

victor EntraPass Integration Guide

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Introduction

	EntraPass Integration Overview	
	Features	. 6
Ins	stallation	
	Minimum Requirements Hardware Software	. 7
	Installation EntraPass Configuration File	
Οp	peration	
	Administration Functions	. 9 . 9
	victor Integration Roles Associations Reports Events Predefined EntraPass Events EntraPass Actions Maps. EntraPass Objects Swipe and Show.	13 13 13 14 15 17
	General Operation. Manual Actions. Context (right click) Menu options.	24
Tr	oubleshooting	
	Problem: EntraPass Server is not communicating with victor	27
Αp	opendix A	
	KT 400 Controller configuration with DSC PowerSeries	1



Appendix B

Configuring EntraPass for remote victor Client operation	 1
Configuring Ports with an SSL Certificate	 2

EntraPass Integration Overview

The EntraPass server integration provides advanced, seamless integration between victor and EntraPass servers allowing users to monitor and synchronize their devices from within the victor interface.

Product Components

- EntraPass Client: Used to specify connection details to EntraPass server and perform synchronization actions.
- EntraPass Objects: Physical or logical EntraPass entities within the victor environment.
- EntraPass Server Component: Facilitates and maintains communication with the EntraPass unit and auto-creates Sites, Controllers, Doors, Inputs and Relay objects based on EntraPass unit properties.

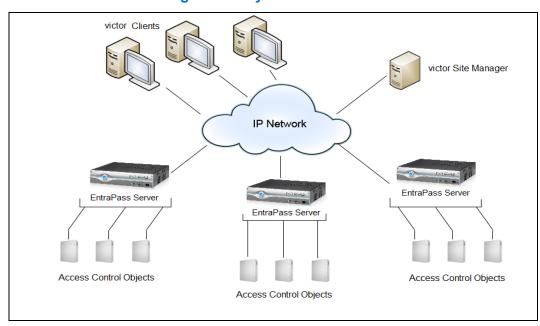


Figure 2-1 System Overview

Features

The objective of the EntraPass integration is to provide a standard, single interface between EntraPass and American Dynamic's victor Video Management product.

Supported features include:

- Viewing status and information of multiple configured EntraPass servers.
- · Adding new EntraPass servers.
- · Manual and Automatic synchronization of servers.
- All access control objects and access control objects supported by EntraPass receivers.
- Integration with victor Roles, Object Association, Journal, and victor Event Management.
- EntraPass object integration with victor Maps and the Health Dashboard.
- · Smart Service Binding support for https.
- Synchronization of **Personnel** and personnel images.
- · Adding Predefined EntraPass events and Actions.
- The Swipe and Show feature.

Installation

Minimum Requirements

Hardware

The EntraPass integration has the same hardware requirements as victor Application Server. Therefore, if the machine can successfully run victor then it will satisfy EntraPass integration requirements.

EntraPass integration requires approximately 50MB of available Hard Disk space.

Software

- · EntraPass Server
- · EntraPass/victor Integration
- · victor Application Server
- victor Unified Client



Installation

The EntraPass installer must be installed on both victor Server and all victor Client machines.

Note

Refer to Appendix B for information on configuring EntraPass servers for use with victor Unified Client over a secure (https) connection.

Procedure 3-1 Adding EntraPass Integration to victor

Step **Action** 1 Close any currently running programs. 2 Open a web browser and navigate to http://www.americandynamics.net 3 Download the appropriate version of the EntraPass Integration software driver for your version of victor. Launch the EntraPass Integration Software Driver. The Welcome to EntraPass Integration Setup window displays. 5 Select **Next**. The End User License Agreement (EULA) window displays. 6 Read the **EULA**. 7 Select the I accept the terms in the license agreement button, then select Next. 8 Select Install. The program begins to install, this may take several minutes. Once complete, the InstallShield Wizard Complete window displays. 9 Select Finish. After installation, a new group called EntraPass is available on the Setup tab. Note The install process stops all victor Server services, these services must be restarted on victor Server machines once the install is complete.

