

Mail Adapter Integration Configuration Guide

Read the document till the end before setting up

Document History

Version	Date	Change
1.0	2021-11-30	First Release of the Mail Adapter Integration Configuration
1.1	2022-04-28	Updated section Deploy Email Account Credentials Updated section Adapt and Deploy Mail Adapter Integration Flow

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1 – Introduction

In [DCS 1.11.0](#) (November 2021), a key feature has been provided to send email notifications to own taxpayer users and suppliers regarding any purchase invoice reconciliation issues.

The mail adapter Integration flow is used to achieve this functionality.

This document describes the steps required to technically configure this feature for the first time.

Intended Audience: IT Administrators.

The taxpayer and supplier email ids are configured as a part of *DCS application->Manage Configuration -> Manage Taxpayer Email and Manage Counterparty Email*.

2 – Prerequisites

Email notification feature requires that the customer has their mail server reachable via Internet. Please contact your IT administrator to get the following details:

- Mail server host
- Functional mail account - This is the email account (From address in the notification mail) used by DCS application to send the notifications.
- Protection and Authentication methods.

Recommendation:

It is recommended not to use an individual's email address, but rather create a functional email account if it does not exist.

Examples: GST_Tax@<your_company>.com ; Indirect_Tax_Team@<your_company>.com

In contrast to individual email account, functional mail account is created for a specific application or service and not linked to any individual user.

Creating functional email account differs for each mail service provider and is out of scope for this document.

3 – Configuration steps in SAP Cloud Integration

Perform the following steps:

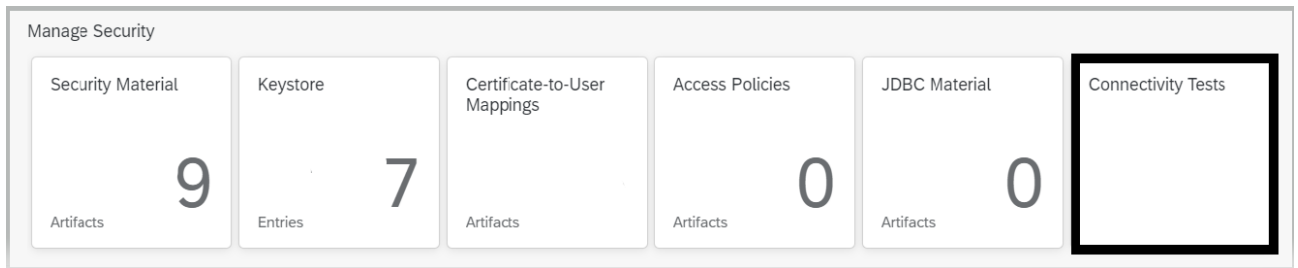
1. Check connectivity to the SMTP Server.
2. Import SMTP server certificates to SAP Cloud Integration tenant.
3. Deploy email account credentials.
4. Adapt and Deploy Mail Adapter Integration Flow.

1. Check Connectivity to the SMTP server

This step is performed to check connectivity to the SMTP server.

A successful response indicates that your SMTP server is reachable via internet.

1. Go to *Monitor*-> *Manage Security*-> *Connectivity Tests*.



2. Select *SMTP* and fill the details as below.

Don't forget to uncheck the *Valid Server Certificate Required* checkbox. Choose *Send*.

Note:

The Host, Port and the Protection is specific to your SMTP service provider. Contact your IT Administrator for the information.

Overview / Test Connectivity

TLS SSH FTP **SMTP** IMAP POP3 AMQP Kafka Cloud Connector

Request

Host: * smtp.████.com

Port: * █████(SMTPS) ▼

Proxy Type: Internet ▼

Protection: SMTPS ▼

Authentication: None

Encrypted User/Password

Plain User/Password

OAuth2 Authorization Code

Valid Server Certificate Required

Check Mail Addresses

Send

3. On successful connection, the required Server certificates will be displayed.
4. Choose *Download* icon as highlighted below.
A zip file with certificates will be downloaded.

