

AVIGILON™

User Guide



Avigilon ENV1 Appliance

VMA-ENV1-8P4
VMA-ENV1-8P8
VMA-ENV1-8P8B

Important Safety Information

This manual provides installation and operation information and precautions for the use of this device. Incorrect installation could cause an unexpected fault. Before installing this equipment read this manual carefully. Please provide this manual to the owner of the equipment for future use.



WARNING

The Warning symbol indicates the presence of dangerous voltage within and outside the product enclosure that may constitute a risk of electric shock, serious injury or death to persons if proper precautions are not followed.



CAUTION

The Caution symbol alerts the user to the presence of hazards that may cause minor or moderate injury to persons, damage to property or damage to the product itself if proper precautions are not followed.



WARNING

Failure to observe the following instructions may result in severe injury or death.

- Installation must be performed by qualified personnel only and must conform to all local codes.
- Do not open or disassemble the device. There are no user serviceable parts.
- The coin cell battery is not replaceable. Replacement of the battery with an incorrect type is unsafe.



CAUTION

Failure to observe the following instructions may result in injury or damage to the appliance.

- Do not subject cables to excessive stress, heavy loads or pinching.
- Do not operate in dusty areas.
- This device is for indoor use only.
- Do not expose this product to rain or use near water. If this product accidentally gets wet, unplug it immediately.
- Keep product surfaces clean and dry. To clean the outside case of the device, gently wipe using a lightly dampened cloth (only use water, do not use solvents).
- Do not install near any sources of vibration, such as motors.
- Do not install near any heat sources such as radiators or other sources of heat.
- Do not block ventilation openings located on the device enclosure as they are designed to keep the system cool while running. Install or place this product in an area where there is ample air circulation.

- The use of EMC-compliant support and auxiliary equipment with this device is required in order to fully comply with the EMC regulatory standards.
- Do not insert anything into the device ventilation openings.
- Use only accessories recommended by Avigilon.
- Keep these safety instructions.

Regulatory Notices

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This Class B digital apparatus complies with Canadian ICES-003 (B)/NMB-3(B)

This equipment is to be connected only to PoE networks without routing to the outside plant.

The battery isn't user replaceable or service replaceable.

Changes or modifications made to this equipment not expressly approved by Avigilon Corporation or parties authorized by Avigilon Corporation could void the warranty and affect the user's ability to operate this equipment.

Disposal and Recycling Information

When this product has reached the end of its useful life, please dispose of it according to your local environmental laws and guidelines.

Risk of fire, explosion, and burns. Do not disassemble, crush, heat above 100 °C (212 °F), or incinerate.

European Union:



This symbol means that according to local laws and regulations your product should be disposed of separately from household waste. When this product reaches its end of life, take it to a collection point designated by local authorities. Some collection points accept products for free. The separate collection and recycling of your product at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment.

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Avigilon Corporation
avigilon.com

20230727

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Introduction

The Avigilon ENVR1 Appliance (formerly ACC ES 8-Port Appliance) is the all-in-one solution for network video recording. The recorder features:

- A network switch to connect and power IP cameras.
- Built-in server to run the Avigilon Control Center Server Software.
- Local video content storage that can be accessed remotely.

The ENVR1 Appliance factory default settings allow you to use the recorder immediately after installation, but if you have special requirements, you can use the Avigilon Control Center software or the web interface to customize your settings.

Before You Start

Avigilon recommends the use of an uninterruptible power supply (UPS) system to protect your video surveillance system hardware. A UPS system is used to protect critical equipment from mains supply problems, including spikes, voltage dips, fluctuations and complete power failures using a dedicated battery. It can also be used to power equipment during the time it takes for a standby generator to be started and synchronized.

Any UPS connection must include configuration to shut down the operating system on the appliance when battery power is low or there is 15 minutes of power remaining.

It is recommended that cameras not be connected to the appliance until after the appropriate network configuration has been set up.

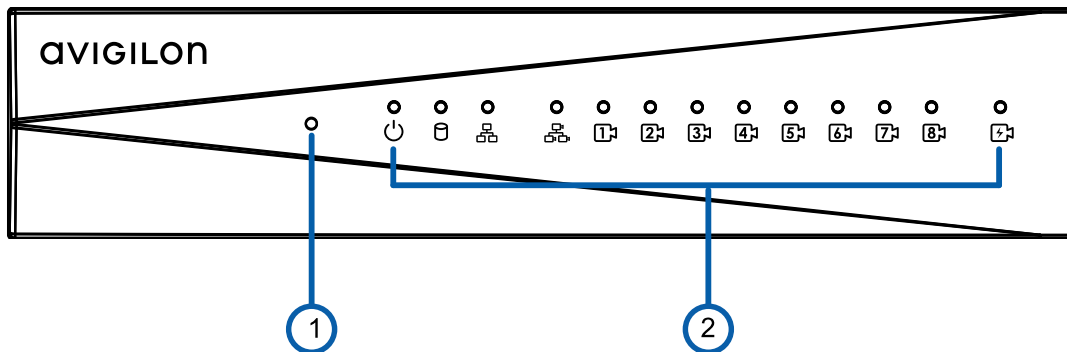
Package Contents

Ensure the package contains the following:

- Avigilon Video Appliance
- Power cord
- Power supply and screwdriver to secure it
- Wall installation hardware
- Digital input/output terminal block connector

Overview

Front View



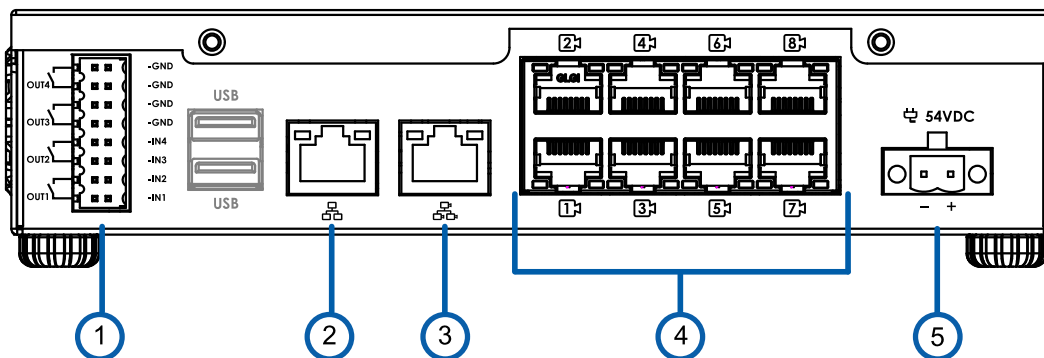
1. Reset button

Use this button to physically restart the appliance or perform a factory reset.