EntraPass Configuration File

The Entrapass Configuration file is located at Tyco/ Crossfire/ ServerComponents. This section describes the values that you can change in the Entrapass Configuration file:

- End -

Note

If you make any changes in the configuration file, you must restart the driver. Ensure that you change the values only after consulting with the product support team.

HeartBeatTimeOut: Use this variable to set a server state to Offline, if driver does not receive any message for this duration from the last received message packet. Default value is 180000 (in milliseconds).

ReconnectInterval: Use this variable to define the duration of server reconnection retry after it goes to Offline. Default value is 60000 (in milliseconds).

AutoSynchronization: Use this variable to define whether user wants to do auto sync whenever a server comes Online from Offline state. AutoSynchronization values are 'TRUE' and 'FALSE'. Default value is FALSE.

NumberOfCards2Read: Use this variable to define the number of personnel that must be read in each request during personnel Sync. Default value is 100.

NumberOflmages2Read: Use this variable to define the number of simultaneous Personnel Images that must be requested in a batch during image sync. Default value is 5.

BatchSize: Use this variable to define the batch size of devices for which the status message response is to be processed. Default value is 25.

Timeout4ImageBatchSyncRequest: Use this variable to define the duration the batch image request must wait for the batch response to complete. Default value is 180 (in seconds).

TimeoutInterval4ImageBatchResponse: Use this variable to define the time interval after which driver checks whether image batch response is complete or not. After it is complete, next batch of images could be started. Default value is 2 (in seconds).

ComponentStatusBatchSize: Use this variable to define batch size of EntraPass devices that must be sent in request URL for device status updates. Default value is 20.

StatusQueueCount: Use this variable to define number of queues that run in parallel per Entrapass server for processing status updates of Entrapass server objects. Default value is 2.



Administration Functions

- Save and Close: saves the current object and closes the editor.
- Save: saves changes and keeps the editor open, allowing further changes to be made.
- Save and New: saves the current object and opens a new editor to create a new object with default values populated.
- · Close: cancels changes and closes the editor without saving.

Hardware Information

Detailed hardware information is available for all configured EntraPass units. To access this information:

Procedure 4-1 Accessing Hardware Information

Step Action

- 1 Select EntraPass servers from the Setup tab, then select Show All.
- 2 Right-click the server you wish to view information for and select **Edit**.

This information is also available by right-clicking on a receiver in the **Device List** and selecting **Edit**.

Adding EntraPass Servers

Procedure 4-2 Adding New EntraPass servers

Step	Action
1	Select EntraPass server from the Setup tab.
2	Select New from the drop down list. New Server Editor displays.
3	Enter a name for the server in the Name field.



4 Enter a description for the server in the **Description** field.

Note

The **Enabled** checkbox is selected by default. To deactivate the server, deselect the checkbox.

- 5 Expand the **Details** section.
- 6 Enter the IP Address of the server in the IP Address field.
- 7 Enter the **Port Number** (Minimum 1 character, Maximum 5).
- 8 Enter the **UserID**, which is the ID of the operator in the EntraPass application.
- 9 Enter the **Password**, which is the password of the operator in the EntraPass application.
- 10 Enter Event Poll Time.
- 11 Enter **Service Protocol** information.
- 12 Enter Status Poll Time.
- You can review server status in the Server status section:

Table 4-1 Server Status

Property	Value
	Online
Communication Status	Offline
Ciatao	Unknown
	Unknown
Synchronization	Synchronizing
Status	Synchronized
	SyncFailed

14 Select Save.

- End -

Editing EntraPass Servers

Procedure 4-3 Edit EntraPass Servers

You can configure server connection details from within victor, using the EntraPass Server editor.

