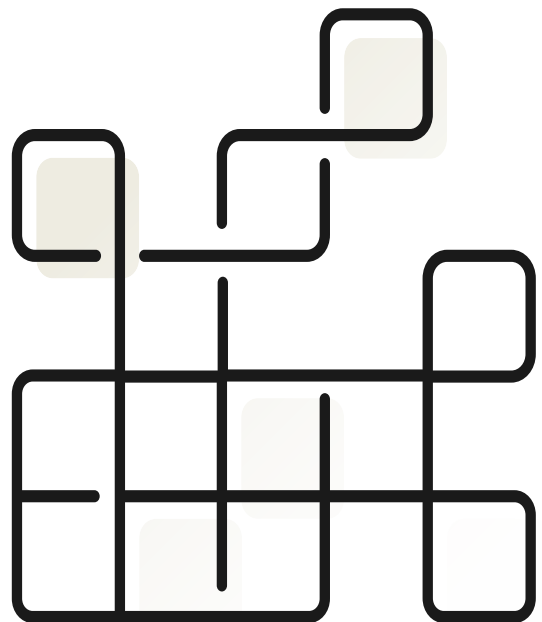




SAP SuccessFactors Employee Central Payroll Integration 2.0 with Alight hrX Exchange

AS2 Configuration Guide

Version 3.1



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Version Control		
Version	Description	Release Date
1.0	Initial	February 2020
2.0	New section to switch to the BAU iflow supporting AS2	November 2020
3.0	Rebranding of SCPI to Cloud Integration	April 2021
3.1	Rebrand to Alight	June 2021

Summary of Changes		
Version 1.0 Item No	Change Description	Chapter/Selection
1.0	New document.	All document
2.0	Add section 8	Section 8
3.0	Rebranding of SCPI to Cloud Integration	All sections
3.1	Rebrand to Alight	All sections

About this document

This configuration guide enables the AS2 configuration needed in Cloud Integration.

Related documents

All related documents can be found in [Alight Help Center](#).

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1 Introduction

The [Employee Central – hrX Exchange Payroll Integration 2.0](#) is available as an integration pack in the customer's SAP Cloud Integration account when the customer obtains Employee Central. The current main integration flow of this integration package only supports sending of data through web service (SOAP). It is not capable of sending data securely through Applicability Statement 2 (AS2) protocol. With Exchange 14.0 a new integration flow is made available to support AS2 to send data from SuccessFactors to Exchange securely using digital certificates and encryption.

This guide helps the client and SAP partner consultants to enable AS2 adapter in a Cloud Integration tenant for the new integration flow for AS2. This guide is a supplement to [Integration Guide SAP SF EC Payroll Integration 2.0 with Alight](#). It provides instructions that will assist in generating certificates and details on the configuration for the AS2 adapter.

2 Activate Enterprise Messaging

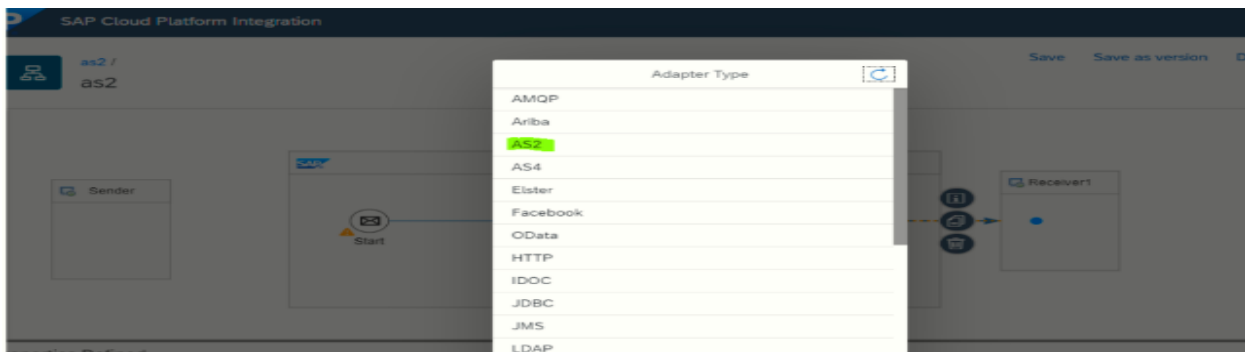
To activate enterprise messaging capabilities like AS2, JMS, XI (with JMS storage) adapters on all licensed versions of cloud integration tenants please refer to the following link:

<https://blogs.sap.com/2018/05/12/self-service-enablement-of-cloud-integration-service-on-consumption-based-commercial-model-for-sap-cloud-platform/>