Response

✓ Successfully reached host at smtp.████.com:████

STARTTLS: Not Supported
Authentication: Unsuccessful
Server Certificate: Valid

> Server Certificate Chain



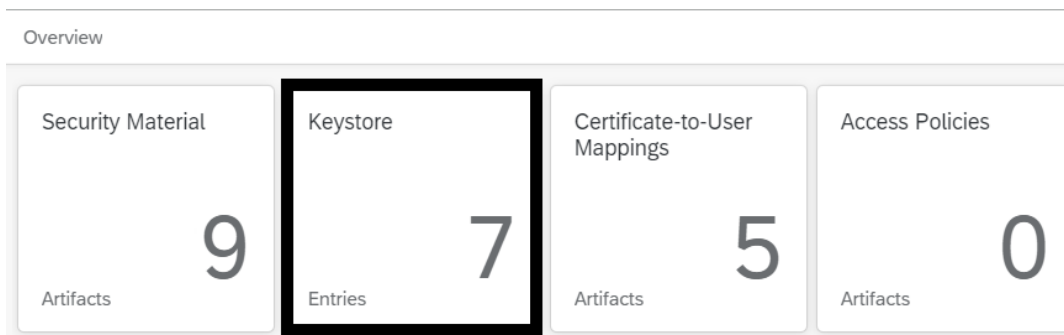
2. Import SMTP server certificates to SAP Cloud Integration tenant

For SAP Cloud Integration to connect to the SMTP server the certificates downloaded in the previous step needs to be added to the Keystore.

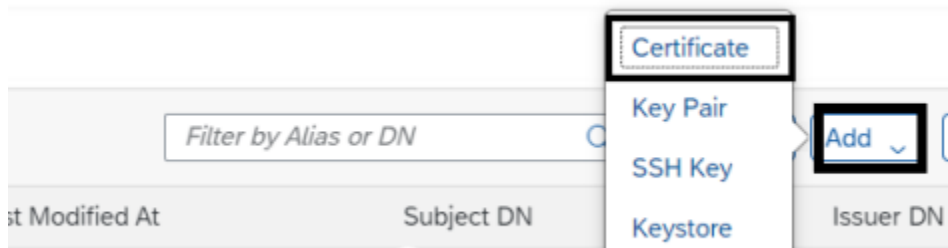
Note:

To perform the above operation, you need to be a tenant administrator with the role **AuthGroup.Administrator**.

1. Go to *Monitor-> Manage Security -> Keystore*.



2. Choose *Add -> Certificate*.



3. Enter an alias to identify the certificate. Browse the downloaded Certificate from local desktop. Choose *Add*.



Note:

All the certificates in the downloaded zip file must be imported using the same steps.

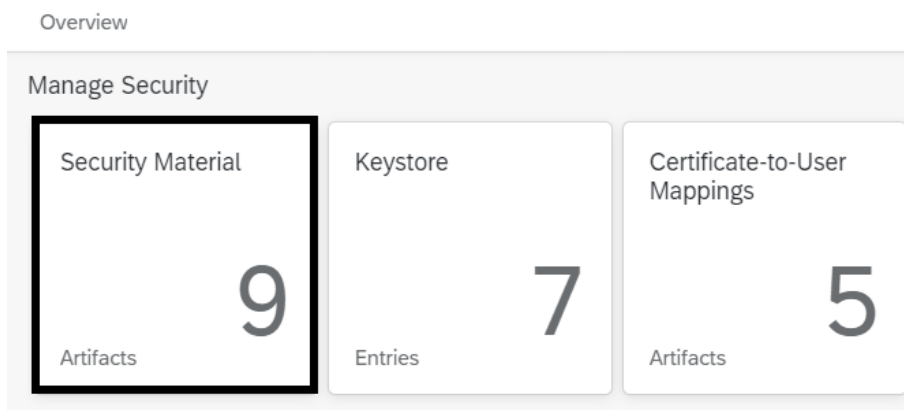
3. Deploy Email Account Credentials

To use the functional mail account details in the SAP Cloud Integration, the functional mail ID and password needs to be maintained in the tenant.

