

SAP Document and Reporting Compliance for China Outgoing VAT Invoice: Setting Up SAP Integration suite

This document lists the required setup steps that you must perform in your SAP Integration suite tenant so that the integration between the partner and SAP S/4HANA Cloud Public Edition and SAP S/4HANA works. The setup steps are typically done by your SAP Integration suite consulting team, which is responsible for configuring the connection with SAP Integration suite. The team may be also responsible for maintaining the integration content, certificates/credentials on the SAP Integration suite tenant.

1. Prerequisites

1.1 Enable China Outgoing VAT Invoice Management Solution

You have enabled the China Outgoing VAT Invoice Management solution in SAP Document and Report Compliance.

1.2 Register with a Partner

You have registered with a partner to use its APIs for communicating with the Golden Tax Service.

1.3 Set Up SAP Integration suite Tenants

You have SAP Integration suite test and production tenants that are live, and users in the tenants have the rights to copy the integration package, to configure and deploy the integration flows. When your tenants are provisioned, you receive an email containing a Tenant Management (TMN) URL. You need this URL when configuring the communication between the SAP Integration suite tenant and your SAP S/4HANA Cloud Public Edition and SAP S/4HANA tenants. To deploy the security content, you must be assigned to the AuthGroup and Administrator roles. If you are a first-time user, you must first set up your users and their authorizations in the SAP Cloud cockpit.

2. Configuration Steps in SAP Integration suite

2.1 Copy Published Package

Procedure

1. In the **Discover** section of your tenant, select the package: **SAP Document and Reporting Compliance: Direct Connection for China Outgoing VAT Invoice - Generic Templates**.
2. Choose **Copy**.

2.2 Deploy Integration Flows, Message Mappings, and Script Collection

Procedure

1. Open the integration package that you copied.
2. Go to the **Artifacts** tab.

SAP Document and Reporting Compliance: Direct Connection for China Outgoing VAT Invoice - Generic Templates / Edit Export Delete Package

SAP Document and Reporting Compliance: Direct Connection for China Outgoing VAT Invoice - Generic Templates

Overview **Artifacts (7)** Documents Tags

Name	Type	Version	Actions
<input type="checkbox"/> China VAT Issue Request Handling This integration flow receives and stores invoice issuance requests. It verifies the correctness of payload and starts the lifecycle of golden tax documents and the issuance requests payload. Created	Integration Flow	1.0.0	
<input type="checkbox"/> China VAT Issue Request Processing This integration flow triggers the issuance requests periodically and sends them to golden tax system. Once the issuance requests have been consumed, it updates the golden tax documents accordingly. Created	Integration Flow	1.0.0	
<input type="checkbox"/> China VAT Query Request Handling This integration flow receives and stores invoice query requests. It verifies the correctness of payload, consume the golden tax document results and sends back the responses payload. Created	Integration Flow	1.0.0	
<input type="checkbox"/> China VAT Query Request Processing This integration flow triggers the query requests periodically and sends them to golden tax system. After that, it retrieves back and stores the results of golden tax documents. Created	Integration Flow	1.0.0	
<input type="checkbox"/> Issue Request Mapping Issuance Request Mapping Created	Message Mapping	1.0.0	
<input type="checkbox"/> Query Request Mapping Query Request Mapping Created	Message Mapping	1.0.0	
<input type="checkbox"/> Script Collection Global Script Collection Created	Script Collection	1.0.0	

3. Select an integration flow and choose **Configure** in the **Actions** icon.
4. Configure the parameters of the integration flow and save.
5. Configure other integration flows.
6. (Optional) Set timers for the integration flows *China VAT Invoice Issue Request Processing* and *China VAT Invoice Query Request Processing*.
7. Deploy the configured integration flows.
8. Deploy value mappings and script collection directly.

For information on how to configure the parameters of integration flows, see below sections.

2.2.1 Configure the Parameters of Integration Flows

2.2.1.1 Integration Flow for China VAT Issue Requests Handling

This template integration flow is used to receive and handle the direct connection issuance requests from SAP S/4HANA Cloud Public Edition and SAP S/4HANA, store the requests data in the data store *IssueRequest_Storage* and Golden Tax documents data in the data store *GoldenTaxDocument_Result*.

Parameters:

Configure "China VAT Issue Request Handling"

Sender More

Connection

Sender:

Adapter Type:

User Role: Select

Parameter	Explanation
Sender	Default: VATIssueRequester, sender of the issuance requests.
Adapter Type	Default: HTTPS, sender channel between the send step and the receiver.
User Role	Default: ESBMessage.send, role to authorize a sender system to call a tenant using basic authentication and to get messages processed on the tenant.

Configure "China VAT Issue Request Handling"

Sender [More](#)

Type: All Parameters

ExpirationPeriod: 7

MaxRetryCount: 1

RetentionPeriod: 2

Parameter	Explanation
ExpirationPeriod	Default: 7 (days), number of days within which the messages must be fetched before alerts are raised. The minimum value of the <i>ExpirationPeriod</i> should be at least twice of the <i>RetentionPeriod</i> .
MaxRetryCount	Default: 1 (time), number of retries for processing the received requests handled with errors.
RetentionPeriod	Default: 2 (days), number of days after which the stored messages are deleted.

