integriti▦
INTEGRATED SOLUTIONS

INTEGRITI GENETEC CCTV INTEGRATION MANUAL

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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Integriti Genetec CCTV Integration

Table of Contents

CCTV Capabilities

Core CCTV Capabilities

Feature	Feature Description	Ver	Y/N
Stream Live CCTV Footage	Live CCTV footage can be streamed from online cameras in the CCTV system to an Integriti client.	18	✔
Select Custom Aspect Ratio	Select the aspect ratio to use when streaming CCTV footage on a per-camera or per-recorder basis.	18	✔
Stream Archived CCTV Footage	Archived CCTV footage can be streamed from online cameras in the CCTV system to an Integriti client.	18	✔
Control Archived CCTV Playback Speed	Playback speed of archived CCTV footage can be controlled from the Integriti client.	18	✔
Auto-Play CCTV Footage from Events	Live or archived CCTV footage can be configured to be automatically displayed when an event occurs in the Integriti System on a specific client workstation.	18	✔
Create Child Devices from Camera Configuration	Child CCTV Cameras will be created based on the Camera configuration on Refreshing Child Devices	18	✔
Associate Cameras With Entities	Cameras loaded from the CCTV system can be associated with Integriti Entities to allow direct control of one from the other.	18	✔
Show Associated CCTV From Event	Associated CCTV Footage can be directly accessed and viewed from any event occurring in Integriti that has an associated Camera (either a direct association or through the Entity that triggered the event)	18	✔
Control PTZ Cameras	Send PTZ commands to support cameras on the CCTV system to control the Pan, Tilt and Zoom of the camera directly from the video stream.	18	✔
Send Cameras to PTZ Preset	Send supported PTZ cameras on the CCTV system to preconfigured PTZ presets directly from the video stream.	18	✔
Digital PTZ Control	Digitally zoom the CCTV stream's image for non-PTZ cameras and archived footage.	18	✔
CCTV Layouts	Store a collection of Cameras with an specific viewer layout to be brought up at a later point in time	20	✔

Feature	Feature Description	Ver	Y/N
CCTV Surrounding Cameras View	Show a selected camera, as well as the cameras configured to be N, NE, E, SE, S, SW, W and NW of the selected camera, quickly jumping between surrounding streams directly from the view.	20	✔
Trigger Actions in the CCTV System	Trigger actions or commands in the CCTV system directly from Integriti.	18	✔
View and Control Cameras on Schematics	Cameras can be added to Schematics Maps in Integriti and directly viewed and controlled directly from the Schematic. Each camera's state is immediately visible on the Schematic where available.	18	✔
Sync Time (via NTP)	Sync the time of the CCTV system and Integriti to match via an NTP.	18	✔
Display Connection Status to CCTV System	Display whether or not Integriti is currently connected to the CCTV system.	18	✔
Receive Events/Alarms from the CCTV System	Log events/alarms occurring on the CCTV system to Integriti's Review.	18	✔
Trigger Integriti Actions on CCTV Events/Alarms	Trigger actions to automatically occur in Integriti whenever specific events/alarms are received from the CCTV system.	18	✔
Generate Alerts from CCTV Events/Alarms	Automatically generate and restore Alerts tied to a specific Camera in Integriti whenever specific events/alarms are received from the CCTV system.	19	✔