<https://blogs.sap.com/2018/12/12/cloud-integration-activating-and-managing-enterprise-messaging-capabilities-as2-jms-and-xi-adapters/>

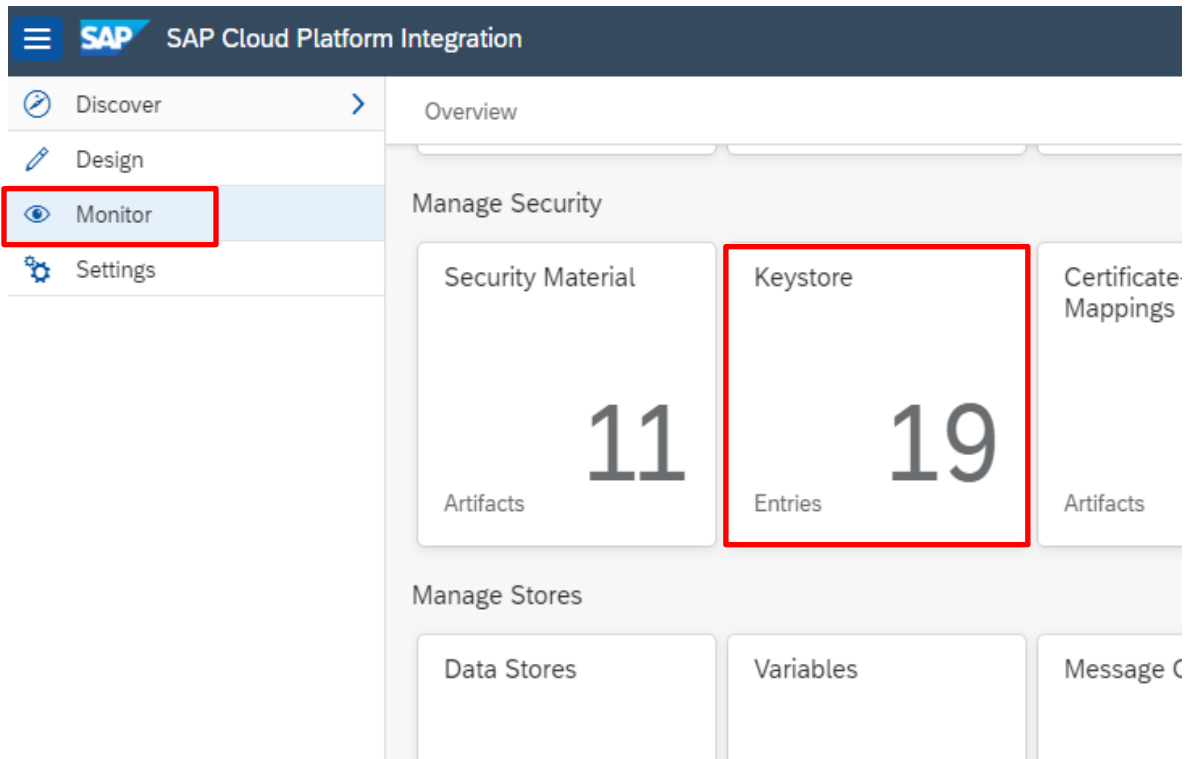
<https://help.sap.com/viewer/368c481cd6954bd0435479fd4eaf/Cloud/en-US/a74cddceacb34abb958e817c1f6782d2.html?q=Activate%20Enterprise%20messaging>

You should be able to see AS2 adapter type when creating an integration flow. Refer to screenshot below:

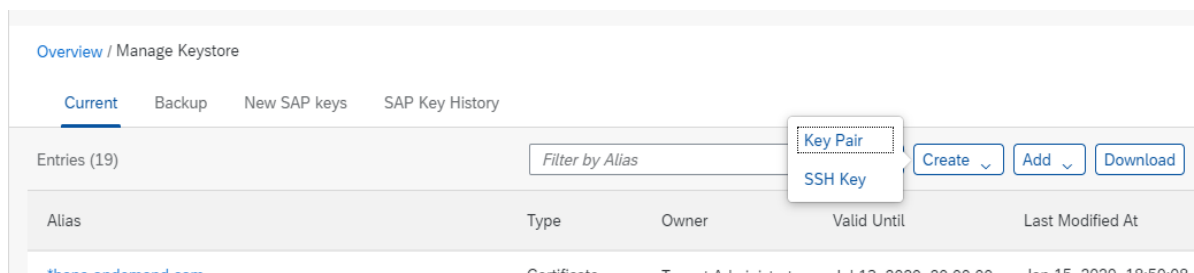


3 Generate Certificate for AS2

- **Login to Cloud Integration tenant**
- In the Monitor View, click **Keystore**.



