HOW TO GUIDE

Setting up AXIS Body Worn Live Self-hosted LTE in Milestone XProtect®

AXIS Body Worn for XProtect
August 2025

Contents

Introduction

This document explains how to setup AXIS Body Worn Live Self-Hosted with AXIS W401 Body Worn Activation Kit as an AXIS Body Worn Live Self-hosted Server device in AXIS Body Worn for XProtect®.

AXIS Body Worn Live Self-hosted Server app runs on AXIS W401 and acts as a WebRTC signalling server and live streaming viewer web application.

Requirements

- Axis body worn system
- Axis body worn system firmware 9.75.1 or above
- AXIS IP Utility version 4.14 or later
- AXIS Optimizer Body Worn Extension 1.0.55.0 or higher
- Milestone XProtect® 2020 R1 Corporate or newer versions, or
- Milestone XProtect® 2020 R1 Professional+ or newer versions, or
- Milestone XProtect® 2020 R1 Expert or newer versions
- (Optional) AXIS Optimizer for Milestone XProtect® 3.6 or higher

Prerequisite

Before setting up AXIS Body Worn Live Self-Hosted LTE in Milestone XProtect®, it is required that the Axis body worn system is already integrated with Milestone XProtect®. (See: How to guide for AXIS Body Worn for XProtect “Integrating Milestone XProtect® with up AXIS body worn system”)

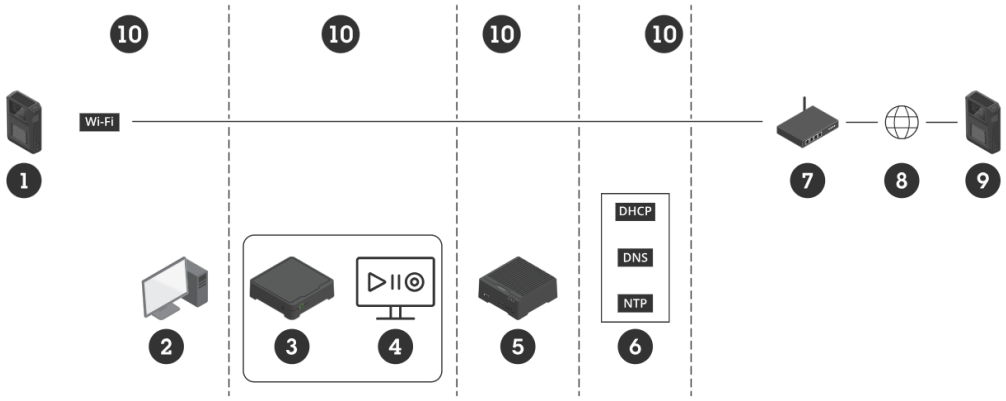
This integration ensures that the devices and video streams are recognized and managed properly within the XProtect environment, which is essential for enabling live streaming functionality via LTE.

Acronyms

BWL	AXIS Body Worn Live
BWM	AXIS Body Worn Manager (GUI of AXIS W800)
BWC	Axis body worn camera
LTE	Long-term evolution
SCU	System Controller Unit (AXIS W800)

Note: Axis Communications takes no responsibility for how this configuration may affect your system. If the modification fails or if you get other unexpected results, you may have to restore the settings to default.

General solution topology



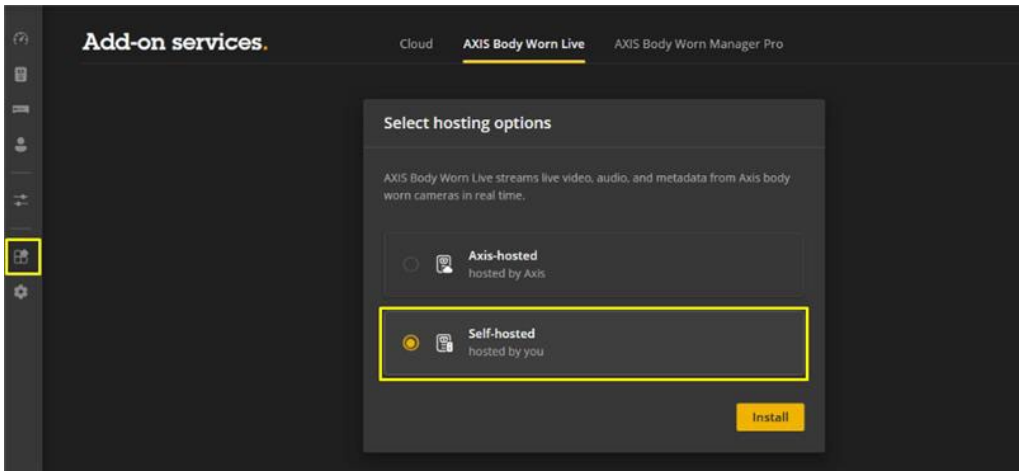
1. Body worn camera connected to Wi-Fi
2. Client for viewing streams
3. System controller
4. Video management software server
5. AXIS Body Worn Live Self-hosted Server device
6. Network infrastructure services
7. Gateway/Firewall
8. Internet (only for internet-connected networks)
9. Body worn camera connected to a mobile network (only for internet-connected networks)
10. Different network segments