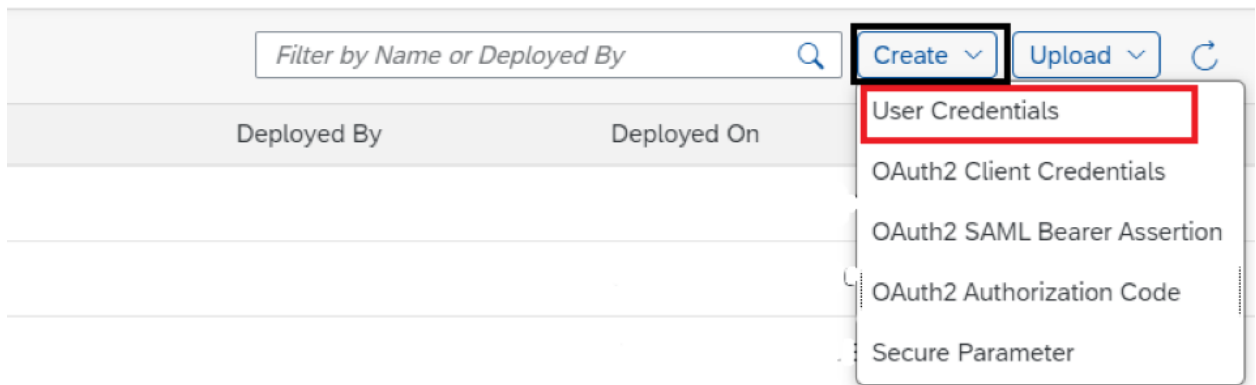
Note:

To perform above operation, you need to be a tenant administrator with the role **AuthGroup.Administrator**.

1. Go to *Monitor -> Manage Security -> Security Material*.



2. Choose *Create -> User Credentials*.



3. Enter the details and *Deploy* user credentials.

Name	Alias name to identify the user credentials
Description	Any relevant text (optional)

User	Functional email id used by DCS application to send notification. The taxpayers and suppliers will receive the mail from this email id (from address). Note : This same email id should be maintained in the step 8 of section ' Adapt and Deploy Mail Adapter Integration Flow '.
Password/ Repeat password	Password corresponding to functional email id

Create User Credentials

Name: *

Description:

Type: * ▼

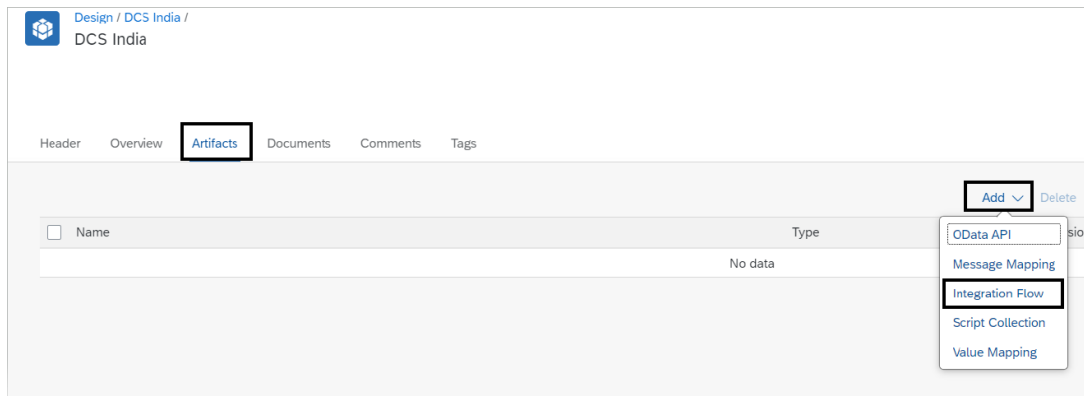
User: *

Password:

Repeat Password:

4. Adapt and Deploy Mail Adapter Integration Flow

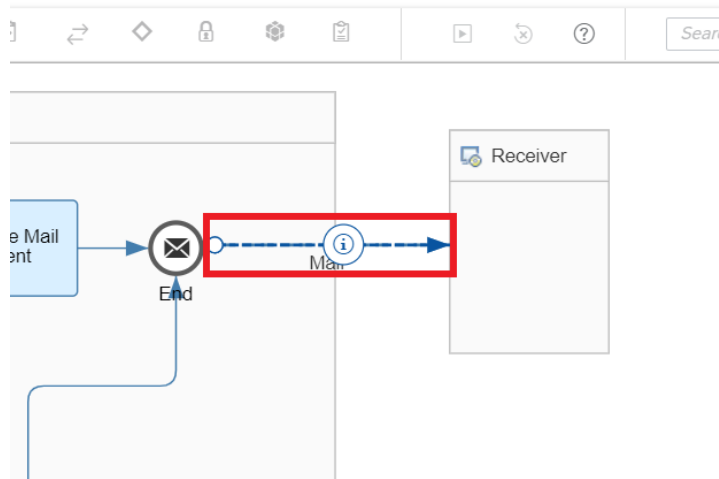
1. Choose *Design*.
2. Select the content package specific to DCS application, choose *Artifacts*.
3. Choose *Add -> Integration Flow*.



4. Browse for the mail adapter integration flow (.zip file). Enter the description and choose *OK*.

The screenshot shows the "Add Integration Flow" dialog box. At the top, there are two radio buttons: "Create" (unselected) and "Upload" (selected). Below this, there is a field for "Integration Flow:" containing the text "mailAdapter.zip". To the right of this field is a "Browse..." button, highlighted with a black box. Below the "Integration Flow:" field, there are two more fields: "Name:" containing "com.sap.slh.dcs.mailadapter" and "ID:" containing "com.sap.slh.dcs.mailadapter". Below these fields is a large text area for "Description:" containing the text "This Integration flow is used to send email notifications.". At the bottom of the dialog, there are two fields: "Sender:" containing "Sender" and "Receiver:" containing "Receiver". At the very bottom right, there are two buttons: "OK" (highlighted with a black box) and "Cancel".

5. Select the mail adapter integration flow to open it.
6. Choose *Edit* and select the mail adapter (dotted line connecting the *End* to *Receiver*) to maintain the configuration.



7. Under Connection, configure the below details.

Name	Value	Description
Address	<smtp Host>:465	The host and port are same as used in the step <i>Check connectivity to the SMTP Server</i> . Use one of the following open ports for external mail servers: <ul style="list-style-type: none"> • 25 and 587 for SMTP+STARTTLS • 465 for SMTPS
Credential Name	<alias name>	Credential Name should be same as the alias with which the user credentials are deployed in the step <i>Deploy Email Account Credentials</i> -> field <i>Name</i> .

Note:

Contact your IT Administrator for the values to be selected for attributes 'Protection' and 'Authentication'.

Mail

General **Connection** Processing Security

CONNECTION DETAILS

Address: * smtp[REDACTED].com:[REDACTED]

Proxy Type: Internet

Timeout (in ms): * 30000

Protection: SMTPS

Authentication: Encrypted User/Password

Credential Name: * mailadapter

8. Goto Processing tab. In the 'From' field of Mail Attributes, enter the Functional email id used by DCS application to send notification. This is the same email id configured for attribute 'user' in step 3 of the section [Deploy Email Account Credentials](#).

Mail

General Connection **Processing** Security

MAIL ATTRIBUTES

From: * [REDACTED]@[REDACTED].com

To: *

Cc:

9. Save the changes.
10. Navigate back to the DCS content package.
11. Under *Actions* for mail adapter integration flow, choose *Configure*.