- **Create a New Key Pair**



- **Configure the Key Pair**

Alias : as2_e700590_kp (You can put any Alias Name)
Key Type : RSA
Key Size : 2048
Signature Algorithm : SHA-256/RSA
Common Name : Alight (You can put any Common Name)

Create Key Pair

*Alias:

*Key Type:

*Key Size:

*Signature Algorithm:

*Common Name (CN):

Organizational Unit (OU):

Organization (O):

Location (L):

State or Province (ST):

*Country (C):

E-Mail (E):

*Valid From:

*Valid Until:

- Click Deploy
- Download the Certificate to and provide it to the Alight's EFT Team

Overview / Manage Keystore

Current Backup New SAP keys SAP Key History

Entries (19)

as2_e700590_kp	Key Pair	Tenant Administrator	Jan 20, 2022, 16:23:44	<input type="button" value="Download Certificate"/>
eu.n2ahrhosting.com 2018 2	Certificate	Tenant Administrator	Nov 20, 2020, 19:00:47	<input type="button" value="Download Certificate Chain"/>

4 Alight HR EFT Configuration


Create a SNOW ticket to Alight's EFT Team with the following details:

Area	ISO
Category	APP - Automation
Subcategory	EFT
Assignment group	GT - Platforms Engineering

Provide the following information in the ticket:

- Your certificate – This is the EFT Certificate that the EFT Team will give us
- Partner certificate – The generated certificate that we give to EFT Team
- Your AS2 identifier – EFT team AS2 ID
- Partner AS2 identifier – Cloud Integration tenant AS2 ID

Your certificate:	... \eu_ngahrhosting_com_201:
Partner certificate:	\\SM... \as2_e700590.cer
Your AS2 identifier:	NGAHR TEST
Partner AS2 identifier:	e700590
Authentication mechanism:	Username and password <input type="button" value="v"/>
Partner AS2 identifier mismatch policy:	Reject <input type="button" value="v"/>
EFT AS2 identifier mismatch policy:	Reject <input type="button" value="v"/>
Duplicate Message ID with different contents:	Reject <input type="button" value="v"/>
Duplicate Contents with different Message ID:	Reject <input type="button" value="v"/>
Message not signed:	Reject <input type="button" value="v"/>
Allowed signature algorithms	SHA-256,SHA-384,SHA-512
Message not encrypted:	Reject <input type="button" value="v"/>
Allowed encryption algorithms	AESCBC256
MDN send attempt timeout (seconds):	60
MDN send attempt retries:	3
MDN send attempt delay between retries (seconds):	30
MDN signing algorithm (MIC)	As requested or SHA-256 <input type="button" value="v"/>
Transaction FAILED notification e-mail:	[Add]
Transaction SUCCESS notification e-mail:	[Add]
Transaction FAILED run command:	[Add]
Transaction SUCCESS run command:	[Add]
Move received data to folder:	\\SMB-DCB-SUP01.n... \n
Rename file(s) to:	%FS.FILE_NAME%
HTTP 1.0 mode (don't send HTTP/1.1 100 Continue):	<input type="checkbox"/>

Description	Value	Comment
System	NGA Human Resources	
Environment	TST	
AS2 identifier	NGAHR TEST	
Towards NGA Human Resources:		When you send to NGA Human Resources
URL for AS2 connection	http://eft-tst.eu.ngahrhosting.com	URL
IP address	212.190.78.50	IP address
Port	80	HTTP
Towards Partner:		When NGA Human Resources sends to you
IP address	212.190.64.61	IP address
AS2 Packaging	Signed and encrypted	
Notification method (MDN)	Synchronous and signed	
Encryption Algorithm (encryption)	AESCBC256	
Digest Algorithm (signing)	SHA-256	
NGA Human Resources AS2 certificate		To be installed on your system
Validity period	2 years	
Public/private key length	2048 bits	
Algorithm used for electronic signature	SHA256/RSA	
AS2 Certificate file	 eu_ngahrhosting_com_2018.crt	

5 AS2 Adapter Configuration in Integration flow

There is a new Artifact for AS2 together with the standard package, [SAP SuccessFactors Employee Central Payroll Integration 2.0 with Alight](#). The artifact (integration flow) is included once customer upgrades to the latest version of the package.

