

# IG-46492: Automation of Source-to-Pay with SAP Business Network (42K) using SAP Integration Suite

## Technical Details

Title:	Automation of Source-to-Pay with SAP Business Network (42K) using SAP Integration Suite
Reference Number:	IG-46492
Products:	SAP Business Network SAP Integration Suite, managed gateway for spend management and SAP Business Network
User Type:	Buyer
Type:	New
Enablement:	Customer configured
Action:	Info only
Lifecycle Phase:	
Business Process:	Manage Supplier and Collaboration
Valid As Of:	
Latest Revision:	
Release:	

## Integration Details

SAP Ariba Solution Integrations:	SAP Business Network
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## Description

This feature provides an integration package enabling buyers on SAP S/4HANA Cloud or SAP S/4HANA to seamlessly integrate with SAP Business Network using SAP Integration Suite in the 42K integration scenario to send and receive transaction data. The feature provides standard mapping content for 42K integration scenario allowing buyers to transform their transactional data with minimum configuration.

You can use the feature to transform the SOAP transactions from SAP S/4HANA Cloud or SAP S/4HANA into cXML output supported by SAP Business Network.

The feature introduces another integration option for buyers that have a license to SAP Integration Suite in the 42K integration scenario. You now have the flexibility to integrate your SAP S/4HANA Cloud or SAP S/4HANA system with SAP Business Network using either SAP Integration Suite or SAP Integration Suite, managed gateway for spend management and SAP Business Network.

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The feature uses the Cloud Integration capability within SAP Integration Suite. Cloud Integration provides a set of tools and applications that help you perform end-to-end tasks on development and deployment, packaging and publishing, accessing, and editing the integration content. For more information, see [Development for Cloud Integration](#).

## Integration Flow Templates

To use the feature, you must implement the supporting integration flow templates in SAP Integration Suite. The integration flows integrate and route the transformed documents to and from SAP Business Network. In SAP Integration Suite, you can find the package, [Automation of Source-to-Pay with SAP Business Network \(42K\) Using SAP Integration Suite](#). The package consists of artifacts that contain the integration flow templates for inbound and outbound communication, and different document types. You can choose to configure the required document types for your business scenario.

For example, if your business scenario involves the purchase order document type, you must configure and deploy the [Send Purchase Order from SAP S/4HANA Cloud or SAP S/HANA to SAP Business Network](#) artifact.

For more information on the artifacts, see [Artifacts in the Automation of Source-to-Pay with SAP Business Network \(42K\) Using SAP Integration Suite Package](#).

You can customize the feature to implement specific integration scenarios relevant to your business use case by extending the capability of the integration content provided by SAP. This approach allows you to retain the standard content provided by SAP without any modifications. See [Integration Flow Extension](#).

### **Caution**

You can edit and modify the related integration flows contained in the standard integration package provided by SAP. However, further updates to the standard integration content in the SAP Business Accelerator Hub can't be applied to the modified content in your design workspace. Copying the updated standard package from the SAP Business Accelerator Hub to the Design workspace of the tenant overwrites all your changes made to that package. See [Use Prepackaged Integration Content Provided by SAP](#).

## High-Level Steps About Setting up the 42K Integration Scenario Using SAP Integration Suite

Step	Where to Perform This Step	Who can Perform This Step	Where to find the Information to Perform This Step
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Step	Where to Perform This Step	Who can Perform This Step	Where to find the Information to Perform This Step
Configure your SAP S/4HANA Cloud or SAP S/4HANA system.	SAP S/4HANA Cloud or SAP S/4HANA	Buyer	<p><a href="#">SAP Best Practices for SAP S/4HANA Cloud, Private Edition Version</a></p> <p><a href="#">SAP Best Practices for SAP S/4HANA Cloud Public Edition Version</a></p> <p><b>i Note</b></p> <ul style="list-style-type: none"> <li>• While configuring SAP_COM_0508), ensure that the <b>Use WSRM</b> check box is not selected.</li> <li>• Skip the information related to enabling and configuring SAP Integration Suite, managed gateway for spend management and SAP Business Network.</li> </ul>
Configure your SAP Business Network application.	SAP Business Network	Buyer	<p><a href="#">SAP Best Practices for SAP S/4HANA Cloud, Private Edition Version</a></p> <p><a href="#">SAP Best Practices for SAP S/4HANA Cloud Public Edition Version</a></p> <p><b>i Note</b></p> <p>Skip the information related to enabling and configuring SAP Integration Suite, managed gateway for spend management and SAP Business Network.</p>