2. Status LED

Provides information about daily operations. For more information, see [LED Indicators on page 25](#).

Rear View



1. I/O connector

Provides connections to external input/output devices. For more information, see [Connecting to External Devices on page 23](#).

2. Corporate network uplink port

Accepts a 1GbE Ethernet connection to the general network to allow users access to the web interface of the appliance.

3. Camera network uplink port

Accepts a 1GbE Ethernet connection to the cameras that are connected to the PoE switch component. Can be used to link to other PoE switches and cameras, and to access the web interface of any connected camera video.

4. **PoE switch component**

Connect cameras to the 10/100 speed PoE switch component to power the cameras and record video.

5. **Power connector**

Accepts power to the appliance.

System Requirements

Administrative settings for the appliance are managed through a web interface, accessed from any Windows, Mac or mobile device using any of the following web browsers:

- Mozilla Firefox browser version 3.6 or later
- Google Chrome browser 8.0 or later
- Microsoft Edge browser 25 or later
- Safari 5.0 or later
- Chrome on Android 2.2 or later
- Safari on Apple iOS 5 or later.
- Windows Internet Explorer browser version 7.0 or later



NOTE

Your web browser must be configured to accept cookies or the web interface will not function correctly.

Supported Network Configurations



NOTE

The Camera Uplink Port does not support dynamically switching DHCP servers.

| Network Connections | Camera Web Interface Access | Supported IP Configurations | | Notes |
|---------------------------------|-----------------------------|---------------------------------|---------------------------------|---|
| | | Corporate LAN Uplink | Camera LAN Uplink | |
| Corporate LAN Uplink only | No | Static or DHCP assigned | Unconnected (leave as DHCP) | Camera LAN Uplink and connected cameras will use Zeroconf IP addresses. |
| Camera LAN Uplink only | Yes | Unconnected (leave as DHCP) | Static, DHCP-assigned, Zeroconf | |
| Corporate and Camera LAN Uplink | via Camera LAN Uplink only | Static, DHCP-assigned, Zeroconf | Static, DHCP-assigned, Zeroconf | Corporate and Camera LAN Uplinks must be on different subnets. |

Installing and Connecting the Hardware

Install the ENVR1 Appliance in a location free of dust and particles, vibration, and within the specified operating temperature range. Otherwise any issues that arise will not be covered by the warranty.




The ENVR1 Appliance can be installed as a stand-alone device, mounted on a wall using the supplied mounting brackets, or kept in a server rack using the optional Rack Mount Shelf With Sliding Rails accessory kit.

1. Note down the serial number, located on the label on the underside of the device.
2. If required, mount the ENVR1 Appliance on a wall using the supplied mounting brackets.




TIP

You may want to do this step before or after you have made all the required connections depending on where you want to mount the device.

- a. Unscrew the feet on the device and attach the wall mount brackets to the lowest threaded holes on the sides of the ENVR1 Appliance.
 - b. Position the device with the rear panel facing downwards.
 - c. Screw the wall mounting brackets to the wall.
3. If required, install the ENVR1 Appliance in a server rack using the optional Rack Mount Shelf With Sliding Rails accessory kit. Attach the device to the tray and sliding rails, following the instructions provided in the assembly kits.
 4. Connect the cameras to the PoE ports.
 5. Connect the *corporate network* port on the device to the local network with an Ethernet cable.
 6. Connect power and wait for the device to start up. Wait for the  power LED to turn green to indicate that the device is turned on and the  PoE LED to turn orange to indicate power is provided to all connected PoE devices. It may take several minutes for the  power LED to turn green the first time the device is powered on.



NOTE

The  PoE LED initially shows that PoE is provided to all connected devices, but the status may change if the system detects that the total power consumption exceeds the PoE limits. If the LED is blinking, go to the **PoE** tab in the Network panel of the ENVR1 Appliance Web Interface after you have activated the device to resolve the power budgeting for each port. For more information, see [Assigning a PoE Power Budget on page 17](#).

Starting the ENVR1 Appliance for the First Time

After powering on the ENVR1 Appliance, complete the following procedure:

1. Connect a port on the appliance to the local network with an Ethernet cable.
2. Check that the appliance LED indicators display the correct status. See [LED Indicators on page 25](#) for more information.
3. On a network workstation, discover the appliance. Use File Explorer on a Windows computer or Finder® on a Macintosh computer.

You are looking for a device labeled “VMA-ENVR1-8Px-<serial number>” or “VMA-ENVR1-8P8B-<serial number>”. If you cannot locate the appliance, see [Troubleshooting on page 8](#).

4. Click to open the Server Management page of the ENVR1 Appliance in a supported web browser.



IMPORTANT

The ENVR1 Appliance is configured with a self-signed certificate, which generates a connection warning in the web browser.

Supported web browsers for Windows®, Mac or mobile devices include:

- Mozilla Firefox®
- Google Chrome™
- Microsoft Edge™
- Safari®
- Chrome on Android™
- Safari on Apple® iOS



NOTE

Your web browser must be configured to accept cookies or the Server Management page will not function correctly.

It is recommended to use the latest version of any supported web browser.

5. Click past any connection messages displayed by the browser. You will see two warning messages that differ slightly depending on the browser. For example, if the browser is:
 - Chrome—Click **Advanced** on the first screen and **Proceed to <IP address> (unsafe)** on the second screen.
 - Firefox—Click **Advanced** on the first screen and **Add Exception** on the second screen, check **Permanently store this exception**, and click **Confirm Security Exception**.

6. When you are prompted by the Server Management page, enter a new password for the administrator username.

The Strength meter measures the complexity of your password: Red is too simple, yellow is reasonably complex, and green is complex. Complexity measures the difficulty to discover your password, not how secure your password is. A complex password is recommended.

The page refreshes and you are prompted to log in.

7. Enter `administrator` as the username and your new password.

The Dashboard panel of the Server Management page is displayed.

8. Set the language for the Server Management page, a user-friendly hostname, and the time zone. In the navigation sidebar, click **Device** to open the Device page. In the:
 - a. General pane, select the Language from the drop-down.
 - b. Hostname pane, optionally replace the serial number of the appliance with a descriptive hostname for the appliance.
 - c. Time pane, specify the Time Zone and identify the time source in the NTP drop-down and Servers list.

For more information, see [Manage Device Settings on page 13](#).

9. Select how the appliance obtains IP addresses from the network. On the navigation sidebar, click **Network** to open the Network page. For each network port used, select Automatic or manually enter the settings.

For more information, see [Connect the Device to Cameras and ACC Client Users on page 16](#).

For more information about the Server Management page, see [Using Server Management on page 10](#).