Name: WIN-8EF26TN683I Description: WIN-8BF26TN683I **▼** Enabled Details WIN-8EF26TN683I Macrine Name or IP Address: 8801 Port Number: Service Protocol: http yatish ******* Password: 10 Event Poll Time(In Seconds): Status Poll Time(In Seconds): Status Communication Staus: Synchronization Staus: Synchronized

Figure 4-1 EntraPass Server editor

Step Action

- 1 Select EntraPass server from the Setup tab.
- 2 Select Show All from the drop down list.
- 3 Right click the server to be edited and select Edit.
- 4 Select the General expander to edit:
 - Name (Mandatory must be unique)
 - Description (Optional)
 - Enabled status (Default is enabled)
- 5 Select the **Details** expander to edit:
 - Machine Name or IP Address (Mandatory) This is the network address of the Server, by default it is 127.0.0.1. The following validation rules will apply to the Panel's Machine Name or IP address field:
 - •The Machine Name or IP Address must be unique for each panel within the victor environment otherwise the message returns "Machine Name or IP Address not unique".
 - Port Number (Mandatory) The Port number of the server Min=1 character, Max=5 characters
 - Service Protocol (Mandatory) The protocol used to communicate with the server

Note

If 'https' is selected, a dialog displays prompting the user to complete the EntraPass smart link configuration to https. For this protocol to function, a valid SSL certificate must be added to the Kantech server.



- User ID (Mandatory) ID of the operator in the EntraPass application
- Password (Mandatory) Password of the operator in the EntraPass application
- Event Poll Time (Mandatory) Poll time to request or poll for EntraPass events
- Status Poll Time (Mandatory) Poll time to request or poll for EntraPass device status
- 6 Select Save.

- End -

victor Integration

Roles

EntraPass objects privileges are associated with victor roles, therefore all context menu actions associated with EntraPass objects are added to existing victor roles which can be edited accordingly. For more information on **Roles**, refer to the *victor Configuration and User Guide*.

Associations

EntraPass servers support victor's **Object Association**. **Object Association** refers to linking unrelated victor objects with the intent of enabling incident building capability. Device associations are created within the victor editor of the source object (typically right click > edit). Up to 5 device associations can be made per object.

To create Object Associations in victor:

Procedure 4-4 Create object associations

Step	Action	
1	Navigate to the required source device on the victor Device Liet	
-	Navigate to the required source device on the victor Device List .	
2	Right click the device amd select Edit . The device editor opens.	
3	Expand the Associations section.	
4	Select 🖭 . Object selector displays.	
5	Use the object selector to locate the object to be associated.	
6	Select OK .	
7	Repeat as required for up to 5 objects.	
	- End -	

Reports

EntraPass objects are included in the report selection tool and support the victor **Find in Journal** feature. For more information on **Reports** and the **Find in Journal** feature, refer to the *victor Configuration and User Guide*.

Events

Events allow you to detect, monitor and record specific activities on the system.

EntraPass alarm activity can be used to trigger events within victor, these event types are fully integrated with victors Event Management system and respect all role /user permissions.

Event configuration in victor is a 2 step process:

- 1 Event/Action Pairing
- 2 Event Setup



Procedure 4-5 Configuring events

Step	Action	
1	Select Event Setup from the Build tab.	
2	Select Event/Action pairing. The editor opens.	
3	Double click the Events node. Object selector displays.	
4	Use the Object selector to select events as required.	
5	Select in the event node to assign actions. Repeat as required.	
6	Select Save.	
7	Select Event Setup from the Build tab.	
8	Select Event Setup from the drop down list. The event configuration window displays.	
9	Click the Devices node and use the object selector to select the required device (or drag and drop from the device list)	
10	Select in the node of the device added and use the checkboxes in the drop down list to assign alerts as required.	
11	Select Add Alerts. Selected alerts are displayed under the Alerts node.	
12	Select in the Alerts node and use the object selector to assign actions.	
13	Select Save.	
-	- End -	

For further information on **Events**, refer to the *victor Configuration and User Guide*.

Predefined EntraPass Events

The following predefined EntraPass events are available for doors, site controllers, and severs:

- EntraPass Server Online
- EntraPass Server Offline
- EntraPass Site Online
- EntraPass Site Offline
- EntraPass Controller Online
- EntraPass Controller Offline
- Door Held Alarm
- Door Forced Alarm

Procedure 4-6 Viewing Predefined events

1 Select **Events** from the **Build** tab.

- 2 Select **Show All**. Editor opens.
- 3 All configured events including predefined EntraPass events are displayed.