Step	Where to Perform This Step	Who can Perform This Step	Where to find the Information to Perform This Step
<p>Create new user credentials with the <b>Type as User Credentials</b> for:</p> <ul style="list-style-type: none"> <li>Outbound communication (from backend system to SAP Business Network)</li> </ul> <p><b>i Note</b> Enter your ANID in the <b>User</b> field.</p> <ul style="list-style-type: none"> <li>Inbound communication (from SAP Business Network to backend system)</li> </ul> <p><b>i Note</b> Enter your backend user ID in the <b>User</b> field.</p>	SAP Integration Suite	Buyer	<a href="#">Deploying a User Credentials Artifact</a>
<p>Download the <b>Automation of Source-to-Pay with SAP Business Network (42K) Using SAP Integration Suite</b> package to your design workspace.</p>	SAP Integration Suite	Buyer	<a href="#">Working with Prepackaged Integration Content</a>
<p>Configure and deploy the artifacts present in the <b>Automation of Source-to-Pay with SAP Business Network (42K) Using SAP Integration Suite</b> package.</p>	SAP Integration Suite	Buyer	<a href="#">Artifacts in the Automation of Source-to-Pay with SAP Business Network (42K) Using SAP Integration Suite Package</a>

## Prerequisites

- You have a license to SAP Integration Suite.
- You have the necessary permissions to configure SAP Integration Suite. See [Initial Setup](#) and [Involved Roles](#).
- You have configured the service key that SAP S/4HANA Cloud or SAP S/4HANA needs to connect to SAP Integration Suite.
- You have configured a certificate-based service key and uploaded the certificates of SAP Business Network to the [Process Integration Runtime](#) instance.

For more information, see the prerequisites detailed in [SAP Best Practices for SAP S/4HANA Cloud, Private Edition Version](#) and [SAP Best Practices for SAP S/4HANA Cloud Public Edition Version](#).

## Restrictions

See the restrictions detailed in [SAP Best Practices for SAP S/4HANA Cloud, Private Edition Version](#) and [SAP Best Practices for SAP S/4HANA Cloud Public Edition Version](#).

## Changes to Existing Functionality

Previously, SAP Integration Suite, managed gateway for spend management and SAP Business Network was the only integration option used in the 42K integration scenario. Now, SAP Integration Suite has been introduced as an additional integration option in the 42K integration scenario. You have the flexibility to integrate your SAP S/4HANA Cloud or SAP S/4HANA system with SAP Business Network using either SAP Integration Suite or SAP Integration Suite, managed gateway for spend management and SAP Business Network.

## Related Information

[Handle Errors Gracefully](#)

[Managing Security Material](#)

# Artifacts in the Automation of Source-to-Pay with SAP Business Network (42K) Using SAP Integration Suite Package

The following table details the artifacts present in the **Automation of Source-to-Pay with SAP Business Network (42K) Using SAP Integration Suite** package. You must configure the **Receive Transaction Documents** and **Send Transaction Documents** artifacts. Based on your business scenario, you can configure the artifacts for the document types listed in the table.

Artifact	Description	Link to Procedure
<b>Receive Transaction Documents</b>	Configuring this integration flow template is mandatory as it used to receive documents from SAP S/4HANA Cloud or SAP S/4HANA, and SAP Business Network. Based on the document type received in SAP Integration Suite, the respective integration flow is called for further processing.	<a href="#">Configuring the Receive Transaction Documents Artifact</a>
<b>Send Transaction Documents</b>	Configuring this integration flow template is mandatory as it used to send documents to SAP S/4HANA Cloud or SAP S/4HANA, and SAP Business Network.	<a href="#">Configuring the Send Transaction Documents Artifact</a>
<b>Send Request for Quotation from SAP S4HANA Cloud or SAP S4HANA to SAP Business Network</b>	Configure this integration flow template to transform the outbound request for quotation document in the SOAP format from SAP S/4HANA Cloud or SAP S/4HANA to the cXML format supported by SAP Business Network.	<a href="#">Configuring Artifacts for Outbound Documents</a>
<b>Receive QuoteMessage-Award in SAP S4HANA Cloud or SAP S4HANA from SAP Business Network</b>	Configure this integration flow template to transform the inbound QuoteMessage document in the cXML format from SAP Business Network to the SOAP format supported by SAP S/4HANA Cloud or SAP S/4HANA.	<a href="#">Configuring Artifacts for Inbound Documents</a>