All ENVR1 Appliance models are preinstalled with the ACC 7 Server software. An ENVR1 Appliance can be deployed as a stand-alone ACC site, or if you are adding it to an existing ACC 7 deployment, it can merged into an existing site, or added as a new site.



TIP

If you are using an ACC 6 deployment, you can downgrade the ENVR1 Appliance models VMA-ENVR1-8P4 and VMA-ENVR1-8P8 only to run the ACC 6 Server software, and add them to the deployment. Downgrade before you start using the preinstalled ACC Server software. The server-side video analytics features are not supported after downgrading to the ACC 6 Server software. When you downgrade, all the configured settings are lost, and all recorded video is deleted. For more details see the *ENVR1 Appliance ACC Downgrade Guide*.



The ENVR1 Appliance model VMA-ENVR1-8P8B cannot be downgraded to run the ACC 6 Server software. The error message “Invalid firmware package” appears if you attempt to upload the ACC 6 firmware (.fp) file for the VMA-ENVR1-8Px models to a VMA-ENVR1-8P8B.

You are now ready to install the ACC Client software and connect the ENVR1 Appliance to an ACC site.

Troubleshooting

Accessing the Server Management page from a Web Browser

There may be cases where you want to access the Server Management page without using the ACC Client.

You can access the Server Management page from any Windows®, Apple, or mobile device using most popular web browsers.



NOTE

Your web browser must be configured to accept cookies or the Web Interface will not function correctly.

1. On a network workstation, discover the appliance. Use File Explorer (Windows) or Finder® (Apple).

You are looking for a device labeled "VMA-ENVR1-8Px-<serial number>" or "VMA-ENVR1-8P8B-<serial number>" or the hostname you configured in the Server Management page for this device.

2. Click to open the device in a supported web browser. For a list of supported web browsers, see [System Requirements on page 3](#).



IMPORTANT

The ENVR1 Appliance is configured with a self-signed certificate, which generates a connection warning in the web browser.

3. Click past any connection messages displayed by the browser. You will see two warning messages that differ slightly depending on the browser. If the browser is:
 - Chrome—Click **Advanced** on the first screen and **Proceed to <IP address> (unsafe)** on the second screen.
 - Firefox—Click **Advanced** on the first screen and **Add Exception** on the second screen, check **Permanently store this exception**, and click **Confirm Security Exception**.
4. Log in as administrator.

The Dashboard panel of the Server Management page is displayed.

Cannot Discover the Device

There are several ways you can discover a device that is supposed to be connected to your network from a network workstation. The recommended order to discover a device is:

- Check that the appliance is connected to the local network with an Ethernet cable.
- Check that the appliance LED indicators display the correct status. See [LED Indicators on page 25](#) for more information.
- Using File Explorer (Windows) or Finder (Apple)

You are looking for a device labeled "VMA-ENVR1-8Px-<serial number>" or "VMA-ENVR1-8P8B-<serial number>" or the hostname you configured in the Server Management page for this device.

- Discover the DHCP-assigned IP address from the ACC Client software:
 - Log into the site that uses this naming convention: VMA-ENVR1-8Px-<serial number> or VMA-ENVR1-8P8B-<serial number>.



NOTE

The username and password for the Web Interface application is separate from the administrator username and password for the ACC Server.

- Access the appliance from your web browser using the URL `https://VMA-ENVR1-8P-<serial number>` or `https://VMA-ENVR1-8P8B-<serial number>`.
- Use the Address Resolution Protocol (ARP) to determine the IP address for the device:
 1. Locate and copy down the MAC Address (MAC) listed on the Serial Number Tag for reference.
 2. Open a Command Prompt window and enter the following command:

```
arp -a
```
 3. Scroll through the response and look for the IP address corresponding to the MAC address.

If none of the above suggestions resolve the problem, contact Avigilon Technical Support.

Network Configuration

By default, the ENVR1 Appliance acquires an IP address on the network through DHCP. If you need to set up the ENVR1 Appliance to use a static IP address or any specific network configuration, see [Connect the Device to Cameras and ACC Client Users on page 16](#) for more information.

By default, the Remote Monitoring Workstation acquires an IP address on the network through DHCP. If you need to set up the workstation to use a static IP address or any specific network configuration, see the *Windows Help and Support* files for more information.

By default, the NVR5 Workstation acquires an IP address on the network through DHCP. If you need to set up the workstation to use a static IP address or any specific network configuration, see the *Windows Help and Support* files for more information.

By default, the NVR5 Premium acquires an IP address on the network through DHCP. If you need to set up the workstation to use a static IP address or any specific network configuration, see the *Windows Help and Support* files for more information.

By default, the NVR5 Standard acquires an IP address on the network through DHCP. If you need to set up the workstation to use a static IP address or any specific network configuration, see the *Windows Help and Support* files for more information.

Monitoring System Health

You can monitor the health of the system components in the Site Health page in either the ACC Client software or Avigilon Cloud Services (ACS). See the Help files provided with the ACC Client software, the *Avigilon ACC Client User Guide*, or the *Avigilon ACS Client User Guide* available from the Avigilon website for more information.

Using Server Management



The ENVR1 Appliance is configured through Server Management, which you can access from the ACC Client application (if you are adding the appliance to an existing multi-server site), or any compatible browser on a workstation on the same network as the appliance. With Server Management you can configure the appliance server settings, set how the server keeps time, and remotely restart or upgrade the server. When the appliance is the first (or only) ACC server deployed at a site, you must access Server Management with a browser, and after you configure the appliance you can download the ACC Client software to the workstation and activate the ACC server software on the appliance. Throughout this section, the term device is used to identify the appliance.

Start backing up the system settings for the appliance after you configure it. These settings include the ACC password, and the settings for the camera connections. For more information on backing up the site and server configurations, see the Help files provided with the ACC Client software, or the *Avigilon ACC Client User Guide* available from the Avigilon website.

Starting and Stopping Server Management

Start and log in to Server Management from any network workstation with network access to the device, using any of the following methods:

- **Directly from the ACC Client software:**

- a. Start the ACC Client software.
- b. Log in to the site from the System Explorer.
- c. In the New Task menu , click **Site Setup**.
- d. Select the device in the System Explorer and click **Server Management**  to open the device sign-in page.

- **With a bookmark from a web browser:**

Use one of these methods to create a bookmark:

- Discover the device
 - a. Open the Network tab in File Explorer (Windows) or Finder (Macintosh) to locate the device.
 - b. You are looking for a device labeled "VMA-ENVR1-8Px-<serial number>" or "VMA-ENVR1-8P8B-<serial number>" or the hostname you configured in the Server Management page for this device.

