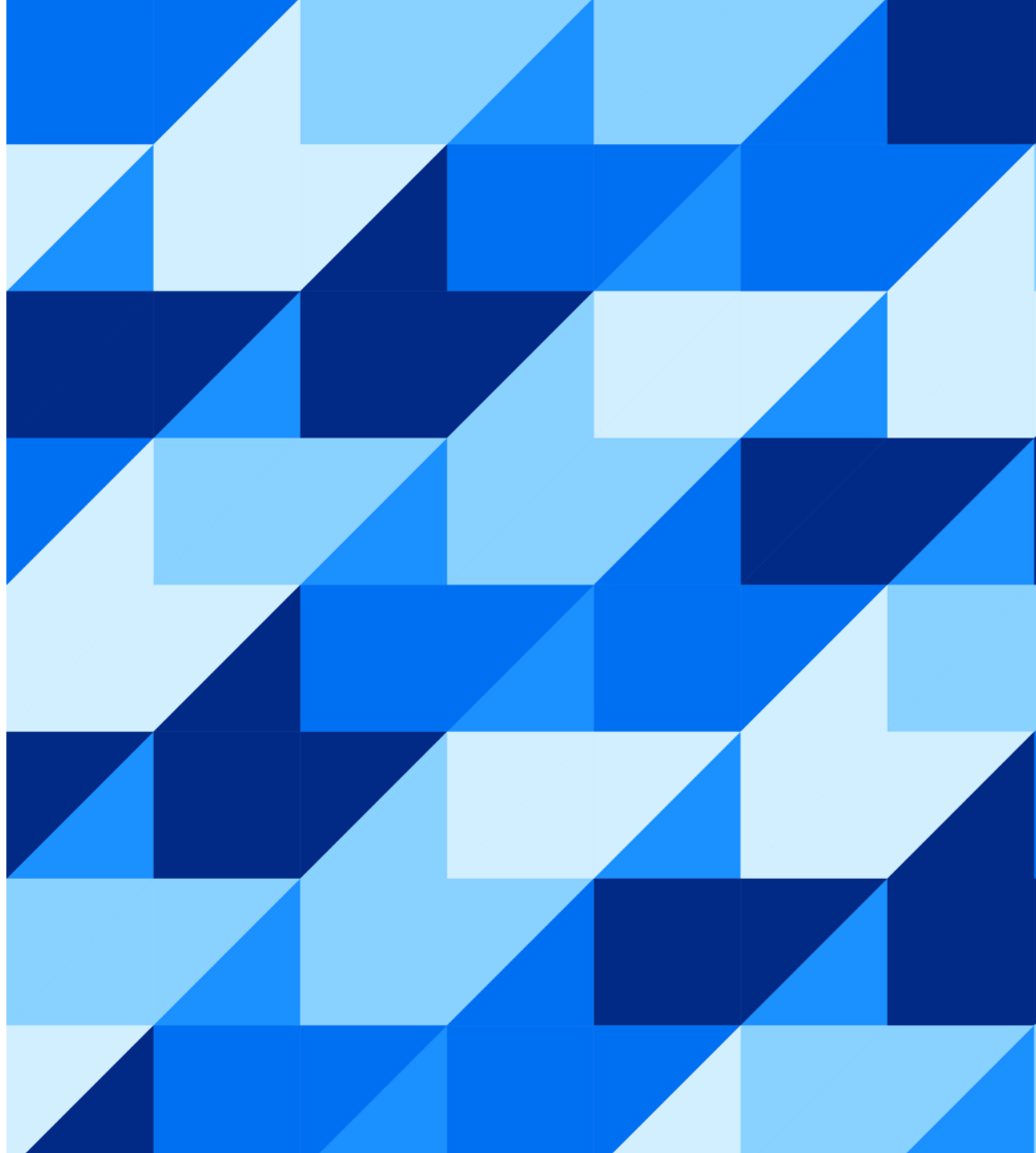


Connectivity to External Systems with SAP Business Network for Logistics

SAP Business **Network for Logistics**

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Public



Agenda



Introduction to Connectivity to External Systems

- ✓ How to Integrate with SAP Business Network Freight Collaboration (Carrier APIs)
- ✓ Shipper CPC configuration



Demo

- ✓ Process in Business Network for Logistics



Q & A

Introduction to Connectivity to External Systems

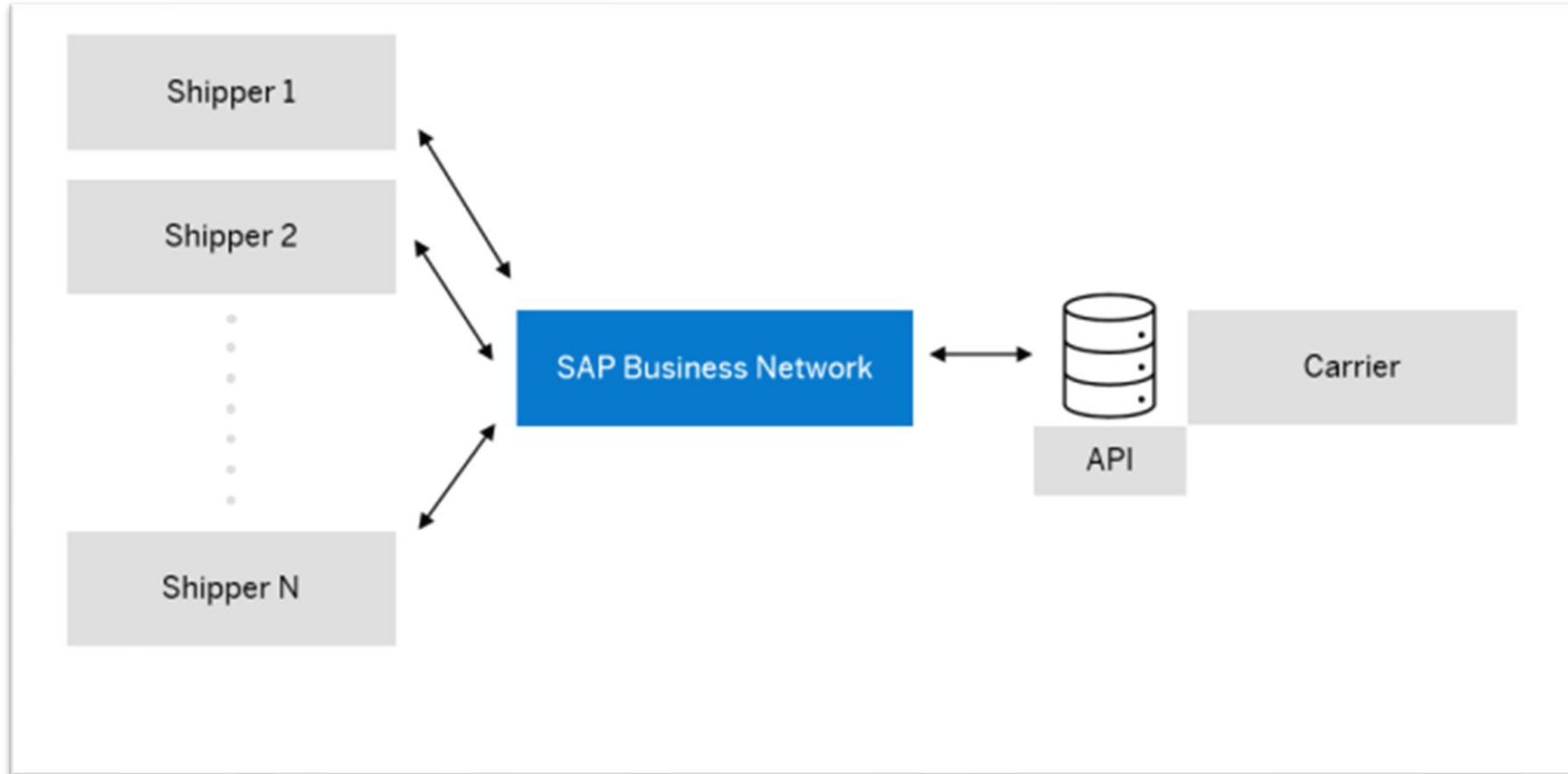
- SAP Business Network for Logistics enables collaboration between shippers and carriers.
- Supports key logistics processes:
 - Freight Subcontracting
 - Order confirmation
 - Shipment tracking
 - Invoicing and dispute management
 - Dock appointment scheduling
- Provides web UI access for carriers to perform defined business processes.
- Offers public REST APIs to integrate logistics documents directly into carrier systems.