Resources

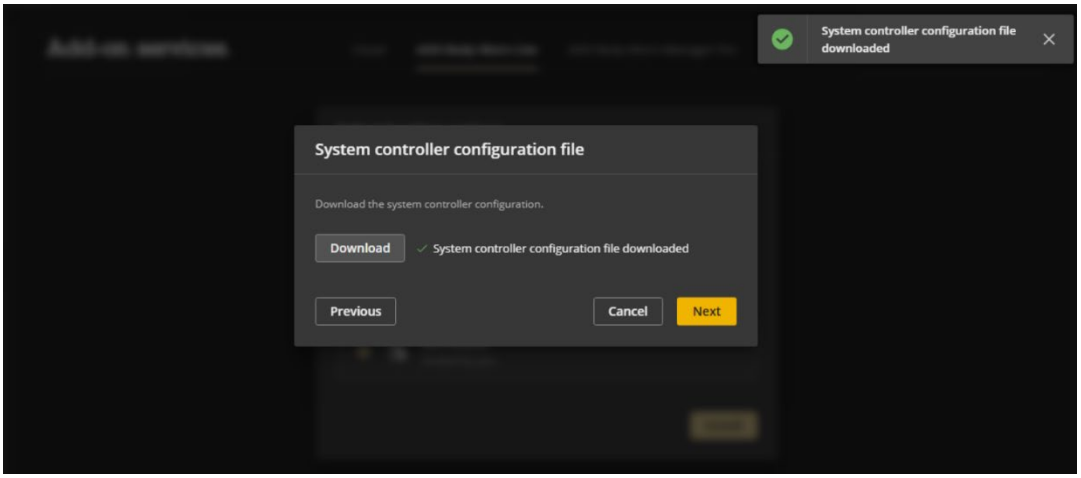
- https://help.axis.com/en-us/axis-body-worn-live-self-hosted
- https://help.axis.com/en-us/axis-optimizer-body-worn-extension#connect-to-bwls

1. Step 1 – Body worn system setup

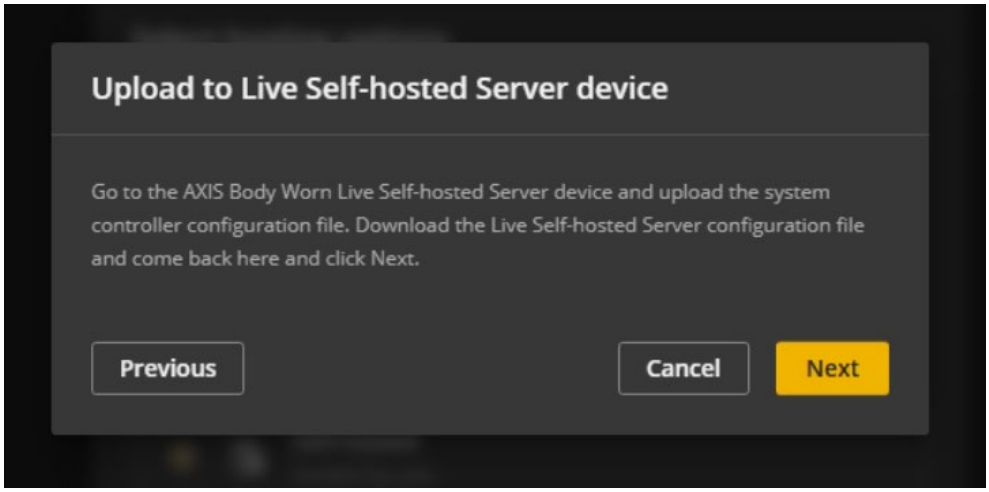
1. Use **AXIS IP Utility** to locate the IPv4 address of your AXIS W800.
2. Use a web browser and enter the IP address of the AXIS W800.
3. In **AXIS Body Worn Manager** (BWM=GUI of W800), go to **Add-on services**.
4. Under **AXIS Body Worn Live**, click **Self-hosted**.