If you cannot locate the device, see [Troubleshooting on page 8](#).
 - c. Right click and select **View Device Webpage** to open the device sign in page in your default web browser.
 - d. Bookmark the device sign in page
- Use the IP address or hostname

- a. Open a web browser from a network workstation with network access to the device.
- b. Enter its IP address or hostname into the web browser to open the device sign-in page:

`https://<Device IP address ><Device hostname>/`

For example:

- `https://169.254.100.100/` where 169.254.100.100 is the IP address configured in the Device panel.
- `https://my_AvigilonDevice/` ,where my_AvigilonDevice/ is the hostname configured in the Device panel.



NOTE

If you forgot the IP address or hostname that was configured during the installation process, the information is listed in the ACC Client software, in the server Setup tab.

- c. Bookmark the device sign-in page.

Log out and stop Server Management by clicking the log out icon on the right of the Server Management title bar.

Viewing PoE Port Status

The PoE panel displays a status for each port in the Status column. Statuses include the following:

| Color | Status | Description |
|--------|--------------|--|
| Green | Powered | A PoE device is connected to the port and is operating normally. |
| | High powered | PoE+ is turned on. |
| Gray | Disconnected | There is no device connected to the port. |
| | | The PoE port power is switched off from the PoE page in Server Management. |
| Yellow | Overloaded | A PoE device is connected to the port but is not receiving power. This status typically occurs when one port is over current, or the device is requesting more power than budgeted, etc. |
| | Low current | The device is getting low current from the port. |
| Red | Error | The device is in an error state. |



TIP

If a camera is disconnected then reconnected to the device, you may need to refresh this page to view the latest status and budget values.

Manage ACC Services

On the **Server** panel use the:

- General pane:

| To... | Do this... |
|---|--|
| Shut down all the services before you shut down the device. | Click Stop . |
| Start up all the services after they have been shut down. | Click Start . |
| Reset the ENVR1 Appliance | Click Reset . |
| Format the storage drive. | Click Reinitialize to delete all configuration and recorded video data. |

- Network Storage Management pane to enable ACC Client application users to archive video from the ENVR1 Appliance. See [Enable ACC Client Users to Archive Video below](#).
- Service and RTP Ports panes to change the UDP and TCP ports used to communicate with the ENVR1 Appliance:
 - In the Service Ports pane, enter the **Base** value to use for the HTTP, HTTPS, and UDP ports and click **Apply**. The list of ports is updated.
 - In the RTP Ports pane, enter the **Base** value to use for the UDP ports and click **Apply**. The range of ports available for RTP is updated.



IMPORTANT

These changes can only take effect after the system restarts. When you are prompted, allow the system to restart.

Enable ACC Client Users to Archive Video

To allow users of the ACC Client application to archive video from the ENVR1 Appliance:

1. From the navigation bar, open the **Server** panel.
2. In the Network Storage Management pane, click **Enabled**.
3. From the Protocol drop down list, select one of the following:
 - **CIFS** — Common Internet file system. The network path is typically in this format: `//<hostname or IP> / <path>`
 - **NFS** — Network file system. The network path is typically in this format: `<hostname or IP> : <path>`
4. In the **Network Path** field, enter the path to the preferred video archiving location.
5. If the network location requires authentication, enter the credentials in the **Username** and **Password** fields.
6. Click **Apply**.

Provide Server Logs and System Logs for Support

Use the Logs panel to view the Server Logs and System Logs panes and prepare log files requested by Avigilon Technical Support to help resolve an issue.

Typically, Avigilon Technical Support assists you to access and filter the logs on this panel to isolate the logs that they require. You then copy and paste the logs into a text file, save it and send it to Avigilon Technical Support.

By default, a log pane displays 100 warning messages from the logs.

You can filter the logs to display the information that you need:

1. In the drop down list, select the type of logs that you need.
 - For the Server Logs:
 - **Exception Logs**
 - **FCP Logs**
 - **Server Logs**
 - **WebEndpoint Logs**
 - For the System Logs:
 - **System Logs**
 - **Boot Logs**
 - **Web Server Logs**
2. In the **Maximum Logs** drop down list, select the number of log messages you want to display each time.
3. Enter text in the **Filter** field to apply a filter to the log listings.
4. Click the **Sync** button to display the updated logs.

Manage Device Settings

On the navigation bar, click Device.

| To... | On the Device panel card... | Setting |
|--|-----------------------------|--|
| Change the language for Server Management. | General | Choose your language from the drop down Language list |
| Install the latest version of the firmware on your device. | Upgrade Firmware | See Upgrade the Firmware on page 30 . |
| Find information that may be helpful when troubleshooting. | Support | Download Device Logs and System Snapshot to assist in troubleshooting. |
| Replace the default server name with a user-friendly hostname. | Hostname | Change the Hostname . The default hostname is the same as the server name. The server name is in the form <Model>-<Serial Number>. |
| Change the password for the ENVR1 | Password | See Change the ENVR1 Appliance Administrator |

| To... | On the Device panel card... | Setting |
|--|-----------------------------|--|
| Appliance administrator. | | Password on the next page. |
| Set the time zone. | Time | Specify the Time Zone and identify the time source in the NTP drop-down and Servers list. See Manage Time Settings below. |
| Manage the certificates used by Server Management and the ENVR1 Appliance. | Certificates | See Manage Certificates on page 27. |

Change the ENVR1 Appliance Administrator Password

You can only change the password, not the default *administrator* username for Server Management.

1. On the navigation bar, click **Device**.
2. On the General panel locate the **Password** pane.
3. Enter your current password in the **Old Password** field.
4. Enter your new password in the **New Password** and **Confirm Password** fields.

A complex password is recommended.

Remember to save the password in a secure format and location either physically or digitally so that it can be retrieved if the password is forgotten, and discard the record of the previous password.



CAUTION

You will lose recorded video and configuration data if you forget your password. To reset the administrator password, you must reset the device to the factory default settings. This will also format the hard drives and delete the configuration data and recorded video. For more information on performing a factory restore, see [Restoring Factory Default Settings on page 32.](#)

Manage Time Settings

Customize how the ENVR1 Appliance keeps time:

1. Select your **Time Zone** from the drop-down list. The time zone that you set here is used by the recording schedules defined in the ACC Client software.
2. Select whether you want to keep synchronized time through a Network Time Protocol (NTP) server (recommended) in the NTP field.



TIP

To synchronize time with ONVIF devices (that is, non-Avigilon ONVIF cameras), you can connect to port 123 on the ENVR1 Appliance to use it as an NTP server. Once connected, Avigilon cameras will use the ENVR1 Appliance as their NTP time source by default.

Select:

- **DHCP** to automatically use the existing NTP servers in the network.
- **Manual** to enter the address of NTP servers in the Servers list. Controls to add and delete addresses in the list, and reorder them are activated.
- **Off** if you do not use an NTP server.