Pre-requisite to set up API integration with SAP Business Network for Logistics

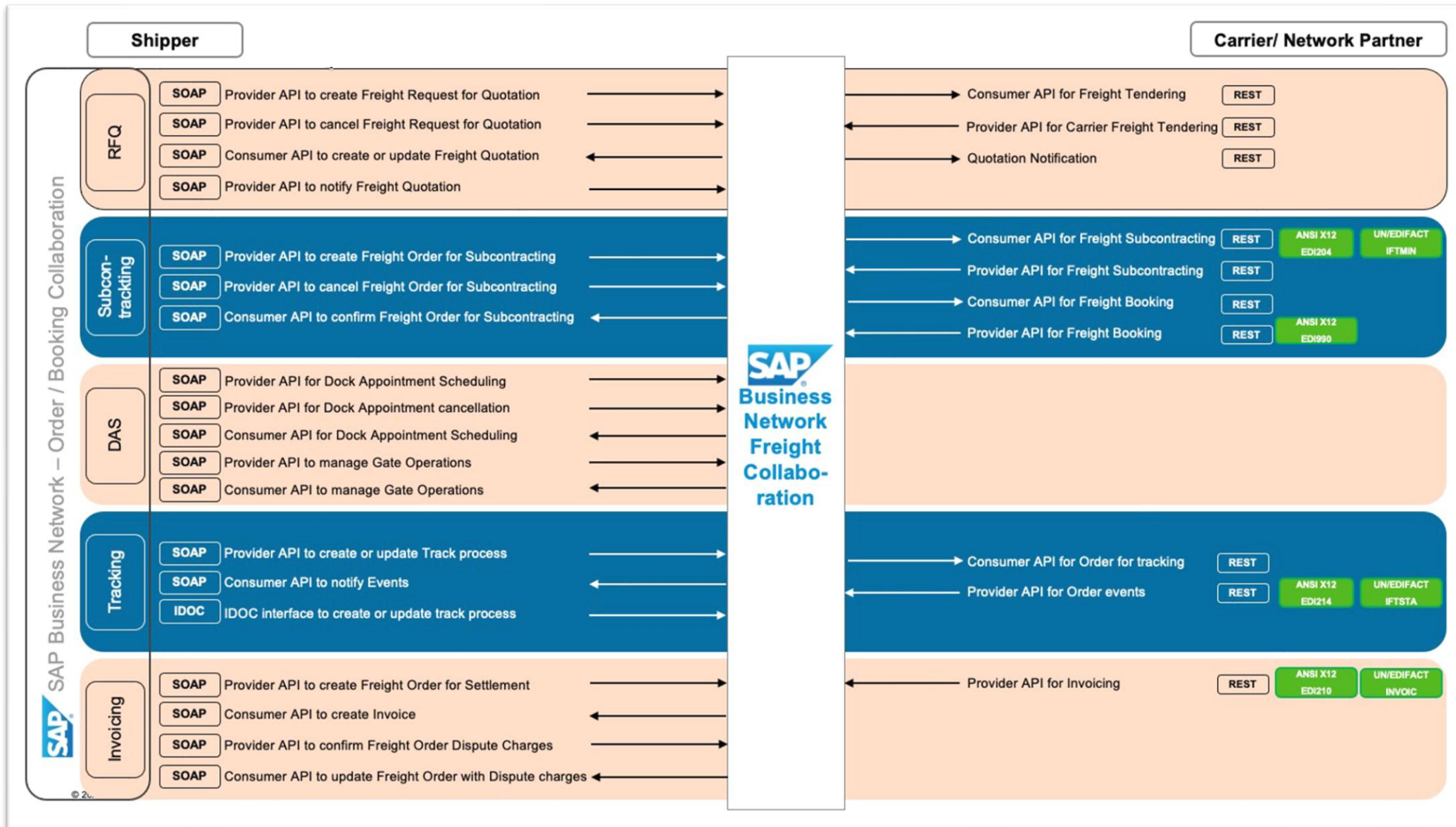
To set up API integration with SAP Business Network for Logistics, you must meet the following requirements:

- Carrier tenant is available in the test and productive environments.
- Onboarding must be completed by both the shipper and the carrier.
- In case your API server uses IP filtering, you need to add the IP ranges to the allow to enable SAP Business Network for Logistics integration tenants to connect to your API server.
- You have developed an API service in your backend server/transportation management system that can receive messages from SAP Business Network for Logistics in the published API format.
- Please make sure the API server is accessible on the internet.
- Carriers have to set up the API connection once and shippers can use the same API connection for communication.

