



## INTEGRITI CISCO CCTV PLUGIN



**INNER RANGE recommends that all Inner Range systems be installed & maintained by FACTORY CERTIFIED TECHNICIANS.**

**For a list of Accredited Dealers in your area refer to the Inner Range Website.**

**<http://www.innerrange.com>**

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# *Integrati Cisco CCTV Integration Manual*

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## CCTV Capabilities

Capabilities	Cisco
Stream Live Video	✓
Stream Historical Video	✓
Pop-Up Live Streaming Video from Alarm/User Events in Real-Time	✓
Associate Cameras with Entities (Doors, Users etc)	✓
Access Recorded Video Information Based on Review Events	✓
Retrieve Number of Connected Cameras	✓
Retrieve Camera Names	✓
Control Physical PTZ Cameras	✓
Control Digital Software PTZ Cameras	✓
Send PTZ Cameras to Pre-Set Positions	✓
Drag and Drop Cameras Onto Floor Plans	✓
Send Alarms or Events to the CCTV System	✗
Receive Alarms or Events from the CCTV System	✓
Sync CCTV System Time (Direct or via NTP)	✓
Display Video Frame Times	✓
Control Playback Speed / Direction	✓
Enable On-Screen Display Information	✓
Display Historic Video According to Adjustable Pre-Event Timer	✓
Stream Audio with Video	✓
Send Audio from Client Workstation to CCTV System	✗
Display CCTV System and Device Status	✓

**NOTE:** Support for any feature listed above may be model or version specific – further consultation with Inner Range and the CCTV manufacturer is highly recommended.

## **Integriti Cisco CCTV Plugin Compatibility**

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### **Required Integriti Version License**

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Integriti Pro/Infiniti v20 license

### **Minimum Installed Integriti Version**

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Integriti Pro/Infiniti v19.0 or higher

### **Licensing Requirements**

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Integriti CCTV integrations require 1 CCTV camera license per Camera to be used in the system. Any Cameras that are unlicensed will still show up in Integriti, however will not be able to be used.

### **Tested Against**

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The Integriti Cisco CCTV plugin was built and tested against the following versions of software:


- Cisco VSM v7.8

## Installation/Updating

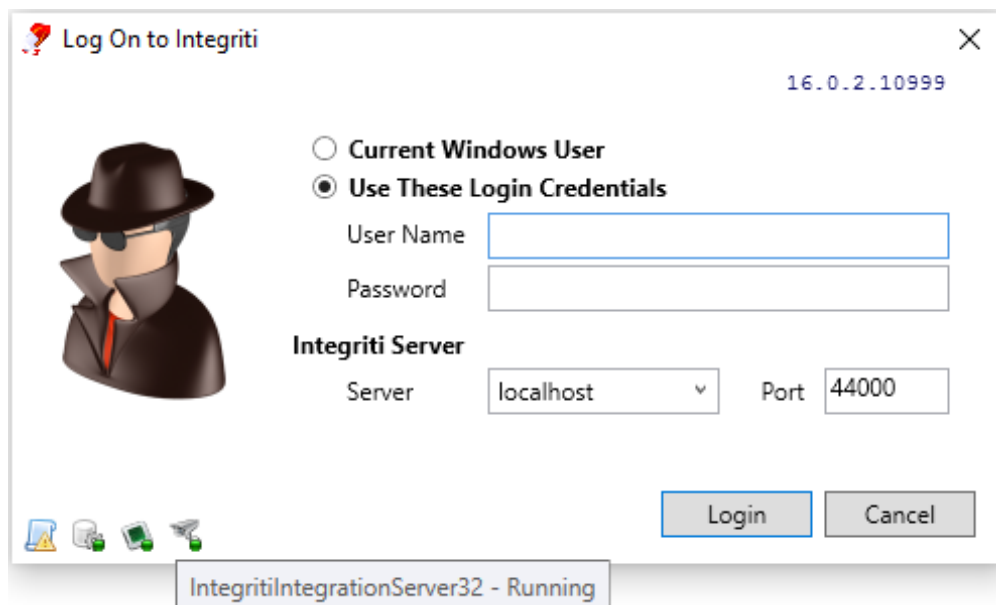
**NOTE:** When installing multiple Integriti Integration Plugins, the plugin with the highest build number should be installed last. The build number can be found in brackets in the file name of the installer for the plugin.