Package Integration - SF EC Payroll Integration to hrX Exchange via AS2

Extracts and sends employee records from Employee Central to hrX Exchange using compound employee service in delta mode.
Created

Integration Flow

2.14.0



- Go to Package and Configure the AS2 Adapter.
- In the Receiver tab select AS2 Adapter, configure the following:

Configure "Package Integration - SF EC Payroll Integration to hrX Exchange via AS2"

Timer **Receiver** More

Receiver:

Adapter Type:

Connection

Recipient URL:

Proxy Type:

Authentication Type:

Credential Name:

▪ **Connection**

- Recipient URL : Will be provided by EFT Team

Environment	ISI
AS2 identifier	NGAHR TEST
Towards NGA Human Resources:	
URL for AS2 connection	http://eft-tst.eu.ngahrhosting.com
IP address	212.190.78.50

- Proxy Type : Internet
- Authentication Type : Basic Authentication
- Credential Name : AS2(Credential of EFT given by EFT Team)

Processing

Own AS2 ID:

Partner AS2 ID:

Message Subject:

Own E-mail address:

▪ **Processing**

- Own AS2 ID : Any value, but make sure this is the ID you give to EFT Team
- Partner AS2 ID : ID given by EFT Team
- Message Subject : Email Subject (for notification)
- Own Email Address : Email Address (for notification)


Security

Private Key Alias:

Public Key Alias:

• **Security**

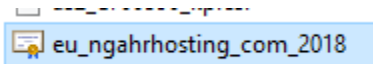
- Private Key Alias : The generated [Key Pair](#) Alias
- Public Key Alias : The certificate that the EFT Team provided

NGA Human Resources AS2 certificate		To be installed on your system
Validity period	2 years	
Public/private key length	2048 bits	
Algorithm used for electronic signature	SHA256/RSA	
AS2 Certificate file	<div style="border: 2px solid red; padding: 5px; display: inline-block;">  eu_ngahrhosting_com_2018.crt </div>	

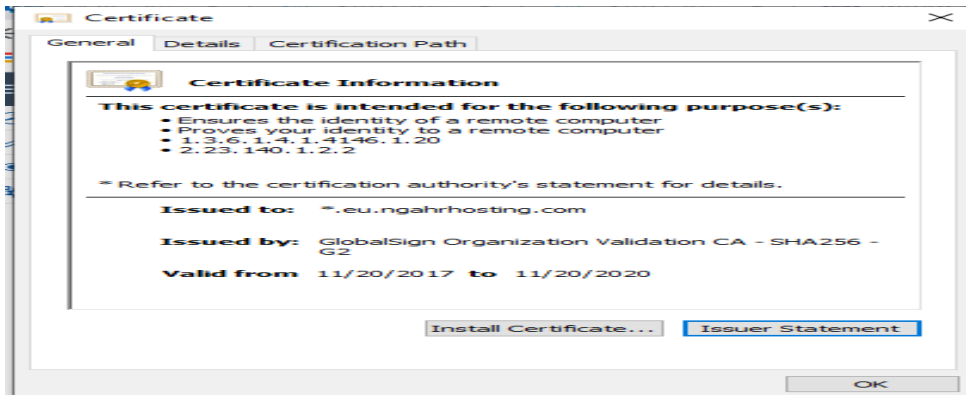
6 Importing Certificate from EFT Team

Since the .crt extension given by EFT cannot be imported to Cloud Integration Keystore, we need to convert it to install in Keystore.

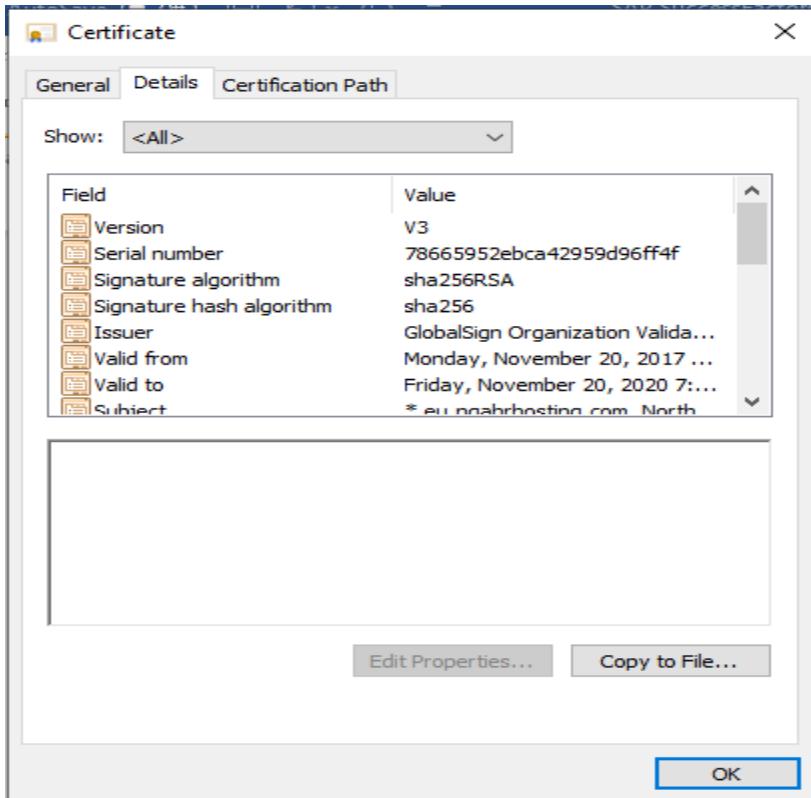
- Download the certificate given by EFT Team
- Double click the file