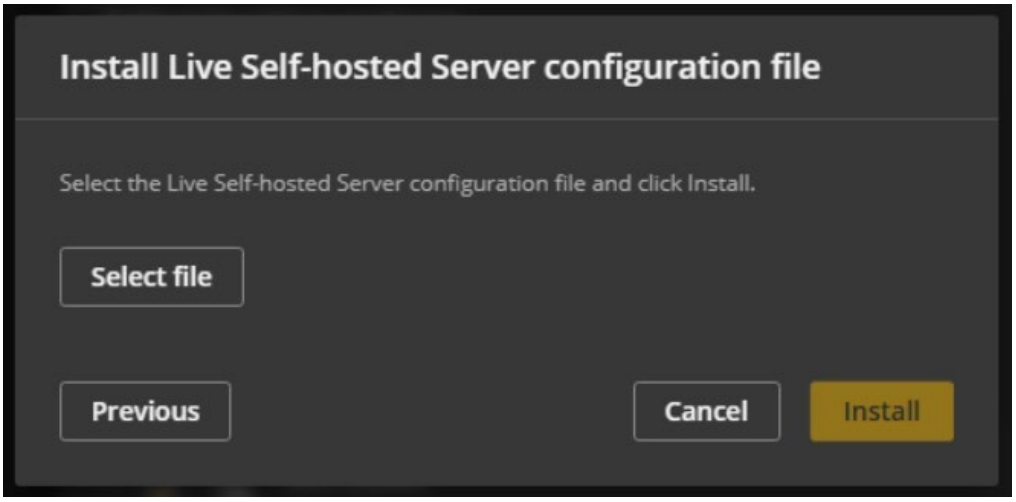
5. Click **Install**.
6. Enter how many days **system controller configuration certificate** should be valid.
7. Download the **system controller configuration file**.
8. Remember where the file is downloaded, as it is later used in *Step - 4 Connect Body Worn Live to Body Worn Manager.*



9. Click **Next**.



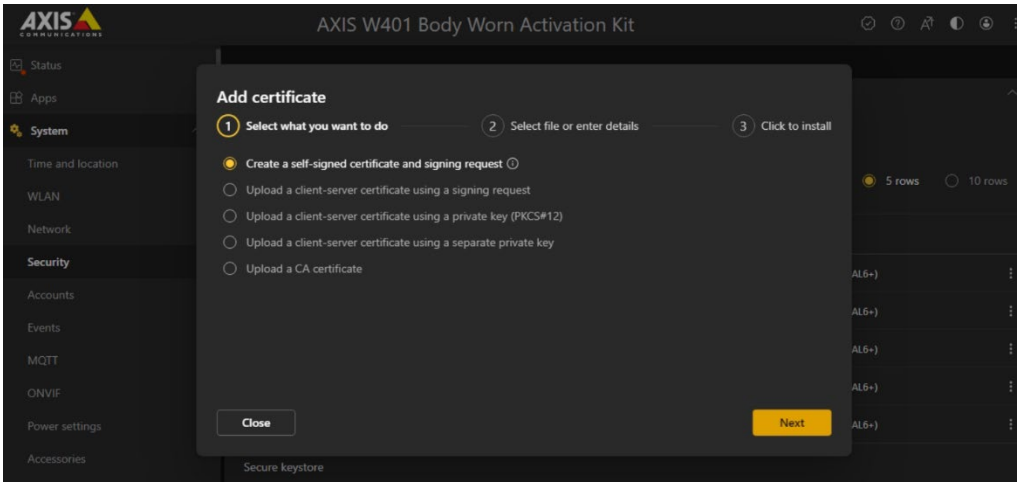
10. Pause the wizard in BWM here, keep the tab open, and proceed with *Step 2 - Prepare the Live Self-hosted Server device*.