NOTE

The default set of NTP servers is always present in the Servers list. However, this list is only used if NTP is enabled and not provided by your DHCP server. The default list cannot be rearranged or deleted.

- 0.pool.ntp.org
- 1.pool.ntp.org
- 2.pool.ntp.org
- 3.pool.ntp.org

3. Click **Apply** to save the time settings.

Manage Storage

On the **Storage** panel you can view the storage capacity of the device and the status of the storage drive on an ENVR1 Appliance (or drives on older 4-port ACC ES appliances).

Click **Storage** on the navigation bar to open the Storage panel. You can perform any of the following actions in the pane in the Storage panel:

| To... | Do this... |
|--|--|
| View the capacity and status of the storage drive. | On the Physical Disks panel, information about each physical disk is listed. When the storage drive is: <ul style="list-style-type: none"> • Correctly working, Ready is displayed. |

| To... | Do this... |
|-------|--|
| | <ul style="list-style-type: none"> Not correctly working, one of several error states is displayed. |

Connect the Device to Cameras and ACC Client Users

On the Network panel, you can change network connections of the device. Two network connections are supported: one for a corporate network and one for a camera network.



NOTE

The corporate network and the camera network must be on different IP subnets.

The corporate network is the network that typically provides users with access to the device. Users who monitor video through the ACC Client software connect to the device through this network.

The camera network is a closed network that typically only contains cameras. This reduces the amount of interference with video recording.

When connecting an ONVIF device to the camera network, configure it to use the appliance as its time/NTP server.

For more information about the network connections, see [Supported Network Configurations on page 4](#).

You can perform any of the following actions in each of the panes in the Network panel:

| To... | Do this... |
|---|--|
| Set how the device obtains an IP address for each network. | <p>In each of the panes in the Network panel, toggle Automatic IP on to discover connected networks automatically (the default setting), or off to manually specify the connections. Enter the appropriate values in the following fields if you are manually entering the connection settings:</p> <ul style="list-style-type: none"> IP Address Subnet Mask Default Gateway <p>Click Apply to save your changes.</p> |
| Set how the device obtains a named address from a DNS server. | <p>Toggle Automatic DNS on to discover connected DNS servers automatically (the default setting), or off to manually specify the DNS servers. Controls to add and delete addresses in the list, and reorder them are activated when Automatic DNS is toggled off.</p> |

Assigning a PoE Power Budget


Use the **PoE** panel to see how much power is available to, and being used by, connected devices. The default setting for all ports is Auto. This setting automatically detects and budgets the amount of power required by the device connected to the port. For each port you can adjust this setting manually, or turn off power output completely. If you want to manually adjust the power output of the ports you must calculate a PoE power budget, see [Budgeting PoE Power on page 26](#).




TIP

If you are using a midspan PoE power injector for cameras that require high power PoE, you should set that PoE port to Off.

To open the PoE panel, either:


- Click  on the PoE status panel on Server Management launch page.
- Click **PoE** from the Dashboard navigation bar.

| To... | Do this... |
|---|---|
| See how much power is available to, and being used by, connected devices. | <p>Look at the two bars at the top of the panel:</p> <ul style="list-style-type: none">• The Budget bar indicates the total amount of power budgeted for all devices connected to the PoE ports.• The Consumption bar indicates the actual amount of power currently used by all the connected devices. |
| Adjust the power used by each PoE port. | <p>Use the Power bar for each port to configure a PoE power budget:</p> <ul style="list-style-type: none">• Click Off to disable power output to the port. When power to a port is disabled, the port no longer outputs power but can act as a standard network connection for any device.• Click Auto to automatically output power to the connected device depending on its mode of operation.• Click Manual to enter a power budget value in watts. Make sure the budget includes potential power loss at the cable. |



TIP

You can also use the **Power** bar to remotely power cycle the camera. After you set the Power setting to Off, wait for the camera to power off then change the Power setting to **Auto** or **Manual**.



TIP

Devices that support both PoE and PoE+ (802.3at) modes of operation can be forced into non-PoE+ mode (802.3af) by using a manual 15W budget.

Settings are not implemented until you click **Apply**.

After you click **Apply**, allow the system to apply the changes when the following message is displayed:

Applying changes may power-cycle PoE-powered devices.

Server Management automatically refreshes the screen and displays the updated settings after the new power settings are applied.

Providing Device Logs for Support

Use the System Logs panel to view the device logs. The logs are typically requested by Avigilon Technical Support to help resolve an issue.

By default, the page displays 100 warning messages from the Logs.

Typically, Avigilon Technical Support assists you to access and filter the logs on this panel to isolate the logs that they require. You then copy and paste the logs into a text file, save it and send it to Avigilon Technical Support.

You can filter the logs to display the information that you need:

1. In the drop down list, select the type of application log that you need. The options are:
 - **System Logs**
 - **Boot Logs**
 - **Web Server Logs**
2. In the **Maximum Logs** drop down list, select the number of log messages you want to display each time.
3. Enter text in the **Filter** field to apply a filter to the log listings.
4. Click the **Sync** button to display the updated logs.

Installing the ACC Client

If you are installing the first Avigilon appliance in your security network, you can install the ACC Client software on a network workstation or on the computer you are using to access the Server Management page. Otherwise, add the appliance as a new site in your security network, or merge it into an existing site, using the ACC Client software on a network workstation.



IMPORTANT

Before adding the appliance as a new ACC site, or merging the appliance to an existing ACC Site, first set its IP address. It is highly recommended to be in the same IP subnet as the other servers in the same site.

You can install the latest version of the ACC Client software on a network workstation with network access to the Internet :

1. Open a web browser from a network workstation with network access to the Internet.
2. Download the ACC Client software from the Avigilon website: avigilon.com/support/software. Click through to the installation software for the latest version of the ACC Client software.



NOTE

The first time you access the web site from which you download the software you will be prompted to register. Enter all of the required information and click **Complete Registration**. Your registration is automatically accepted and you will proceed to the web site.

3. Install the ACC Client software on a network workstation with network access to the device.

Activate the ACC Software and Connect to Avigilon Cloud Services

After you have deployed your NVR5 WorkstationRemote Monitoring WorkstationNVR5 Premium recorderNVR5 Standard recorder, activate your ACC software and feature licenses and connect to Avigilon Cloud Services.

Activate ACC Software and Feature Licenses

You can activate, deactivate, and reactivate product or feature licenses. Licenses are called Product Keys in the ACC system, and Activation IDs in the licensing portal.



IMPORTANT

When a new server is added to or removed from a multi-server site, the existing site licenses become inactive and must be reactivated to confirm system changes. See [Reactivating a License on page 21](#).