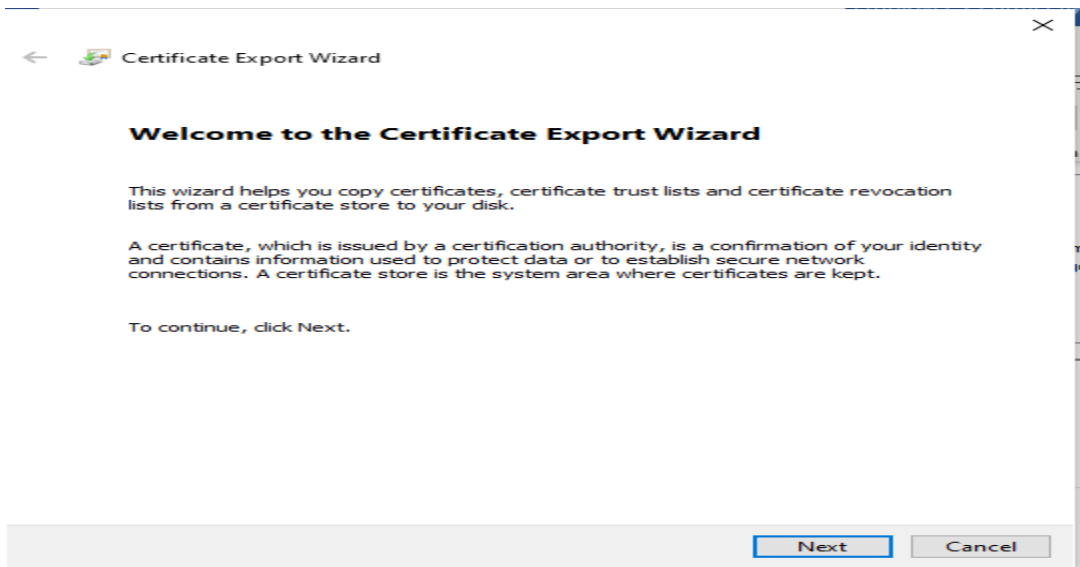
- A popup will appear for the certificate details.



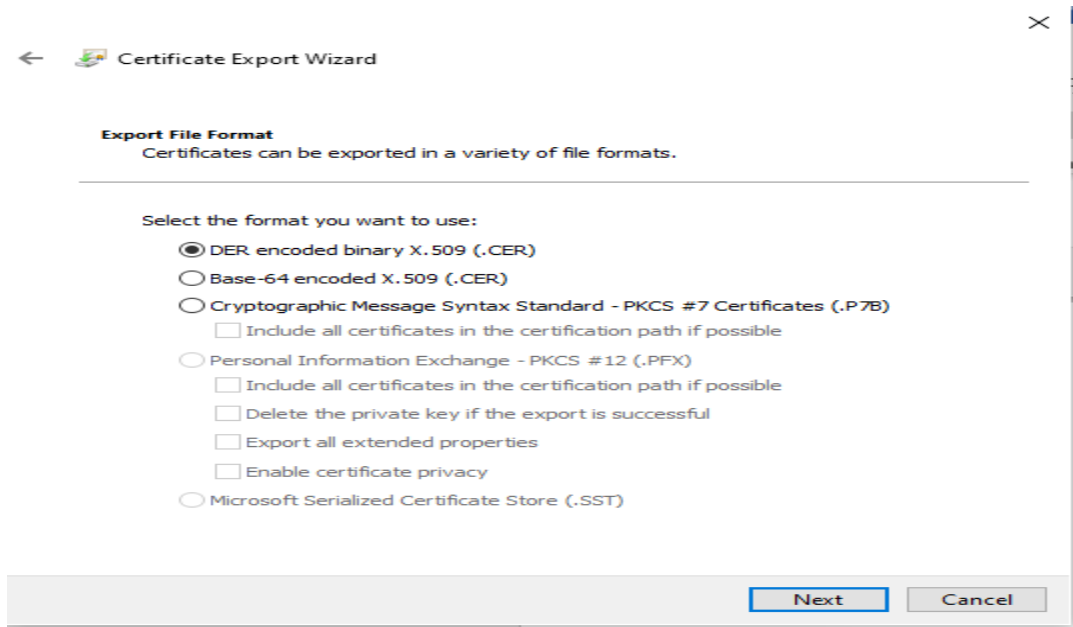
- Click Details tab and click Copy to File



