Pre-configured AS2 Host Quick-Start Guide

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Process Map

Note: VersaLex is the underlying AS2 engine that drives your Cleo product. The term "VersaLex" will be used throughout this document to refer to your Cleo product.

If just getting started with VersaLex, refer to **Section 3, 'Getting Started'** of the User's Guide which is included as part of your installation, or you may obtain it from Cleo's documentation web site through your VersaLex product by clicking on the support link under the '**Help>Links**' option. Then follow these steps to set up your pre-configured AS2 host:

- ☐ Obtain your local host address from your system administrator (page 3).
- ☐ Configure your client-side firewall (page 3).
- ☐ Create a new self-signed certificate or import an existing certificate into VersaLex (page 5).
- ☐ Send your certificate to your trading partner (page 7).
- ☐ Activate the Pre-configured Host and the Local Listener (page 9).
- ☐ Configure your:
    - ☐ Local Listener (page 10).
    - ☐ Host (page 13).
    - ☐ Mailbox (page 15)

Overview

The AS2 standard provides the ability to securely transport EDI (and other data, including binary and XML) to a remote host, guarantees that the message has not been changed in-transit and is received and can be read only by the intended recipient. A returned MDN receipt (Message Disposition Notification) further guarantees that the intended recipient has received the message.

AS2 uses the HTTP protocol as its transport mechanism to send files over the Internet. VersaLex uses the PUT (HTTP POST) action command to transport the secure data to the remote host.

The pre-configured AS2 Host and the Local AS2 Listener are provided to allow you to quickly set up your AS2 installation. Pre-configured hosts are already pre-defined with the correct specifications for exchanging messages with a specific trading partner or VAN.   You only need to define a couple parameters specific to your installation.

Obtain Your Local Host Address

A static visible external IP address (or qualified host name which includes your domain address) for the system (your local host) where you have installed VersaLex must be obtained. You will use this address or host name to properly configure VersaLex and to exchange URL information with your trading partner.

Contact your systems administrator if you do not know your external IP address or host name or obtain it from the following link: http://www.cleo.com/whoami

Configure Your Client-Side Firewall

Note: this section refers to your firewall settings, and not settings within VersaLex.   You may want to contact your systems administrator with questions pertaining to your firewall.

If your server is behind a firewall, it will be necessary to configure your firewall to allow VersaLex to properly exchange messages with the remote AS2 server.   Depending on the type of firewall you have, the following settings in your firewall should be modified:

1. Incoming and outgoing messages should be allowed from and to your remote trading partner's IP addresses or qualified host name.

2. The port for your trading partner's remote server should be opened for outgoing messages.

3. The port(s) that you configured for your Local AS2 Listener should be opened to allow incoming messages.

Refer to the host-specific information to determine the specific firewall settings for your trading partner's pre-configured host.   To aid in determining the ports that will need to be opened, you may generate a report of the currently used inbound and outbound ports through your VersaLex product by clicking on the '**Tools>TCP/IP Port Usage**…' option.

Determining Your URL Information

Before you can begin a trading relationship, you must provide your trading partner with your URL information, which will be in the form:

http://your-host:port/

where:

your-host is **Local Host Address** value you have obtained from your systems
        administrator (page 3) and will be entered on your Local Listener AS2
        panel (page 10).   This will be either a fully qualified host name or an IP
        address.

port is the **HTTP Port #** you will be entering on your Local Listener HTTP panel
        (page 11).   A port setting of 5080 is suggested, however any port between
        1024 and 65535 may be used.

As an example, if your local host address is myhost.com and your port is 5080, the URL you would provide to your trading partner would be: **http://myhost.com:5080/.**

Certificate Creation and Exchange

Certificates must be exchanged before the trading relationship can be established. Either a new self-signed certificate will need to be created or an existing CA (Certificate Authority) certificate must be registered in VersaLex.

To acquire a CA-signed certificate, a self-signed user certificate must first be generated. VersaLex provides an integrated Certificate Manager, which may be used to create a self-signed certificate. See the section, **Certificate Manager: Reference**, of the User's Guide for more detailed information.

Note: You may use the same self-signed certificate for multiple trading relationships (which is configured on the AS2 tab at the Local AS2 Listener level) or a different self-signed certificate may be used for each trading relationship (which is configured on the Certificates tab at the Mailbox level and described on page 17).

Generating Self-Signed Certificates

Select the *Certificates* icon at the top of the panel:
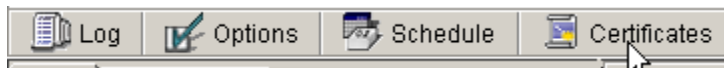
1. Right-click the Users store in the tree pane and select '**Generate>Self-signed User Certificate**…'

An editor display similar to the following will appear:

2. Enter the required information. The above is an example.

   Note: Be sure to record your User Alias and Password, as they will be required
   later to configure the AS2 Listener.

| User Alias	An arbitrary name for the certificate (e.g. 'CLEO')
Common Name	A user name for client-style certificates; a fully qualified computer name (or registered IP address) for server-style certificates (e.g. 'cleo.com').
Email	e.g. 'user@cleo.com'
Organization Unit	This could be a company department (e.g. 'Cleo Engineering', or 'Cleo Production')
Organization	Official company name (e.g. 'Cleo Communications, Inc.')
City	Complete city name (e.g. 'Loves Park')
State	State name (e.g. 'IL')
Country	Two characters only (e.g. 'US'). (This is available through a pulldown menu.)
Signature Algorithm	Either MD5 or SHA-1. **Cleo suggests SHA-1**
DigitalSignature	Set if certificate is to be used for SSL client or S/MIME (AS2) signing. **This field should generally be checked.**
KeyEncipherment	Set if certificate is to be used for SSL server or S/MIME (AS2) encryption. **This field should generally be checked.**
Valid For	The number of months that this certificate will be valid. By

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	default, it is set to 24 months, but may be increased up to 96 months.
Private Key Size	512-bit or 1024-bit (1024 bit size is recommended as it provides stronger encryption)
Private Key Password	This is an arbitrary password. *This is a case sensitive value.* Make sure you remember this password. You will need it in order to associate the Server ID to a Host.
Confirm Password	Re-enter the private key password.

3. After all the required information is entered, click **OK**. Because the generation of a self-signed certificate involves public-private key pair generation, this process may take some time. After the key-pair and certificate are created, the certificate is added under 🔄 Users in the tree pane.