- [Initial ACC™ System Setup and Workflow Guide](#)
- [ACC 7 Help Center](#)

Printable versions of these guides are available on the Avigilon website: avigilon.com/support/software/.

Once your license is activated, you can immediately use the new licensed features.

Connect to Avigilon Cloud Services (Optional)

After activating your ACC software, you can connect your ACC site to the cloud, which may require a subscription, and take advantage of the capabilities and features that provide centralized access across distributed systems.

To connect your site to Avigilon Cloud Services, see help.avigilon.com/cloud.

For information about the cloud services, see avigilon.com/support/cloud/avigilon-cloud-services.

You can start to back up the system settings for your new site in the ACC Client software after it is configured. These settings include the ACC password, and the settings for the camera connections. For more information on backing up the site and server configurations, see the *Avigilon ACC Client User Guide*.

Activating a License

Once your license is activated, you can immediately use the new licensed features.





TIP

Finish organizing your multi-server site before activating a new license to avoid reactivating the site license each time a new server is added.

Online Activation

If you have internet access, use online activation. However, if your site is large and contains hundreds of licenses, the server may time out. See [Offline Activation below](#) instead.

1. In the New Task menu , click **Site Setup**.
2. Select your new site, then click .
3. Click **Add License...**
4. Enter your product keys.

If you copy and paste more than one comma-separated product key, the system will format it automatically.



- To remove the last product key, click **Remove Last Key**.
- To clear all the product keys, click **Clear**.

5. Click **Activate Now**.
6. Click **OK**.

Offline Activation

Offline licensing involves transferring files between a computer running the ACC Client software and a computer with internet access.

In the ACC Client:

1. In the New Task menu , click **Site Setup**.
2. Select your new site, then click .
3. Click **Add License...**
4. Select the **Manual** tab.
5. Enter your product keys.

If you copy and paste more than one comma-separated product key, the system will format it automatically.

- To remove the last product key, click **Remove Last Key**.
- To clear all the product keys, click **Clear**.

6. Click **Save File...** and choose where you want to save the `.key` file. You can rename the file as required.
7. Copy the `.key` file to a computer with internet access.

In a browser:

1. Go to activate.avigilon.com.
2. Click **Choose File** and select the `.key` file.
3. Click **Upload**. A `capabilityResponse.bin` file should download automatically.

If not, allow the download to occur when you are prompted.

4. Complete the product registration page to receive product updates from Avigilon.
5. Copy the `.bin` file to a computer running the ACC Client software.

In the ACC Client:



1. In the License Management dialog box, click **Apply...**
2. Select the `.bin` file and click **Open**.
3. Click **OK** to confirm your changes.

Reactivating a License

FOR ENTERPRISE EDITION

When servers are added to or removed from a site, the site licenses become inactive and must be reactivated to confirm system changes.

If you do not reactivate the affected licenses, the site will stop normal operations.

1. In the New Task menu , click **Site Setup**.
2. Click the site name, then click .
3. Click **Reactivate Licenses...**

If you have Internet access:

- a. Click **Reactivate Licenses**.
- b. Click **OK** to confirm your changes.

If you do not have Internet access:


- a. Select the **Manual** tab.
- b. Click **Save File...** and choose where you want to save the .key files.
- c. Copy the .key files to a computer with internet access:
 - i. Go to activate.avigilon.com.
 - ii. Click **Choose File** and select the .key file.
 - iii. Click **Upload**. A capabilityResponse.bin file should download automatically.
If not, allow the download to occur when you are prompted.
 - iv. Complete the product registration page to receive product updates from Avigilon.
 - v. Copy the .bin file to a computer running the ACC Client software.
- d. In the License Management dialog box, click **Apply....**
- e. Select the .bin file and click **Open**.
- f. Click **OK** to confirm your changes.

Starting Up and Shutting Down the ACC Client Software

To open the ACC Client software:

- Double-click the desktop shortcut icon .
- In the Start menu, select **All Programs** or **All Apps > Avigilon > Avigilon Control Center Client**.

To close the ACC Client software:

1. In the top-right corner, click .
2. Click **Yes**.

Connecting to External Devices

External devices are connected to the appliance through the I/O terminal. The pinout for the I/O terminal is shown in the following diagram:

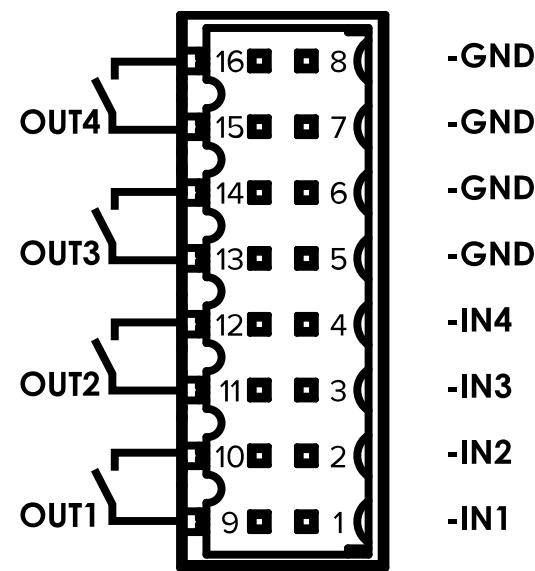


Figure 1: ENVR1 Appliance I/O pins are numbered as shown in the image above.

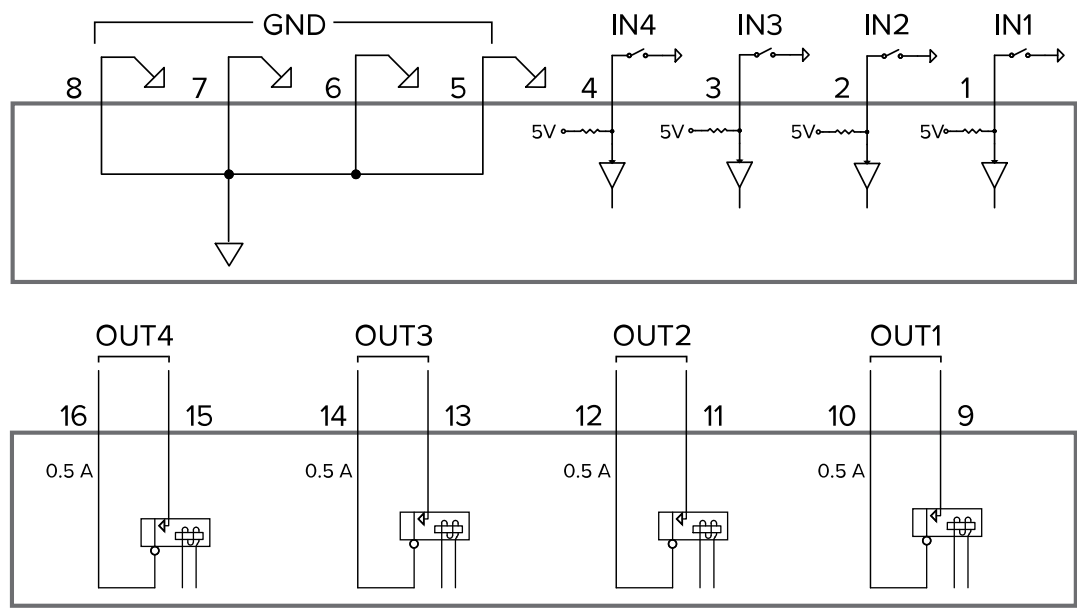







Figure 2: The diagram above shows the pinouts for the I/O terminal.