Close all instances of the Integriti software suite and stop the Integriti Integration Server service.

Download and run the plugin installer on the server and client workstations.

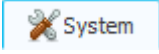

 Integriti\_CCTV\_Cisco\_Plugin\_X.X\_(XXXXXX).exe

After the installation has completed, you will need to restart the Integration Server service. On the Integriti server, start the Integriti System Designer as an administrator. Click Integration service icon on the bottom left of the login dialog to stop and start the service.

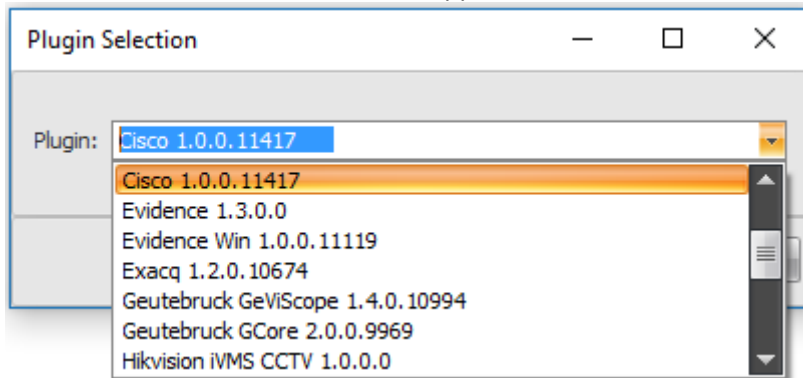


## Enrolment

### To enrol a Cisco CCTV Server

1. Click on the  System tab followed by  New Integrated Device.

2. Select Cisco CCTV from the list that appears and click .

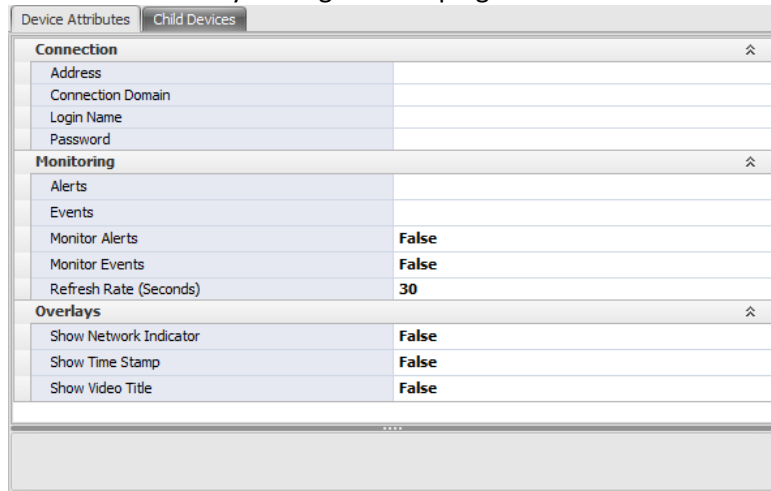


3. In the editor window that appears, give the new CCTV Recorder a name.

4. Tick  **Maintain Persisted Connection** above the **Device Attributes** tab if events are to be received the Cisco server.

5. Select the Integriti Integration server that will be used for the integration.

6. Enter the necessary settings for the plugin.



## Device Attributes

### Connection

- *Address* – The IP Address of the Server to connect to.
- *Connection Domain* – The Domain to use when creating a connection to the selected Cisco server with the given User.
- *Login Name* – The Username of the Cisco User to connect to the Server with. This User should have sufficient permissions configured in Cisco to allow all of the features of the plugin to be used.
- *Password* - The Password of the Cisco User to connect to the Server with.