Exchanging Certificates

Once you have a self-signed certificate or third-party CA certificate that you want to use for this trading relationship, export it from VersaLex to a file using the following process:

1. Right-click on the certificate you just added under 🔄 Users in the tree pane and select '**Export>U̲ser Certificate**…'
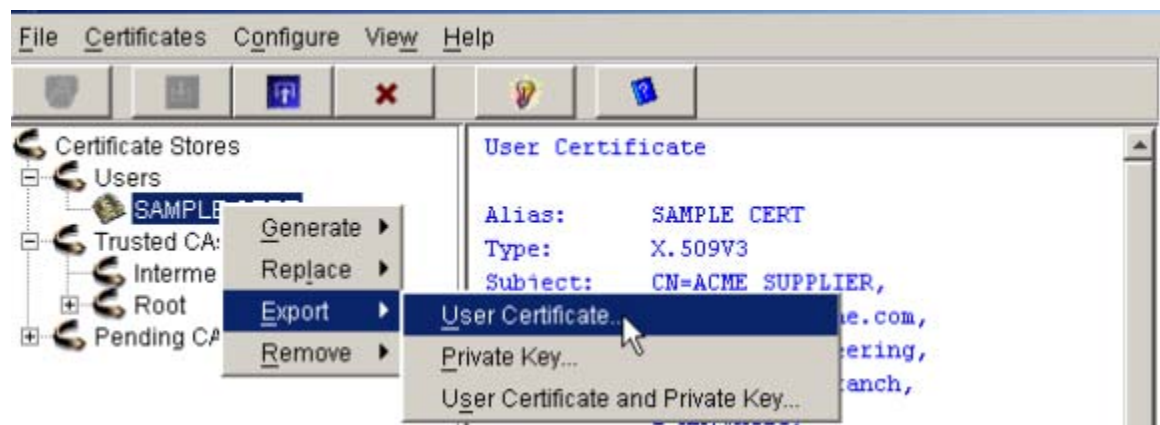
2. A display prompt similar to the following will appear:
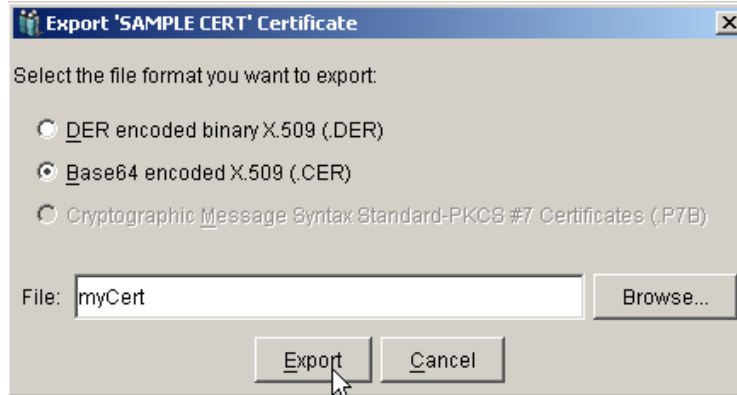
Enter a filename for your certificate, e.g. myCert. When the certificate is exported,
the file extension '.cer' will automatically be added to the filename you enter. By
default the certificate will be stored in the VersaLex home directory.   You may
choose to store your certificate file in another directory by first clicking the **Browse…**
button and choosing a new directory before entering your certificate name.
(Remember the name of your certificate and the folder where you stored it, you'll
need it for the next step.) Click the **Export** button to complete the export and save
your certificate.

3. Follow the procedure provided by your trading partner to exchange certificates.
Refer to the host-specific information for your pre-configured host for additional
information.

4. VersaLex provides certificates for some of the pre-configured hosts and are
already installed for you as part of your installation. Some trading partners require
that you obtain their certificate directly from them. Refer to the host-specific
information for your pre-configured host for additional information.

If you are required to obtain a certificate from your trading partner, you must
register it in VersaLex. You may register the certificate you receive by saving the
certificate file in the certs\ directory (under the VersaLex home directory) or by
using Certificate Manager's *Import* command.   Refer to the *User's Guide* for
information on using the *Import* feature.   In the **Mailbox Configuration** section,
you will be instructed on how to configure VersaLex to use this certificate.

Note: You may view your trading partner's certificate by searching for it under the
Root or Intermediate branch under Trusted CAs in the tree pane.

Configuration

Activate the AS2 pre-configured host:

1. Click the **Preconfigured** tab in the 🗂 tree pane.

2. Find the host that you wish to activate in the list of pre-configured hosts and right-click on it.

3. Select 'Clone and Activate'.

   [Clone and Activate]

   The **Active** tab will be automatically selected in the tree pane and a message will appear (if you have not previously configured the AS2 Listener) in the following format:

   The *specifically named* host requires that the preconfigured 'Local AS2 Listener' local host also be active. Both hosts will be cloned and activated.

4. Click [OK].

   The entire pre-configured 🌐 *host* and *listener* branches will be copied and made active and the new active host will automatically be selected in the tree. The new active host alias may be appended with a number, if necessary, to make it unique. The original pre-configured host will remain in the Preconfigured tree.

Now you'll configure your local listener branch and define a few parameters for your trading partner's pre-configured host.
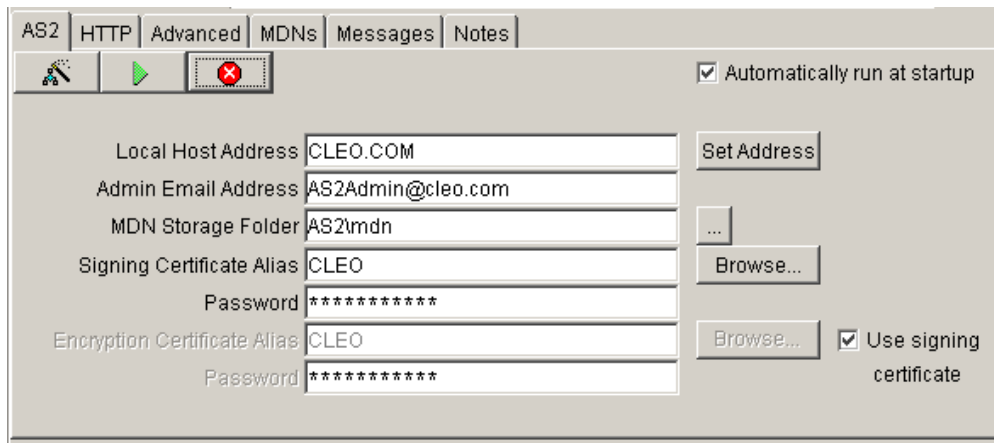
The Local Listener

The listener panel contains separate tabs, which are used to configure the parameters of your VersaLex AS2 installation. The listener must be configured properly in order for your trading partner to successfully send you messages.