EntraPass Actions

EntraPass Actions are available for the following objects:

- Servers
- Doors
- Relays

Procedure 4-7 Configuring EntraPass Action

Step	Action	
1	Select EntraPass Action from the Setup tab.	
2	Select New . The editor opens.	
3	Enter Name and Description for the EntraPass Action.	
4	In the EntraPass Device field, select to add device.Object selector displays.	
5	Select desired object and click OK .	
6	Repeat as required.	
7	Select desired action from the EntraPass Device Action drop down list.	
8	Select Save and Close.	

Procedure 4-8 Editing EntraPass Action

Step	Action	
1	Select EntraPass Action from the Setup tab.	
2	Select Show All. The editor opens.	
3	Right-click the EntraPass action that you want to edit and select Edit .	
4	Select the General expander to edit.	
	• Name	
	Description	
5	Select the Action expander to edit:	



- EntraPass Device
- EntraPass Device Action
- 6 Select Save and Close.

- End -

Maps

EntraPass objects are supported on victor **Maps** and the **Find on Map** feature. Objects respect all standard victor hardware behaviors such as annunciation, alarms, right click actions and drag and drop.

To configure **Maps** in victor:

Procedure 4-9 Configuring maps

Action	
Select Maps from the Build tab.	
Select New. The editor displays.	
Enter a Name and Description for the map.	
Select Import a map.	
Browse to and select the required image.	
Select Open .	
Select Import . File imports and displays in map editor.	
Select Save.	
The map drawing is now imported and you can now configure victor objects on it.	
From the map editor, select . Icon selector displays.	
Note	
The Map editor can be accessed by selecting Maps from the Build tab, then selecting Show All . Right click on the map to be edited and select Edit	
Select the icon which matches the object type to be added.	
Select OK .	
Drag and drop to the required position on the map. Use resizing/positioning tools as required.	
Right click the icon.	
Select Drop on map . The Icon editor displays.	
Select Select Object. The object selector displays.	
Select the victor object to be linked to the icon and select OK .	
Use the Icon editor to assign or change other attributes as required.	
Select OK .	



19 Select Save.

Note

Refer to the victor configuration manual for a detailed guide on adding and configuring maps.

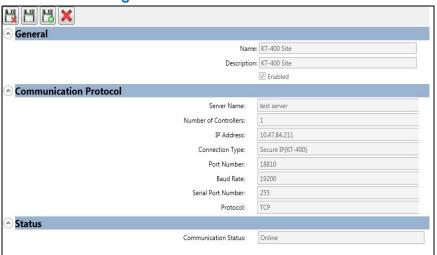
- End -

EntraPass Objects

Procedure 4-10 View EntraPass Sites

Within the victor environment, EntraPass sites are view only.

Figure 4-2 EntraPass sites editor



Step Action

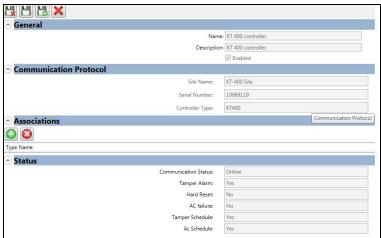
- 1 Select EntraPass Site from the Setup tab.
- 2 Select Show All.
- 3 All configured EntraPass sites are displayed in an Object List. Use the expanders to view details within each section.

- End -

Procedure 4-11 View EntraPass Controllers

Within the victor environment, EntraPass controllers are 'view only'.

Figure 4-3 EntraPass controller editor



Step Action

- 1 Select EntraPass Controller from the Setup tab.
- 2 Select Show All.
- 3 All configured EntraPass controllers are displayed in an Object List. Use the expanders to view details within each section.

Table 4-2 Controller Status

Property	Value
CommunicationStatus	Online
CommunicationStatus	Offline
Hardreset	Yes
naidleset	No
Tamparalarm	Yes
Tamperalarm	No
AC Failure	Yes
	No
Tampor Schodulo	Yes
Tamper Schedule	No
AC Schedule	Yes
AC Scriedule	No

- End -

Procedure 4-12 View EntraPass Doors

Within the victor environment, EntraPass Doors are view only.