### Monitoring

- *Alerts* – Allows the types of Alerts received from the Server to be filtered based on alert type. Select the alert types to be monitored from the dropdown list.
- *Events* – Allows the types of Events received from the Server to be filtered based on event type. Select the event types to be monitored from the dropdown list.

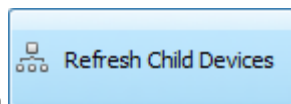
- *Monitor Alerts* – Set to true to enable monitoring of Alerts from the connected Server. Only Alerts of types selected in the 'Alerts' property will be monitored. Alerts will only be received when 'Maintain Persisted Connection' is selected.
- *Monitor Events* – Set to true to enable monitoring of Events from the connected Server. Only Events of types selected in the 'Events' property will be monitored. Events will only be received when 'Maintain Persisted Connection' is selected.
- *Refresh Rate (Seconds)* – Select the frequency (in seconds) to check for new alerts and events from the Cisco server. On larger systems this should not be set to a larger value to prevent extra strain on the network.

**Overlays**

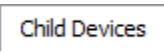
- *Show Network Indicator* – Set to true to add an overlay containing a network indicator for the current stream to any video streams opened for child Cameras of this Recorder.
- *Show Time Stamp* – Set to true to add an overlay containing the timestamp of the currently streaming video to any video streams opened for child Cameras of this Recorder.
- *Show Video Title* - Set to true to add an overlay containing the title of the currently streaming video to any video streams opened for child Cameras of this Recorder.






**Child Devices**

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7. Click on .

After a short wait, a list of all of the cameras configured in the selected CCTV Server will be added to the  tab.

Db Object	Notes
	
>  <a href="#">AUTODOME IP 4000 HD (192.168.10)</a>	
 <a href="#">DS-2DF5284-A(20851)</a>	
 <a href="#">KCM5311-11F-X-00052(63747:2)</a>	
 <a href="#">KCM5311-11F-X-00052(63747:1)</a>	

8. You can optionally add notes next the child devices.
9. Save and close the editor window for the new integrated CCTV device.


## Events

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### Receiving Events

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In the Integriti System Designer software:

1. Create and configure a Cisco CCTV Recorder as described in [Enrolment](#).
2. Ensure that 'Monitor Events' is set to true and  is ticked.
3. Select the types of events to be received in 'Events'.
4. Upon saving the Cisco CCTV Recorder, Review Messages will be automatically generated for any event that occurs in the Cisco Server of any event types selected in 'Events'.


CCTV events will appear as an 'Integration' type with the source being the Integriti integration server and the text prepended by '[Cisco]'.

e.g. "CCTVServer32: IntegritiIntegrationServer32@YOURINTEGRITISERVER"

### Receiving Alarms

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In the Integriti System Designer software:

1. Create and configure a Cisco CCTV Recorder as described in [Enrolment](#).
2. Ensure that 'Monitor Alarms' is set to true and  is ticked.
3. Select the types of events to be received in 'Alarms'.
4. Upon saving the Cisco CCTV Recorder, Review Messages will be automatically generated for any alarm that occurs in the Cisco Server of any alarm types selected in 'Alarms'.

CCTV alarms will appear as an 'Integration' type with the source being the Integriti integration server and the text prepended by '[Cisco]'.

