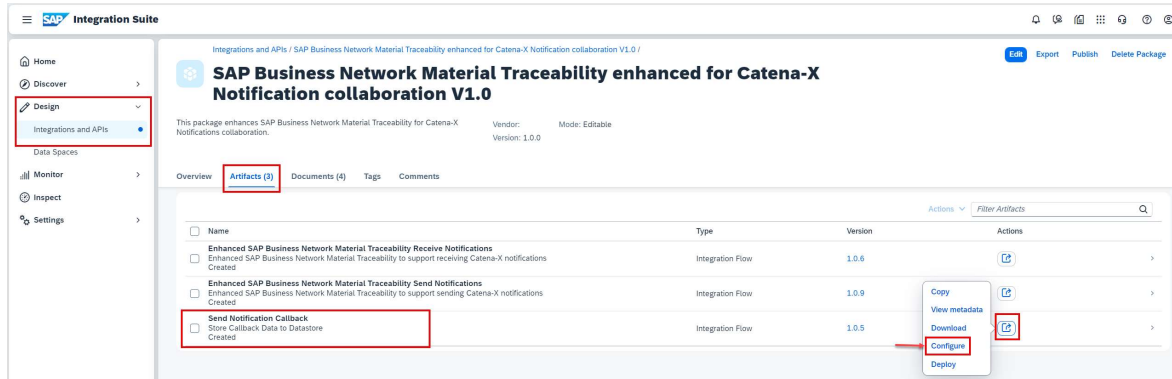
? Confirmation

Do you want to deploy on the selected runtime profile?

Runtime Profile: Cloud Integration

Send Notification Callback

From Integration Suite, select "Configure" from the Drop-Down under the "Action" button for the Integration Flow "Send Notification Callback"



Sender Tab

- 1) On **Sender** tab, enter following information, then select **Select** button

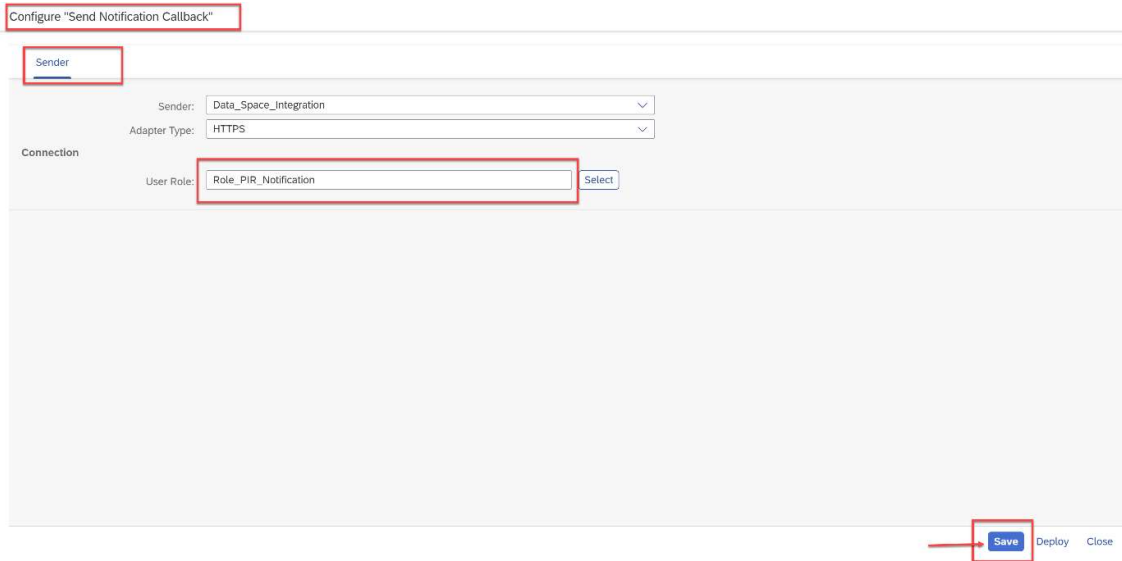


- (1) **Sender:** Select "Data_Space_Integration" from dropdown list
- (2) **Adapter Type:** Select "HTTPS" from dropdown list