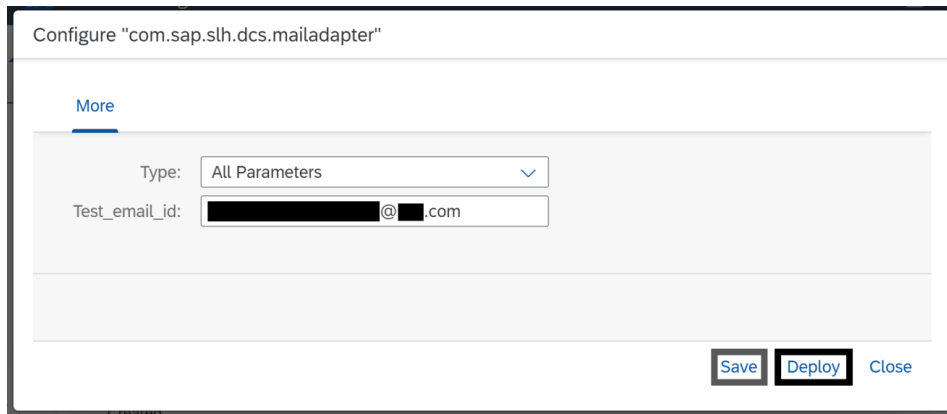
Name	Type	Version	Actions
<input type="checkbox"/> com.sap.slh.dcs.mailadapter This Integration flow is used to send email notifications. Created	Integration Flow	Draft	Add <input type="checkbox"/> Delete <input type="checkbox"/> Action <input type="checkbox"/> <ul style="list-style-type: none"> Delete Copy View metadata Download Configure Deploy

12. Set the external parameter *Test_email_id* with the email id to be used for testing the configurations maintained.

Note:

The email configured under *Test_email_id* receives the test email from DCS Application Health Check.

13. *Save* and *Deploy*.



The screenshot shows a configuration window titled "Configure 'com.sap.slh.dcs.mailadapter'". Inside the window, there is a "More" section with a dropdown menu for "Type" set to "All Parameters". Below this, the "Test_email_id" field is populated with a redacted email address followed by "@.com". At the bottom right of the window, there are three buttons: "Save", "Deploy", and "Close".

Note:

After the deployment, check if the integration flow is in **Started** state. You can check this in the Web UI by choosing *Monitor->Manage Integration Content*.

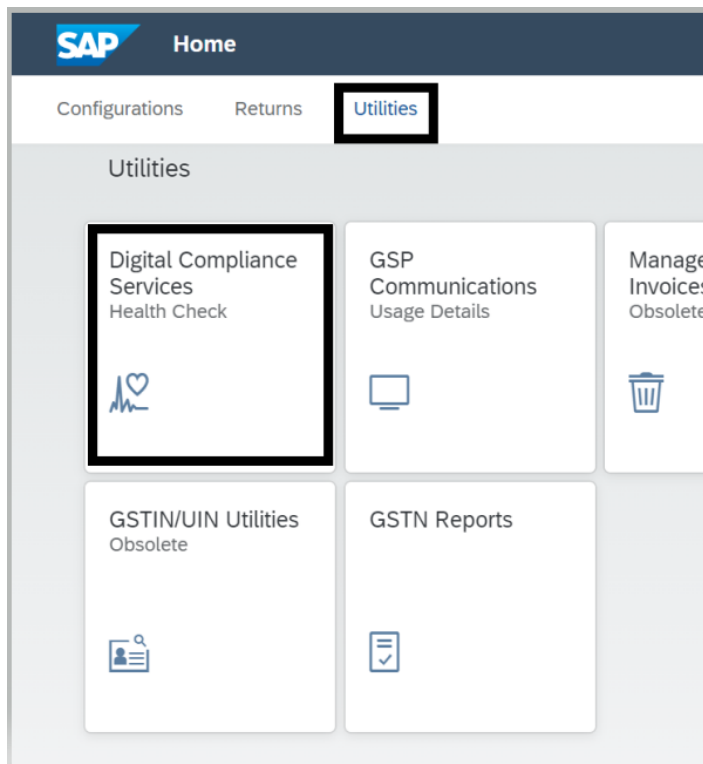
For custom configuration, refer [here](#).

