

AS2 Configuration and troubleshooting:

AS2 is a specification which is based on http protocol to transmit messages (especially EDI messages) safely, cheaply and quickly. In the last 20 years AS2 has become the most widely used protocol for EDI in many industries, such as the retail and consumer goods industry.

Uses Http/s

Default port for AS2 – Base port + 33 (endpoint)

One organization to many partner

Multiple organizations can be created if the client has bought multi-organization license.

AS2 Edition is also available

3 ways of transfer

1. Filesystem folders
2. Mailbox
3. Direct processing

Outbound – the files which are meant to be transfer to others

Will be placed in the outbound folder. (trying to send files to the partner)

Inbound – is the folder where you receive files from your partner.

(when you are in the receiving end; get files from any of your partner)

Errors – when there are any errors during file transmission (Inbound and outbound) the files are attached with the log file.

Configuring Organization:

- AS2 Certificate (exchange certificate and signing certificate)
- AS2 Organization (your information)
- AS2 Partner (partners information)
- AS2 Relationship (pairing up of AS2 Organization and AS2 Partner)

<https://www.ibm.com/support/pages/setting-as2-part-1-as2-organization>

AS2 Certificate –

SI dashboard -> Trading Partner -> Digital Certificate -> System -> self -sign certificate

AS2KEY_SN

Certificate Summary	
System Certificate ID	5157591759c9205fanode1
Created/Updated by	Joe User
Creation/Update Time	11/06/2020 1:36 PM
Thumbprint	SHA1: 7A9A88EC93D38FE2F7F9ECBCF269C84C77595854 SHA256: 1195F717F78D7035E71FF6ACF866BE66E17D06854260D6320934C89AE0DE2843
Description	Serial Number: 123456 Valid Dates: 11/06/2020 - 11/01/2021 Public Key Algorithm: RSA Public Key Length: 1024 Cert Signing Algorithm: SHA1withRSA Usage: Digital signature, Non repudiation, Key encryption, Data encryption Issuer: • CN: AS2KEY_SN • O: 101510618 • OU: 101510618 • C: US Subject: • CN: AS2KEY_SN • O: 101510618 • OU: 101510618 • C: US
Status	Date valid Self-signed Verified

Let's check it out for future use -> Trading Partner>Digital Certificates>System>List ALL.

1. In SI dashboard then Trading Partner -> AS2 -> AS2 partner or organization [GO]

Administration Menu

- Business Processes
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Trading Partner Configurations

Create New

AS2 partner or organization

AS2 trading relationship

Search Profiles by Identity

--ALL--

Search Relationships

Organization Partner

--ALL-- --ALL--

2. Select Organization [need to add when we create 1st time] -> next

AS2 Configuration

New Profile: AS2 Configuration Type

- ☒ Organization
- ☐ Partner

3. Select Create New Identity

AS2 Configuration

New Profile: AS2 Configuration Type: New or Existing

- ☒ Create New Identity
- ☐ Use Existing Identity

4. Details

AS2 Configuration

ORG_SN [ORG_SN]: AS2 Configuration Type: Organization Details

Identity

Identity Name:

AS2 Identifier:

Profile

Profile Name:

Exchange Certificate

Signing Certificate

Email Address:

Email Host:

Email Port:

5. After 4th step click save then click on finish.

Creating Partner:

AS2 Certificate – Check-in (Trading Partner>Digital Certificates>Trusted>New Certificate)

Certificate Summary

System Certificate ID	6197551759c9205fanode1		
Created/Updated by	Joe User		
Creation/Update Time	11/06/2020 1:42 PM		
Thumbprint	SHA1: 292756216614F854CB96C1386E30956020743EB5 SHA256: 03C4CBBEEC0F5BFEA84F07C64802B842C515737B0E7B441EDE79A43F907313F6		
Description	Serial Number: 123456 Valid Dates: 11/05/2020 - 10/31/2021 Public Key Algorithm: RSA Public Key Length: 1024 Cert Signing Algorithm: SHA1WITHRSA Usage: Digital signature, Non repudiation, Key encryption, Data encryption Issuer: <ul style="list-style-type: none">• C: US• OU: Precisely• O: Precisely• CN: AS2KEY Subject: <ul style="list-style-type: none">• C: US• OU: Precisely• O: Precisely• CN: AS2KEY		
Status	Date valid Self-signed Verified		

1. In SI dashboard

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Trading Partner Configurations

Create New

- AS2 partner or organization
- AS2 trading relationship

Search Profiles by Identity

- ALL--

Search Relationships

- Organization: --ALL-- Partner: --ALL--

2. Select partner and Create New Identity

AS2 Configuration

New Profile: AS2 Configuration Type

- ☐ Organization
- ☒ Partner

3. Provide details
4. Choose certificate
5. Next and in last just finish





AS2 Settings	
Identity Name	ORG_JJ
AS2 Identifier	ORG_JJ
Profile Name	ORG_JJ
▶ HTTP Communication	
HTTP Client Adapter	HTTPClientAdapter
End Point IP	http://10.15.106.14:8113/as2
Response Timeout (sec)	60
SSL	SSL_NONE
Cipher Strength	STRONG
▶ Messages	
Payload Type	Signed Detached Encrypted
MIME Type	Application
MIME Sub Type	EDI-X12
Compress Data	default
Exchange Certificate	AS2KEY
Signing Certificate	AS2KEY
Encryption Algorithm	Triple DES 168 CBC with PKCS5 padding
Signing Algorithm	SHA1
Receipt Signature Type	NONE
Receipt Timeout	300
Delivery Mode	Synchronous

Creating AS2 Relationship:

1. Click

Trading Partner Configurations	
Create New	
AS2 partner or organization	<input data-bbox="805 1406 853 1429" type="button" value="Go!"/>
AS2 trading relationship	<input data-bbox="805 1462 853 1485" type="button" value="Go!"/>
Search Profiles by Identity	

2. Provide detail
3. In last finish. Once relationship is created then perform test.

AS2 Relationships 1-1 of 1		
Select	Organization	Partner
 edit  delete  test  info	ORG_SN [ORG_SN]	ORG_JJ [ORG_JJ]

Test Now - AS2

☐ Automatically refresh

Instance ID: **55955**

Test	Result	Information	Status
Checking Profile	Passed	ORG_JJ : Is active	
Checking Delivery Channel	Passed	delivery_ORG_JJ_ORG_JJ : Is active	
Checking Transport	Passed	transport_ORG_JJ_ORG_JJ : Is active	
Checking HTTPClientAdapter	Passed	HTTPClientAdapter is enabled	
Proxy Connection	N/A	Not configured to use a proxy	
SSL Connection	N/A	Not configured to use SSL	
HTTP Connection	Passed	Completed successfully	
Checking Contract	Passed	ORG_JJ_FROM_ORG_SN_CONTRACT : Is active	
Build Message	Passed	Completed successfully	
Send Message	Passed	Completed successfully	
Receive MDN	Passed	Processed with no errors	

Return

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report

Now, you can route files.

Troubleshooting

Any errors then check - httpclientlog, httpserverlog, EDIINTlog, BP – TestNowAS2, Perimeter Server Log – Perimeter.log, PsLogger.log

Noapp.log, wf.log, opsserver.log, system.log

Issues

- 1) Configuring AS2
- 2) Certificates – expire
- 3) MDN
- 4) Routing Files – WF
- 5) MailboxAS2Add business process fails for inbound AS2 message with error

<https://www.ibm.com/support/pages/mailboxas2add-business-process-fails-inbound-as2-message-error>