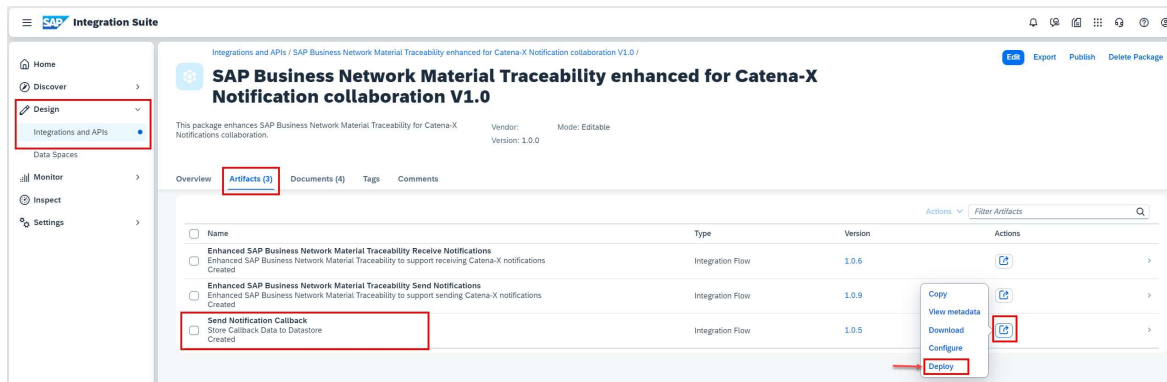
- 2) On **Select User Role** page, select the **Role Name** from list (You made a note of **Role Name** in step 6.5 in **Prerequisites Step-by-step** → **Create User Role** section above)



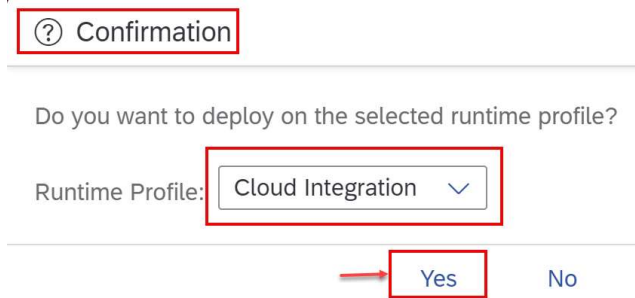
- 3) On **Configure "Send Notification Callback" → Sender** page, select **Save** button



From Integration Suite, select "**Deploy**" button from the Drop-Down under the "**Action**" button for the Integration Flow "**Send Notification Callback**".



On **Confirmation** popup page, select **Yes** button



SAP Business Network Material Traceability connection setup

This section describes how to setup connection from SAP Business Network Material Traceability to SAP Business Network Material Traceability enhanced for Catena-X Notifications

Connect to Enhanced SAP Business Network Material Traceability Send Notifications

- Create an incident on the **Customer Support Portal** and categorize your issue with the component **SBN-LBN-MT**, providing the following information:
 - **Title:** create an outbound URL for **Catena-X**
 - **Message body:**
 - 1) **Subaccount ID:** This is subaccount ID where SAP Business Network Material Traceability subscribed (You made a note of Subaccount ID in step 2.1 in **Prerequisites Step-by-step → Identify Subaccount ID and Tenant ID** section above)
 - 2) **Tenant ID:** This is tenant ID where SAP Business Network Material Traceability subscribed (You made a note of Tenant ID in step 2.1 in **Prerequisites Step-by-step → Identify Subaccount ID and Tenant ID** section above)
 - 3) **LBN ID:** This is LBN ID of your SAP Business Network Material Traceability (You made a note of LBN ID in step 5.3 in **Prerequisites Step-by-step → Identify LBN ID from SAP Business Network Material Traceability** section above)
 - 4) **Send Notification API endpoint: Integration Flow url + “/send_notification”** (You made a note of **Integration Flow url** in step 7.11 in **Prerequisites Step-by-step → Create Process Integration Runtime Service Key** section above)
(This is the API endpoint of integration flow **Enhanced SAP Business Network Material Traceability Send Notifications**)
 - 5) **Credentials:** This is the credential of your integration suite (You made a note of the Credentials in step 7.11 in **Prerequisites Step-by-step → Create Process Integration Runtime Service Key** section above)

Integration Exception Handling

Enhanced SAP Business Network Material Traceability Send Notification integration flow

1. Integration flow handle error with following two ways to ensure to all the errors got caught and also data consistency
 - 1.1. Each integration process contains an **Exception Subprocess** to catch errors and log the process name with error and also error message detail
 - 1.2. When error caught by **Exception Subprocess**, it will send an error message back to sending system to roll back any changes already made

In case you have to create DSI Assets, Policies and Contract Definitions manually please refer steps below.

Create DSI Assets, Policies and Contract Definitions

1. Refer to document **Configuration Instructions – Notification – Create DSI Assets, Policies and Contracts v1.0.0** for steps to setup DSI Assets, Policies and Contract Definitions.