2.2.1.2 Integration Flow for China VAT Issue Requests Processing

This template integration flow is used to process stored issuance requests, send the requests to the partner, and update Golden Tax documents data in the data store *GoldenTaxDocument_Result*.

Parameters:

Configure "China VAT Issue Request Processing"

[More](#)

Type: All Parameters

DigitalSignEnabled:

ExpirationPeriod: 7

IssueAPIName:

MaxRetryCount: 1

RetentionPeriod: 2

ServiceEndpointURL:

Parameter	Explanation
DigitalSignEnabled	Blank by default: The digital sign is not enabled. You can enter "X" to enable the digital sign.
ExpirationPeriod	Default: 7 (days), number of days within which the messages must be fetched before alerts are raised. The minimum value of the <i>ExpirationPeriod</i> should be at least twice of the <i>RetentionPeriod</i> .
QueryAPIName	The query API name of the partner.
RetentionPeriod	Default: 2 (days), number of days after which the stored messages are deleted.
MaxRetryCount	Default: 1 (time), number of retries for processing the received requests handled with errors.
ServiceEndpointURL	The service endpoint URL of the partner.

2.2.1.3 Integration Flow for China VAT Query Requests Handling

The integration flow is used to receive and handle the direct connection query requests from SAP S/4HANA Cloud Public Edition and SAP S/4HANA, store the requests data in the data store *QueryRequest_Storage* and Golden Tax documents data in the data store *GoldenTaxDocument_Result*.

Parameters:

Configure "China VAT Query Request Handling"

[Sender](#) More

Sender: ▼

Adapter Type: ▼

Connection

User Role:

Parameter	Explanation
Sender	Default: VATIssueRequester, sender of the issuance requests.
Adapter Type	Default: HTTPS, sender channel between the send step and the receiver.
User Role	Default: ESBMessage.send, role to authorize a sender system to call a tenant using basic authentication and to get messages processed on the tenant.

Configure "China VAT Query Request Handling"

Sender [More](#)

Type: ▼

ExpirationPeriod:

MaxRetryCount:

RetentionPeriod:

Parameter	Explanation
ExpirationPeriod	Default: 7 (days), number of days within which the messages must be fetched before alerts are raised. The minimum value of the ExpirationPeriod should be at least twice of the RetentionPeriod.
MaxRetryCount	Default: 1 (time), number of retries for processing the received requests handled with errors.
RetentionPeriod	Default: 2 (days), number of days after which the stored messages are deleted.

2.2.1.4 Integration Flow for China VAT Query Requests Processing

The integration flow is used to periodically fetch the issued VAT invoice information from the partner and store the invoice data in the data store *GoldenTaxDocument_Result*.

Parameters:

Configure "China VAT Query Request Processing"	
More	
Type:	All Parameters
ExpirationPeriod:	7
QueryAPIName:	
RetentionPeriod:	2
ServiceEndpointURL:	

Parameter	Explanation
ExpirationPeriod	Default: 7 (days), number of days within which the messages must be fetched before alerts are raised. The minimum value of the ExpirationPeriod should be at least twice of the RetentionPeriod.
QueryAPIName	The query API name of the partner.
RetentionPeriod	Default: 2 (days), number of days after which the stored messages are deleted.
ServiceEndpointURL	The service endpoint URL of the partner.

2.2.2 (Optional) Set timers for integration flows

2.2.2.1 China VAT Invoice Issue Requests Processing

Procedure:

1. Edit the integration flow *China VAT Issue Requests Processing*.
2. Select the timer *Trigger for Issue Request processing*.
3. Go to the **Scheduler** tab.
4. Configure the repeat frequency and save. By default, the integration flow is repeated every 5 minutes.

The screenshot shows the configuration for the integration process "China VAT Issue Request Processing". The process flow includes a "Trigger for Issue Request processing" timer, a "Looping Single Request Process Call" activity, and an "End" node. The "Scheduler" tab is active, showing the following settings:

- Frequency:** Enter As: Simple Schedule, Repeat: Minutes, Every: 5 Minutes
- Time Range:** Start Date and Time: 2025-03-18 09:00, End Date and Time: 2025-04-30 18:00, Time Zone: (UTC 8:00) China Standard Time(Asia/Shanghai)
- Throw exception on schedule expiry

2.2.2.2 China VAT Query Request Processing

1. Edit the integration flow *China VAT Query Request Processing*.
2. Select the timer *Trigger for Query Request processing*.
3. Go to the **Scheduler** tab.
4. Configure the repeat frequency and save. By default, the integration flow is repeated every 10 minutes.

