EnjoyAS2

Table of contents

Welcome

EnjoyAS2 is a transmission software developed by Beijing Enjoy EDI Company that utilizes the AS2 protocol.

- It adopts the latest Blazor .NET Core technology, providing a convenient web interface for configuration and management of sending and receiving operations.

- It supports file transfers between multiple business partners. Sending can be done from folders, through web APIs, and other sending methods.

- It operates as an independent service and does not rely on IIS, ensuring simplicity and efficiency.

- EnjoyAS2 also offers comprehensive logging, allowing for file transmission verification.

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Installation

EnjoyAS2 is installed and Managed through EnjoyAS2 Manager.

During the Installation process of EnjoyAS2 manager , EnjoyAs2 Service is automatically installed and runs in the background , managing All of the data transmission.

After successfully installing of EnjoyAS2 manager , you will be redirected to the EnjoyAS2 Web Page.

You can run EnjoyAS2 manager any time and this manager allows you to control various aspects of the EnjoyAS2 service, such as changing HTTP port number, modifying the database connection string ,upgrading the software , and starting or stopping service.

Download:

To Get Started, [Click here to download EnjoyAS2 manager](#) .

First-time login:

After install EnjoyAS2 Manager, you will be redirected to web management page to login, The login username is "Admin," and the password is empty.

After logging in, you can navigate to "Admin" and then

"My Details" to change your password.

Organization refers to the company or entity that uses the EnjoyAS2 server for data transmission. In the context of sending messages, the organization is the sender, while in the context of receiving messages, they are the receiver.

Assuming you are a company named StarSky, and the purchasing department of StarSky wants to use AS2 to transmit purchase orders to EnjoyEDI company. In this scenario, StarSky would be considered the organization within EnjoyAS2, and EnjoyEDI would be your business partner.

The following explanations will be based on the data transfer between these two companies.

Basic Information:

Name: This is the name of the organization. Setting a name for the organization helps identify it within EnjoyAS2. In this example, the name could be set as "StarSky."

AS2 Identifier: Set a meaningful ID for the organization. The identifier value you set here will be included in the header of the messages sent to the business partner. The business partner will use this ID to identify that the message originated from your organization. In this example, it could be set as "StarSky."

Receiver URL: By default, it is "http://x.x.x.x:5000/as2server." This URL needs to be provided to the business partner so they can send data to this URL. The format is "http://x.x.x.x:yyyy/as2server," where x.x.x.x represents the external IP address or domain that is accessible, and yyyy is the port number. The default port is 5000, but it may vary depending on the installation settings. Not providing this URL does not affect the sending of your data; it is only used to record the URL that the business partner will use to send data. We will public this url for downloading by your partner in the future.

Certificate

When communicating between the organization and the business partner, certificates are required. Certificates are divided into private key certificates and public key certificates. The private key is used by the organization to sign outgoing data and decrypt received data. The public key certificate is provided to the business partner, who uses the public key provided by the organization to encrypt the data to be sent and verify the received signatures.

To manually create a private key certificate

AS2 communication requires certificates, which can be obtained from a Certificate Authority (CA) or created manually. EnjoyAS2

provides a manual certificate creation feature.

 Organization: StarSky

Password: Private key certificates need password protection. The default password is "EnjoyAS2," but you can modify it as desired.

Validity Years: Choose the desired validity period. It is important to update the certificate when it expires to avoid communication interruptions.

Expiration Date: The system will automatically calculate the expiration date based on the selected validity period.

Key Length and *Signature Algorithm*: Choose according to your requirements.

Subject: Fill in the name of the organization issuing the certificate.

File Name: The default is Organization's name, but you can modify it if needed.

To export a public key certificate

To export a public key certificate in EnjoyAS2, you can follow these steps:

1. click the certificate that you want to export, and open the detail view of the cert.

2.click button: "download org public Certificate" .