Artifact	Description	Link to Procedure
Send Purchase Order from SAP S4HANA Cloud or SAP S4HANA to SAP Business Network	Configure this integration flow template to transform the outbound request for purchase order document in the SOAP format from SAP S/4HANA Cloud or SAP S/4HANA to the cXML format supported by SAP Business Network.	<a href="#">Configuring Artifacts for Outbound Documents</a>
Receive Order Confirmation in SAP S4HANA Cloud or SAP S4HANA from SAP Business Network	Configure this integration flow template to transform the inbound order confirmation document in the cXML format from SAP Business Network to the SOAP format supported by SAP S/4HANA Cloud or SAP S/4HANA.	<a href="#">Configuring Artifacts for Inbound Documents</a>
Receive Advance Ship Notice in SAP S4HANA Cloud or SAP S4HANA from SAP Business Network	Configure this integration flow template to transform the advance ship notice document in the cXML format from SAP Business Network to the SOAP format supported by SAP S/4HANA Cloud or SAP S/4HANA.	<a href="#">Configuring Artifacts for Inbound Documents</a>
Receive Invoice in SAP S4HANA Cloud or SAP S4HANA from SAP Business Network	Configure this integration flow template to transform the inbound invoice document in the cXML format from SAP Business Network to the SOAP format supported by SAP S/4HANA Cloud or SAP S/4HANA.	<a href="#">Configuring Artifacts for Inbound Documents</a>
Send Invoice Status Update from SAP S4HANA Cloud or SAP S4HANA to SAP Business Network	Configure this integration flow template to transform the outbound invoice status update document in the SOAP format from SAP S/4HANA Cloud or SAP S/4HANA to the cXML format supported by SAP Business Network.	<a href="#">Configuring Artifacts for Outbound Documents</a>
Send MM-INVOICE ERP-initiated Invoice from SAP S4HANA Cloud or SAP S4HANA to SAP Business Network	Configure this integration flow template to transform the outbound (MM-based) ERP-initiated invoice document in the SOAP format from SAP S/4HANA Cloud or SAP S/4HANA to the cXML format supported by SAP Business Network.	<a href="#">Configuring Artifacts for Outbound Documents</a>
Receive Service Entry Sheet in SAP S4HANA Cloud or SAP S4HANA from SAP Business Network	Configure this integration flow template to transform the inbound service entry sheet document in the cXML format from SAP Business Network to the SOAP format supported by SAP S/4HANA Cloud or SAP S/4HANA.	<a href="#">Configuring Artifacts for Inbound Documents</a>
Send ServiceEntrySheetResponse from SAP S4HANA Cloud or SAP S4HANA to SAP Business Network	Configure this integration flow template to transform the outbound service entry sheet (response) document in the SOAP format from SAP S/4HANA Cloud or SAP S/4HANA to the cXML format supported by SAP Business Network.	<a href="#">Configuring Artifacts for Outbound Documents</a>
Send Goods Receipt from SAP S4HANA Cloud or SAP S4HANA to SAP Business Network	Configure this integration flow template to transform the outbound goods receipt document in the SOAP format from SAP S/4HANA Cloud or SAP S/4HANA to the cXML format supported by SAP Business Network.	<a href="#">Configuring Artifacts for Outbound Documents</a>

Artifact	Description	Link to Procedure
<a href="#">Send Payment Proposal from SAP S4HANA Cloud or SAP S4HANA to SAP Business Network</a>	Configure this integration flow template to transform the outbound payment proposal document in the SOAP format from SAP S/4HANA Cloud or SAP S/4HANA to the cXML format supported by SAP Business Network.	<a href="#">Configuring Artifacts for Outbound Documents</a>
<a href="#">Receive PayMeNow in SAP S4HANA Cloud or SAP S4HANA from SAP Business Network</a>	Configure this integration flow template to transform the inbound PayMeNow document in the cXML format from SAP Business Network to the SOAP format supported by SAP S/4HANA Cloud or SAP S/4HANA.	<a href="#">Configuring Artifacts for Inbound Documents</a>
<a href="#">Send Payment Remittance from SAP S4HANA Cloud or SAP S4HANA to SAP Business Network</a>	Configure this integration flow template to transform the outbound payment remittance document in the SOAP format from SAP S/4HANA Cloud or SAP S/4HANA to the cXML format supported by SAP Business Network.	<a href="#">Configuring Artifacts for Outbound Documents</a>
<a href="#">Send Payment Remittance Cancel from SAP S4HANA Cloud or SAP S4HANA to SAP Business Network</a>	Configure this integration flow template to transform the outbound payment remittance (cancel) document in the SOAP format from SAP S/4HANA Cloud or SAP S/4HANA to the cXML format supported by SAP Business Network.	<a href="#">Configuring Artifacts for Outbound Documents</a>

## Configuring the **Receive Transaction Documents** Artifact

### Prerequisites

- You have signed in to SAP Integration Suite.
- You have downloaded the [Automation of Source-to-Pay with SAP Business Network \(42K\) Using SAP Integration Suite](#) package to your [Design](#) workspace.
- You have created a package in your workspace to copy the integration flow templates.
- You have created user credentials for inbound and outbound communication.