The following diagram outlines the API communication between the involved parties:



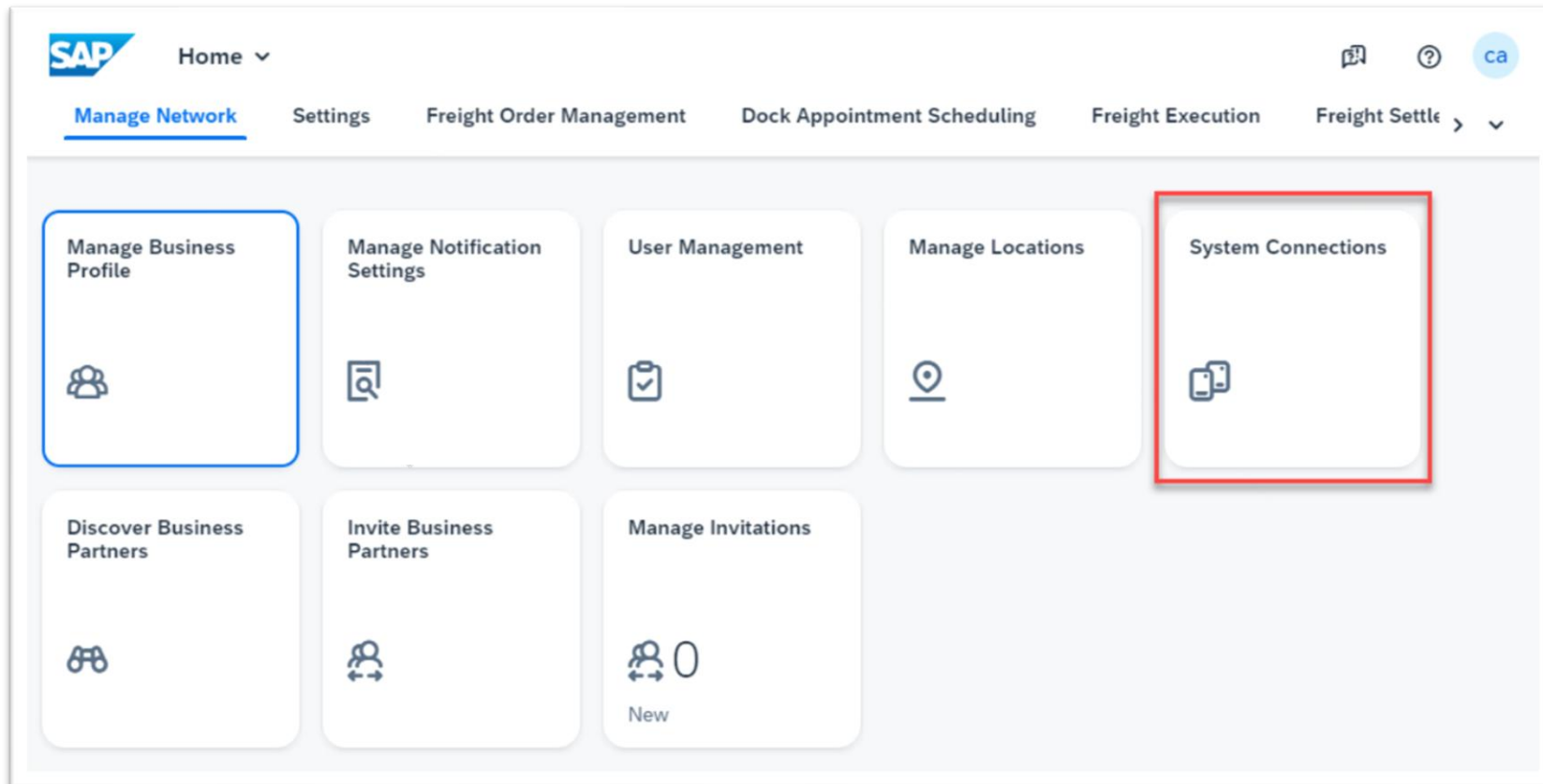
SAP Business Network Freight Collaboration provides APIs for the following B2B processes