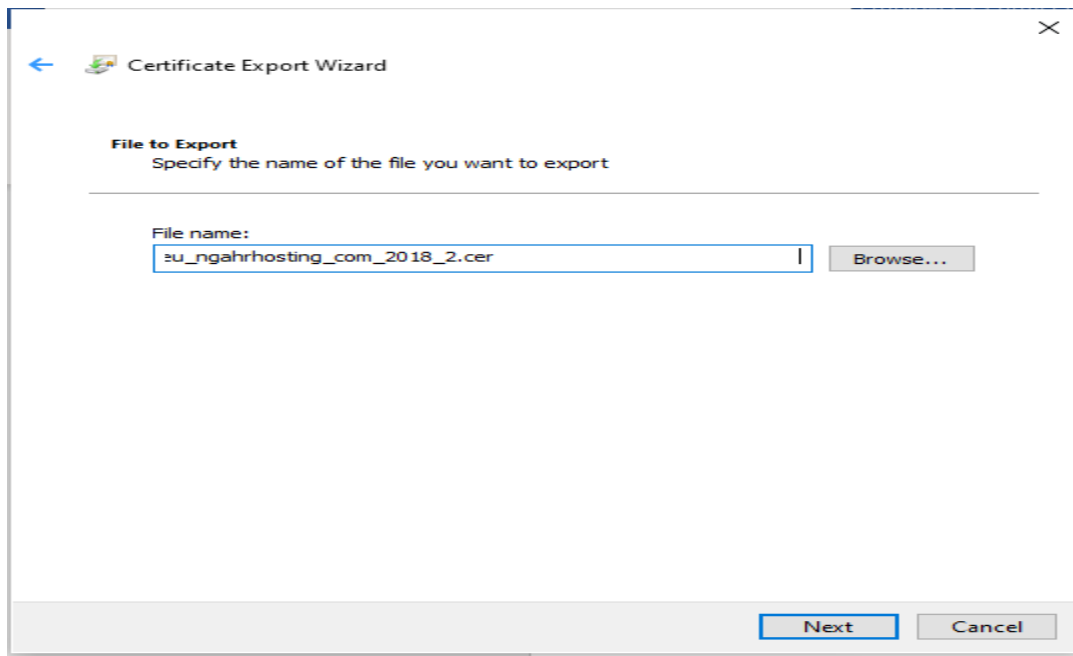
- Click Next.