### Context

Use this procedure to configure SAP Integration Suite to receive documents from SAP S/4HANA Cloud or SAP S/4HANA, and SAP Business Network.

#### **i Note**

The fields listed in the procedure are case-sensitive. Ensure that you enter the correct values.

### Procedure

1. In the [Automation of Source-to-Pay with SAP Business Network \(42K\) Using SAP Integration Suite](#) package, copy the [Receive Documents in SAP Integration Suite](#) artifact to the package that you've created in your [Design](#) workspace.

### **i Note**

When you're copying the artifact, ensure that you provide a unique name for the artifact.

2. Navigate to your package that contains the copied artifact.
3. In the **Artifacts** tab, select the checkbox of the artifact that you've copied. Click the Actions icon and select **Configure**.

The **Configure** "<artifact name>" dialog is displayed.

4. In the **Sender** tab:

- o **Sender:** Select **SAPBusinessNetwork**.
- o **Adapter Type:** Select **HTTPS**.
- o **Address:** Enter the path (without host or port) of your SAP Integration Suite instance URL that the SAP Business Network application must connect to.

Repeat the process with the **Sender** as **S4\_42K**. When you select **S4\_42K**:

- o **Adapter Type:** Select **SOAP**.
- o **Address:** Enter the path (without host or port) of your SAP Integration Suite instance URL that the SAP S/4HANA Cloud or SAP S/4HANA must connect to.

No changes are needed in the **Receiver** tab.

5. In the **More** tab:

- o **Type:** Select **All Parameters**.
- o **Environment:** For production environment, enter **PROD**. Any other value entered is treated as test environment.
- o **S4 System ID:** Enter the system ID of your SAP S/4HANA Cloud or SAP S/4HANA system.
- o **SAP Business Network Credential:** Enter the user credential that you've created for outbound communication.
- o **SAP Business Network ID:** Enter the ID associated with SAP Business Network (ANID).
- o **System Timezone:** Enter the timezone of your SAP S/4HANA Cloud or SAP S/4HANA system. For example, -6:00.

6. Click **Save** and then **Deploy**.

## Configuring the **Send Transaction Documents** Artifact

### Prerequisites

- You have signed in to SAP Integration Suite.
- You have downloaded the **Automation of Source-to-Pay with SAP Business Network (42K) Using SAP Integration Suite** package to your **Design** workspace.
- You have created a package in your workspace to copy the integration flow templates.
- You have created user credentials for inbound and outbound communication.

### Context

Use this procedure to configure SAP Integration Suite to send documents to SAP S/4HANA Cloud or SAP S/4HANA, and SAP Business Network.



## **i Note**

The fields listed in the procedure are case-sensitive. Ensure that you enter the correct values.

## Procedure

1. In the [Automation of Source-to-Pay with SAP Business Network \(42K\) Using SAP Integration Suite](#) package, copy the [Send Documents from SAP Integration Suite](#) artifact to the package that you've created in your [Design](#) workspace.

### **i Note**

When you're copying the artifact, ensure that you provide a unique name for the artifact.

2. Navigate to your package that contains the copied artifact.
3. In the [Artifacts](#) tab, select the checkbox of the artifact that you've copied. Click the Actions icon and select [Configure](#).  
The [Configure "<artifact name>"](#) dialog is displayed. No changes are needed in the [Sender](#) tab.
4. In the [Receiver](#) tab:
  - o [Receiver](#): Select [S4](#).
  - o [Adapter Type](#): Select [SOAP](#).
  - o [LocationID](#): Enter the location ID of your cloud connector.
5. In the [More](#) tab:
  - o [Type](#): Select [All Parameters](#).
  - o [Deployment \(cloud or onprem\)](#):
    - SAP S/4HANA Cloud: Enter [cloud](#).
    - SAP S/4HANA: Enter [onprem](#).
  - o [S4 Basic Authentication Credential](#): Enter the user credential that you've created for inbound communication.
  - o [S4 Host URL](#):
    - SAP S/4HANA Cloud: Enter the host of your SAP S/4HANA Cloud system URL.
    - SAP S/4HANA: Enter the host and port of your SAP S/4HANA on-premise system URL.
  - o [SAP Business Network Service URL](#): Enter the host of the SAP Business Network application URL.
6. Click [Save](#) and then [Deploy](#).