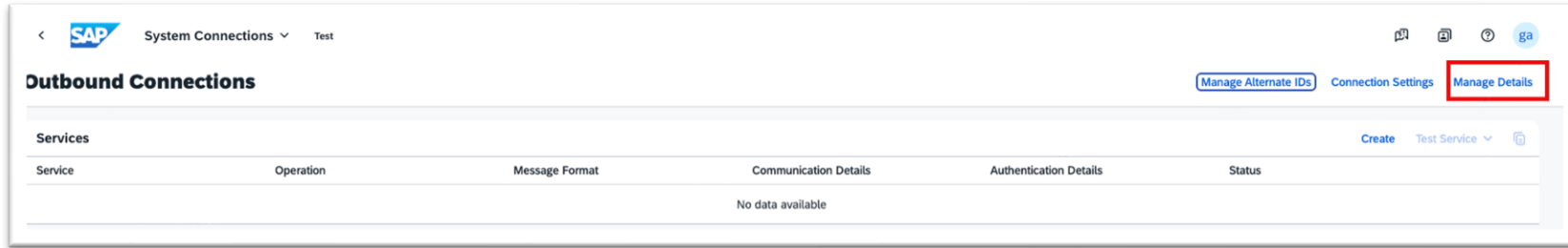
Configuration Steps on Carrier Tenant

Step 1: Configure Outbound Connections

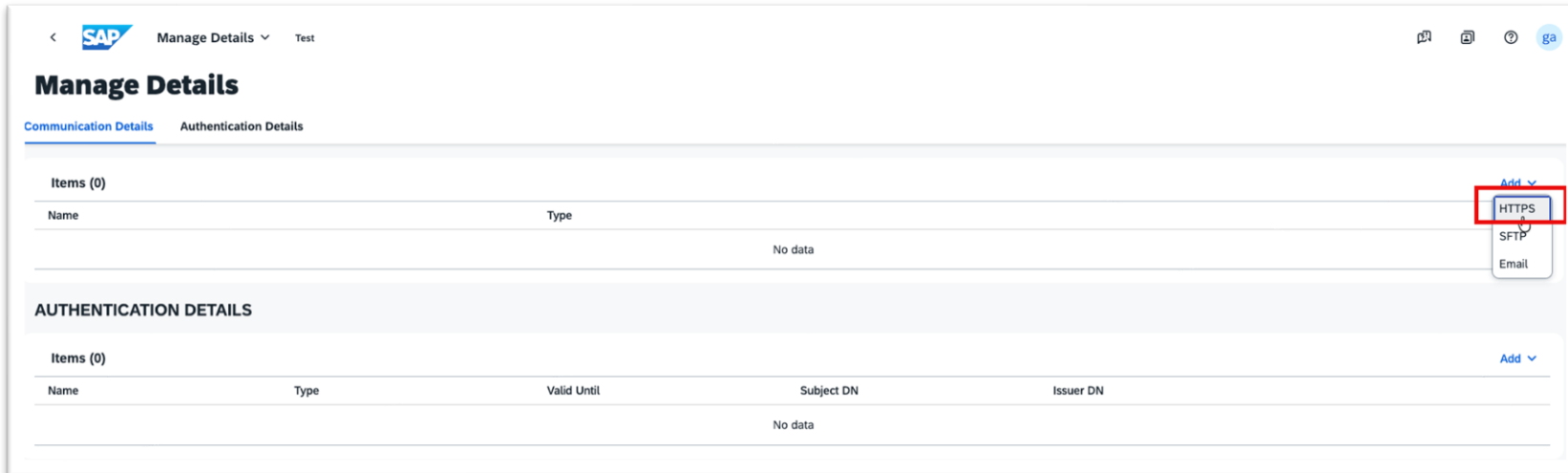
- On the Manage Network tab of your SAP Fiori launchpad, select the System Connections app



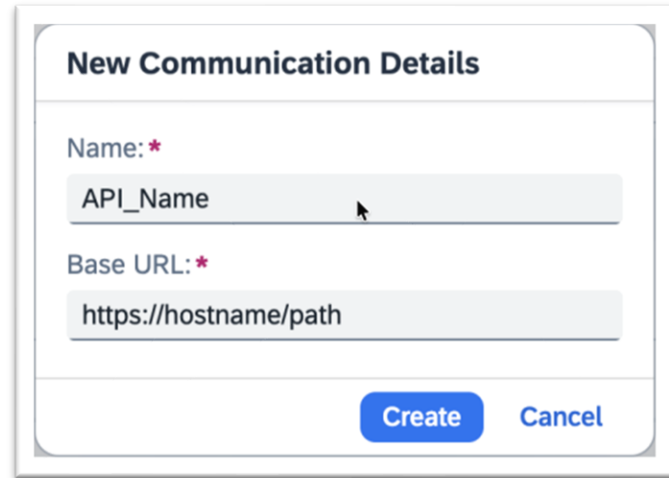
➤ Choose Manage Details in the upper right corner.



➤ Under the Communication Details tab, choose Add and select the HTTPS option from the dropdown menu

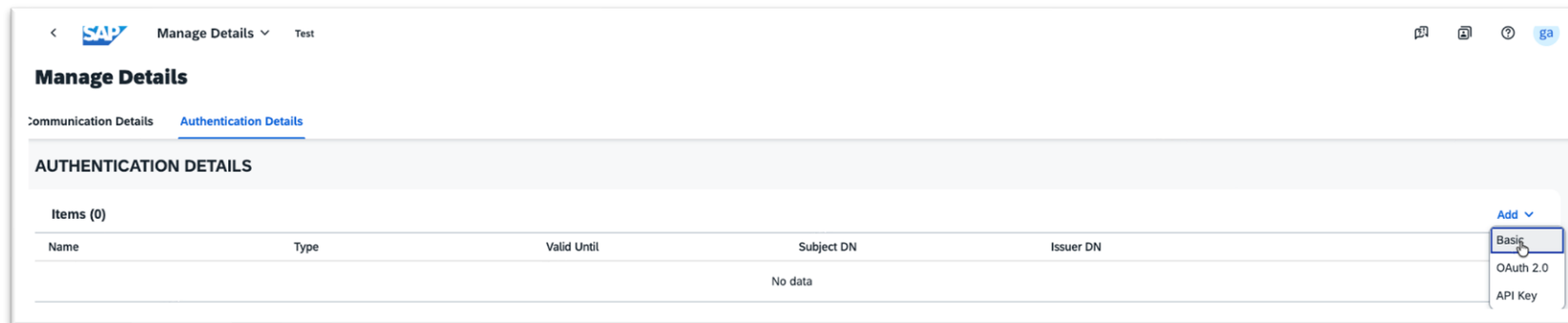


- Enter the following data in the New Communication Details window



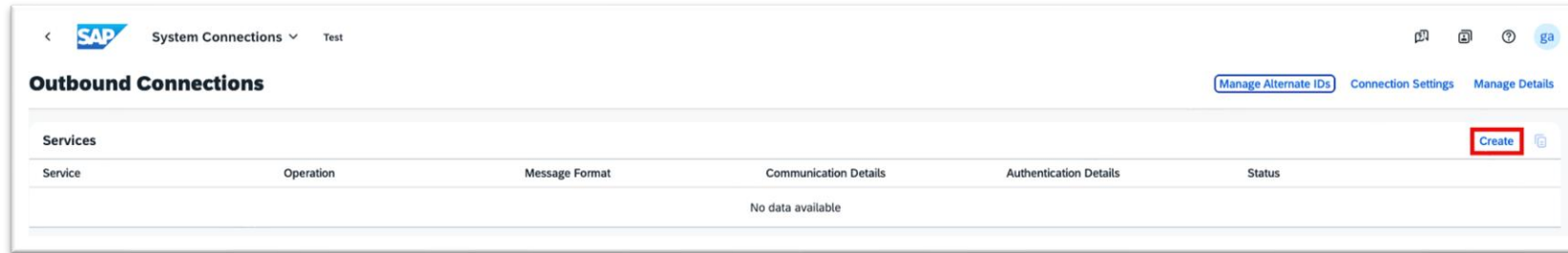
The image shows a dialog box titled "New Communication Details". It contains two input fields. The first is labeled "Name: *" and contains the text "API_Name". The second is labeled "Base URL: *" and contains the text "https://hostname/path". At the bottom right of the dialog, there are two buttons: "Create" (in blue) and "Cancel".