Advanced CCTV Capabilities

Feature	Feature Description	Ver	Y/N
Automatically Load Camera Configuration	Refreshing Child Devices will automatically populate all cameras configured in the CCTV System into Integriti when run. If not supported, camera configuration will need to be manually entered into Integriti.	18	✔
64-bit Integration Server Support	The integration supports being run on the 64-bit integration server.	18	✔
Show Camera Status	The current online/offline status of configured cameras will be visible directly through Integriti.	18	✔
Categorised Review Records	Review generated by the integration will have a different category for different event types, allowing for easy filtering of specific CCTV events	19	✔
License Plate Recognition	License plates recognised by supported cameras in the CCTV system can be used to automatically allow access to configured Doors.	18	✔
Trigger Inputs on CCTV Event	Inputs in Integriti can be automatically triggered and restored when specified types of events are received from the CCTV system.	19	✔
Control Iris and Focus	Control the iris and focus of supported cameras on the CCTV system directly from the video stream	18	✔
Control PTZ Tours	PTZ Tours can be started and stopped directly from the video stream.	18	✔
Display Video Frame Times	When viewing archived CCTV footage, the time of the current frame will be displayed on the viewer control.	18	✔
Show On-Screen Display	Enable additional information (such as camera name and current playback time) to be displayed as an overlay on video streams.	18	✘
Reverse Playback	When viewing archived CCTV footage, the footage can be played in reverse.	18	✔
Step Forward/Backward	When viewing archived CCTV footage, the footage can be stepped through one frame at a time.	18	✔
Export CCTV Clips	Export video clip of archived CCTV footage to the Evidence Vault or to a file directly from Integriti.	19	✔

Feature	Feature Description	Ver	Y/N
Export CCTV Snapshots	Export still snapshot of archived CCTV footage to the Evidence Vault or to a file directly from Integriti.	19	✖
Export Current Frame	Export still snapshot of the current frame in the CCTV Viewer to the Evidence Vault or to a file directly from the CCTV Viewer.	20	✔
Stream Audio With Video	Receive audio from the microphone on a supported CCTV camera through an Integriti client workstation	18	✔
Send Audio to CCTV Camera	Send audio from an Integriti client workstation out of the speakers on a supported CCTV camera.	18	✖

Integriti Genetec CCTV Integration Compatibility

Required Integriti Version License

The Integriti Genetec CCTV Integration requires an Integriti Pro/Infiniti v22 license or higher to be present on the product key running the integration.

Minimum Installed Integriti Version

The Integriti Genetec CCTV integration is only compatible with an installation of Integriti Pro or Infiniti that is v22.1 or higher.

Integriti Licensing Requirements

Integriti CCTV Integrations require Integriti Business or Integriti Corporate Software Edition.

For Integriti Business, one CCTV License is required per camera to be used in the system. Integriti Business supports 32 Cameras initially, and additional cameras can be added in lots of 8 using the 996921 CCTV - Extra 8 Cameras license. Any unlicensed Cameras will still show up in Integriti; however, they will not be useable.

For Integriti Corporate, unlimited cameras are supported with no additional licenses required.

Genetec Licensing Requirements

Use of the Integriti Genetec CCTV plugin requires that the Genetec Security Centre license has at least 2 Integriti certificates (part number 'GSC-1SDK-INNERRANGE-Integriti') for a connection to be possible.
Genetec licensing requires 1 Integriti certificate for each Integriti Integration server instance that will be connecting the Genetec server, and 1 Integriti certificate for each Integriti client that will be streaming video from the Genetec server.
Please talk to your Genetec distributor for more details on adding Integriti certificates to a Genetec Security Centre license.

Tested Against

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

- Genetec Security Center v5.11.2.0 (2092.13)

Configuration

This section specifies the Genetec CCTV Integration specific configuration details. Please refer to the 'Integriti Integrations – CCTV' manual for a detailed description on how to fully configure and use CCTV integrations in Integriti/Infiniti.

Ports Used

The following ports are used for communication between the Integriti Genetec CCTV Integration and the Genetec server. These ports should be configured in the Integriti Integration Server and any Integriti Client Machine's firewalls to allow the integration to be used.

- TCP port 5500 (or an alternative specified in Connection Configuration)
- TCP port 560 (used by the Security Center SDK)
- UDP port 6000 (used by the Security Center SDK)

Connection Configuration

Configuration	
∨ Integration Configuration	Admin@192.168.140.204
∨ Connection	
Address	192.168.140.204
Login Name	Admin
Password	********
Connection Port	0
Certificate Validation Mode	Specified Thumbprint
Certificate Thumbprint	F85081ADB5B9096D0A0F83D5D0F0F5BA5F384F6F
∨ Logging	
Log Verbosity	Warning
∨ Monitoring	
Entity Types To Monitor	Access Point, Access Rule, Alarm, Application, Area, Camera, Card-...
∨ Export	
Export Video Format	.mp4
Export Audio	✓
Export Frame Format	.jpeg