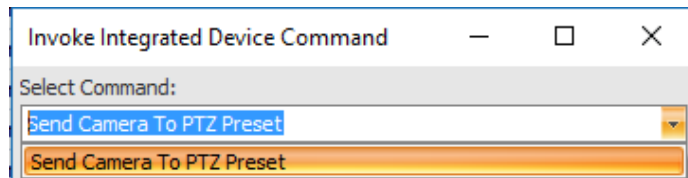
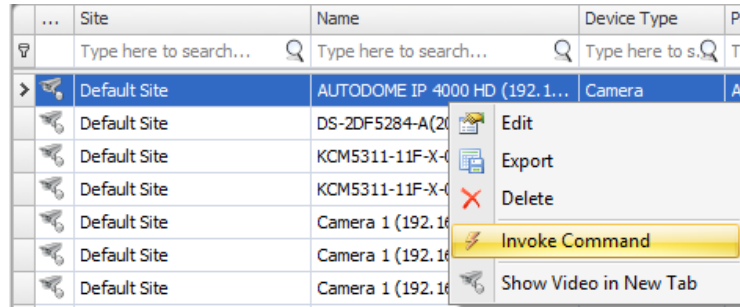
e.g. "CCTVServer32: IntegritiIntegrationServer32@YOURINTEGRITISERVER"



## Invoking Commands

### Invoking Commands on Cisco Cameras

To perform a command on a camera in the Cisco System through the Integriti software select 'Invoke Command' from the context menu on a CCTV Camera for the selected server.



From the Device Command window that appears, select the required command from the dropdown box:

**Send Camera To  
Ptz Preset**

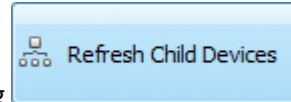
Sends the selected Camera to the PTZ Preset with the 'PTZ Id' given.

The selected Camera must be online at the time the command is sent and have a PTZ Preset configured with the given Id for this command to work.

## Viewing Video from CCTV Camera

### Viewing Live Video on a Connected CCTV Camera

1. Create and configure the Cisco CCTV Recorder as described in [Enrolment](#).



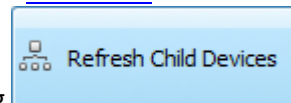
2. Retrieve child Cameras from the selected server by selecting in the CCTV Recorder. The Camera to view video from must be configured correctly for streaming video on the Cisco server.
3. Select 'Show Video in New Tab' from the context menu on the CCTV camera to view video from.

...	Site	Name	Device Type
	Type here to search...	Type here to search...	Type here to s...
>	Default Site	AUTODOME IP 4000 HD (192.1...	Camera
	Default Site	DS-	Edit
	Default Site	KCM	Export
	Default Site	KCM	Delete
	Default Site	Can	Invoke Command
	Default Site	Can	Show Video in New Tab
	Default Site	Can	

4. The live video stream for the selected camera will then be shown in a new tab.

### Associating Entities With a CCTV Camera

1. Create and configure the Cisco CCTV Recorder as described in [Enrolment](#).




2. Retrieve child Cameras from the selected server by selecting in the CCTV Recorder. The Camera to view video from must be configured correctly on the Cisco server.
3. Close the editor for the CCTV Recorder and open the editor for the CCTV Camera to associate with Integrati Entities.
4. Under **Associated Entities**, click on the **Add** button.
5. From the window that appears, select the Entities to associate with the CCTV Camera.
6. Save and close the window.

### Viewing Archived Video From a Review Event

If any of a Review Message's Entities have associated cameras, it is possible to view archived video from the time of the Review Message by right clicking the selected Review message and selecting .

It is also possible to view CCTV footage for Review Messages from the CCTV Plugin, if the event comes from a Camera in the CCTV System, by following the steps above.

18/03/2013 1:51:53 PM	Door 1 Lock Off by R&D (Door Logic) (R01:X01)	Details...
18/03/2013 1:51:53 PM	R&D Locked by (Door Logic) (D001)	Show CCTV Footage
18/03/2013 1:51:48 PM	Door 1 Lock On by R&D (Door Logic) (R01:X01)	Edit RD (D1)...
18/03/2013 1:51:48 PM	R&D Timed Unlocked for 00005 secs by R&D Readers	Edit Darryl Hammitt (U3)...
18/03/2013 1:51:48 PM	Darryl Hammitt Card Access at R01:Rdr01 into R&D	

Upon selecting  on a valid Review Message, the archived video stream of all Cameras associated with any of the Entities in the Review Message will start playing in a new tab at the time that the Review Message occurred minus the [Review Playback Buffer](#) for the selected Camera.