- Authenticating Outbound Requests from Network



The screenshot shows the "Manage Details" interface for "Authentication Details". The breadcrumb trail is ">Communication Details > Authentication Details". Below the title "AUTHENTICATION DETAILS", there is a section for "Items (0)". A table with the following columns is shown: Name, Type, Valid Until, Subject DN, and Issuer DN. The table currently contains no data, with "No data" displayed in the Subject DN column. On the right side of the table, there is an "Add" button with a dropdown menu. The dropdown menu is open, showing three options: "Basic", "OAuth 2.0", and "API Key". The "Basic" option is highlighted.

- Go back to the entry page of the System Connections app and create outbound connections for all API services that you provide.



- For a list of available services, see Assigning Authentication Details and a Base URL to a Service.
- Enter the following data for the new service.

Create Service

Service Name: *
Resource Tracking Parcel

Operation Name: *
Put order for tracking

Message Format: *
API

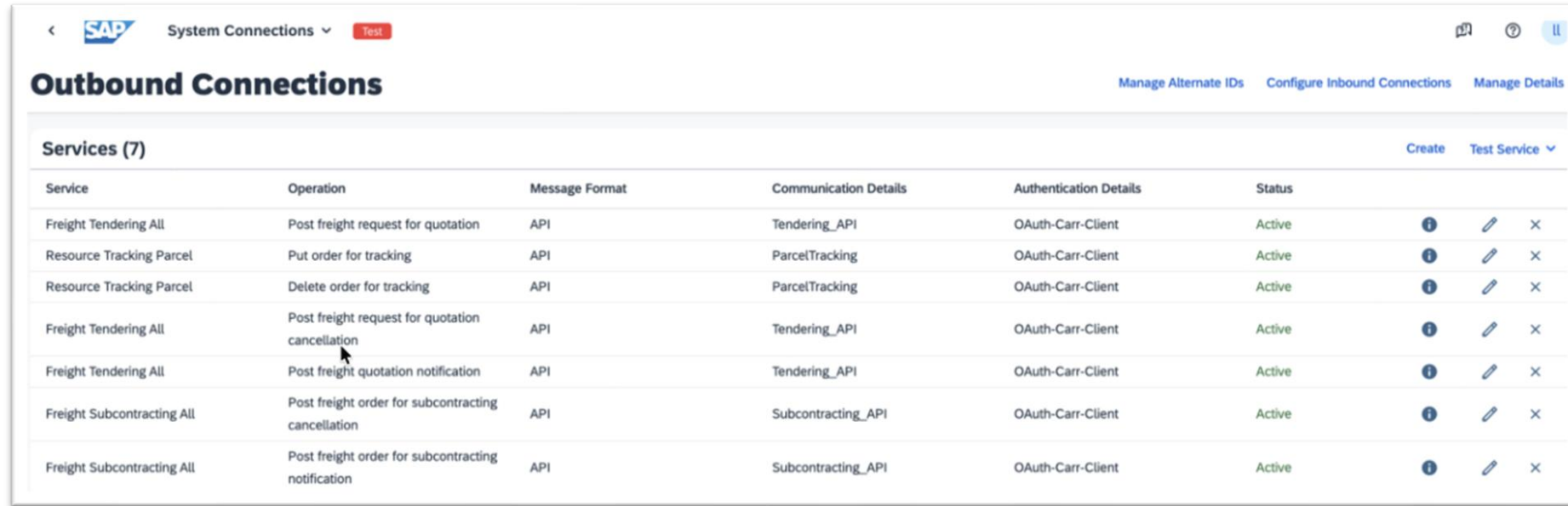
Communication Details: *
ParcelTracking

Authentication Details:
OAuth-Carr-Client

Activate the Operation:

Create Cancel

- You need to maintain an “Authentication Detail” only if your integration design assumes a network-to-network authentication, this is, if you have a single authentication for all the shippers in SAP Business Network for Logistics.



The screenshot shows the SAP System Connections interface for 'Outbound Connections'. The page includes a header with the SAP logo, 'System Connections', and a 'Test' button. Below the header, there are navigation links for 'Manage Alternate IDs', 'Configure Inbound Connections', and 'Manage Details'. The main content area is titled 'Outbound Connections' and features a table of services. The table has columns for Service, Operation, Message Format, Communication Details, Authentication Details, and Status. Each row represents a different service, such as 'Freight Tendering All' and 'Resource Tracking Parcel', with specific operations and authentication details. A 'Create' button and a 'Test Service' dropdown are located at the top right of the table.

Service	Operation	Message Format	Communication Details	Authentication Details	Status			
Freight Tendering All	Post freight request for quotation	API	Tendering_API	OAuth-Carr-Client	Active	i	✎	✕
Resource Tracking Parcel	Put order for tracking	API	ParcelTracking	OAuth-Carr-Client	Active	i	✎	✕
Resource Tracking Parcel	Delete order for tracking	API	ParcelTracking	OAuth-Carr-Client	Active	i	✎	✕
Freight Tendering All	Post freight request for quotation cancellation	API	Tendering_API	OAuth-Carr-Client	Active	i	✎	✕
Freight Tendering All	Post freight quotation notification	API	Tendering_API	OAuth-Carr-Client	Active	i	✎	✕
Freight Subcontracting All	Post freight order for subcontracting cancellation	API	Subcontracting_API	OAuth-Carr-Client	Active	i	✎	✕
Freight Subcontracting All	Post freight order for subcontracting notification	API	Subcontracting_API	OAuth-Carr-Client	Active	i	✎	✕

Step 2: Test Outbound Connectivity

- After configuration, you should directly perform a connection test to your API server.

Outbound Connections [Manage Alternate IDs](#) [Configure Inbound Connections](#) [Manage Details](#)

Services (11) Create [↕](#) **Test Service** [v](#)