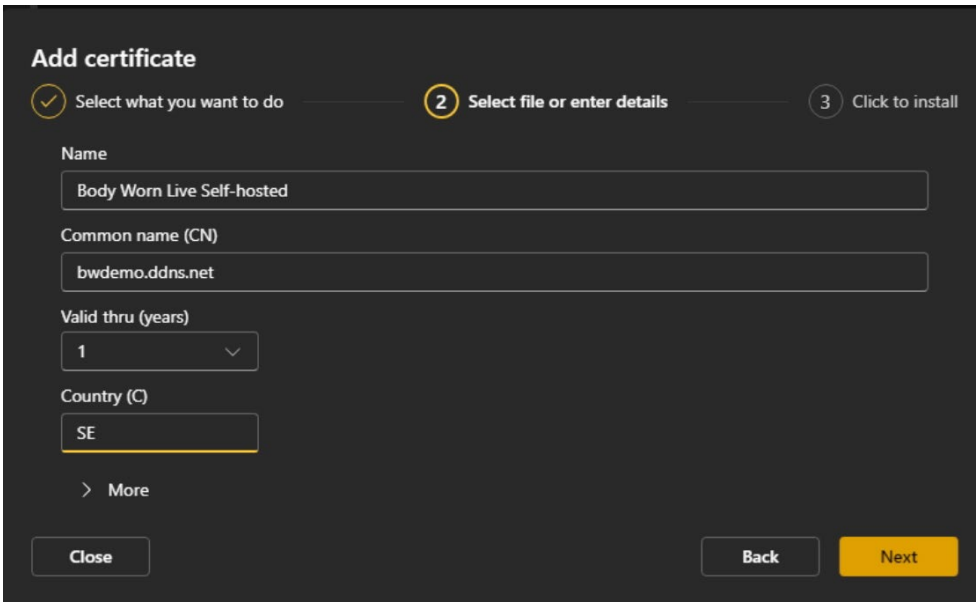
2. Step 2 – Prepare Live Self-hosted Server device

Use AXIS W401 Body Worn Activation Kit as AXIS Body Worn Live Self-hosted Server device. It will run the AXIS Body Worn Live Self-hosted Server app (signaling server)

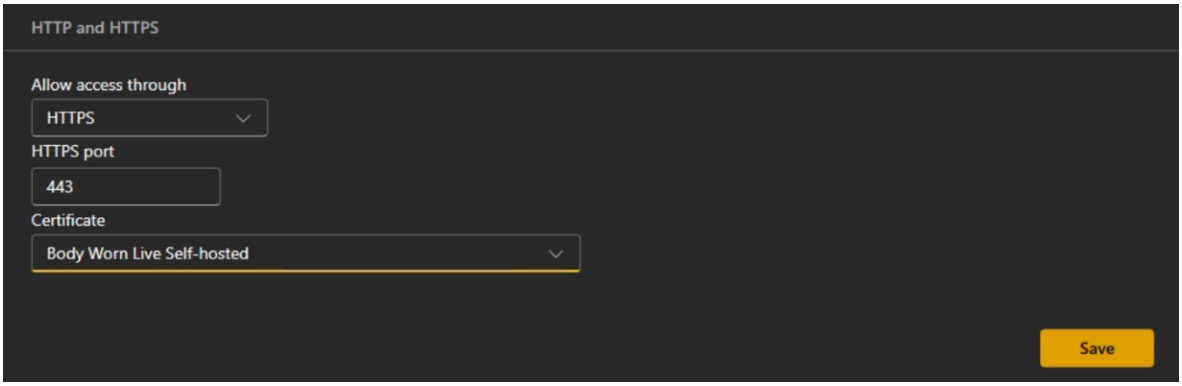
1. Use a new tab in the web browser and enter the IP address of the W401.
2. Create account **root** and set password as in separate document.
3. Go to **System > Security** and click **Add certificate**.
4. Choose **Create a self-signed certificate**.



5. Enter Certificate name, Common name = *bwdemo.ddns.net*, and Country Code = *SE*. **Click Next > Generate**.



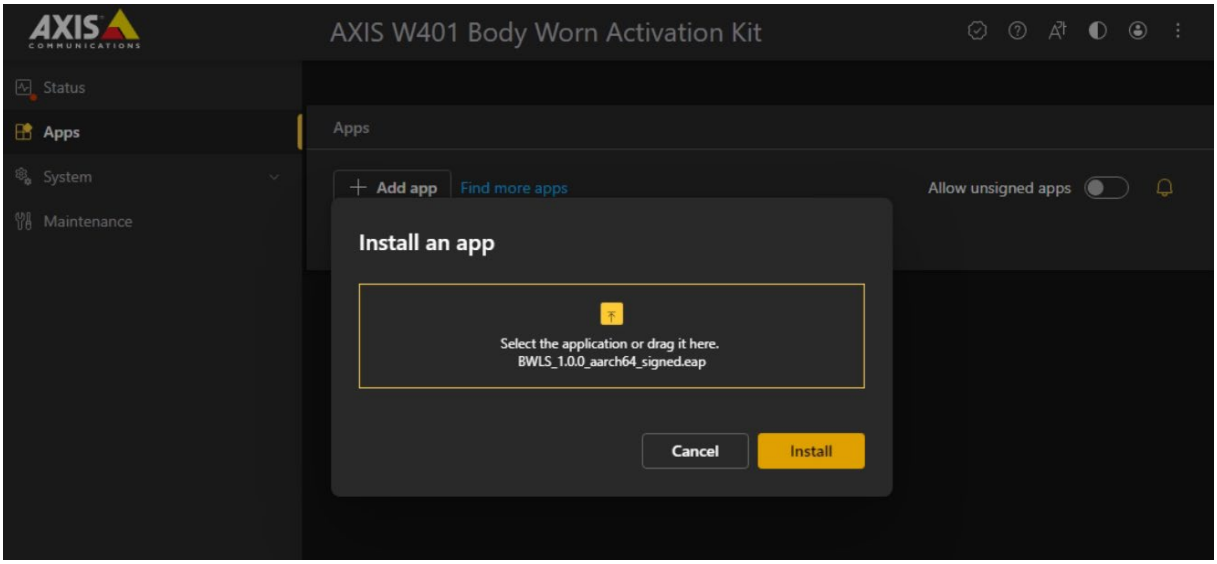
6. Go to **System > Network > HTTP and HTTPS**.
7. Under Allow access through, select **HTTPS**.
8. In the list of certificates, select the certificate you installed and click **Save**.