General Name: Controller #1 Door #1 Description: Controller #1 Door #1 ✓ Enabled ^ Details KT 400 controller Door Access: Entry Elevator Door: No Association Type Name → Status Open State: Close Lock State: Lock No

Figure 4-4 EntraPass door editor

Step Action

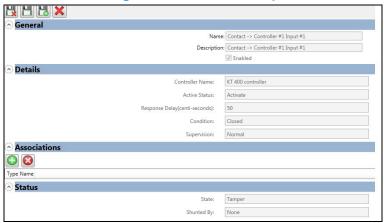
- 1 Select EntraPass Doors from the Setup tab.
- 2 Select Show All.
- 3 All configured **EntraPass Doors** are displayed in an **Object List**. Use the expanders to view details within each section.

- End -

Procedure 4-13 View EntraPass Inputs

Within the victor environment, EntraPass Inputs are view only.

Figure 4-5 EntraPass Input editor



Step Action

- 1 Select EntraPass Inputs from the Setup tab.
- 2 Select Show All.
- 3 All configured EntraPass inputs are displayed in an Object List. Use the expanders to view details within each section.

- End -

Note

The following **Shunted by** statuses requires the KT-400 controller to be connected with the supported intrusion panels:

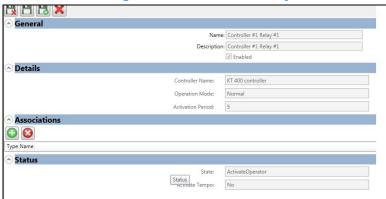
- 1. Door Disarmed
- 2. Shunted on Exit
- 3. Shunted on Entry



Procedure 4-14 View EntraPass Relays

Within the victor environment, EntraPass Relays are view only.

Figure 4-6 EntraPass relay editor



Step Action

- 1 Select EntraPass Relays from the Setup tab.
- 2 Select Show All.
- 3 All configured EntraPass relays are displayed in an Object List. Use the expanders to view details within each section.

- End -

Procedure 4-15 View Personnel

Within the victor environment, synchronized personnel are displayed in the **Personnel** Tab.

Step	Action
4	Select Personnel from the Setup Tab.
5	Select Show All.
6	All synchronized personnel are displayed.
	- End -

Swipe and Show

When a user swipes the card on the reader, the corresponding swipes are displayed in the **Swipe** and **Show** tab.

Note

For the **Swipe and Show** to function, ensure the following:

- 1. **Personnel** and personnel images are synchronized.
- 2. Swipe and Show tab is open.

Procedure 4-16 Viewing Swipe and Show

Step	Action
1	Select Swipe and Show from the Setup tab.
2	Choose one of the following options:
	Monitor all Doors for Admits
	Monitor all Doors for Rejects
	Monitor all Doors for Admits/Rejects.
3	The details of the personnel with the image is displayed in the Swipe and Show tab.
	- End -



General Operation

Once integrated the follow functions are available in victor Client:

Manual Actions

Doors

You can Lock, Unlock, Temporarily Unlock Doors, Arm, Disarm, Enable Readers, One Time Access and Disable Readers from the Device List, Maps, dynamic views and activity viewer.

Note

To perform **Arm** or **Disarm** actions, **Doors** need to be associated with an external intrusion panel connected with a KT-400 controller.

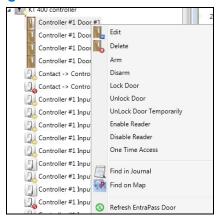


Figure 4-7 Manual actions: Doors

Inputs

You can perform the following manual actions on an **Input** from **Device List**, **Maps**, dynamic views and activity viewer.

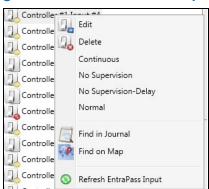
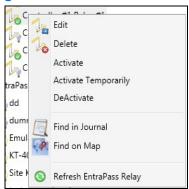


Figure 4-8 Manual actions: Inputs

Relays

You can **Activate**, **Deactivate** and **Temporarily Activate Relays** from the **Device List**, **Maps**, dynamic views and activity viewer.

Figure 4-9 Manual actions: Relays



Servers

You can manually synchronize Server objects, **Personnel**, and personnel Images from the **Device List**, **Maps**, dynamic views and activity viewer.