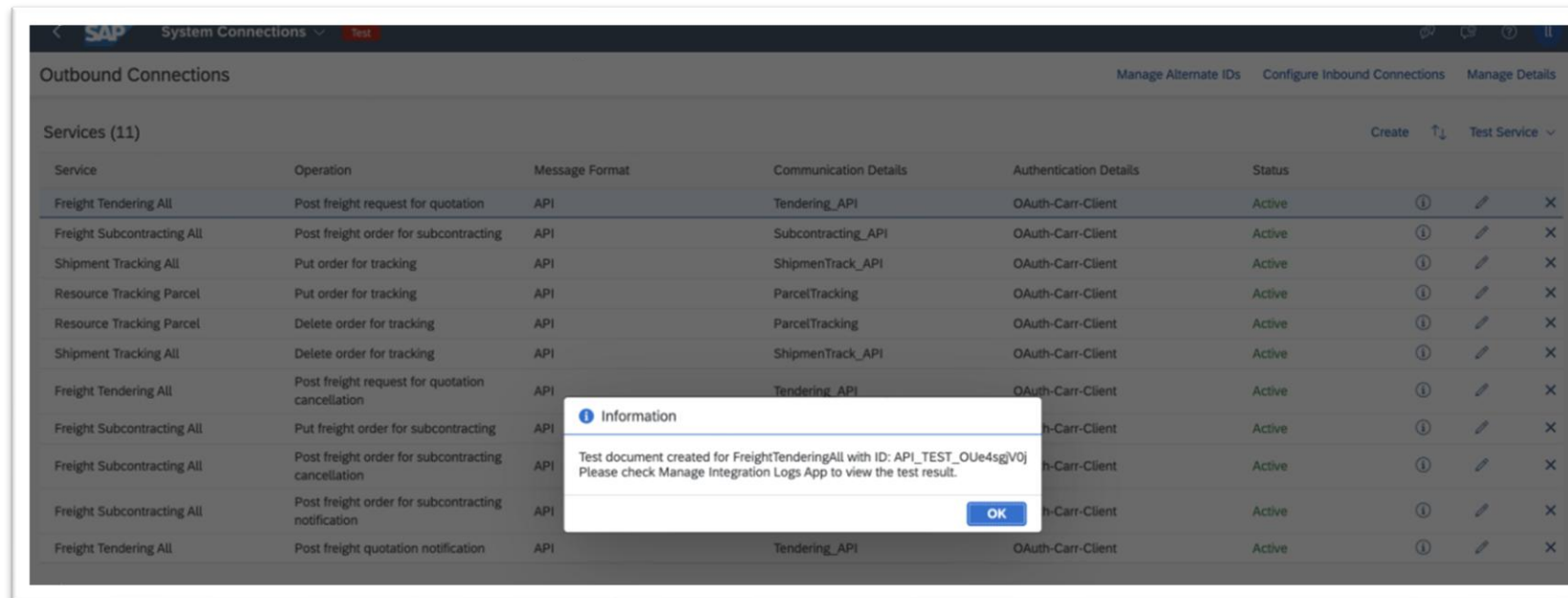
Service	Operation	Message Format	Communication Details	Authentication Details	Status	
Freight Tendering All	Post freight request for quotation	API	Tendering_API	OAuth-Carr-Client	Active	↕ ✎ ✕
Freight Subcontracting All	Post freight order for subcontracting	API	Subcontracting_API	OAuth-Carr-Client	Active	i ✎ ✕
Shipment Tracking All	Put order for tracking	API	ShipmenTrack_API	OAuth-Carr-Client	Active	i ✎ ✕
Resource Tracking Parcel	Put order for tracking	API	ParcelTracking	OAuth-Carr-Client	Active	i ✎ ✕
Resource Tracking Parcel	Delete order for tracking	API	ParcelTracking	OAuth-Carr-Client	Active	i ✎ ✕

With Default Payload

With Custom Payload

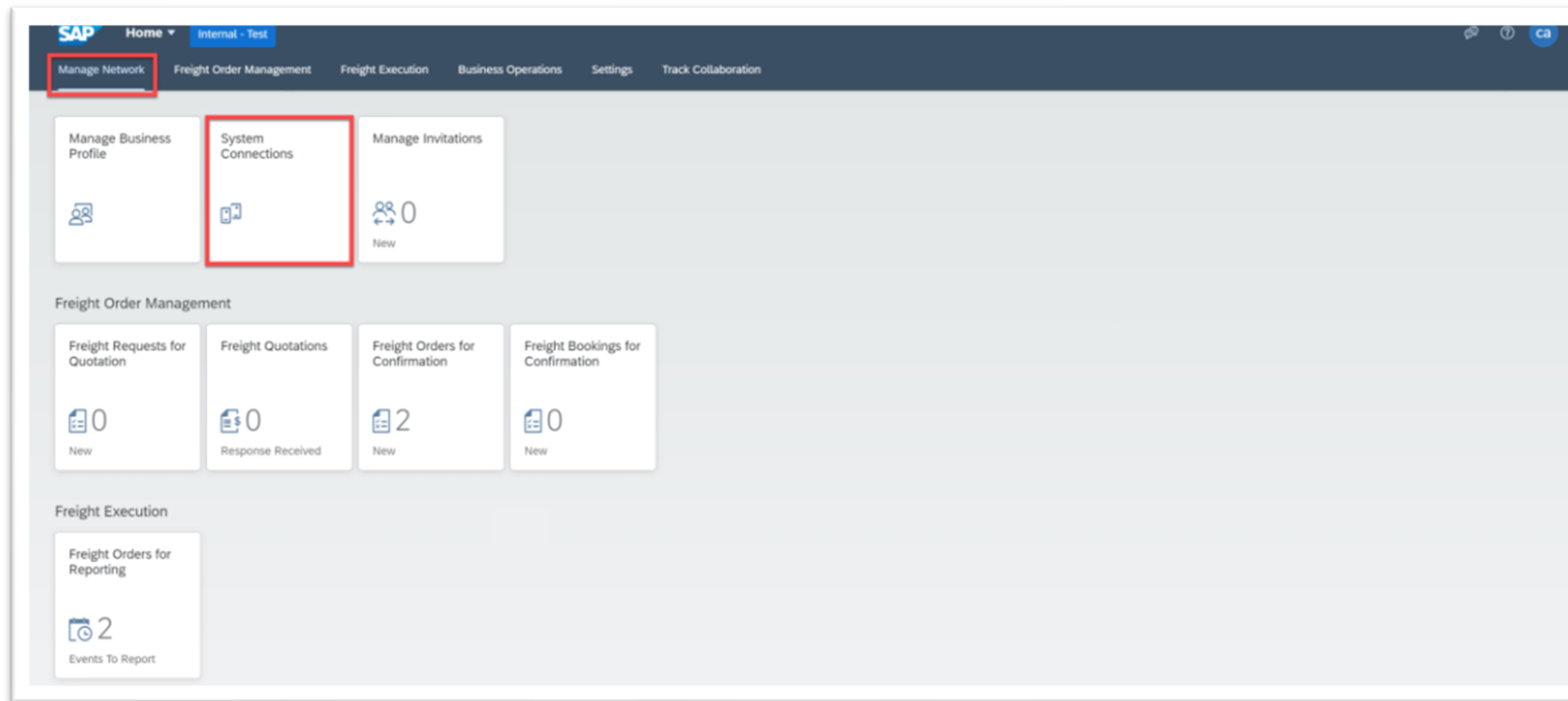
- The system generates a test freight order and attempts to send a call to your API server.