## Configuration

### Review Playback Buffer

The Review Playback Buffer allows the amount of time prior to an event occurring to start playing archived video footage for a camera when viewing CCTV footage for a Review Message. This allows the lead-up to the event to be shown, as well as the event itself. The Review Playback Buffer can be set in the following places, with each having different scopes:

- CCTV Camera – From the editor for a CCTV Camera (accessed by double clicking on the desired camera) it is possible to set the Review Playback Buffer on a per camera basis.



Check  Override Site Default Setting to use the value entered instead of the default value for the Site.

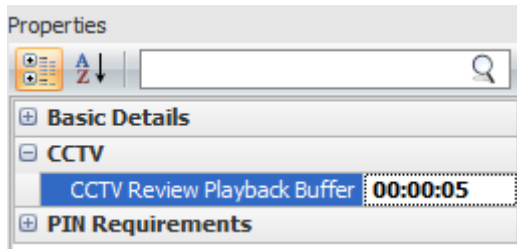
- CCTV Recorder – From the editor for a CCTV Recorder (accessed by double clicking on the desired recorder) it is possible to set the Review Playback Buffer for all child cameras of the selected Recorder.



Check  Override Site Default Setting to use the value entered instead of the default value for the Site.

The selected Review Playback Buffer will be used for all child Cameras of the selected Recorder that do not have  Override Site Default Setting checked.

- Site Properties – From the editor for the Site Properties of a Site (accessed by double clicking on the desired Site) it is possible to set the Review Playback Buffer for all Cameras in the selected Site.



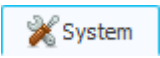

The selected Review Playback Buffer will be used for all Cameras in the selected Site that do not have a  Override Site Default Setting checked in its parent Recorder or in the Camera itself.

A Review Playback Buffer set from Site Properties will apply to any sub-sites of the selected Site, unless said Site has a Review Playback Buffer explicitly set.

To set the same Review Playback Buffer for all Cameras in an Integriti system with  Override Site Default Setting unchecked, the Review Playback Buffer of the top-level site can be set.

### Disabling CCTV Cameras

Once a CCTV Recorder has been enrolled, and Child Cameras retrieved from the server, not all of the Cameras may be required. As enabled Cameras take up Camera licenses it is possible to disable cameras through the following steps:

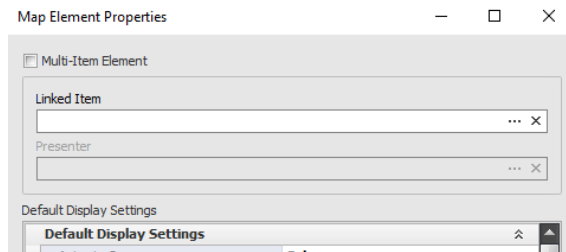
1. Click on the  System tab followed by  CCTV Cameras .

2. Double click the CCTV Camera to be disabled. The editor window for the CCTV Camera should appear.
3. Click on  **Disable Device** to check the checkbox and disable the selected CCTV Camera.
4. Save and close the editor window and the CCTV Camera will be disabled.

NOTE: Disabled CCTV Cameras cannot be used, and must be re-enabled (by unchecking  **Disable Device** in the CCTV Camera) before they can be used again.

## Adding CCTV Cameras to Schematics

1. In Integriti System Designer double click on the Schematic Map to add the desired CCTV Camera/s to. The editor window for the Schematic should appear.
2. Select  **Icon** from the bar at the top of the screen and click on the map at the desired location of the CCTV Camera to add a new icon to the Schematic at the selected location. The Map Element Properties window should appear.