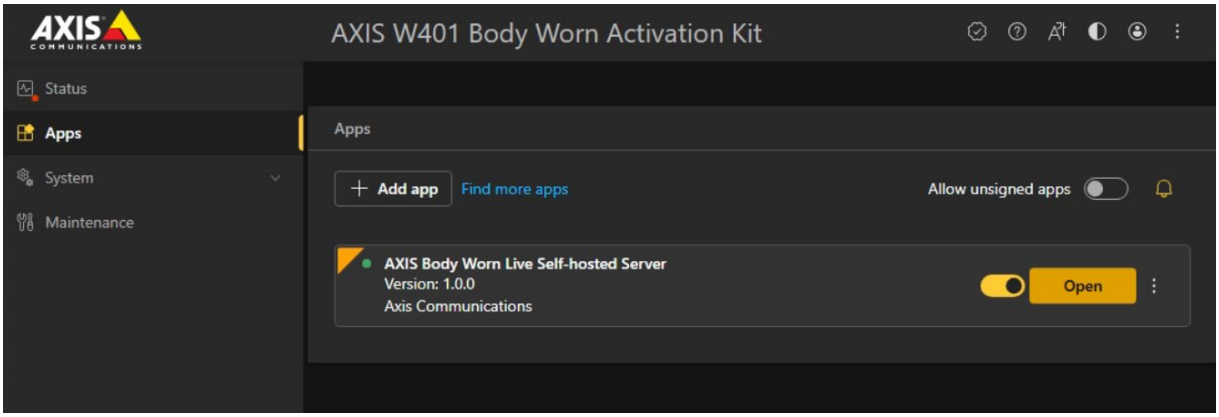
9. If not automatically done, reload and log in to the web page to use the new certificate.

3. Step 3 – Install Live Self-hosted Server app

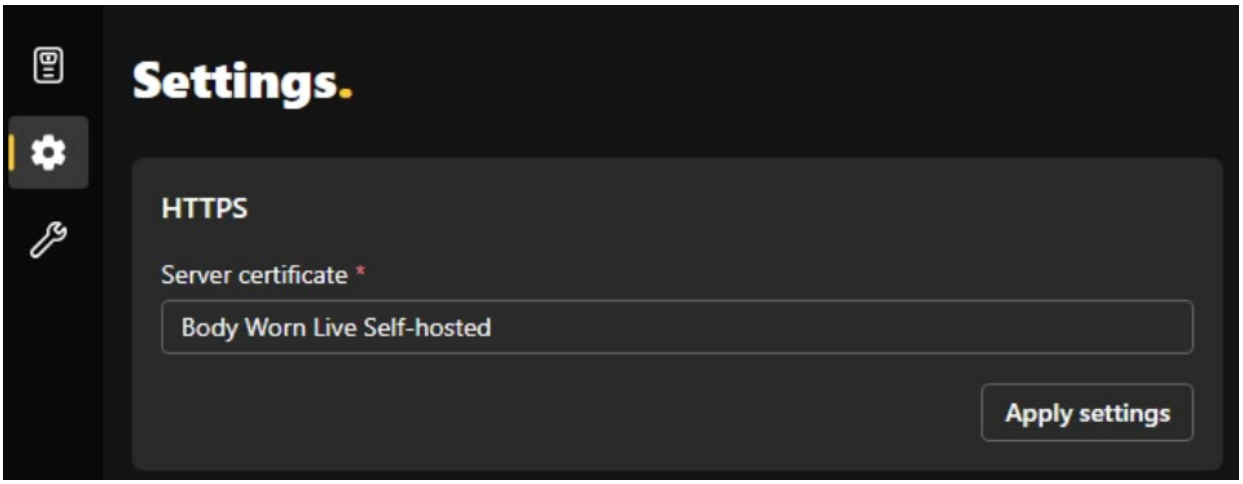
1. In AXIS W401 go to **Apps > Add app**.
2. Drag-and-drop **AXIS_Body_Worn_Live_Self-hosted_Server_x.y.z.eap** and click **Install**.