Organization Cert
StarSky company.pfx

Organization Cert

Subject

StarSky company

File Name

StarSky company.pfx

Serial No

0188CBB198D53FEE

Password

EnjoyAS2

Expire Date

6/10/2033

Key Size

2,048

Signature Algorithm

SHA256

download org private cert action

download org public cert action

OK

To upload a certificate:

Prepare the certificate: Make sure you have the certificate file in the PFX format that you want to upload. This certificate can be issued by a qualified certificate authority or generated by AS2 software.

Click on the File option and browse your computer to find the PFX certificate file.

Select the certificate file and input password which is used to encrypt the cert.

Upload Org Cert Parameter

Password*

File*

Choose File

OK   Cancel

Certificate Setup

Current Certificate: This refers to the certificate currently being used.

EnjoyAS2 can manage multiple certificates, but you need to specify which certificate to use as the current one.
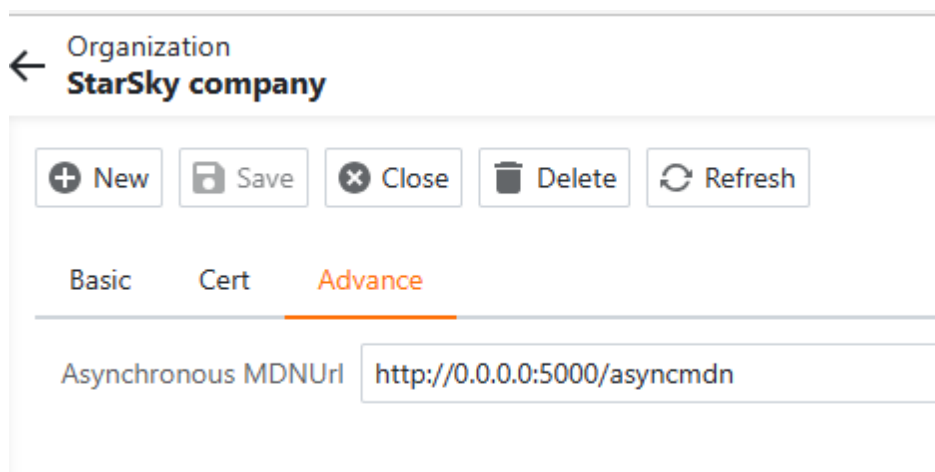
Advance settings

Async MDN URL

Asynchronous MDN refers to the scenario where the recipient may take some time to process the received file and does not immediately send back the MDN receipt in the same HTTP connection. Instead, the MDN receipt is sent at a later appropriate time. When the recipient sends the MDN receipt, they need to know the URL where you will receive the asynchronous receipt. In this case, you specify the URL where the recipient will send the asynchronous receipt.

The default URL for asynchronous MDN receipt is: http://x.x.x.0:5000/asyncmdn.

Please note the format: http://ip:port/asyncmdn. The specified IP address should be accessible.

If you are using synchronous MDN, then there is no need to specify this URL.

Partners refer to all the trading partners with whom you exchange information. They are the recipients of the information you send and the   senders of the information you receive.

Basic Setting

Name: It is the description of your trading partner. In this example, let's use the company name "EnjoyEDI."

AS2 Identifier: This identifier is used by both parties to recognize each other. Here, we'll use "EnjoyEDI" as the AS2 identifier.

Partner URL: This is the URL that your business department will use to communicate with the business partner. In this case, it is "http://EnjoyEDI.Com:5000/as2server."