Figure 4-10 Manual Actions: Servers



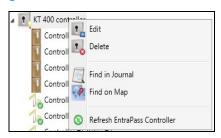
Context (right click) Menu options

This section details context menu options available on EntraPass objects from the **Device List**, **Maps**, dynamic views and activity viewer.

Controllers

Right clicking controllers offers the following options:

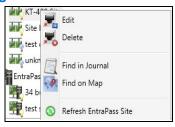
Figure 4-11 Context menu: Controllers



Sites

Right clicking sites offers the following options:

Figure 4-12 Context menu: Sites



Troubleshooting

Problem: EntraPass Server is not communicating with victor

Solution:

- 1 Validate firewall settings. Add required ports in Inbound and Outbound port list of firewall.
- **2** Ensure IP Address or System Name are correct.
- 3 Ensure that the current network configurations are able to validate the Machine Name provided in **Machine Name** or **IP Address** field of the EntraPass Server editor.
- 4 Ensure that the required services are running on EntraPass server.



KT 400 Controller configuration with DSC PowerSeries

Requirements:

- · EntraPass Server is installed.
- A DSC PowerSeries alarm panel and an IT-100 module.
- · Door contact is connected on KT-400.
- RS-232 cable and 740-1047 adapter (p/n CBLK-IT100).
- Up-to-date KT-400 firmware.

Hardware Setup

To connect the IT-100 to the KT-400 and the DSC PowerSeries intrusion panel, follow the steps below:

Step Action

- **1** Connect the IT-100 to the alarm panel:
 - a Power down the alarm panel
 - **b** Connect the IT-100 module to the Powerseries intrusion panel using a 4-wire KEYBUS connection. Connect the RED, BLK, YEL and GRN terminals to the KEYBUS terminals of the Powerseries panel.
 - c Power up the alarm panel.
- 2 To connect the IT-100 to the KT-400, refer to last page of the DSC IT-100 manual.

Note

The IT-100 can be connected at a maximum distance of 98.4ft (30m) at 9600 baud rate from the KT-400. Refer to the DSC IT-100 manual for more information.

- End -



EntraPass Setup

For the EntraPass setup see **Setting up DSC integration through a KT-400 Controller** manual or contact the Kantech support team.

Configuring EntraPass for remote victor Client operation

This section describes the steps required to configure EntraPass Server for use with victor unified Client over a secure (https) connection.

Prerequisites

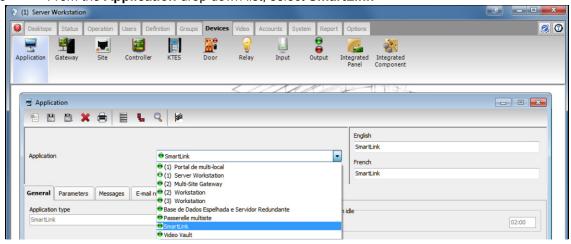
- · EntraPass Server
- · victor Unified Client
- · Kantech SmartService and SmartLink running
- · Port 8801 opened

Note

SmartLink and WebStation must have been previously registered in EntraPass for the SmartLink Webstation tab to be available. Refer to the EntraPass Reference manual for more information.

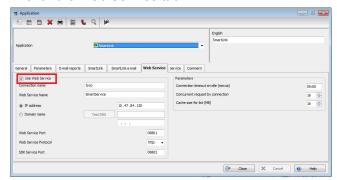
Step Action

- 1 Login to the EntraPass Server Workstation.
- 2 Select Devices/Application.
- 3 From the Application drop down list, select SmartLink

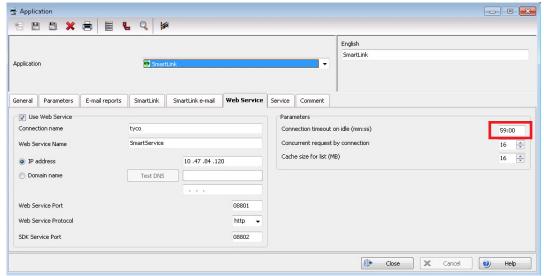




4 Click the Web Service tab.



- 5 Ensure that the **Use Web Service** field is checked.
- **6** Ensure that the Connection Time Out on Idle is set to the maximum, which is 59 minutes.