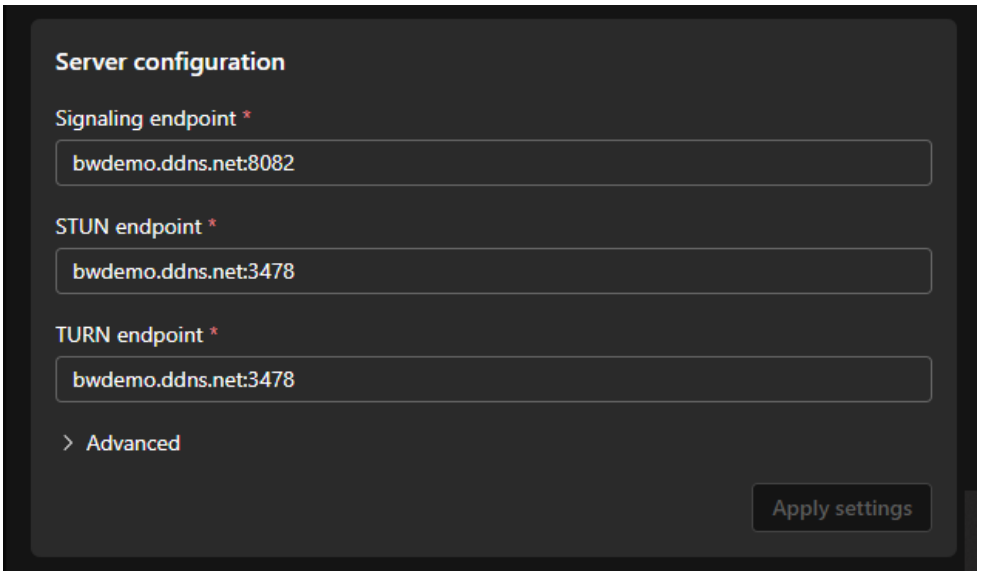
3. Use the switch to start the **AXIS Body Worn Live Self-hosted Server** app.
4. Open the app.



5. Click **Advanced**.
6. Go to **Settings > HTTPS**.
7. Select the certificate you installed when you prepared the device from the list of certificates.
8. Click **Apply settings**. The server configuration is loaded automatically.