## Configuring Artifacts for Inbound Documents

### Prerequisites

- You have signed in to SAP Integration Suite.
- You have downloaded the [Automation of Source-to-Pay with SAP Business Network \(42K\) Using SAP Integration Suite](#) package to your [Design](#) workspace.
- You have created a package in your workspace to copy the integration flows.
- You have created user credentials for inbound and outbound communication.

## Context

Use this procedure to configure the documents sent from SAP Business Network to SAP S/4HANA Cloud or SAP S/4HANA. Repeat the procedure for each of the document types required in your business scenario. For example, if your business scenario involves order confirmation and invoice documents, repeat this procedure for the **Order Confirmation** and **Invoice** artifacts.

## Procedure

1. In the **Automation of Source-to-Pay with SAP Business Network (42K) Using SAP Integration Suite** package, copy the required artifact to the package that you've created in your **Design** workspace. For more information on the artifacts, see [Artifacts in the Automation of Source-to-Pay with SAP Business Network \(42K\) Using SAP Integration Suite Package](#).

### i Note

When you're copying the artifact, ensure that you provide a unique name for the artifact.

2. Navigate to your package that contains the copied artifact.
3. In the **Artifacts** tab, select the checkbox of the artifact that you've copied. Click the Actions icon and select **Configure**.  
The **Configure "<artifact name>"** dialog is displayed.
4. In the **More** tab:
  - o **Type**: Select **All Parameters**.
  - o (Optional) **Cross Reference: DefaultLang**: Maintain the default language to be used when SAP Business Network or SAP S/4HANA Cloud or SAP S/4HANA fail to send language details both for inbound and outbound messages. For example, en.
  - o **Process Direct Endpoint for Payload Post-Processing**: After the payload is transformed, if you want to add another integration flow, enter the endpoint URL of the integration flow that the transformed payload should reach. Else, enter false.
  - o **Process Direct Endpoint for Payload Pre-Processing**: Before the payload is transformed, if you want to add another integration flow, enter the endpoint URL of the integration flow that the payload should reach. Else, enter false.
  - o **Target API Path**: The path (without host or port) for the document type that you're configuring. This is the path that you've configured in the communication setup in SAP S/4HANA Cloud or SAP S/4HANA.
  - o (Applies to service entry sheet) **SES Revoke Target API Path**: The path (without host or port) for revoking the service entry sheet document type. This is the path that you've configured in the communication setup in SAP S/4HANA Cloud or SAP S/4HANA.

## Configuring Artifacts for Outbound Documents

### Prerequisites

- You have signed in to SAP Integration Suite.
- You have downloaded the **Automation of Source-to-Pay with SAP Business Network (42K) Using SAP Integration Suite** package to your **Design** workspace.
- You have created a package in your workspace to copy the integration flows.
- You have created user credentials for inbound and outbound communication.

### Context

This is custom documentation. For more information, please visit the [SAP Help Portal](#)

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Use this procedure to configure the documents sent from SAP S/4HANA Cloud or SAP S/4HANA to SAP Business Network. Repeat the procedure for each of the document types required in your business scenario. For example, if your business scenario involves request for quotation and purchase order documents, repeat this procedure for the [Request for Quotation](#) and [Purchase Order](#) artifacts.

## Procedure

1. In the [Automation of Source-to-Pay with SAP Business Network \(42K\) Using SAP Integration Suite](#) package, copy the required artifact to the package that you've created in your **Design** workspace. For more information on the artifacts, see [Artifacts in the Automation of Source-to-Pay with SAP Business Network \(42K\) Using SAP Integration Suite Package](#).

### **i** Note

When you're copying the artifact, ensure that you provide a unique name for the artifact.

2. Navigate to your package that contains the copied artifact.
3. In the **Artifacts** tab, select the checkbox of the artifact that you've copied. Click the Actions icon and select **Configure**.  
The **Configure "<artifact name>"** dialog is displayed.
4. In the **More** tab:
  - o **Type:** Select **All Parameters**.
  - o (Optional) **Cross Reference: DefaultLang:** Maintain the default language to be used when SAP Business Network or SAP S/4HANA Cloud or SAP S/4HANA fail to send language details both for inbound and outbound messages. For example, en.
  - o **Process Direct Endpoint for Payload Post-Processing:** After the payload is transformed, if you want to add another integration flow, enter the endpoint URL of the integration flow that the transformed payload should reach. Else, enter `false`.
  - o **Process Direct Endpoint for Payload Pre-Processing:** Before the payload is transformed, if you want to add another integration flow, enter the endpoint URL of the integration flow that the payload should reach. Else, enter `false`.