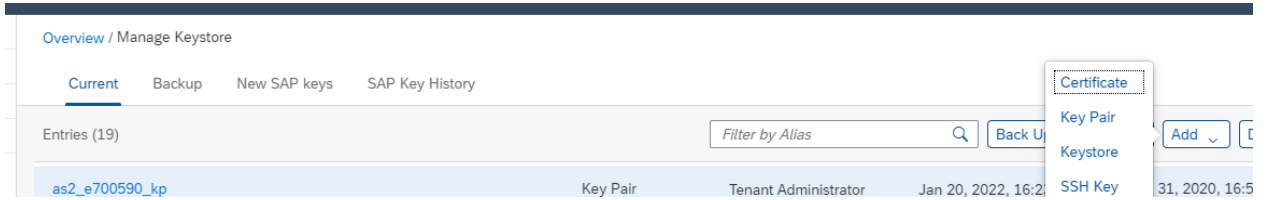
- Select DER and Click Next



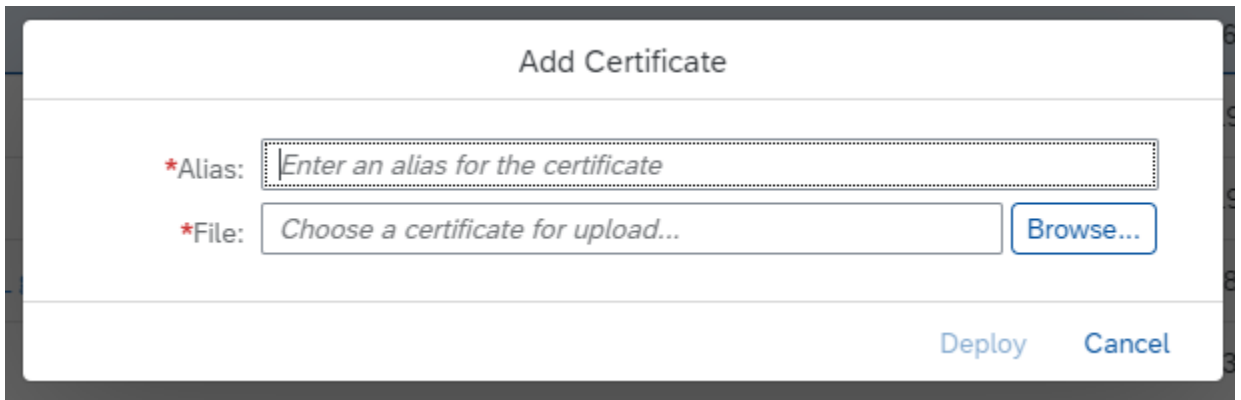
Save the certificate, click **Next** and **Finish**.



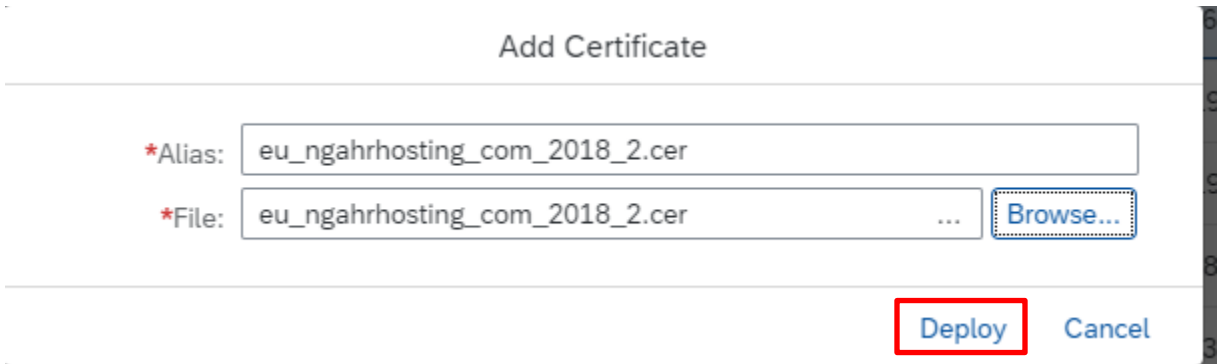
- Go back to Cloud Integration Keystore.
- Click Add Certificate.



- Browse the file



- Click Deploy



7 Integration Test

- Deploy the Package.

				Actions ▼	Filter Artifacts
<input type="checkbox"/>	Name	Type	Version	Actions	
<input type="checkbox"/>	Package Integration - SF EC Payroll Integration to hrX Exchange AS2				
<input type="checkbox"/>	Extracts and sends employee records from Employee Central to hrX Exchange using compound employee service in delta mode. Created	Integration Flow	2.14.0		

- Check the attachment if there are Error(s).

Messages (3)
⏪ ⏩ 1 / 1 ⏴ ⏵ 🔄

Artifact Name	Status
Package Integration - SF EC Payroll Integration to hrX Exchange AS2	Completed
Feb 04, 2020, 18:02:47	10 sec 513 ms
Package Integration - SF EC Payroll Integration to hrX	Completed

Package Integration - SF EC Payroll Integration to
Last Updated at: Feb 04, 2020, 18:02:47

[Status](#)
[Properties](#)
[Logs](#)
[Attachments](#)

Message processing completed successfully.

Processing Time: 10 sec 513 ms

- Download the Attachment

Package Integration - SF EC Payroll Integration to hrX Exchange AS2
Last Updated at: Feb 04, 2020, 18:02:47

[Status](#)
[Properties](#)
[Logs](#)
Attachments

Name	Modified At	Size	Actions
MDN Attachment text/xml	Feb 04, 2020, 18:02:47	1 KB	

- Message successfully sent to Exchange.

```
MessageLog-Package_Integration_EC_Next_Gen_Dev_AS2-attachment_1-(Untitled) - Notepad
File Edit Format View Help
|--MDNBoundary
Content-Type: text/plain

The incoming message from e700590 to NGAHR_TEST with Id <08e5b808-26f6-4e50-a13c-a205a7687b79@e700590> was
received successfully. This is not a guarantee that the message has been processed by the receiving translator.

--MDNBoundary
Content-Type: message/disposition-notification

Original-Recipient: rfc822;NGAHR_TEST
Final-Recipient: rfc822;NGAHR_TEST
Original-Message-ID: <08e5b808-26f6-4e50-a13c-a205a7687b79@e700590>
Disposition: automatic-action/MDN-sent-automatically; processed
Received-Content-MIC: FOuNzrz1zLck8f157XsW4J9mFy4Tk9pyhtJsm+3XrGQ=, sha-256

--MDNBoundary--
```

- Check the event in Exchange under Inbound Files.

