What is cnVision ?

cnVision[™] is Cambium Networks' new line of wireless backhaul products that are purpose built wireless solutions for video surveillance and CCTV market.

Typical Uses

Some common examples of the cnVision solution's flexibility and configuration options are ideal for wireless video-based surveillance implementations in environments such as parking lots, shopping centers, factories, farms and homes where a wired solution is not a viable option.



Hardware Overview

Hubs are aggregation point which connect to Clients over wireless. Camera feeds are given to Client hardware which transport video stream back to Hubs.



A view of cnVision Hub & Clients

Milestone-cnVision Integration - Solution Overview



The cnVision devices can be integrated with Milestone XProtect to display device statistics and to send event and alarm messages within the VMS consoles. This feature allows users to monitor device status and performance within the XProtect console instead of having to connect to each device individually.

cnVision user you can set up alarms to notify the user of key events such as when a new device is registered or removed from the system, or if it has been disconnected or rebooted, and so forth.

Integration Logic

cnVision Hub/client has a daemon on the device, VMS agent. VMS agent task is to communicate with Milestone VMS. Sample events given below for the reference,

- Client associates to Hub
- Hub rejects Clients
- Link up/down
- Software update status

When such event happens, VMS agent convert this information into XML format and sends to Milestone XProtect. As a prerequisites VMS type, address, port and credentials should be preconfigured in cnVision hub & clients.

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Milestone VMS configuration on cnVision Hub & Clients

Configuring cnVision Device in Milestone XProtect VMS

cnVision devices are manually configured in the Milestone XProtect Management Client. To configure devices, you will require the device username and password credentials.



1. Log in to the Management Client. Navigate to the **Servers** option and select **Recording Servers**.

2. Right-click on the Recording Server option to open the context menu. Click the **Add Hardware** option from the list.



3. The Add Hardware dialog box opens. Select from one of the available options. In this example, we will use the **Manual** option. Click the **Next** button to Continue.

Add Hardware			×
	Add Hardware		
+	This wizard helps you detect and set up hardware.		
	Hardware detection method:		
	 Express (recommended) Automatically detects hardware on the recording server's local network 		
	 Address range scanning Scans defined network address ranges and detects hardware models 		
	Manual Detects hardware models for manually entered IP addresses and host names		
milestone			
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4. Click the **Add** button to specify the user name and password for the device. These are credentials you have configured to log in to the cnVision device's Web User Interface (eg. admin, admin). Click the **Next** button to continue.

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5. Next, select the hardware devices by checking the respective boxes. The cnVision devices are ONVIF compliant. Click the **ONVIF** checkbox and click the **Next** button to continue.

Add Hardware			—		×
Select which drivers to use when scanning for hardware. The more drivers selected, the slower the scanning.				milesto	ne
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6. The system will scan the network to detect the device.

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7. The status message will display the results. In case of failure, check and confirm the IP address and the port number is entered correctly. Click the **Next** button to continue.

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8. The system detects cnVision devices as Cameras. Click the box next to the Camera item to enable the device.

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9. The device is added to the **Default camera group**. Click the **Finish** button to continue.

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10. The device has been added and is now displayed in the Recording Server pane.

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Configuring Event Messages in Milestone XProtect VMS

Configuring Event Messages

1. Log in to the Milestone XProtect Management Client. Navigate to the **Analytics Events** option under the **Rules and Events** section in the left navigation pane.

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2. Right-Click on the **Analytics Events** item to open the context menu. Click the **Add New** menu item to add a new Event Message.



3. Enter the **name** and **description** for the new Event in the Properties pane. Next, the Event messages have to be linked to Alarms.

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Linking Event Messages to Alarms

1. Navigate to the Alarm Definitions option under the Alarms section.

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- 2. Right-click on the Alarms Definitions to open the context menu. Click the Add New menu item.

3. Configure the parameters in the Properties pane for the new Alarm. Enter a **name** for the Alarm.

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4. Select the tagging event from the list (Analytics Events).

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5. Next, select the trigger event from the list (the new Event created earlier).

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6. Next, click the **Select** button to choose the source that is going to send this Event trigger (cnVision device).

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7. Expand the list and select the device from the list. Click the **Add** button and then the **OK** button to continue.

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8. Click the **Save** button to save the settings. Repeat these steps to create Events and link them to Alarms.

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The new Alarm should display in the VMS when triggered by the device.

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Configuring Device Statistics Tile in Milestone XProtect VMS

- 1. From the VMS Integration screen, click the **Generate Link button** to generate a preview link.
- 2. Select and copy the link.

	-
VMS integration	VMS address
	10.120.223.6
	VMS Port 0
	9090
	min: 1 max: 65535
	VMS Username
	admin
	VMS Pasoword 0
	VMS Preview Link
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Version CNV-4.5.1	VMS Preview Link
Support	http://10.120.223.21/vms.html?=b5ec9cd5a9fb8f6e1a24dbcb59b225e4
Community Forum	

3. Log in to the Milestone XProtect Smart Client application. Navigate to the HTML Page.

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4. The Open URL dialog box opens. Paste the device's URL link copied earlier.

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5. Click the **OK** button to save the settings.

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Femporary2 Shortcut: Set System Overview	Enter the URL or path to an HTML page on the Internet, your computer, or your network that you want to display. Open:

The new cnVision device should be available under the HTML Page option. Double-click to launch the device tile.