A wizard is available to walk you through the steps for configuring the AS2 Listener.   To invoke the wizard, click the [icon] icon on the Listener panel and follow the instructions that are provided.

The AS2 Listener Panel Tab

1. Check **Automatically run at startup** to automatically have the "receiver" process start each time VersaLex is started.

2. Enter the **Local Host Address** of the machine where the "receiver" process will be running. This is the address of the computer where VersaLex is installed and running. This address can be either a fully qualified host name (recommended) or a static visible external IP address.   You may use the [Set Address] button to set your external IP address or you may refer to the previous section: **Obtain Your Local Host Address** for additional information.

3. Enter the **Admin Email Address.**   This is the email address of the person who will be the administrative contact for AS2.

4. If desired, change the location of the **MDN Storage Folder**. This folder stores Message Disposition Notifications (MDNs). By default this directory is pre-defined to be a subdirectory under the AS2 directory path. To change the location:

    a. click the […] button
    b. specify the new path using the directory chooser
    c. click [Apply]

5. Enter the **Signing Certificate Alias**. This is the name you have given the signing certificate that you created (or imported) through the Certificate Manager. Unless you are overriding this certificate at the Mailbox level of the pre-configured host (described on page 17), this certificate must be the same as the one you exported and sent to your trading partner. Click the [Browse…] button to view your certificate (under the Users branch) and click the [Select] button.

6. Enter your **Password** for your signing certificate's private key. This field is encrypted and cannot be viewed on the listener panel or within its associated configuration file.

    Leave the **Use signing certificate** box checked so that the same certificate will be used for signing and decrypting your messages. The **Encryption Certificate Alias** and **Password** fields will automatically be populated and disabled, designating the same private key is to be used for both signing and decryption.

    Note: If you have created or obtained a separate certificate for decrypting messages, you would also enter the **Encryption Certificate Alias** and its **Password**.   The **Use signing certificate** checkbox would not be selected.

The HTTP Listener Panel Tab

1. If you only have trading partners who just support the HTTP protocol, you will only need to check the **HTTP** box**.**   This will enable you to have a "receiver" process that will only accept non-secure HTTP messages on the specified **Port**. This receiver process can run at the same time as the HTTP/s receiver process if you have other trading partners who are supporting HTTP/s (SSL). **Refer to the host-specific information for your preconfigured host for further information.**

2. Enter the **Port** number.   A port value of 5080 is suggested but you may enter any unused port number between 1024 and 65535.

    Advanced Feature: HTTP and HTTP/s AS2 listeners may be configured to listen on multiple ports by separating the field values with commas. For example, you may have some trading partners who have outbound firewall restrictions and are not able to send to your selected port of 5080 but can only send to port 80. To accommodate all of your trading partners, you may want to be able to listen on port 5080 and port 80 (if no web server is currently installed on your system). To do this, you would enter 5080,80 in the **Port** field. This allows the firewall restricted trading partners to be able to send to your server while allowing you to continue to accept inbound messages from your other trading partners on port 5080.

Once the AS2 and HTTP listener panels are fully configured (denoted by the branch turning from orange to black), start the listener by clicking the green arrow button from either panel. The listener branch will turn to green to signify it is running and is able to receive messages from your trading partner.

Host Configuration

A host describes the *remote* server to which files will be sent.   The host's parameters specify its location and how it is reached.   The settings for each of the Host Configuration tabs have been pre-defined based on the requirements of each preconfigured host. Tabs that are fully pre-configured with parameters that should not be changed are not displayed in this document. However, if you have specific file naming requirements, you may set them under the AS2 tab.

In the **AS2** tab:
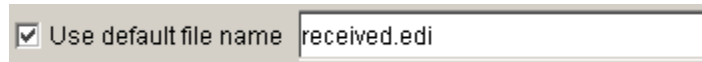
a. The only **MIME** format currently supported by VersaLex is **S/MIME**.

b. The **Folded Headers** checkbox is used to enable/disable automatic line wrapping of HTTP headers exceeding 76 characters. (By default headers are not folded since some non-VersaLex remote hosts using Microsoft Internet Information Server (IIS) cannot handle folded headers properly.) *Unless your host has been pre-configured to enable "Folded Headers", leave this field unchecked!*

c. The **Store Raw Sent** checkbox is used to save the content of the HTTP header and raw (unprocessed) message sent to the remote host.   The files are stored in the as2\sent\ directory under the VersaLex home directory. These files may be useful in diagnosing problems, but should be disabled if disk space needs to be conserved.
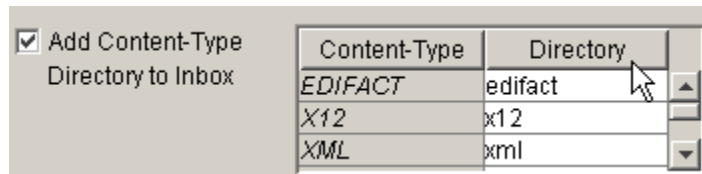
d. The **Overwrite duplicate file names** checkbox allows for unique naming of stored files. When this checkbox is selected, any files that exist in the specified "Inbox" will be overwritten. When not selected, incoming files with the same name as one that already exists will be appended with a unique number beginning with 1 and incremented each time a new file is saved.

e. The **Use default file name** checkbox allows the incoming file to be given the name specified in its associated field.

This feature is useful in situations where the received file name must be something other than its original file name.   (This is common for AS/400 platforms where the file name must be specified with a .mbr extension.)

f. The **Add Content-Type Directory to Inbox** checkbox allows for sorting of incoming messages based on content-type to a subdirectory (under the *Inbox* specified on the General tab).   You specify each of the Content-Types that you want directed to specific subdirectories by entering a name in the **Directory** field.

Directory entries may be made for Content-Types of: EDIFACT, X12, XML, Binary, Plain Text, and Other (a default catch-all for messages with all other Content-Types you may receive.) The same subdirectory may be used for multiple Content-Types. You may also leave Directory entries blank which will cause any received messages of that Content-Type to be stored in the Inbox specified on the General tab.

Note: If you use this feature, incoming messages will be placed in the specified folder *based on the content type specified in the HTTP header of the message*. VersaLex does not check the actual content of the message to determine its content type.

Mailbox Configuration

If the Recipient's **Encryption Certificate** field has already been pre-configured with a certificate name, you may skip this section. Otherwise, it will be necessary to populate this field with the name of the encryption certificate that you received from your trading partner for this trading relationship. This is the name of your trading partner's certificate to be used for encrypting the messages that you send. (You should have received this file during the **Certificate Exchange** section discussed earlier.)

In the **Certificates** tab:

Specify the name of the file containing the Recipient's **Encryption Certificate** by clicking the [Browse…] button.