3. Select  in the  property to select the Camera to add to the Schematic. The Find Entity window should appear.
4. From the left hand side of the Find Entity window select  **Cameras** to filter the list down to show only Cameras.

### Find Entity

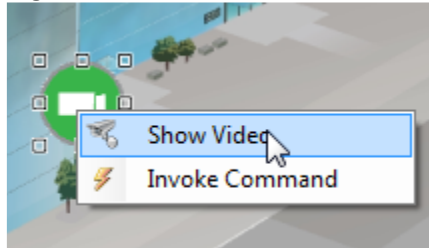
List Filters	...	Site	Name	Device Type
<input checked="" type="radio"/> Cameras	<input type="text"/>	Type here	Type here to sear.	Type here
<input type="radio"/> Intercom Points	<input type="checkbox"/>	Default Site	Camera 1 (192.16...	Camera
<input type="radio"/> Integrated Devices	<input type="checkbox"/>	Default Site	Camera 1 (192.16...	Camera
	<input type="checkbox"/>	Default Site	AUTODOME IP 40...	Camera

5. From the list of CCTV cameras available in the system, select the Camera to add to the Schematic and select  **OK** to close the Find Entity window.
6. Select  **OK** again in the Map Element Properties window to finish adding the selected Camera to the map.
7. Move and resize the newly added icon (  ) for the selected CCTV Camera to the desired location and size.
8. Save and close the editor for the Schematic.

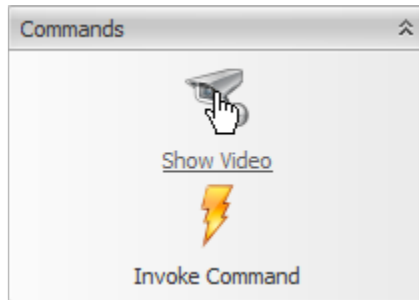
Upon being added to a Schematic, the icon for the CCTV camera will allow for the following in the Schematics Map:

- If [CCTV Device State monitoring](#) is enabled, the live state of the camera will be shown on the map through different coloured icons, as well as a text description when the icon is clicked on.
- Live video for the CCTV camera can be shown through one of the following two approaches:

- Right click on the icon for the Camera and select Show Video.



- Click on the icon for the Camera then click on Show Video in the Commands toolbox.



- Invoking one of the available commands for the selected Camera.

## Troubleshooting

<p><b>Plugin doesn't appear in 'New Integrated Device' List</b></p>	<p>Restart the Integriti Integration Server and restart any instances of Integriti System Designer or Integriti Gatekeeper open on the computer experiencing the problem</p>
<p><b>Live video not streaming from camera</b></p>	<ul style="list-style-type: none"> <li>• Does the computer attempting to stream the video meet Cisco's minimum specification requirements (See <a href="http://www.cisco.com/c/en/us/td/docs/security/physical_security/video_surveillance/network/vsm/7_8/workstation/vsm_7_8_workstation_specs.html#pgfid-44462">http://www.cisco.com/c/en/us/td/docs/security/physical_security/video_surveillance/network/vsm/7_8/workstation/vsm_7_8_workstation_specs.html#pgfid-44462</a>)</li> <li>• Is the camera is correctly configured in the Cisco server?</li> <li>• Can live video be viewed from the Cisco software?</li> <li>• Does the logged in Cisco User have sufficient permissions for viewing live video?</li> </ul>
<p><b>Archived video not streaming from camera</b></p>	<ul style="list-style-type: none"> <li>• Is the camera is correctly configured in the Cisco server?</li> <li>• Can archived footage be viewed on the Cisco server for the selected time (and does archived footage exist at the selected time)?</li> <li>• Does the logged in Cisco User have sufficient permissions for viewing archived video?</li> </ul>
<p><b>Archived video going to the wrong time</b></p>	<ul style="list-style-type: none"> <li>• Does archived footage exist at the selected time?</li> <li>• Is the time the same on both the Cisco server and the client computer viewing archived video from?</li> </ul>