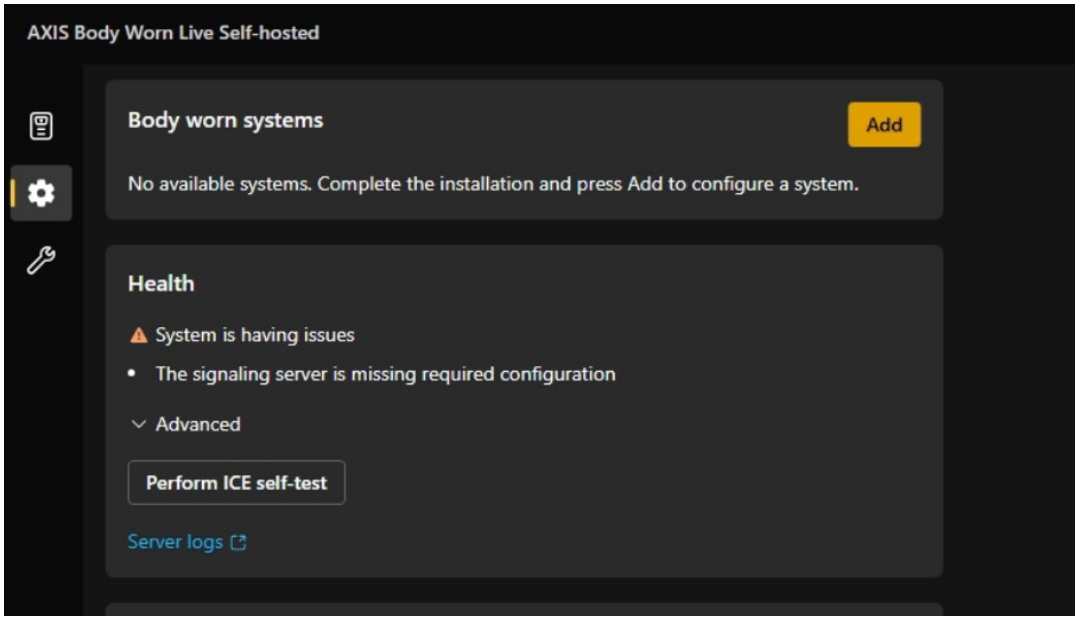


9. Under Server configuration, enter the address endpoints/port and click **Apply Settings**.

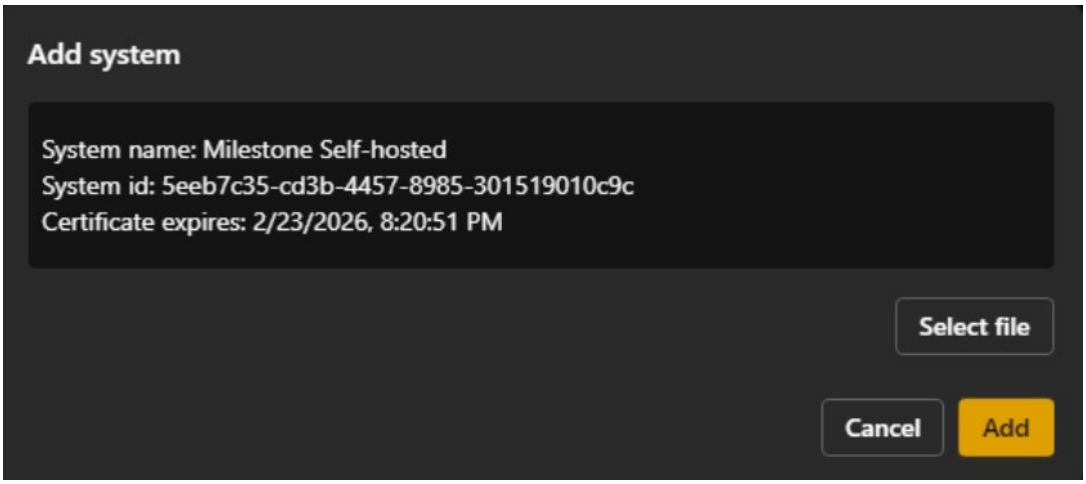


4. Step 4 – Connect AXIS Body Worn Live to AXIS Body Worn Manager

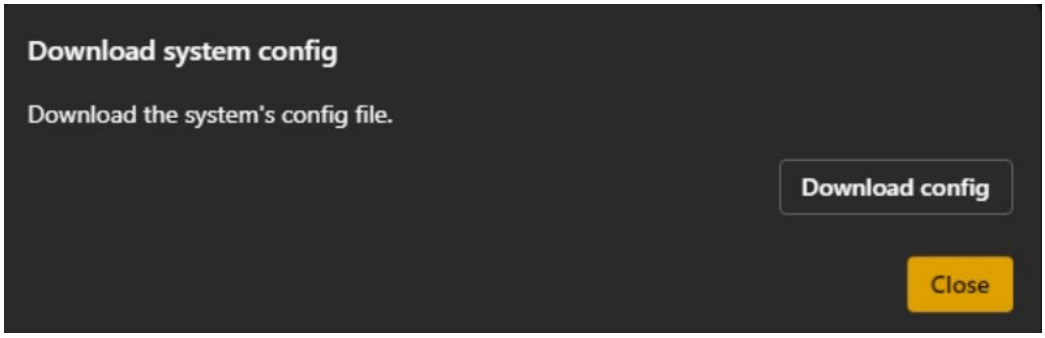
1. In **AXIS Body Worn Live Self-hosted Server** App go to **Settings**  **> Body worn systems** and click **Add**.



2. Select the **system controller configuration file** previously created in *Step 1 - Body Worn System Setup* and click **Add**.