The below window is shown with the test freight order ID:



Step 3: Configure Inbound Connections

- On the Manage Network tab of your SAP Fiori launchpad, select the System Connections app.



- Proceed as follows:
1. Choose Connection Settings in the upper-right corner.
 2. Turn on the Enable Inbound Connections toggle.
 3. Select the Integration Platform as Multi-Cloud.

Connection Settings

Outbound

⚠ All the IP addresses in this [list](#) must be allowlisted for outbound connections to work. Make sure that you have added them to your allowlist, and enable outbound connections.

Integration Platform *

Multi-Cloud

Inbound

Enable Inbound Connections

ON

Integration Platform *

Multi-Cloud

Multi-Cloud

Neo (Deprecated)

[Show Service Credentials](#)

Save Cancel

- New Multi-Cloud integration platform, you can generate OAuth credentials for inbound authentication from the app itself

- Proceed as follows:

1. Select the list of Provider APIs that you want to connect to in SAP Business Network for Logistics.
2. Choose Save.
3. Generate or view the credentials by choosing Show Service Credentials.

Connection Settings

Outbound

⚠ All the IP addresses in this list must be allowlisted for outbound connections to work. Make sure that you have added them to your allowlist, and enable outbound connections.

Integration Platform*
Multi-Cloud

Inbound ↻

Enable Inbound Connections
 ON

Integration Platform*
Multi-Cloud

Provider APIs*
Freight Booking For Confirmation × 5 more

[Hide Service Credentials](#)

Service Credentials

Client ID: 📄

Client Secret: 📄

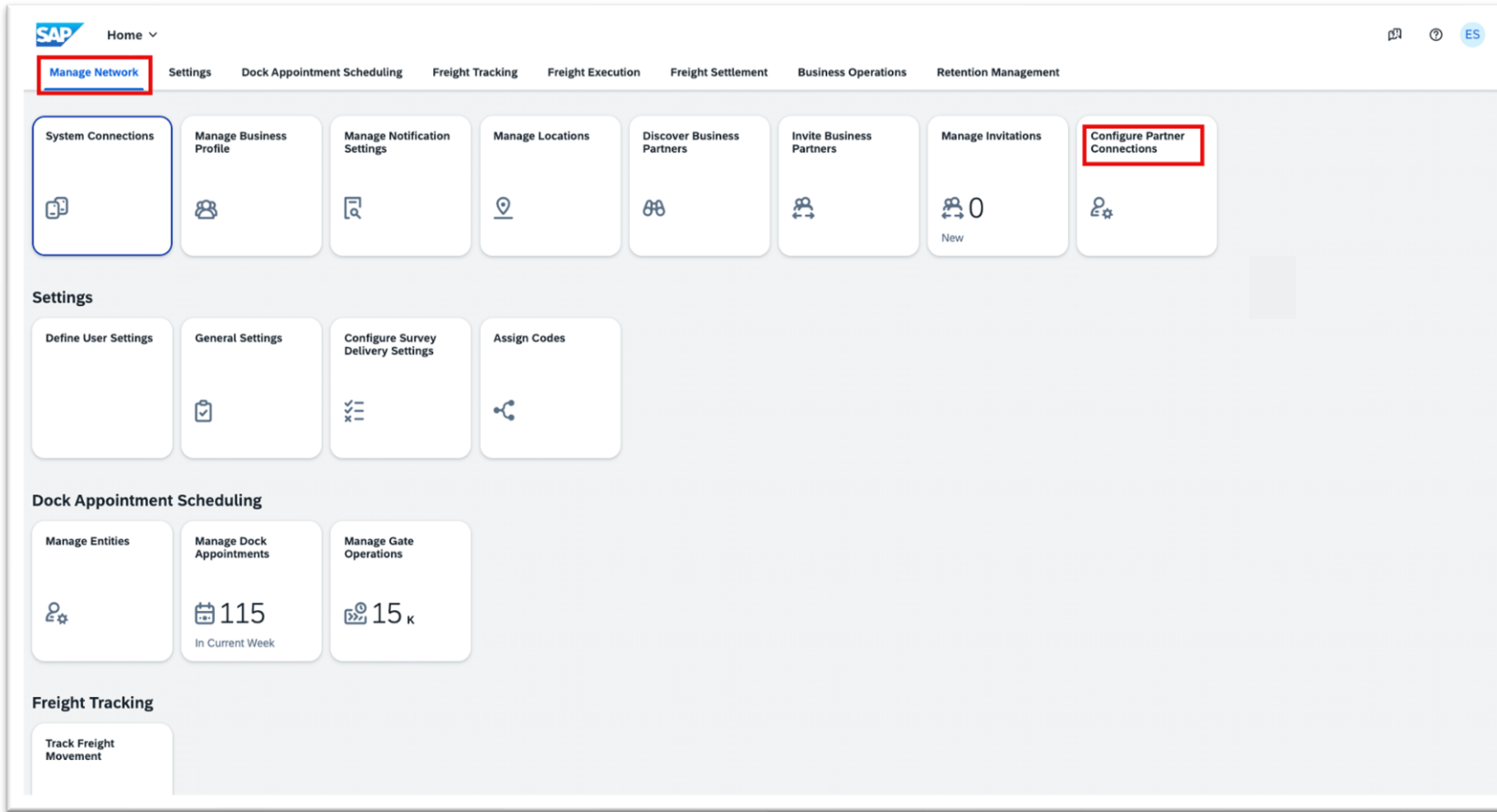
[Copy Authentication URL](#)

[Copy Host URL](#)