Organization: StarSky Company (This is the organization to which the business partner belongs.)
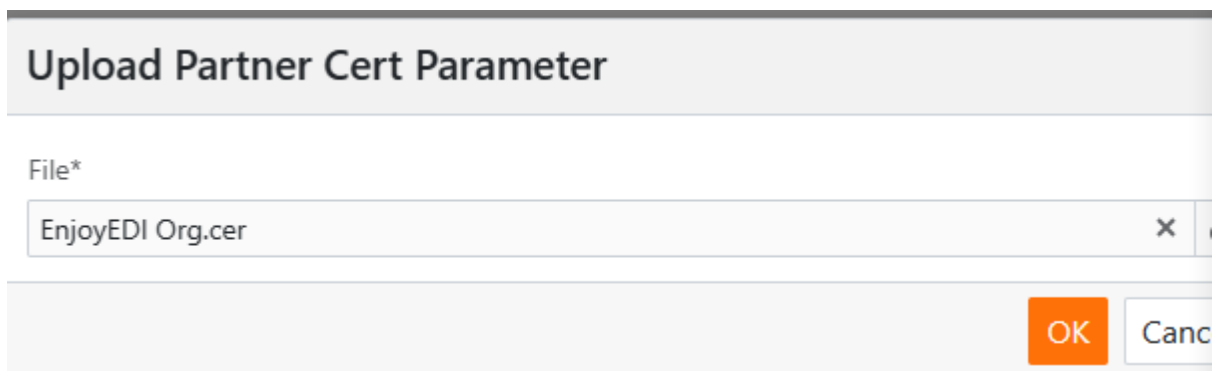
Certificate

Certificate: It is the public key certificate provided by the

business partner.

In this example, we have the certificate from EnjoyEDI company.(click here to download certificate <u>enjoyedi org.cer)</u>

Upload the Business Partner Certificate :

EnjoyAS2 support .cer format certificate. here, we upload the example "enjoyedi org.cer" which we downloaded 。

Upload Partner Cert Parameter

File*

| EnjoyEDI Org.cer | ✕ |

OK Canc

Current Certificate:

 If there is only one certificate, the recently uploaded certificate will be automatically set as the current certificate.

However, if there are multiple certificates, you will need to select the desired certificate from the available options.

MDN

During message transmission, you can choose whether the recipient needs to send back an MDN receipt and whether the receipt needs to be signed. If you have set the requirement for an MDN receipt but the recipient does not send it, or if you have specified that the receipt should be signed but it arrives without a signature, EnjoyAS2 will prompt an error.

MDN Delivery Method:

By default, the requested method for the recipient to send back an MDN receipt is synchronous.

In synchronous delivery, you can think of it like a delivery person handing over a package to the recipient and requesting an immediate signed receipt in return.

In asynchronous delivery, you can think of it like the delivery person handing over a package to the recipient without requiring an immediate signed receipt. Instead, the recipient, which is your business partner, will separately send a signed receipt to the specified address at a later time. This address is the asynchronous URL that you set in the advanced settings of your business department.

Partner
EnjoyEDI

| 💾 Save | ⊗ Close | Start Automatic Send Action | Stop Automatic Send Action | ↻ Refresh |

| Basic | Cert | Mdn | Encrypt | Signature | Send/Receive Settings | SendFileList | ReceiveFileList |

When Send data to this partner, and request MDN :

Basic

Request MDNReceipt ☑

Request MDNSignature ☑

MDN Mode

Request MDNAsync Delivery ☐

Encrypt

When sending data to Partner, you can choose whether to encrypt the message when sending it to this business partner and select the encryption algorithm if encryption is required.

If encryption is enabled, you will encrypt the data using the specified encryption algorithm before sending it to the business partner.

It is generally agreed upon in advance with the

business partner, and the business partner will check if the received information is encrypted. If it is not encrypted, an error will be reported.

In the example scenario with the business partner EnjoyEDI, we require the received data to be encrypted.

When receiving data:

You can specify whether the incoming messages from this business partner should be encrypted. If encryption is required for the received information and the sender did not encrypt it, an error will be prompted.

EnjoyAS2 supports one of the encryption methods: DES, 3DES, AES128, or AES256, for data received from the business partner.

Sign

When sending data,you can choose whether to sign the data when sending it to the business partner and select the signing algorithm if signing is required.

This is generally agreed upon in advance with the business partner, and the business partner will check if the received information is signed. If it is not signed, an error will be reported.

