

How to Configure HTTPS for AXIS

Task 1: Configure AXIS camera for HTTPS

1. On your AXIS Camera Web interface, click **Setup, System Options, Security**, and then **HTTPS**. You will see a message similar to the following. Read it carefully and follow 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. If you create a self-signed certificate on your AXIS camera, then you must complete the following steps:

Step 1: Since Aimetis 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:
(<http://technet.microsoft.com/en-us/sysinternals/bb795533>).
- b. Determine what user account Aimetis services are running under (see **Log on as** under **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"**
 - 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, to be trusted:

- 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 following fields:
 - **Administrator will use** to **HTTPS**
 - **Operator will use** to **HTTPS**
 - **Viewer will use** to **HTTPS**

and click **Set Policy**.

- d. Depending on the version of your Axis camera, Internet Explorer automatically switches to HTTPS connection or you must force it by changing HTTP to **HTTPS** in the address bar.
- e. If the certificate is self-signed Internet Explorer, depending on your version of Internet Explorer, the following message is displayed: "There is a problem with this website's security certificate".
Important: 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 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 later in this setup process

Task 2: Add the camera in Symphony Client

1. If in the AXIS camera **HTTPS** settings, you had selected to accept only **HTTPS** connection (and not **HTTP & HTTPS**), AND you selected self-signed certificate on the AXIS camera setup, you must disable peer verification:
 - a. In Symphony Client, from the **Server** menu, select **Manual Configuration Editor**.
 - b. Click the **Add a new setting...** field. In the blank field under the **Type, Section, ID, Key, and Value** columns, enter `Server, HTTPS, 5000, and VerifyPeer, and 0`, respectively.
 - c. Restart **AI InfoService**. This ensures that the setting is loaded.
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**. The **Network** tab appears.
4. In the **URL** field, enter an IP address of the camera.
5. From the **Manufacturer** list, select **AXIS**.
6. Click **Connect to Camera** and click **OK**.

Task 3: Self-signed Certificate

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 all your cameras that are 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**.

Task 4: Restart AI Tracker Services

Video should be available now over HTTPS.