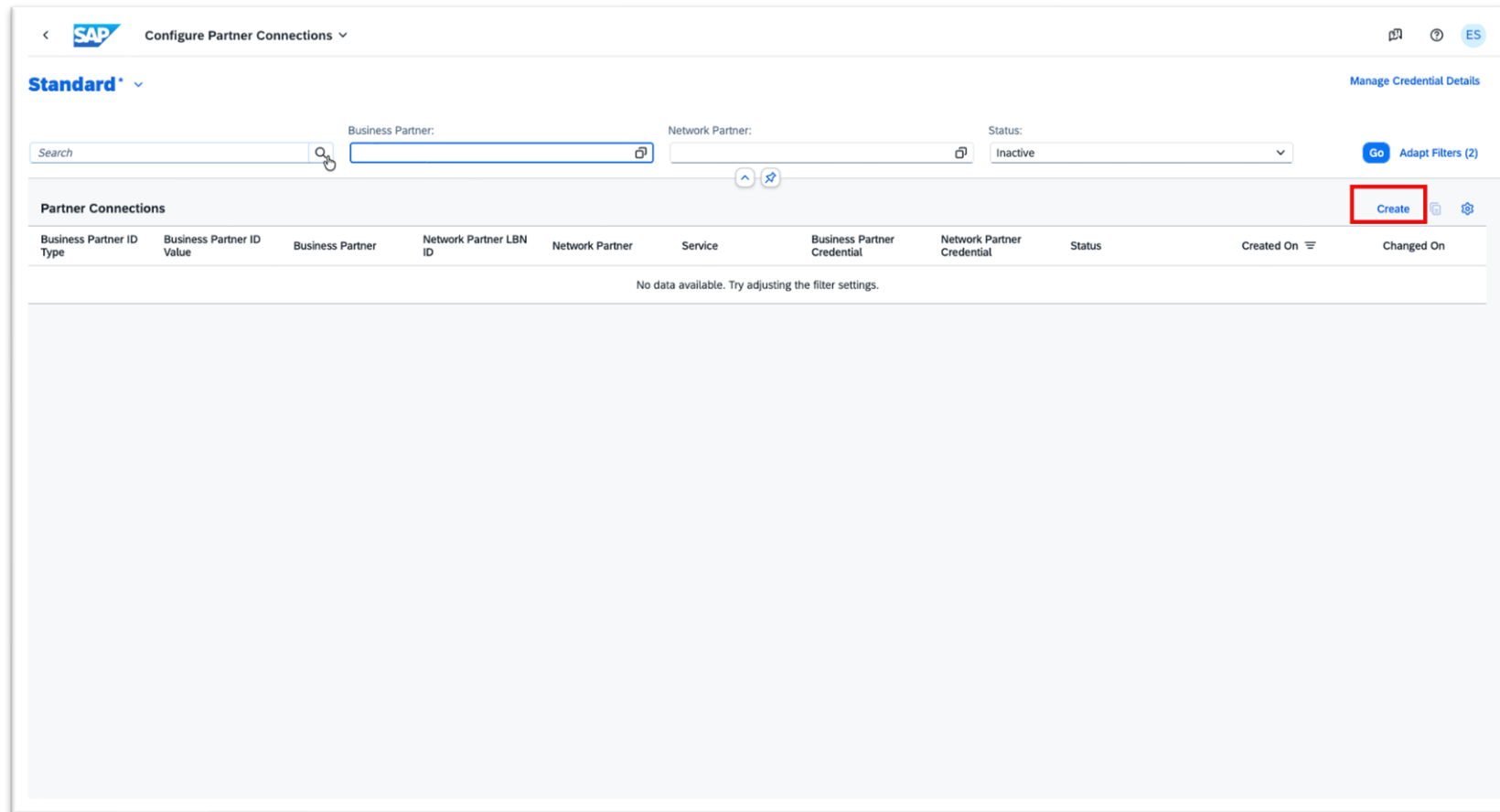
Save **Cancel**

Create Partner Connection (Shipper Tenant)

- On the Manage Network tab of your SAP Fiori launchpad, select the Configure Partner Connections



- Go to the entry page of the Configure Partner Connections app and create Create New Partner Connection for all API services that carrier provided:



➤ In the Configure Partner Connections app, choose Create.

Provide the following information:

➤ Business Partner ID Type → LBN ID


➤ Business Partner ID Value → Unique identifier representing the business partner.

➤ Service → Freight Subcontracting All
Freight Ocean Booking All
Shipment Tracking All

➤ Save & Activate

The screenshot displays the SAP 'Configure Partner Connections' interface. The main area shows a table for 'Partner Connections' with columns for Business Partner ID Type, Business Partner ID Value, Business Partner, Network Partner LBN ID, Network Partner, Service, Business Partner Credential, Network Partner Credential, and Status. The table is currently empty, showing 'No data available. Try adjusting the filter settings.' To the right, the 'Create New Partner Connection' form is visible, with four red annotations: 1 points to the 'Create' button, 2 points to the 'Business Partner ID Type' dropdown menu (set to 'LBN ID'), 3 points to the 'Service' dropdown menu (set to 'Freight Subcontracting All'), and 4 points to the 'Save & Activate' button at the bottom of the form. The form also includes fields for 'Business Partner (LBN ID)', 'Network Partner (LBN ID)', 'Business Partner Credential', and 'Network Partner Credential'. The 'Business Partner (LBN ID)' dropdown is set to 'Carrier01 FBC Manual Acceptance (10010001551)'. The 'Service' dropdown is set to 'Freight Subcontracting All'. The 'Custom Headers' section shows 'Headers (0)' with a plus sign to add more.

➤ Configure Partner Connections


Configure Partner Connections
ES

Standard*
Manage Credential Details

Adapt Filters (2)

Partner Connections (3)
Create

Business Partner ID Type	Business Partner ID Value	Business Partner	Network Partner LBN ID	Network Partner	Service	Business Partner Credential	Network Partner Credential	Status	Created On	Changed On
LBN ID	1001C	Carrier01 FBC Manual Acceptance	-	-	Freight Subcontracting All	-	-	Active	Nov 11, 2025, 12:03:27 PM	Nov 11, 2025, 12:03:27 PM
LBN ID	10010	Carrier01 FBC Manual Acceptance	1001000	Partner FBC Manual Acceptance	Shipment Road Tracking LTL	-	-	Active	Nov 10, 2025, 7:03:50 PM	Nov 10, 2025, 7:03:50 PM
LBN ID	100100	Carrier01 FBC Manual Acceptance	-	-	Freight Ocean Booking All	-	-	Active	Sep 8, 2022, 11:28:58 AM	Sep 8, 2022, 11:28:58 AM



Demo

Your perspective matters

Q & A



SAP Help / KBA articles

- <https://help.sap.com/docs/business-network-freight-collaboration>
- [How to Integrate with SAP Business Network Freight Collaboration \(Carrier APIs\)](#)
- [SAP Business Accelerator Hub](#)
- [3441287 - Error: External communication is not configured by the shipper for ShipmentTrackingAll](#)