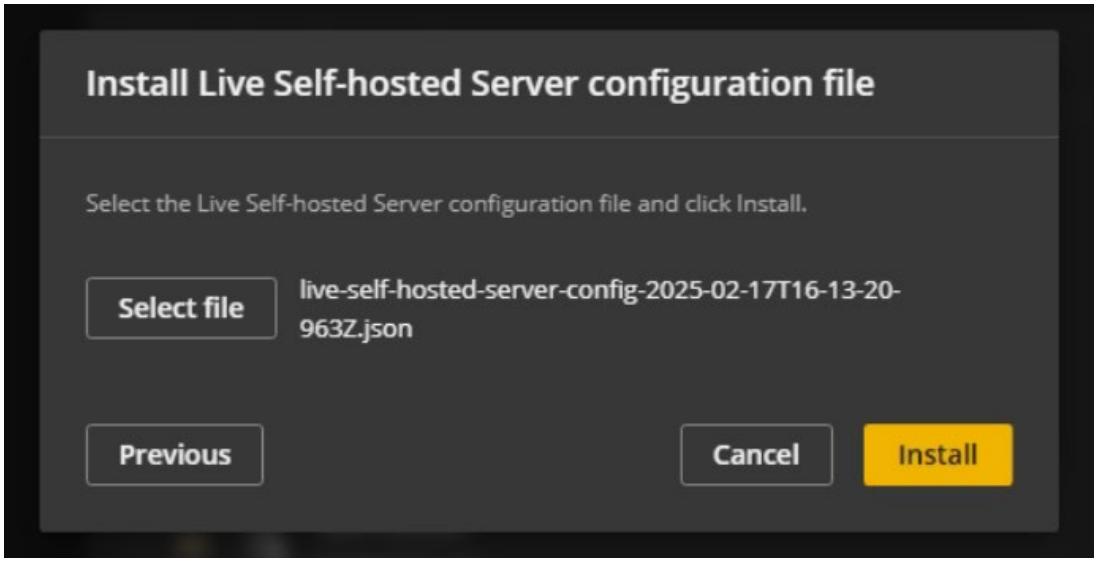
3. Download the **live self-hosted server config file**.



4. Go back to **AXIS Body Worn Manager** and resume the wizard that was paused from *Step 1 - Body Worn System Setup*.

   Alternative steps below if web browser tab was closed before:
   - Go to **Add-on services > AXIS Body Worn Live > Self-hosted** and click **Install**
   - Resume installation by clicking **Resume > Next > Next**

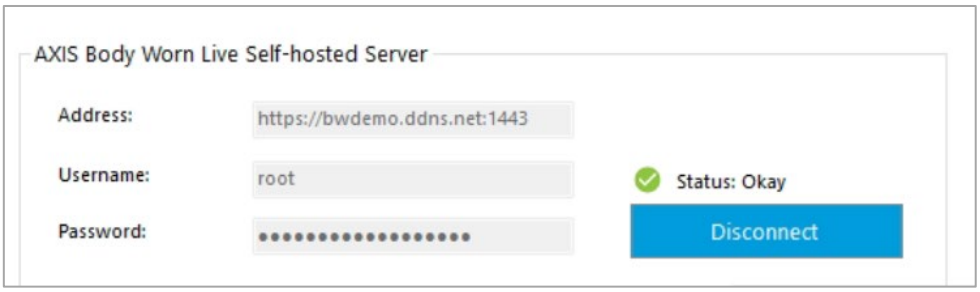
5. Select the **Live self-hosted server configuration file** and click **Install**.



6. Go to **Camera profiles** **> AXIS Body Worn Live** and allow **Streaming**.
7. Go **Settings** **> Camera > Wi-Fi® networks** and **Add Wi-fi network** (SSID: ....., Password: .....)
8. Go **Add-on services > AXIS Body Worn Live**
9. In **Server configuration**, click **Show more**.
10. Turn on **Allow troubleshooting mode**.
11. Enter www.axis.com under Network test endpoint and click **Set**.

5. Step 5 – Stream live in Milestone XProtect® Smart Client

1. Right-click in the **AXIS Optimizer Body Worn Extension application** in the taskbar.
2. Select **Open connection setup**.
3. Under **AXIS Body Worn Live Self-hosted Server** enter the address, username, and password for the Live Self-hosted Server device.



4. Click **Connect**.

6. Step 6 – Trigger an event when a live stream starts

Here is how to create a rule or an alarm definition with Live Stream Started as a predefined event in XProtect:

1. Open **Milestone XProtect Management Client.**
2. Go to **Site Navigation > Recording Servers** and select the body worn camera.
3. Go to the **Events** tab.
4. Click **Add**.
5. Select **Live Stream Started**, Click **OK**.
6. Select **Live Stream Stopped**, Click **OK**.
7. Save.
8. Open **Milestone XProtect Smart Client**.
9. In the **Main views** tab, click on the **Setup** button on the top right.
10. Create a new view and drag in the camera under folder body worn user cameras.
11. Click **Setup**.
12. Double-click the function button on the camera to start live streaming.