In the example scenario with the business partner EnjoyEDI, they require the received data to be signed.

When receiving data:

You can specify whether the incoming data from the business partner should be signed. The signing algorithm used by the business partner can be MD5, SHA1, SHA256, SHA384, or SHA512.

If signing is required and the received data is not

signed or if an unsupported signing algorithm is used, EnjoyAS2 will prompt an error.

send receive settings

When sending files, one way to specify the file source is by specifying a folder.

Base Directory:

Base Folder: The foundation for all other folders. The default is c:\enjoyas2\data, but you can customize it.

Send Folder Settings:

Send Folder Name: Base Folder + Partner ID + "send"

Already Sent Folder Name: Base Folder + Partner ID + "sent"

Receive Folder Settings:

Save received files to the receive folder: Check this option if you want to save received files to the receive folder.

Receive Folder Name: Base Folder + Partner ID + "received"

Setting the Transmission Flag:

Automatic Transmission: When this flag is set, EnjoyAS2 will automatically send files in the database that have the transmission flag. This process occurs in the background.

EnjoyAS2 imports data from different sources into the database.

Files in the send folder that are imported into the AS2 database will be assigned the automatic transmission flag, except for test files creation and manually uploaded send files.

Files with the automatic transmission flag will be sent automatically. Files without the flag will require manual transmission or explicit setting of the automatic transmission flag.

Retry Count: 10 times (maximum number of retry attempts after sending failure)

Partner
EnjoyEDI

| 💾 Save | ⊗ Close | Start Automatic Send Action | Stop Automatic Send Action | ↻ Refresh |

| Basic | Cert | Mdn | Encrypt | Signature | Send/Receive Settings | SendFileList | ReceiveFileList |

Base Dir

| Base Dir | c:\enjoyas2\data |

Send Settings

| Send Folder | c:\enjoyas2\data\EnjoyEDI\send |
| Sent Folder | c:\enjoyas2\data\EnjoyEDI\sent |

automatic

| Automatic Send | ☐ |

Receive Settings

| Save To Receive Folder | ☑ |
| Receive Folder | c:\enjoyas2\data\EnjoyEDI\received |

Automatic Settings

| Retry Maximum Attempts | 10 |

Send File List

This is the place where you manage all your sending files.

"Create Test File" button

EnjoyAS2 provide functionality to create test files in manually. These created test files

is used to send and check whether communication is ready or not

Create Simulator File Parameter

Partner

EnjoyEDI

Count(1-10)

5

OK   Cancel

To upload files

you can upload files to be sent.

Upload Partner File Parameter

Partner

EnjoyEDI ▾

File

Choose File 📎

OK Cancel

manually send files:

1. Select the file(s) that you want to manually send by ticking the checkbox next to them.

2. Click on the "Manual Start Transfer Files" button to initiate the manual sending process.

After clicking the "Send Files" button, EnjoyAS2 will attempt to send the selected files to the designated recipients. The sending status will be displayed, indicating whether the files were sent successfully or if there was a failure. If there is a failure, you can view the sending logs to investigate the cause.

To view the sending logs, follow these steps:

1. Click on the "Send Logs" option.

2. The sending logs will provide detailed information about the transmission, including any errors or issues encountered during the sending process.

AS2 Send File
enjoyas2 test file_id_1.txt

AS2 Send File   SendLogs

Name

enjoyas2 test file_id_1.txt

Transfering

☐

Content Str

hello from StarSky

Transfered

☐

Retry Count

0

Created Date

2023 6/11 11:14 aa

Send Status

None

Partner

EnjoyEDI

OK   Cancel

3. To view the sending results in the sending logs

AS2 Send File
enjoyas2 test file_id_1.txt

AS2 Send File	SendLogs

Text to search... 🔍 | ▾ |

☐		Send File	Send Info ↑	MDN	Mic	Created Date
☐	Edit	enjoyas2 test file_id_1.t...	1. begin send and wait response process error:-- MDNBou... Content-Type: text/plain as2 receive detail error info:mes... should be encrypted, but received is not -- MDNBou... Content-Type: message... notificati... Original-Reci		jIKvC89P...	2023 6/11 11:16 aa
☐	Edit	enjoyas2 test	request encrypt:... encrypt:... 1. begin send and		lkNb/xh...	2023 6/11 11:18 aa