4 – Validate Email Adapter Configuration

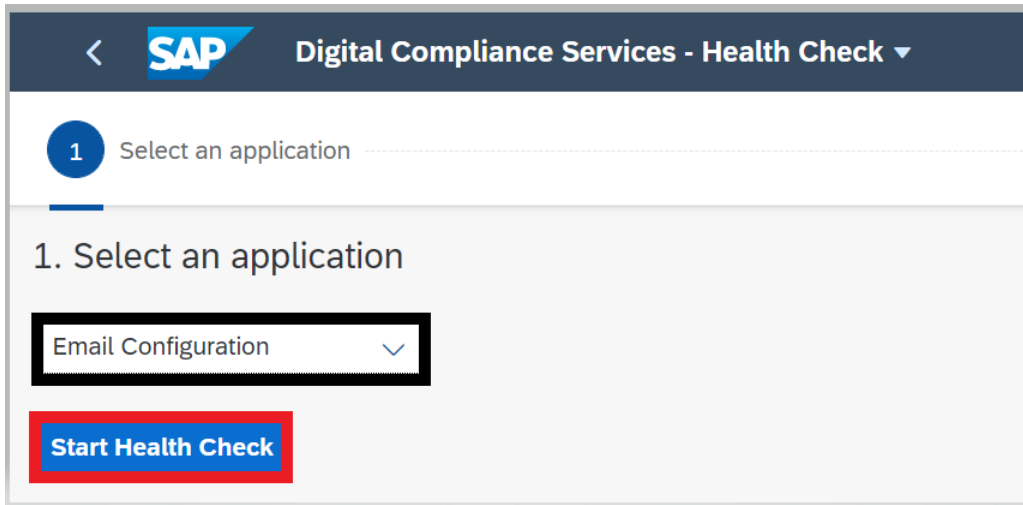
To ensure that the mail adapter integration flow is configured correctly, the DCS application Health Check is enhanced with a new *Email Configuration* option.

Follow the below steps to validate the configuration.

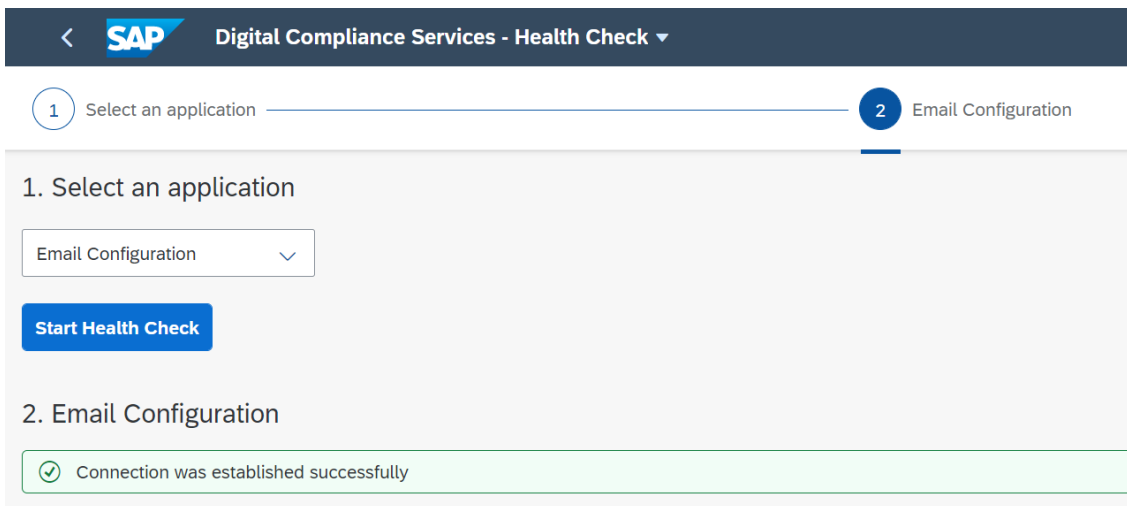
1. Launch the DCS application. Select the *Health Check* tile under *Utilities*.



2. Select *Email Configuration* from the drop down. Choose *Start Health Check*.



3. If the SMTP configurations are maintained correctly, the below successful message would be received, and an email will be sent to the mail id configured under *Test_email_id*.



5 – Useful Links

- Setting up Outbound Mail Connections
<https://help.sap.com/viewer/368c481cd6954bd0435479fd4eaf/Cloud/en-US/8b112ba77c3b4896a95b711840b46627.html>
- Configure Mail Receiver Adapter
<https://help.sap.com/viewer/368c481cd6954bd0435479fd4eaf/Cloud/en-US/f68d5e03fd574f509f89474f6a6e272a.html>