The screenshot shows the configuration for the integration process 'China VAT Query Request Processing'. The process flow is: Trigger for Query Request processing (highlighted with a red box) → Looping Single Request Process Call → End. Below the flow, the 'Timer Start' configuration is shown, with the 'Scheduler' tab selected (highlighted with a red box). The configuration includes:

- General: Scheduler
- Basic/Advanced: Basic
- Frequency: Enter As: Simple Schedule, Repeat: Minutes, Every: 10 Minutes
- Time Range: Start Date and Time: 2025-03-18 09:00, End Date and Time: 2025-04-30 18:00, Time Zone: (UTC 8:00) China Standard Time(Asia/Shanghai)
- Throw exception on schedule expiry:

2.2.3 (Optional) Get Endpoints of Deployed Integration Flows Procedure

1. Under the **Monitor** section of your tenant, select **Integrations and APIs**.
2. Find the deployed integration flows from **Manage Integration Content**.
3. Select **Endpoints** to get the service URL of the deployed integration flows.

The screenshot shows the SAP Monitor interface for 'Manage Integration Content'. The search results show several integration flows, including 'China VAT Issue Request Handling' (Status: Started). The 'Endpoints' tab is selected, showing the service URL: `https://[redacted]/IssueEndpoint` (highlighted with a red box). The 'Status Details' section shows a message: 'The Integration Flow is deployed successfully.'

2.3 Deploy Security Materials

OAuth2 Client Credentials for the Partner

When you try to communicate with the partner, you need to configure the OAuth2 client credentials and grant them to integration flows. You configure the security materials in your SAP Integration suite tenant.

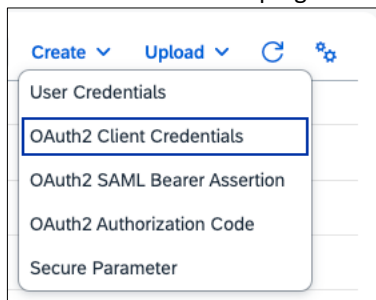
The required OAuth2 client credentials are as follows:

Name	Description
Token Service URL	URL provided by the partner for acquiring the OAuth2 token to secure their service.
Client ID	Client ID provided by the partner for acquiring the OAuth2 token to secure their service.
Client Secret	Client secret provided by the partner for acquiring the OAuth2 token to secure their service.

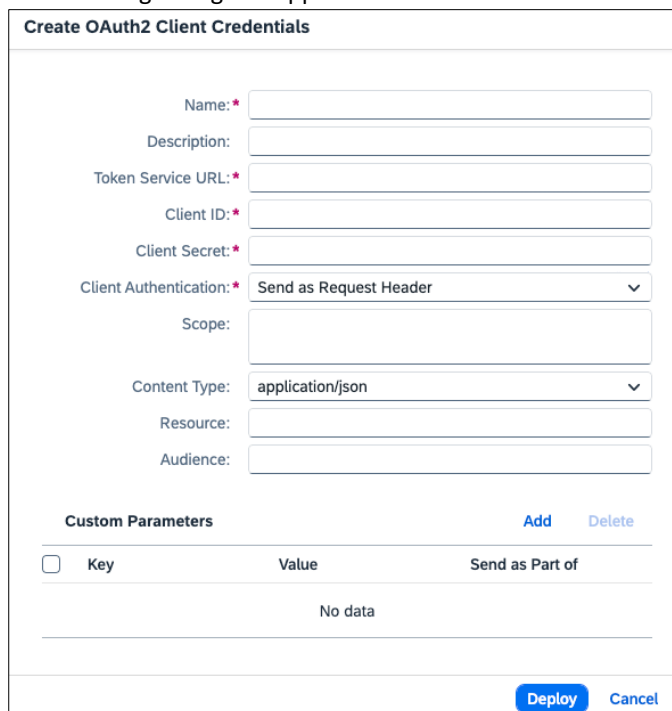
Procedure

To configure the above credentials, follow the steps below:

1. Log on to your SAP Integration suite tenant.
2. Go to Monitor (Operations view) and open the **Security Material** app.
3. Click **Add** on the top right corner of the browser window and select **OAuth2 Client Credentials**.



The following dialog box appears:

A screenshot of the 'Create OAuth2 Client Credentials' dialog box. The title bar reads 'Create OAuth2 Client Credentials'. The form contains several fields: 'Name: *' (text input), 'Description:' (text input), 'Token Service URL: *' (text input), 'Client ID: *' (text input), 'Client Secret: *' (text input), 'Client Authentication: *' (dropdown menu with 'Send as Request Header' selected), 'Scope:' (text input), 'Content Type:' (dropdown menu with 'application/json' selected), 'Resource:' (text input), and 'Audience:' (text input). Below these fields is a section titled 'Custom Parameters' with 'Add' and 'Delete' buttons. A table with columns 'Key', 'Value', and 'Send as Part of' is shown, currently containing 'No data'. At the bottom right, there are 'Deploy' and 'Cancel' buttons.

4. Enter a credential name in the format "<Tax Number>_Credential".
5. Enter the token service URL, client ID, and client secret.
6. Keep the default client authentication and content type.
7. Choose **Deploy**.