| Pin | Function | Description |
|-----|----------|--|
| 1 | IN1 | Alarm Inputs — Active-Low inputs. To activate, connect the Input to the Ground pin (GND). To deactivate, leave disconnected. |
| 2 | IN2 | |
| 3 | IN3 | |
| 4 | IN4 | |
| 5 | GND | |
| 6 | | |
| 7 | | |
| 8 | | |
| 9 | OUT1 | Relay Outputs — Form-A dry contact outputs. When active, terminals are connected. When inactive, terminals are disconnected. |
| 10 | | |
| 11 | OUT2 | Maximum load is 30 V, 0.5 A. |
| 12 | | |
| 13 | OUT3 | |
| 14 | | |
| 15 | OUT4 | |
| 16 | | |



LED Indicators

The following list describes what the LEDs on the ENVR1 Appliance indicate.

Front Panel LEDs

| Icons | LED Status | Description |
|---|-------------------|--|
|  | Green | Device is powered and running. |
| | Orange | Device is restarting. |
| | Orange - blinking | Factory restore button pressed. |
|  | Green | Hard disk drive is connected. |
| | Red | Hard disk drive connection has an error. |
|  | Green | Link is present. |
| | Orange | Power is off due to failure. |
| | Green - blinking | Port activity. |
|  | Orange | 10/100 network link is present. |
| | Orange - blinking | Port activity |
| | Green | GigE network link is present. |
| | Green - blinking | Port activity |
|  | Orange | An error is present on a PoE port. |
| | Orange - blinking | Over budget. |
| | Off | PoE power is under the maximum PoE power budget. |

Back Panel LEDs

| Icons | LED Status | Description |
|---|------------|---|
|  | Green | Network activity is present. |
| | Orange | On for GigE speed. Off for 10/100 Mbps speed. |
|  | Green | Network activity is present. |
| | Orange | On for 100 Mbps speed. Off for 10 Mbps speed. |

Budgeting PoE Power



NOTE

If you want to connect more cameras, they must be powered by an external power source, such as a PoE Power Injector. This is to ensure the PoE power budget of the appliance is not exceeded.

Advanced users can manually adjust the PoE power budget for each port to consistently accommodate the cameras needed.

If you choose to manually adjust the PoE budget at each port, be aware that you must also account for potential power loss in the cable. Unless the amount of power loss in the cable is known, or you are using cables much shorter than 100 m, use the following estimates:

- If the device uses less than or equal to (\leq) 15.4 W and the cable length is 100 m — expect up to 2.5 W of power loss.
- If the device uses more than ($>$) 15.4 W and the cable length is 100 m — expect up to 4.5 W of power loss.

To calculate the recommended power budget for each port when using 100 m cables, use the following equation:

$$\text{Power budget} = \text{Camera power consumption} + \text{Expected cable power loss}$$

Example: Connect the following 8 cameras to an 8-port device:

| | |
|----------------------|--|
| 4 x HD dome cameras | $(9 \text{ W} + 2.5 \text{ W}) \times 4 = 46 \text{ W}$ |
| 2 x HD PTZ camera | $(25.5 \text{ W} + 4.5 \text{ W}) \times 2 = 60 \text{ W}$ |
| 2 x HD micro dome | $(4 \text{ W} + 2.5 \text{ W}) \times 2 = 14 \text{ W}$ |
| Total = 120 W | |

Manage Certificates

Trusted certificates are used by the device to authenticate other servers and clients to which it needs to connect, and to secure those connections. Avigilon provides a self-signed Web Certificate to secure the connection to Server Management and to the WebEndpoint service, and a set of system-level signed certificates from well-known trusted Certificate Authorities (CAs) to ensure secure connections to any needed servers. Optionally, you can provide your own certificates and CAs.

The level of security provided by the certificates included with the device should be sufficient for any organization that does not deploy a Public Key Infrastructure (PKI) on its internal servers.

The certificate management feature on the appliance controls only the appliance web certificate used by Server Management and the ACC WebEndpoint product. Within the ACC server the certificate authorities configured by this feature are only used to validate secure email servers used by the ACC Email and Central Station Monitoring features. ACC Server to ACC Server and ACC Server to ACC Client connections are not controlled or validated using the appliance certificate management feature.

For example, if your organization uses a public email server such as Google Mail, when email notifications are triggered, the ACC software accesses the Google Mail server and receives a certificate identifying the Google Mail server. The ACC software verifies the certificate by confirming the CA that signed the Google Mail certificate is from the system-level list of well-known trusted CAs, and the connection is secured.



NOTE

The signed certificates shipped with the device are the same as those shipped with Mozilla's browser, and are publicly available from [The Debian Project](#). The certificates allow SSL-based applications to check for the authenticity of SSL connections. Avigilon can neither confirm nor deny whether the certificate authorities whose certificates are included with this appliance have in any way been audited for trustworthiness or RFC 3647 compliance. Full responsibility to assess them belongs to the local system administrator.

Organizations that deploy their own PKI can use the Certificates pane of Server Management to manage certificates on the device.

For example, you can:

- Replace the default self-signed Web Certificate with your own organization's certificate.
- Add CAs, such as internal CAs used within your organization, to the device.
- Disable (and enable) any of the system-level CA certificates.

Replace the Web Certificate

Manage the device's Web Certificate from the Web Certificate tab on the Certificates pane. Server Management and the WebEndpoint service use this certificate to authenticate themselves to devices that connect to them. Only one Web Certificate can be active at any time.

You can replace the default Web Certificate with a custom certificate.



IMPORTANT

When you reset the device to its factory settings (also known as a factory reset), you need to reload your custom certificate.