- End -

Configuring Ports with an SSL Certificate

To configure a port, the tool you use depends on the operating system that is running on your machine.

Depending on the Operating system of your machine, different tools can be used. For Windows Server 2003 or Windows XP - use the HttpCfg.exe tool that is installed with Windows Server 2003.

For more information refer to Microsoft Windows Support Tools documentation.

Prerequisites:

- Port 8801 is open.
- · A valid SSL certificate on IIS.

• Administrator privileges on the server.

Note

Modifying certificates stored on the computer requires administrative privileges.



Getting a Certificate's Thumbprint

Step Action

- 1 View certificates in the MMC snap-in:
 - a Open a Command prompt window
 - **b** Type **mmc** and press **Enter**. You must have Administrator privileges to view certificates.
 - c On the File menu, click Add/Remove Snap In. Click Add.
 - d In the Add Standalone Snap-in dialog box, select Certificates. Click Add.
 - e In the Certificates snap-in dialog box, select **Computer account** and click **Next**. Optionally, you can select **My User account** or **Service account**. If you are not an administrator of the computer, you can manage certificates only for your user account.
 - f In the Select Computer dialog box, click Finish.
 - g In the Add Standalone Snap-in dialog box, click Close.
 - h On the Add/Remove Snap-in dialog box, click OK.
 - i In the Console Root window, click Certificates (Local Computer) to view the certificate stores for the computer.
 - j (Optional.) To view certificates for your account, repeat steps 3 to 6. In step 7, instead of selecting **Computer account**, click **My User account** and repeat steps h to j.
 - k (Optional.) On the File menu, click Save or Save As. Save the console file for later reuse.
- **2** Retrieving a certificate's thumbprint:
 - a Open the Microsoft Management Console (MMC) snap-in for certificates.
 - b In the Console Root window's left pane, click Certificates (Local Computer).
 - c Click the Personal folder to expand it.
 - d Click the **Certificates** folder to expand it.
 - **e** In the list of certificates, note the **Intended Purposes** heading. Find a certificate that lists **Client Authentication** as an intended purpose. Double click the certificate.
 - f In the Certificate dialog box, click the Details tab.
 - **g** Scroll through the list of fields and click **Thumbprint**.
 - **h** Copy the thumbprint of the certificate into a text editor, such as Notepad.
 - i Remove all spaces between the hexadecimal characters. (One way to accomplish this is to use the text editor's find-and-replace feature and replace each space with a null character.)
 - j In Windows Server 2003 or Windows XP, use the HttpCfg.exe tool in "set" mode on the Secure Sockets Layer (SSL) store to bind the certificate to a port number. The tool uses the thumbprint to identify the certificate, as shown in the following example:

httpcfa set ssl -i 0.0.0.0:8801 -h 000000000003ed9cd0c315bbb6dc1c08da5e6

k In Windows Vista, use the Netsh.exe tool, as shown in the following example:

netsh http add sslcert ipport=0.0.0.0:8801 certhash=0000000000003ed9cd0c315bbb6dc1c08da5e6 appid={00112233-4455-6677-8899-AABBCCDDEEFF}

- End -

Binding an SSL certificate to a port number and support client certificates

• In Windows Server 2003, Server 2008 or Windows XP, to support clients that authenticate with X.509 certificates at the transport layer, follow the preceding procedure but pass an additional command-line parameter to HttpCfg.exe, as shown in the following example:

httpcfg set ssl -i 0.0.0.0:8801 -h 000000000003ed9cd0c315bbb6dc1c08da5e6 -f 2

 In Windows 7, to support clients that authenticate with X.509 certificates at the transport layer, follow the preceding procedure, but with an additional parameter, as shown in the following example:

netsh http add sslcert ipport=0.0.0.0:8801 certhash=00000000000003ed9cd0c315bbb6dc1c08da5e6

appid={00112233-4455-6677-8899-AABBCCDDEEFF} clientcertnegotiation=enable