For the purposes of this demonstration, assume that you have either received an attachment via email or downloaded a file from your trading partner called TradingPartnerCert.cer. You have also either copied this file to the "certs" folder under the VersaLex home directory or have imported it into VersaLex through the Certificate Manager. (See the section, **Certificate Manager: Reference**, of the User's Guide for more detailed information.)

You will see a screen similar to the one that follows. Find the certificate that matches the one you received from your trading partner (in this example it is TradingPartner.cer) and click **Select** .
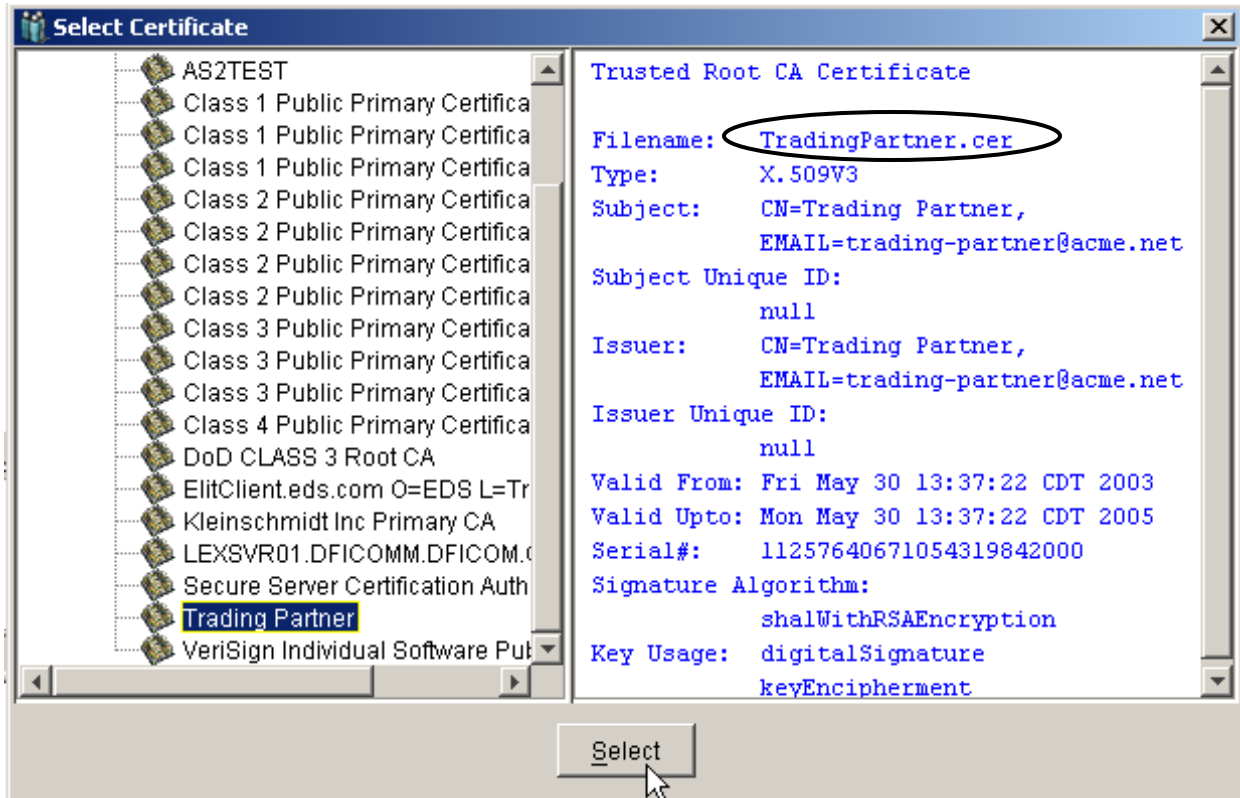
The **Encryption Certificate** field will be filled in with the path to your trading partner's certificate:
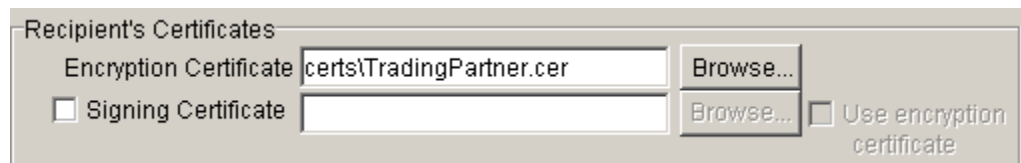
You may also specify a **Signing Certificate** to be used for validation of incoming data messages from this trading partner.   By default, VersaLex uses all the certificates in its certificate store to determine if the signature of the incoming data message is trusted. To

limit validation to a specified signing certificate (i.e., the incoming data message <u>is</u> <u>required</u> to be signed with that certificate), select the Signing Certificate checkbox and browse for the certificate to be used for validating message signatures:

If your trading partner is using the same certificate for signing and encryption (which is the general practice among most trading partners), select the **Use encryption certificate** checkbox to automatically populate the Signing Certificate field with the same certificate as was selected in the **Encryption Certificate** field:

Overriding Certificates at the Mailbox Level

VersaLex provides the ability to specify a signing, and optionally an encryption certificate, for each (or for any specified) trading relationship.   When you override your signing and encryption certificates at the mailbox level, the certificate(s) that you originally specified on the Local AS2 Listener panel will not be used for this trading relationship. Instead, the alternate certificate(s) that you specify will be used for signing your outbound messages and decrypting inbound messages from this trading partner.

By default, each mailbox uses the same certificates specified at the Local Listener level and are displayed and grayed out at the mailbox level:

To choose an alternate certificate (that you have previously created through the Certificate Manager or have obtained from a third-party Certificate Authority) for this trading relationship, select the **Override Local AS2 Listener Certificates** checkbox. This will cause the Signing and Encryption Certificate Alias and Password fields to be cleared out and enabled:

Now repeat the process of entering the Signing Certificate Alias and Password, and optionally, the Encryption Certificate Alias and Password. The procedure for selecting the certificate at the mailbox level is the same as that described in The Local Listener section on pages 10-11.

Configuring the Mailbox / HTTP Parameters

Since settings on this tab vary widely based on host-specific parameters and values, detailed configuration information for each of the following pre-configured hosts is described in the next sections:

AAFES

ASDA

DeCa

Dollar General

EDS*ELIT

GXS ICS

IBM

ICC.NET

Kleinschmidt

Lowes

McLane

Meijer

Sterling Commerce

Target

UCCnet

Wal-Mart

Winn Dixie

AAFES Mailbox / HTTP Configuration

In the **HTTP** tab:

- Enter <u>your</u> <u>AS2-Name</u> in the **AS2-From** field. This is a name that you and AAFES
  have agreed will uniquely identify your organization in this trading relationship,
  e.g., CLEOAS2.   **The AAFES questionnaire requests a "Primary" and
  "Secondary" host ID. VersaLex only uses the "Primary" host ID** *that is the
  same as your AS2-Name.* **You may ignore the "Secondary" host ID in the
  AAFES questionnaire.**

  Note: AS2 names are case and space sensitive.   The AS2 name provided to
  AAFES must match <u>exactly</u> with the AS2 name that you have created.