Connection

Address – The IP Address of the Server to connect to.
Login Name – The Username of the Genetec User to connect to the Server with. This User should have sufficient permissions configured in Genetec to allow all of the features of the plugin to be used.
Password – The Password of the Genetec User to connect to the Server with.
Connection Port – Specify the Genetec CCTV Server Port, or 0 to use its default port number of 5500.
Certificate Validation Mode – If connecting to a server with a self-signed or otherwise untrusted directory certificate is desired, specify how to validate the certificate.
Certificate Thumbprint – If Certificate Validation Mode is set to Specified Thumbprint, specify the expected certificate thumbprint as a hexadecimal SHA-1 hash.

Logging

Log Verbosity – Only logs of the specified level or higher will be logged. If Warning is selected, only Warning, Error and Fatal logs will be written to the log.

Monitoring

Entity Types to Monitor – Allows the types of events received from the server to be filtered based on the type of entity triggering them. Select the entity types to be monitored from the dropdown list.

Export

Export Video Format – Select the format to export footage of child devices of this Recorder in. Select .g64x or .g64 to save a Genetec archive, or select .mp4 or .asf to convert the video.
Export Audio – Specify whether to include audio in converted video.
ASF Profile – When converting to .asf format, select the quality and bit rate profile.
Show Timestamp – When converting to .asf format, select whether to display the timestamp in the video.
Show Camera Name – When converting to .asf format, select whether to display the camera name in the video.
Export Frame Format – Select the format to export video frames of child devices of this Recorder in.

Commands

CCTV Recorder Commands

The following commands can be performed on a CCTV Recorder:

`Trigger Custom Event`	Select a preconfigured event from the drop down menu.
`Trigger Alarm`	Select a preconfigured alarm from the drop down menu.

Note: The events/alarms to be triggered must be preconfigured in Genetec Security Center and retrieved in Integriti by executing the "Refresh Device" function.

CCTV Camera Commands

The following commands can be performed on a CCTV Camera:

`Send Camera To PTZ Preset`	Send the selected Camera to the PTZ Preset with the Id specified by 'Ptz Id'.
`Run PTZ Pattern on Camera`	Send the selected Camera to the PTZ Pattern with the Id specified by 'Ptz Id'.

Troubleshooting

Plugin doesn't appear in 'New Integrated Device' List	• Restart the Integriti Integration Server and restart any instances of Integriti System Designer or Integriti Gatekeeper open on the computer experiencing the problem
Login fails with 'Directory Certificate Not Trusted'	• The thumbprint of the directory certificate received from the server can be checked in the Integriti logs. • If connecting to a server using a self-signed or otherwise untrusted certificate is desired, set Certificate Verification Mode to Specified Thumbprint and specify the expected certificate thumbprint. • The directory certificate may also be examined or accepted by using a Security Center client application.
Login fails with 'Invalid Version'	• The server must be configured to allow connections from Security Center SDK version 5.9.
Login fails with 'The specified client certificate registration exceeded the limit allowed by your Security Center license'	• Ensure your license allows for all connections used by Integriti. • Opening the video viewer on an Integriti client while a persisted connection is active on the Integriti server requires an additional SDK connection.
Live video not streaming from camera	• Is the camera is correctly configured in the Genetec server? • Can live video be viewed from the Genetec software? • Does the logged in Genetec User have sufficient permissions for viewing live video?
Archived video not streaming from camera	• Is the camera correctly configured in the Genetec server? • Can archived footage be viewed on the Genetec server for the selected time (and does archived footage exist at the selected time)? • Does the logged in Genetec User have sufficient permissions for viewing archived video?
Incorrect PTZ preset and tour names are shown	• After changing PTZ presets and tours, it is necessary to execute Refresh Child Devices to update cached data.
Archived video going to the wrong time	• Does archived footage exist at the selected time? • Is the time the same on both the Genetec server and the client computer viewing archived video from?