OK   Cancel

In the example scenario you provided, where your business partner, EnjoyEDI , requires the received data from StarSky to be both encrypted and signed, if you send data without encryption, the MDN receipt will indicate that the received information should have been encrypted but was not.

This feedback serves as a reminder to ensure that the data you send to EnjoyEDI complies with their encryption and signing requirements. It's important to review your data transmission settings, including encryption and signing options, before sending data to ensure that it aligns with your business partner's expectations.

To set the automatic transmission status:

For files that do not have the automatic transmission flag, test files created and files uploaded for example, click on "Set send file start transfer Flag" if you want them to be automatically transmitted.

sure, you can click "Reset send file start transfer flag " to reset the flag.

To reset the transmission status:

 Click on the "Reset Transfer Status" button to restore the files to their pre-sending state.

For automatic sending:

If the files marked for transmission in the database have the automatic transmission flag set and the business partner has the automatic sending option checked, EnjoyAS2 will automatically send these files in the background.

Receive File List:

- Processing Flag: Indicates whether the file meets the

AS2 standards. If it shows as "Success," then the file complies with the AS2 standards. Otherwise, it indicates a failure.

- IsMDN Send: If checked, it means that an MDN (Message Disposition Notification) has been sent to the sender.

- Is Async MDN: If checked, it means that the MDN was sent using an asynchronous method. If not checked, it was sent using a synchronous method.

Software Version

	Trial（90days）	Basic Versic
supported partners	1	1
supported organizations	1	1
function	Basic	Basic

software download click here

License

EnjoyAS2 offers a 3-month free trial period. After the trial period ends, the software will no longer be able to run. If you wish to continue using it, you will need to purchase a license from EnjoyEDI. Upon purchasing the license, EnjoyEDI will provide you with an authorization file. By uploading this authorization file to the system, you can activate the full version of the software and continue using it.

Please note that it is important to obtain a legitimate authorization file from EnjoyEDI and follow the instructions provided by the software to correctly upload and use the file.

upload license file

Please send your company name, contact phone number, and hardware ID to the email address 896294580@qq.com to apply for the official license file for EnjoyAS2. Once you receive the authorization file, you can upload it to the system to activate the full version.

Upload File Parameter

File*

| starsky.license | × | 📎 |

OK Cancel

After clicking "OK," the authorization status, software version type, supported partner quantity, and supported organization quantity will be updated accordingly.

Enjoy License
D:\enjoyas2 service\starsky.license

Save | Close | licence invalidate | License Reactivate | Upload License | Refresh

EnjoyLicense   Contact

Oid   1

License info

License File Name	D:\enjoyas2 service\starsky.license
Hardware Id	1701-2EEC-EF91-A254-1919
License Status	Licensed
Version Type	Standard
Partners	1
Organizations	1
Trial Days	
TrialDays_Left	
Confirm Code	
Company	StarSky

If you need to transfer the authorization to another

computer, you need to perform "license invalidate." Once the authorization is deactivated, the license on this computer will become invalid and revert back to the trial version. At this point, a confirmation code will appear in the basic information section. You will need to provide this confirmation code to EnjoyEDI for verification. Once the confirmation code is verified, EnjoyEDI will provide you with an activation code to reactivate the software.

To reactivate the software, you need to send the confirmation code, which was generated after

deactivating the authorization, to EnjoyEDI. After verifying the confirmation code, EnjoyEDI will send you an activation code. Once you receive the activation code, enter it and click "OK" to complete the reactivation process. The page will then restore to the authorized state.