- Select the AAFES AS2-Name in the **AS2-To** field based on whether you are
  sending to the test environment (Start ID) or the production environment (Prod
  ID). A pull-down list like the one shown above is provided for easy selection.   By
  default, the Start ID has already been selected for you.

AAFES Host-Specific Configuration Information

Firewall Settings	Certificate Exchange to Trading Partner	Provisioning of Trading Partner's Certificate	HTTP or HTTP/s Listener Port Enabled
For communication to AAFES, open port 4080 outbound. For communication from AAFES, open the port that you configured for your Local AS2 Listener. Cleo recommends that you use port 5080, but any port between 1024 – 65535 is acceptable.	Send the certificate that you exported from VersaLex as an email attachment	AAFES will send you a certificate as an attachment to an email message. You can easily register this certificate in VersaLex by copying the email attachment into the certs\ directory (under the VersaLex home directory) or by using Certificate Manager's *Import* command. Refer back to the 'Mailbox Configuration' section for instructions on setting the host to use the certificate.	HTTP

ASDA Mailbox / HTTP Configuration

In the **HTTP** tab:

Command	Parameter	Default Value	Header	Default Value
PUT			AS2-From	
			AS2-To	145015715444440
			Subject	EDI Message
			Content-Type	X12

- Enter your AS2-Name in the **AS2-From** field. This is a name that you have submitted to ASDA that will uniquely identify your organization in this trading relationship, e.g., CLEOAS2. ASDA's AS2-Name has already been configured for you in the **AS2-To** field.

  Note: AS2 names are case and space sensitive. The AS2 name that you provide to ASDA must match exactly with the AS2 name that you have created.

ASDA Host-Specific Configuration Information

Firewall Settings	Certificate Exchange to Trading Partner	Provisioning of Trading Partner's Certificate	HTTP or HTTP/s Listener Port Enabled
For communication to ASDA, open 161.165.202.30 to port 5080. For communication from ASDA, open 161.165.202.24, 161.165.202.25, 161.165.202.26, and 161.165.202.27 for the port that you configured for your Local AS2 Listener. Cleo recommends that you use port 5080, but any port between 1024 – 65535 is acceptable.	ASDA will provide you with a web page link via email. This page may require a password, which will also be provided. Use the "Upload" option on this page to send the certificate that you exported.	ASDA will provide you with a web page link via email. This page may require a password, which will also be provided. Use the "Download" option on this page to get ASDA's certificate. Refer back to the 'Mailbox Configuration' section for instructions on setting the host to use the certificate.	HTTP

DeCa Mailbox / HTTP Configuration

In the **HTTP** tab:

- Enter your <u>AS2-Name</u> in the **AS2-From** field.   This is a name that you have submitted to DeCa that will uniquely identify your organization in this trading relationship, e.g., CLEOAS2.   DeCa's AS2-Name is "AS2" and has already been configured for you in the **AS2-To** field.

  Note: AS2 names are case and space sensitive.   The AS2 name that you provide to DeCa must match <u>exactly</u> with the AS2 name that you have created.

DeCa Host-Specific Configuration Information

Firewall Settings	Certificate Exchange to Trading Partner	Provisioning of Trading Partner's Certificate	HTTP or HTTP/s Listener Port Enabled
For communication to DeCa, open port 8800 outbound. For communication from DeCa, open the port that you configured for your Local AS2 Listener. Cleo recommends that you use port 5080, but any port between 1024 – 65535 is acceptable.	Send the certificate that you exported from VersaLex as an email attachment	DeCa's certificate: edicommissaries.deca.mil.cer has already been installed in your certs folder so you will not need to obtain a certificate from DeCa.	HTTP/s

Dollar General Mailbox / HTTP Configuration

In the **HTTP** tab:

AS2	Certificates	HTTP	Notes

Command	Parameter	Default Value	Header	Default Value
PUT			AS2-From	
			AS2-To	ediprod@dollargeneral.com
			Subject	EDI Message
			Content-Type	X12

- Enter <u>your</u> <u>AS2-Name</u> in the **AS2-From** field.   This is a name that you have submitted to Dollar General that will uniquely identify your organization in this trading relationship, e.g., CLEOAS2.   Dollar General's AS2-Name is "ediprod@dollargeneral.com" and has already been configured for you in the **AS2-To** field.

   Note: AS2 names are case and space sensitive.   The AS2 name that you provide to Dollar General must match <u>exactly</u> with the AS2 name that you have created.

Dollar General Host-Specific Configuration Information

Firewall Settings	Certificate Exchange to Trading Partner	Provisioning of Trading Partner's Certificate	HTTP or HTTP/s Listener Port Enabled
For communication to Dollar General, open port 80 outbound. For communication from Dollar General, open the port that you configured for your Local AS2 Listener. Cleo recommends that you use port 5080, but any port between 1024 – 65535 is acceptable.	Send the certificate that you exported from VersaLex as an email attachment	Dollar General will send you a certificate as an attachment to an email message. You can easily register this certificate in VersaLex by copying the email attachment into the certs\ directory (under the VersaLex home directory) or by using Certificate Manager's *Import* command. Refer back to the 'Mailbox Configuration' section for instructions on setting the host to use the certificate.	HTTP

EDS*ELIT Mailbox / HTTP Configuration

In the **HTTP** tab:

Command	Parameter	Default Value	Header	Default Value
PUT			AS2-From	
			AS2-To	EDS-ELIT
			Subject	EDI Message
			Content-Type	X12

- Enter your AS2-Name in the **AS2-From** field. This is a name that you and EDS*ELIT agree will uniquely identify your organization in this trading relationship, e.g., CLEOAS2.   The EDS*ELIT AS2-Name in the **AS2-To** field is "EDS-ELIT".

   Note: AS2 names are case and space sensitive.   The AS2 names that you configure in VersaLex must match exactly with the AS2 names that were established for your trading relationship.

