HTTPS for AXIS

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1 HTTPS for AXIS

Task 1: Configuring Axis Camera for HTTPS

Important: Depending on your Axis camera step 1 may vary. Always consult your Axis device documentation.

1. On your AXIS Camera Web interface, click **Setup** > **System Options** > **Security** > **HTTPS**.

   You will see a message similar to the following. Read it carefully and follow the instructions.

   ```
   HTTPS Settings
   To enable HTTPS, create either a self-signed certificate, or create a request for a
   certificate from a Certificate Authority (CA).
   ```

Although a self-signed certificate is useful for initially testing HTTPS, true security will only be implemented after the installation of a signed certificate issued by a certificate authority. The HTTPS Connection Policy must also be set to enable HTTPS on this server.

2. A self-signed certificate is not a trusted certificated. To create a self-signed certificate on your AXIS camera:

   Step 1: Since Symphony services are run under a separate user account (usually **Local System account**) you need to trust the self-signed certificate under that account.

   a. Download and install PsExec from Microsoft.

   b. Determine what user account Symphony services are running under. See **Log on as** under the Log On tab under **Service Properties**.

   - If service is configured to log on as **Local System account** then at command line run

     `psexec.exe -i -s "C:\program files\internet explorer\iexplore.exe"`

   Or:

   - If service is configured for a user account other than **Local System account** then at command line run

     `runas.exe /u:<username> "C:\program files\internet explorer\iexplore.exe"`

NOTE: On Windows® 64, the path to Internet Explorer may be `“C:\Program Files (x86)\Internet Explorer\iexplore.exe"`

   Step 2: Install the self-signed certificate through Internet Explorer:

   a. In Internet Explorer that you started with the psexec.exe tool, navigate to the camera Web interface by entering `http://<camera ip>` in the address bar.

   b. In the side bar of the camera Web interface, expand **System Options** > **Security** > **HTTPS**.

   c. In the **HTTPS Connection Policy** section, set the **Administrator**, **Operator**, and **Viewer** fields to use HTTPS.

d. Click **Set Policy**.

Depending on the version of your Axis camera, Internet Explorer automatically switches to an HTTPS connection or you must force it by changing HTTP to HTTPS in the address bar.

e. If the certificate is self-signed and depending on your version of Internet Explorer the message; `There is a problem with this website's security certificate` is displayed. Note that each version of Internet Explorer displays messages differently. For example, IE9 displays "Certificate Error" by the address bar.

f. Click **Continue to this website (not recommended)**.

g. Follow the instructions and click **Place all certificates in the following store**.

h. Browse to the **Trusted Root Certification Authorities** folder and click **OK**.

Step 3: Disable peer verification in Symphony Client. For details, see Task 3: Disabling Peer Verification in Symphony Client.

Task 2: Adding the Camera in Symphony Client

2. From the **Server** menu, select **Configuration**. The Configuration dialog box appears with Devices displayed in the right pane.
3. In the right pane, click **New** to open the Network tab.
4. In the **URL** field, enter the IP address of the camera.
5. From the **Manufacturer** list, select **AXIS**.
6. Click **Connect to Camera.**
7. Click **OK**.

Task 3: Disabling Peer Verification in Symphony Client

If you selected self-signed certificate on the AXIS camera setup, then you must disable peer verification in Symphony Client.

1. In Symphony Client, from the **Server** menu, select **Manual Configuration Editor**.
2. Expand **Type: Camera**.
3. For each camera that is HTTPS, find the camera ID in the list.
4. Under the **Key** column, find **dev_options**.
5. In the **Value** field of that row, append `VerifyPeer=0`; (at the end of the field).
6. Click **OK**.
7. Restart AI InfoService to ensure that the setting is loaded.

Task 4: Restart AI Tracker Services

Video should now be available over HTTPS.