Obtaining a new Web Certificate is a three-step process:

1. Send the certificate issuer used by your organization a Certificate Signing Request (CSR) and the issuer will return you a new certificate file and private key file (typically by email). You can generate a CSR from the Web Certificate tab, or using the certificate issuer's preferred method if they do not accept the CSR from Server Management:
 - a. Open Server Management, click Device in the navigation bar, and scroll down to the Certificates pane.
 - b. On the Web Certificate tab, click the Certificate Signing Request button.
 - c. Fill in the standard CSR form with the information defined by the PKI you are using and click Generate.
The CSR file generated.csr is saved in your Downloads folder.
 - d. Send the file to your organization's certificate issuer.



TIP

If the certificate issuer does not accept the CSR, use the certificate issuer's preferred method to generate the CSR.

2. After you receive the .crt file containing the new certificate from the certificate issuer, save it to a location accessible to the device.
3. Upload the new certificate to the device:
 - a. Open Server Management, click Device in the navigation bar, and scroll down to the Certificates pane.
 - b. On the Web Certificate tab, click Upload.
 - c. In the Upload Web Certificate dialog, enter a name for the certificate, and click and navigate to the .crt file or drag and drop into the Drop '.crt' certificate (pem) file here or click to upload area.
 - If the certificate file was created with the most recently generated CSR file from Server Management, Upload is activated.
 - Otherwise, click and navigate to the .key file or drag and drop into the Drop '.key' private key (pem) file here or click to upload area. Upload is activated.



NOTE

If the certificate file (.crt) was created with a CSR generated by the certificate issuer's preferred method (or was not generated using the most recent CSR file on the device), repeat this step to upload the private key file.

- d. Click Upload.
4. On the Web Certificate tab, click on the name of the uploaded certificate to enable it. This also disables the previous certificate.

Upload a Trusted CA Certificate

Manage signed certificates from internal CAs deployed in your organization's internal servers from the User Certificate Authorities tab of the Certificates.

For example, an internal email server in an organization that deploys its own PKI may provide a certificate signed by a CA that is not in the set of well-known trusted CAs to the ACC software when it tries to access the mail server. The certificate cannot be verified unless a certificate signed by that CA is uploaded to the User Certificate Authorities tab of the Certificates pane.

If you are required to upload a signed certificate from a CA, complete the following steps:

1. Open Server Management, click Device in the navigation bar, and scroll down to the Certificates pane.
2. Click the User Certificate Authorities tab.
3. Click Upload.
4. In the Upload User Certificate Authority dialog, enter a name for the certificate, and click or drag and drop to upload the file. You can only upload one file at a time.

Upgrade the Firmware

Upgrade the firmware to ensure the ENVR1 Appliance is operating with the latest features and bug fixes. When you upgrade the firmware, all your current settings and all recorded video are retained.

Upgrade the firmware in any of the following ways:

- You can use Cloud Remote Site Upgrade from Avigilon Cloud Services to update:
 - the firmware on the ENVR1 Appliance,
 - the firmware on all other Avigilon servers, and
 - the ACC Client software on all network workstations

in the same site all at the same time.

A subscription to the Advanced System Health feature package is required. This is the Avigilon recommended way to quickly and efficiently complete site-level upgrades. Refer to the procedure for upgrading servers in a site in the Help files provided with Avigilon Cloud Services.

- You can use Remote Site Upgrade from an ACC Client connected to all of the ENVR1 Appliances in a site at the same time. Refer to the procedure for upgrading servers in a site in the Help files provided with the ACC Client.
- You can use the Server Management page, using the following procedure.

Before you can upgrade or reinstall the firmware with the Server Management page, download the latest version of the firmware (.fp) file from the Avigilon [Support Community](#).

From a workstation connected to the Internet:

1. Navigate to support.avigilon.com and search for the appropriate ENVR1 Appliance firmware.



NOTE

To download firmware you must have, or create an account and be logged into the Community.

2. Save the file to a location accessible to the Server Management client machine.

To upgrade the firmware from the Server Management page:

1. Navigate to the Device panel.

If necessary, scroll to show the Upgrade Firmware pane.

2. In the Upgrade Firmware pane, click on **Drop '.fp' file here or click to upload** and navigate to the location where the firmware package (.fp) file was saved.
3. Click **OK** to confirm you want to continue. An upload progress indicator appears. Wait while the file is uploaded and verified.



IMPORTANT

You can cancel a firmware upgrade that is in progress only during the upload and verification phase. Click **Cancel upload** before the file has uploaded.

After the file is verified, the firmware upgrade automatically starts. The device will reboot several times during the upgrade. The Web UI Communication Lost message appears while the device is rebooting. The process takes several minutes. When the device has rebooted, the connection to the Server Management page is restored in your web browser.



NOTE

If an error occurs during the upload phase or the upgrade process or if the firmware becomes corrupted, you are prompted to remove the file.

Using the Reset Button

The reset button is located at the front of the appliance and is the small unlabeled circle to the left of the System Status LED. For more information, see [Front View on page 2](#).

The reset button provides two functions:

- Restart the system — If the appliance encounters a system error, you can force it to restart.
- Restore the factory default settings — If the ACC software no longer functions as expected, you can reset the appliance to its factory default settings. All configuration settings and recorded data will be deleted.



NOTE

When you use the reset button, the appliance must be powered.

Restarting the System

- Using a straightened paperclip or similar tool, gently press and release the reset button.



CAUTION

Do not apply excessive force. Inserting the tool too far will damage the recorder and void the warranty.



IMPORTANT

Do not hold down the reset button for too long or you will revert to the factory default settings.

Restoring Factory Default Settings

If the ACC Server software no longer functions as expected or if you've forgotten your administrator password, you can reset the appliance to its factory default settings.



NOTE

Restoring to the factory default settings will delete all configuration settings, including any custom certificate you have installed, and recorded video. After the factory default settings are restored, you can restore the most recent system backup from before the functional problems started. You may also have to reload the custom certificate, and update the ACC Server software to the most recent release.

1. Using a straightened paperclip or similar tool, gently press and hold the reset button.

**CAUTION**

Do not apply excessive force. Inserting the tool too far will damage the recorder and void the warranty.

2. Do not release the button until the  LED is orange and starts to blink.

More Information & Support

For additional product documentation and software and firmware upgrades, visit support.avigilon.com.

For product user guides, visit the Downloads page: help.avigilon.com

Avigilon Workstations: avigilon.com/products/video-infrastructure/remote-monitoring

Technical Support

Contact Avigilon Technical Support at support.avigilon.com/s/contactsupport.

Limited Warranty

Avigilon warranty terms for this product are provided at avigilon.com/warranty.

Limited Warranty

Avigilon warranty terms for this product are provided at [avigilon.com/warranty](https://www.avigilon.com/warranty).