EDS*ELIT Host-Specific Configuration Information

Firewall Settings	Certificate Exchange to Trading Partner	Provisioning of Trading Partner's Certificate	HTTP or HTTP/s Listener Port Enabled
For communication to EDS*ELIT, open port 20900 outbound. For communication from EDS*ELIT, open the port that you configured for your Local AS2 Listener. Cleo recommends that you use port 5080, but any port between 1024 – 65535 is acceptable.	Send the certificate that you exported from VersaLex as an email attachment	The EDS*ELIT certificate: "edselit.cer" has already been installed in your certs folder so you will not need to obtain a certificate from EDS*ELIT.	HTTP

GXS ICS Mailbox / HTTP Configuration

In the **HTTP** tab:

- Enter your <u>AS2-Name</u> in the **AS2-From** field. This is a name that you and GXS agree will uniquely identify your organization in this trading relationship, e.g., CLEOAS2.

- Enter GXS's AS2-Name in the **AS2-To** field. GXS will provide you with this AS2 name when your trading relationship is established.

  Note: AS2 names are case and space sensitive.   The AS2 names that you configure in VersaLex must match <u>exactly</u> with the AS2 names that were established for your trading relationship.

GXS ICS Host-Specific Configuration Information

Firewall Settings	Certificate Exchange to Trading Partner	Provisioning of Trading Partner's Certificate	HTTP or HTTP/s Listener Port Enabled
For communication to GXS, open port 80 outbound. For communication from GXS, open the port that you configured for your Local AS2 Listener. Cleo recommends that you use port 5080, but any port between 1024 – 65535 is acceptable.	Send the certificate that you exported from VersaLex as an email attachment	GXS will send you a certificate as an attachment to an email message. You can easily register this certificate in VersaLex by copying the email attachment into the certs\ directory (under the VersaLex home directory) or by using Certificate Manager's *Import* command. Refer back to the 'Mailbox Configuration' section for instructions on setting the host to use the certificate.	HTTP

IBM Business Exchange Mailbox / HTTP Configuration

In the **HTTP** tab:

- Enter your AS2-Name in the **AS2-From** field.   This is a name that you have submitted to IBM that will uniquely identify your organization in this trading relationship, e.g., CLEOAS2.   The IBM AS2-Name is "IBM" and has already been configured for you in the **AS2-To** field.

  Note: AS2 names are case and space sensitive.   The AS2 name that you provide to IBM must match exactly with the AS2 name that you have created.

- The [**Subject]** field should be left blank.

IBM Business Exchange Host-Specific Configuration Information

Firewall Settings	Certificate Exchange to Trading Partner	Provisioning of Trading Partner's Certificate	HTTP or HTTP/s Listener Port Enabled
For communication to IBM, open port 4080 outbound. For communication from IBM, it is likely that IBM will require that you listen on port 4080 due to their firewall restrictions. In that case, open port 4080 inbound and refer to the Advanced Feature section under the HTTP Listener tab to add port 4080 to the Local AS2 Listener.	Send the certificate that you exported from VersaLex as an email attachment	The IBM certificate: IBM_PKI.certificate.cer has already been installed in your certs folder so you will not need to obtain a certificate from IBM.	HTTP

ICC.NET Mailbox / HTTP Configuration

In the **HTTP** tab:

Command	Parameter	Default Value	Header	Default Value
PUT			AS2-From	
			AS2-To	ICCNET_AS2
			Subject	EDI File
			Content-Type	X12

- Enter your AS2-Name in the **AS2-From** field. This is a name that you and ICC.NET have agreed will uniquely identify your organization in this trading relationship, e.g., CLEOAS2.   The ICC.NET AS2-Name is "ICCNET_AS2" and has already been configured for you in the **AS2-To** field.

  Note: AS2 names are case and space sensitive.   The AS2 name provided to ICC.NET must match exactly with the AS2 name that you have created.

ICC.NET Host-Specific Configuration Information

Firewall Settings	Certificate Exchange to Trading Partner	Provisioning of Trading Partner's Certificate	HTTP or HTTP/s Listener Port Enabled
For communication to ICC.NET, open port 5080 outbound. For communication from ICC.NET, open the port that you configured for your Local AS2 Listener. Cleo recommends that you use port 5080, but any port between 1024 – 65535 is acceptable.	Send the certificate that you exported from VersaLex as an email attachment to support@icc.net. If you have questions, contact your ICC sales representative or call ICC Technical Support at (888) 422-4401.	The ICC.NET certificate: ICCNETAS2.cer has already been installed in your certs folder so you will not need to obtain a certificate from ICC.NET.	HTTP

Kleinschmidt Mailbox / HTTP Configuration

In the **HTTP** tab:

AS2	Certificates	HTTP	Notes		
Command	**Parameter**	**Default Value**	**Header**	**Default Value**	
PUT			AS2-From		
			AS2-To	smime1@kleinschmidt.com	
			Subject	EDI Message	
			Content-Type	X12	

- Enter <u>your</u> <u>AS2-Name</u> in the **AS2-From** field.   This is a name that you have submitted to Kleinschmidt that will uniquely identify your organization in this trading relationship, e.g., CLEOAS2.   Kleinschmidt's AS2-Name is "smime1@kleinschmidt.com" and has already been configured for you in the **AS2-To** field.

  Note: AS2 names are case and space sensitive.   The AS2 name that you provide to Kleinschmidt must match <u>exactly</u> with the AS2 name that you have created.

Kleinschmidt Host-Specific Configuration Information

Firewall Settings	Certificate Exchange to Trading Partner	Provisioning of Trading Partner's Certificate	HTTP or HTTP/s Listener Port Enabled
For communication to Kleinschmidt, open port 80 outbound. For communication from Kleinschmidt, open the port that you configured for your Local AS2 Listener. Cleo recommends that you use port 5080, but any port between 1024 – 65535 is acceptable.	Send the certificate that you exported from VersaLex as an email attachment: contact Kleinschmidt Customer Service at 847-945-1000 to set up a trading relationship and obtain the email address.	The Kleinschmidt certificate: smime1-2007.p7b has already been installed in your certs folder so you will not need to obtain a certificate from Kleinschmidt.	HTTP

Lowes Mailbox / HTTP Configuration

In the **HTTP** tab:

Comma...	Parameter	Default Value	Header	Default Value
PUT			AS2-From	
			AS2-To	lowesprodedi1@lowes.com
			Subject	EDI Message
			Content-Type	X12

- Enter your AS2-Name in the **AS2-From** field. This is a name that you and Lowes have agreed will uniquely identify your organization in this trading relationship, e.g., CLEOAS2. The Lowes AS2-Name is "lowesprodedi1@lowes.com" and has already been configured for you in the **AS2-To** field.
  Note: AS2 names are case and space sensitive. The AS2 name provided to Lowes must match exactly with the AS2 name that you have created.

  There are two Lowes AS2 pre-configured hosts in VersaLex – one for production and another for test. The only difference is the server address. The production server uses address 168.244.164.33, whereas the test server uses the address 168.244.164.32.

Lowes Host-Specific Configuration Information

Firewall Settings	Certificate Exchange to Trading Partner	Provisioning of Trading Partner's Certificate	HTTP or HTTP/s Listener Port Enabled
For communication to Lowes, open port 2080 outbound. For communication from Lowes, open the port that you configured for your Local AS2 Listener. Cleo recommends that you use port 5080, but any port between 1024 – 65535 is acceptable.	Send the certificate that you exported from VersaLex as an email attachment	Lowes will send you a certificate as an attachment to an email message. You can easily register this certificate in VersaLex by copying the email attachment into the certs\ directory (under the VersaLex home directory) or by using Certificate Manager's *Import* command. Refer back to the 'Mailbox Configuration' section for instructions on setting the host to use the certificate.	HTTP

McLane Mailbox / HTTP Configuration

In the **HTTP** tab:

- Enter your AS2-Name in the **AS2-From** field. This is a name that you and McLane have agreed will uniquely identify your organization in this trading relationship, e.g., CLEOAS2.   The McLane AS2-Name is "01009830555" and has already been configured for you in the **AS2-To** field.

  Note: AS2 names are case and space sensitive.   The AS2 name provided to McLane must match exactly with the AS2 name that you have created.

McLane Host-Specific Configuration Information

Firewall Settings	Certificate Exchange to Trading Partner	Provisioning of Trading Partner's Certificate	HTTP or HTTP/s Listener Port Enabled
For communication to the McLane server, open port 5080 outbound. For communication from McLane, open the IP address specified by McLane on the port that you configured for your Local AS2 Listener. Cleo recommends that you use port 5080, but any port between 1024 – 65535 is acceptable.	Send the certificate that you exported from VersaLex as an email attachment	McLane will send you a certificate as an attachment to an email message. You can easily register this certificate in VersaLex by copying the email attachment into the certs\ directory (under the VersaLex home directory) or by using Certificate Manager's *Import* command. Refer back to the 'Mailbox Configuration' section for instructions on setting the host to use the certificate.	HTTP

Meijer Mailbox / HTTP Configuration

In the **HTTP** tab:

- Enter your AS2-Name in the **AS2-From** field. This is a name that you have
  submitted to Meijer that will uniquely identify your organization in this trading
  relationship, e.g., CLEOAS2.   Meijer's AS2-Name is "ipprod" and has already
  been configured for you in the **AS2-To** field.

  Note: AS2 names are case and space sensitive. The AS2 name that you
  provide to Meijer must match exactly with the AS2 name that you have created.

Meijer Host-Specific Configuration Information

Firewall Settings	Certificate Exchange to Trading Partner	Provisioning of Trading Partner's Certificate	HTTP or HTTP/s Listener Port Enabled
For communication to Meijer, open port 2080 outbound. For communication from Meijer, open the port that you configured for your Local AS2 Listener. Cleo recommends that you use port 5080, but any port between 1024 – 65535 is acceptable.	Meijer will provide you with a web page link via email. This page may require a password, which will also be provided. Use the "Upload" option on this page to send the certificate that you exported.	Meijer will provide you with a web page link via email. This page may require a password, which will also be provided. Use the "Download" option on this page to get Meijer's certificate. Refer back to the 'Mailbox Configuration' section for instructions on setting the host to use the certificate.	HTTP

Sterling Commerce AS2 VAN Mailbox / HTTP Configuration

In the **HTTP** tab:

Command	Parameter	Default Value	Header	Default Value
PUT	username		AS2-From	
	password		AS2-To	SIBSERVICE1005
			Subject	EDI Message
			Content-Type	X12

- In the field to the right of the **username** label, enter the user name provided to you by Sterling Commerce.

- In the field to the right of the **password** label, enter the password provided to you by Sterling Commerce.

- Enter your <u>AS2-Name</u> in the **AS2-From** field.   This is a name that you have submitted to Sterling Commerce that will uniquely identify your organization in this trading relationship, e.g. CLEOAS2. Sterling's AS2-Name is "SIBSERVICE1005" and has already been configured for you in the **AS2-To** field.

  Note: AS2 names are case and space sensitive.   The AS2 name that you provide to Sterling Commerce must match <u>exactly</u> with the AS2 name that you have created.

Sterling Commerce Host-Specific Configuration Information

Firewall Settings	Certificate Exchange to Trading Partner	Provisioning of Trading Partner's Certificate	HTTP or HTTP/s Listener Port Enabled
For communication to Sterling, open port 80 outbound. For communication from Sterling, open the port that you configured for your Local AS2 Listener. Cleo recommends that you use port 5080, but any port between 1024 – 65535 is acceptable.	Send the certificate that you exported from VersaLex as an email attachment	Sterling Commerce will send you a certificate as an attachment to an email message. You can easily register this certificate in VersaLex by copying the email attachment into the certs\ directory (under the VersaLex home directory) or by using Certificate Manager's *Import* command. Refer back to the 'Mailbox Configuration' section for instructions on setting the host to use the certificate.	HTTP

Target Mailbox / HTTP Configuration

In the **HTTP** tab:

Command	Parameter	Default Value	Header	Default Value
PUT			AS2-From	
			AS2-To	086111470100
			Subject	EDI Message
			Content-Type	X12

- Enter <u>your</u> <u>AS2-Name</u> in the **AS2-From** field. This is a name that you and Target have agreed will uniquely identify your organization in this trading relationship, e.g., CLEOAS2.   Target's AS2-Name for the Production Server is "086111470100" and for the Test Server is "ZZTARGETTEST".   In the Production and Test pre-configured hosts[1], this AS2-Name has already been configured for you in the **AS2-To** field.

  Note: AS2 names are case and space sensitive.   The AS2 name provided to Target must match <u>exactly</u> with the AS2 name that you have created.

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Foot Note:

[1] There are two Target AS2 pre-configured hosts in VersaLex – one for production and another for test. The differences include 1) the server path (which is on the hidden HTTP tab) and 2) the AS2-To name.

	Production Server	**Test Server**
Server Path:	/exchange/086111470100	/exchange/ZZTARGETTEST
AS2-To Name:	086111470100	ZZTARTGETTEST

Target Host-Specific Configuration Information

Firewall Settings	Certificate Exchange to Trading Partner	Provisioning of Trading Partner's Certificate	HTTP or HTTP/s Listener Port Enabled
For communication to Target, open port 4080 outbound to 161.225.132.43 (for Test) and 161.225.132.157 (for Production). For communication from Target, open the port that you configured for your Local AS2 Listener. Cleo recommends that you use port 5080, but any port between 1024 – 65535 is acceptable (with the exception of port 6000 which is not allowed by Target). Incoming messages should be allowed from IP addresses 161.225.129.10 (for Test and Production).	Send the certificate that you exported from VersaLex as an email attachment to Cyclone.Admin@target.com.	Target will send you a test and a production certificate as attachments to email messages. You can easily register these certificates in VersaLex by copying the email attachments into the certs\ directory (under the VersaLex home directory) or by using Certificate Manager's *Import* command. Refer back to the 'Mailbox Configuration' section for instructions on setting the host to use the certificate.	HTTP

UCCnet Mailbox / HTTP Configuration

In the **HTTP** tab:

Command	Parameter	Default Value	Header	Default Value
PUT			AS2-From	
			AS2-To	0614141800001
			Subject	EDI Message
			Content-Type	X12

- Enter your AS2-Name in the **AS2-From** field. This is a name that you and UCCnet agree will uniquely identify your organization in this trading relationship, e.g., CLEOAS2.   *This typically is your Global Location Number (GLN).*

  Note: AS2 names are case and space sensitive.   The AS2 names that you configure in VersaLex must match exactly with the AS2 names that were established for your trading relationship.

- UCCnet's GLN has already been preconfigured for you in the **AS2-To** field.

UCCnet Host-Specific Configuration Information

Firewall Settings	Certificate Exchange to Trading Partner	Provisioning of Trading Partner's Certificate	HTTP or HTTP/s Listener Port Enabled
Incoming and outgoing messages should be allowed to and from IP addresses 164.109.50.3 and 164.109.50.7 for the UCCnet Production environment. Port 80 should be opened for outgoing messages to the UCCnet transport server. The port that you configured for your Local AS2 Listener should be opened to allow incoming messages. Cleo recommends that you use port 5080, but any port between 1024 – 65535 is acceptable. **Note: the above addresses change frequently. Please contact the UCCnet Customer Support Center before using these addresses.**	Zip your self-signed or CA certificate and attach it to an email message and send it to UCCnet.	UCCnet will send you a certificate as an attachment to an email message. You can easily register this certificate in VersaLex by copying the email attachment into the certs\ directory (under the VersaLex home directory) or by using Certificate Manager's *Import* command. Refer back to the 'Mailbox Configuration' section for instructions on setting the host to use the certificate.	HTTP

Wal-Mart Mailbox / HTTP Configuration

In the **HTTP** tab:

| AS2 | Certificates | HTTP | Notes |

Command	Parameter	Default Value	Header	Default Value
PUT			AS2-From	
			AS2-To	08925485US00
			Subject	08925485US00 - U.S./Puerto Rico
			Content-Type	08925485CA00 - Canada
				08925485MX00 - Mexico
				147891737000004 - Brazil
				147799011000002 - Argentina
				146907777000001 - China
				144035304000001 - Germany
				145015715444440 - Great Britain (UK)

- Enter your AS2-Name in the **AS2-From** field.   This is a name that you have submitted to Wal-Mart that will uniquely identify your organization in this trading relationship, e.g., CLEOAS2.

  Note: AS2 names are case and space sensitive.   The AS2 name that you provide to Wal-Mart must match exactly with the AS2 name that you have created.

- Select the Wal-Mart AS2-Name in **AS2-To** field based on the country where you're trading.   A pull-down list like the one shown above is provided for easy selection.   By default, the *U.S./Puerto Rico* AS2-Name has already been selected.

Wal-Mart Host-Specific Configuration Information

Firewall Settings	Certificate Exchange to Trading Partner	Provisioning of Trading Partner's Certificate	HTTP or HTTP/s Listener Port Enabled
For communication to Wal-Mart, open 161.165.202.30 to port 5080. For communication from Wal-Mart, open 161.165.202.24, 161.165.202.25, 161.165.202.26, and 161.165.202.27 for the port that you configured for your Local AS2 Listener. Cleo recommends that you use port 5080, but any port between 1024 – 65535 is acceptable.	Wal-Mart will provide you with a web page link via email. This page may require a password, which will also be provided. Use the "Upload" option on this page to send the certificate that you exported.	Wal-Mart will provide you with a web page link via email. This page may require a password, which will also be provided. Use the "Download" option on this page to get Wal-Mart's certificate. Refer back to the 'Mailbox Configuration' section for instructions on setting the host to use the certificate.	HTTP

Winn-Dixie Mailbox / HTTP Configuration

In the **HTTP** tab:

Command	Parameter	Default Value	Header	Default Value
PUT			AS2-From	
			AS2-To	089259890000
			Subject	EDI Message
			Content-Type	X12

- Enter your AS2-Name in the **AS2-From** field. This is a name that you and Winn-Dixie have agreed will uniquely identify your organization in this trading relationship, e.g., CLEOAS2.   The Winn-Dixie AS2-Name for the Production Server is "089259890000" and for the Test Server is "089259890000T".   In both of the pre-configured hosts[1], this AS2-Name has already been configured for you in the **AS2-To** field.

  Note: AS2 names are case and space sensitive.   The AS2 name provided to Winn-Dixie must match exactly with the AS2 name that you have created.

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Foot Note:

[1] There are two Winn-Dixie AS2 pre-configured hosts in VersaLex – one for production and another for test. The differences include 1) the server path (which is on the hidden HTTP tab) and 2) the AS2-To name.

	Production Server	**Test Server**
Server Path:	/exchange/089259890000	/exchange/089259890000T
AS2-To Name:	089259890000	089259890000T

Winn-Dixie Host-Specific Configuration Information

Firewall Settings	Certificate Exchange to Trading Partner	Provisioning of Trading Partner's Certificate	HTTP or HTTP/s Listener Port Enabled
For communication to the Winn-Dixie production server, open port 4080 outbound For communication from Winn-Dixie, open the port that you configured for your Local AS2 Listener. Cleo recommends that you use port 5080, but any port between 1024 – 65535 is acceptable.	Send the certificate that you exported from VersaLex as an email attachment	For the <u>Winn-Dixie AS2 Production Host</u>, Winn-Dixie will send you a certificate as an attachment to an email message. You can easily register this certificate in VersaLex by copying the email attachment into the certs\ directory (under the VersaLex home directory) or by using Certificate Manager's *Import* command. Refer back to the 'Mailbox Configuration' section for instructions on setting the host to use the certificate. For the <u>Winn-Dixie AS2 Test host</u> the certificate winndixie_tst_07_09-03.cer has already been configured for you and installed in your certs\ directory.	HTTP