The screenshot shows a table with the following data:

Electracom	Batch File	04/02/2020, 10:20	04/02/2020, 10:21	PEX	Closed - Success (11/11 Closed)	00:00:41	Display all Events
General Event Information							
04/02/2020, 10:20	Created By (PEX)						
04/02/2020, 10:20	Received						
04/02/2020, 10:20	Waiting: File Transfer						
04/02/2020, 10:21	Waiting: Transforming File						
04/02/2020, 10:21	Waiting: Creating Individual Events						
04/02/2020, 10:21	Waiting						
04/02/2020, 10:21	Processed Successfully						
04/02/2020, 10:21	Closed - Success						

Below the table, a file path is highlighted in a red box: `/interfaces/z01/cus/itff01/in/Z0100000102220200204102055_SFEC_Next_Generation_AS2.xml`

- The file formatting for AS2 is `<GCC><00000><1022><timestamp>_SFEC_Next_Generation_AS2.xml`.

- Click Display Event.

COMPANY GROUP ▲	PAY GROUP ▲	EMPLOYEE ▲	EVENT ▲	STATUS ▲	SENT
YourCorp United States	US001 X2 (X2) OPEN	CE Rider One (CE0000001 / 50004560)	Data Change	CLOSED WITH WARNINGS	04/02, 10:21
YourCorp United States	US001 X2 (X2) OPEN	CE Rider One (CE0000001 / 50004560)	Data Change	CLOSED - SUCCESS	04/02, 10:21
YourCorp United States	US001 X2 (X2) OPEN	CE Rider One (CE0000001 / 50004560)	Data Change	CLOSED - SUCCESS	04/02, 10:21
YourCorp United States	US001 X2 (X2) OPEN	CE Rider One (CE0000001 / 50004560)	Data Change	CLOSED WITH WARNINGS	04/02, 10:21
YourCorp United States	US001 X2 (X2) OPEN	CE Rider One (CE0000001 / 50004572)	Data Change	CLOSED - SUCCESS	04/02, 10:21
YourCorp United States	US001 X2 (X2) OPEN	CE Rider One (CE0000001 / 50004572)	Data Change	CLOSED WITH WARNINGS	04/02, 10:21
	US001 X2 (X2)	CE Rider One	Data		04/02,

Event Details ✕

Data Change for CE Rider One (CE0000001):
04-Feb-2020

<<
<
>
>>

Add

Pay Element

Start Date	01-Jan-2018
Id	Basic Pay (P11USC0010)
Type	RECURRING
Amount	1,500.0
Currency	USD

Payroll and comments

Payroll Service ID	50004560
--------------------	----------

8 Switching to Package Integration - SF EC Payroll Integration to hrX Exchange

In hrX Exchange release 17.0 all integration flows under the SAP SuccessFactors Employee Central Payroll Integration 2.0 with Alight integration package supports AS2 protocol. With these changes, customer using **Package Integration - SF EC Payroll Integration to hrX Exchange via AS2** can switch to using Package Integration - SF EC Payroll Integration to hrX Exchange by following the set-up describe below.

An additional parameter for every integration flow is introduced to set if transmission is via webservice or AS2.

Enable AS2:

A new receiver is also delivered for every integration flows.

Timer **Receiver** More

Connection

Receiver:

Adapter Type:

Address:

A new integration flows, **Package Integration - SF EC AS2 Adapter** is created to handle AS2 support for all the iflows. See expected configuration below:

Configure "Package Integration - SF EC AS2 Adapter"

Sender **Receiver** More

Connection

Sender:

Adapter Type:

Address:

Sender details address input should match with the same value configured in the calling iflow.

AS2 receiver configuration:

Configure "Package Integration - SF EC AS2 Adapter"

Sender **Receiver** More

Connection

Receiver:

Adapter Type:

Receipient URL:

Proxy Type:

Authentication Type:

Credential Name:

Processing

Own AS2 ID:

Partner AS2 ID:

Message Subject:

Own E-mail address:

Security

Private Key Alias:

Public Key Alias: