



INTEGRITI EVIDENCE WIN 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>

Integrati Evidence Win CCTV Integration Manual

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CCTV Capabilities

Core CCTV Capabilities

Feature	Feature Description	Y/N
<i>Stream Live CCTV Footage</i>	Live CCTV footage can be streamed from online cameras in the CCTV system to an Integriti client.	✓
<i>Select Custom Aspect Ratio</i>	Select the aspect ratio to use when streaming CCTV footage on a per-camera or per-recorder basis.	✓
<i>Stream Archived CCTV Footage</i>	Archived CCTV footage can be streamed from online cameras in the CCTV system to an Integriti client.	✓
<i>Control Archived CCTV Playback Speed</i>	Playback speed of archived CCTV footage can be controlled from the Integriti client.	✓
<i>Auto-Play CCTV Footage from Events</i>	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.	✓
<i>Create Child Devices from Camera Configuration</i>	Child CCTV Cameras will be created based on the Camera configuration on Refreshing Child Devices	✓
<i>Associate Cameras With Entities</i>	Cameras loaded from the CCTV system can be associated with Integriti Entities to allow direct control of one from the other.	✓
<i>Show Associated CCTV From Event</i>	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)	✓
<i>Control PTZ Cameras</i>	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.	✓
<i>Send Cameras to PTZ Preset</i>	Send supported PTZ cameras on the CCTV system to preconfigured PTZ presets directly from the video stream.	✓
<i>Digital PTZ Control</i>	Digitally zoom the CCTV stream's image for non-PTZ cameras and archived footage.	✓
<i>CCTV Layouts</i>	Store a collection of Cameras with an specific viewer layout to be brought up at a later point in time	✓

<i>CCTV Surrounding Cameras View</i>	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.	✓
<i>Trigger Actions in the CCTV System</i>	Trigger actions or commands in the CCTV system directly from Integriti.	✓
<i>View and Control Cameras on Schematics</i>	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.	✓
<i>Sync Time (via NTP)</i>	Sync the time of the CCTV system and Integriti to match via an NTP.	✓
<i>Display Connection Status to CCTV System</i>	Display whether or not Integriti is currently connected to the CCTV system.	✓
<i>Receive Events/Alarms from the CCTV System</i>	Log events/alarms occurring on the CCTV system to Integriti's Review.	✓
<i>Trigger Integriti Actions on CCTV Events/Alarms</i>	Trigger actions to automatically occur in Integriti whenever specific events/alarms are received from the CCTV system.	✓
<i>Generate Alerts from CCTV Events/Alarms</i>	Automatically generate and restore Alerts tied to a specific Camera in Integriti whenever specific events/alarms are received from the CCTV system.	✓

Advanced CCTV Capabilities

Feature	Feature Description	Y/N
<i>Automatically Load Camera Configuration</i>	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.	✓
<i>64-bit Integration Server Support</i>	The integration supports being run on the 64-bit integration server.	✓
<i>Show Camera Status</i>	The current online/offline status of configured cameras will be visible directly through Integriti.	✓
<i>Categorised Review Records</i>	Review generated by the integration will have a different category for different event types, allowing for easy filtering of specific CCTV events	✓
<i>License Plate Recognition</i>	License plates recognised by supported cameras in the CCTV system can be used to automatically allow access to configured Doors.	✓
<i>Trigger Inputs on CCTV Event</i>	Inputs in Integriti can be automatically triggered and restored when specified types of events are received from the CCTV system.	✓
<i>Control Iris and Focus</i>	Control the iris and focus of supported cameras on the CCTV system directly from the video stream	✓
<i>Control PTZ Tours</i>	PTZ Tours can be started and stopped directly from the video stream.	✗
<i>Display Video Frame Times</i>	When viewing archived CCTV footage, the time of the current frame will be displayed on the viewer control.	✓
<i>Show On-Screen Display</i>	Enable additional information (such as camera name and current playback time) to be displayed as an overlay on video streams.	✗
<i>Reverse Playback</i>	When viewing archived CCTV footage, the footage can be played in reverse.	✓
<i>Step Forward/Backward</i>	When viewing archived CCTV footage, the footage can be stepped through one frame at a time.	✓
<i>Export CCTV Clips</i>	Export video clip of archived CCTV footage to the Evidence Vault or to a file directly from Integriti.	✓

<i>Export CCTV Snapshots</i>	Export still snapshot of archived CCTV footage to the Evidence Vault or to a file directly from Integriti.	✘
<i>Export Current Frame</i>	Export still snapshot of the current frame in the CCTV Viewer to the Evidence Vault or to a file directly from the CCTV Viewer.	✔
<i>Stream Audio With Video</i>	Receive audio from the microphone on a supported CCTV camera through an Integriti client workstation	✘
<i>Send Audio to CCTV Camera</i>	Send audio from an Integriti client workstation out of the speakers on a supported CCTV camera.	✘

Integrati Evidence Win CCTV Integration Compatibility

Required Integrati Version License

The Integrati Evidence Win CCTV Integration requires an Integrati Pro/Infiniti v20 license or higher to be present on the product key running the integration.

Minimum Installed Integrati Version

The Integrati Evidence Win CCTV integration is only compatible with an installation of Integrati Pro or Infiniti that is v19.0 or higher.

Licensing Requirements

Integrati 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 Integrati, however will not be able to be used.

Tested Against

The Integrati Evidence Win CCTV plugin was built and tested against the following versions of software:

- Evidence Win v1.18.0.26012

Configuration

▼ Connection Configuration	@
▼ Connection	
Address	
Login Name	
Password	
HTTP Connection Port	8080
Use HTTPS	<input type="checkbox"/>
▼ Logging	
Log Verbosity	Debug
▼ Event Listener	
Listener Port	80
Listener Username	
Listener Password	
▼ PTZ Control	
Pan Speed	50
Tilt Speed	50
Zoom Speed	50
Iris Speed	50
Focus Speed	50
▼ Exports	
Export Video Format	Original
Export Video File Type	AVI
Export Video Resolution	Original
Export Audio Channel	Audio Enabled

Connection

Address - The IP Address of the Server to connect to.

Login Name - The Username of the Evidence Win User to connect to the Server with. This User should have sufficient permissions configured in the Management console to allow all the features of the plugin to be used.

Password - The Password of the Evidence Win User to connect to the Server with.

HTTP Connection Port - The Port used to connect to the Evidence Win Server. This can be configured in the Management console configuration and is 8080 by default. This port should be configured in the Integriti Integration Server and any Integriti Client Machine's firewalls to allow it to be used.

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.

Event Listener

Listener Port - The Port used to connect to listen to LPR events from the Luxriot Evo Server. This can be configured in the Luxriot Evo Events & Actions: Action created for LPR and is 80 by default. This port should be configured in the Integriti Integration Server and any Integriti Client Machine's firewalls to allow it to be used.

Listener Username – Optional field allowing the ability to secure the communication between the server and Integriti. Configure a username here and in the Console Management software under Events & Actions -> Actions and select the appropriate Action.

Listener Password – Optional field allowing the ability to secure the communication between the server and Integriti. Configure a password here and in the Console Management software under Events & Actions -> Actions and select the appropriate Action.

PTZ Control

Pan Speed – Select a percentage of speed that the cameras will perform a Pan PTZ Operation.

Tilt Speed – Select a percentage of speed that the cameras will perform a Tilt PTZ Operation.

Zoom Speed – Select a percentage of speed that the cameras will perform a Zoom PTZ Operation.

Iris Speed – Select a percentage of speed that the cameras will perform an Iris PTZ Operation.

Focus Speed – Select a percentage of speed that the cameras will perform a Focus PTZ Operation.

Exports

Export Video Format – Select the Compression method that the resulting exported video will end up with. This will change the quality and size of the exported video.

Export Video File Type – Select the Video File Extension Type that exported video will have. This will affect which media players will be able to play the video, size and quality of the exported video.

Export Video Resolution – Select the Video Resolution that the exported video will be generated. This will change the size of the file and quality.

Export Audio Channel – Select if the exported video will contain audio.

Commands

CCTV Recorder Commands

The following commands can be performed on a CCTV Recorder:

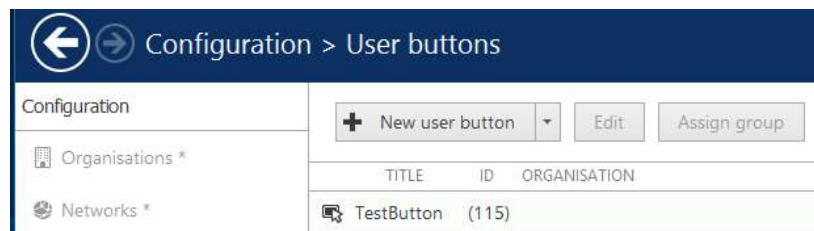
Activate User Button

Activates the User Button identified by 'User Button Id' in the selected Evidence Win system. A User Button must have been configured in the selected Evidence Win system with the given Id for this command to work.

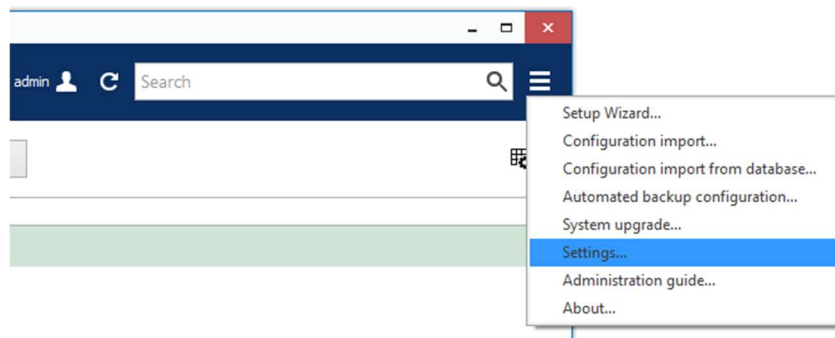
The selected User Button can be used to trigger further commands in the Evidence Win system. See the Evidence Win documentation for further details on configuring User Button triggers.

Note: The User Button Id can be retrieved from the Evidence Win Console as follows:

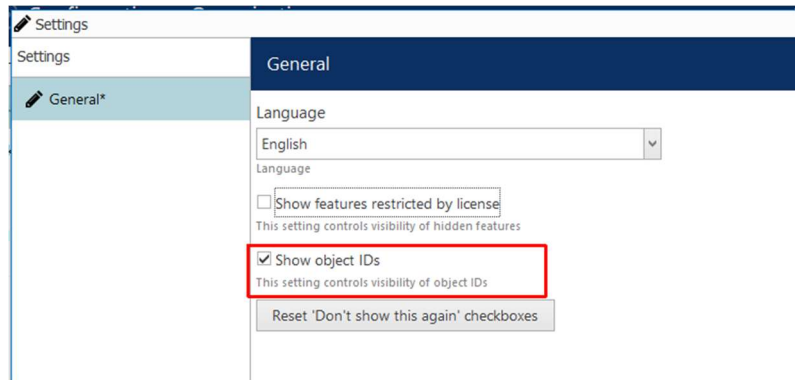
Go to Configuration > User buttons



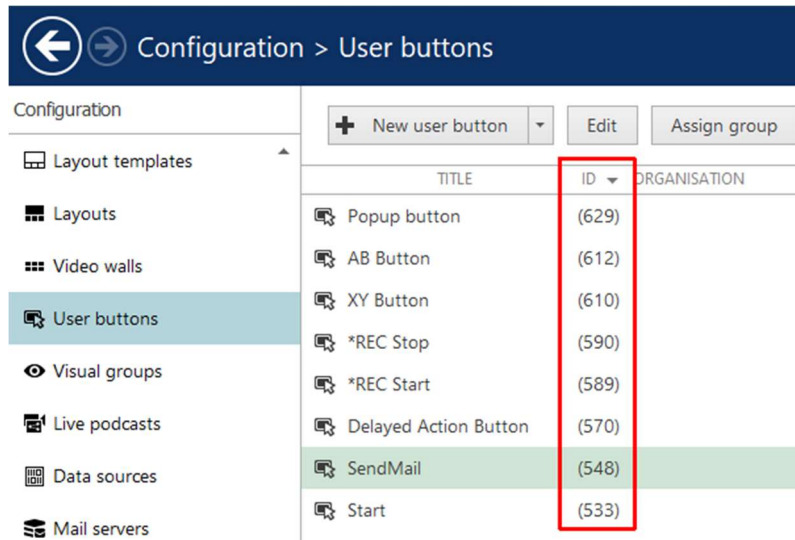
Open up the "Settings" dialog



Enable “Show object IDs”



The IDs for User buttons can be seen in the “ID” column

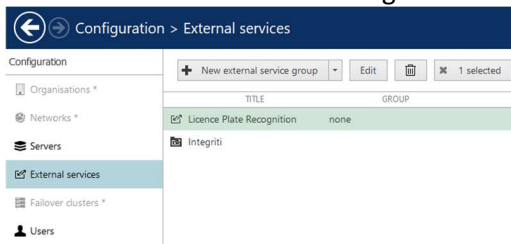


License Plate Recognition

Evidence Win LPR Setup

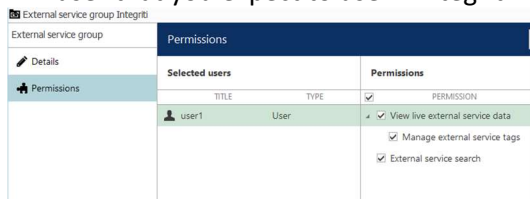
Prerequisites

Set up the LPR Module by following the documentation included with the LPR module. Once the LPR Module is properly set up 'License Plate Recognition' will appear in the External services menu in the management console.

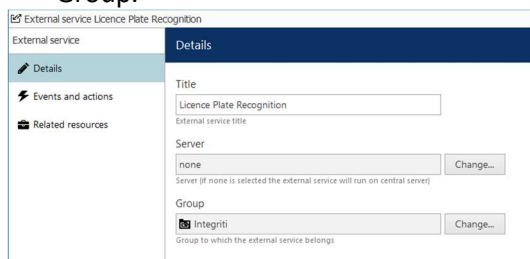


Configuration

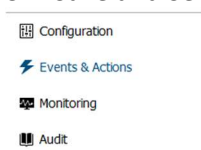
1. Create a New external service group and name it Integriti. Allow all permissions for the user that you expect to use in Integriti.



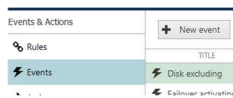
2. Edit the 'License Plate Recognition' service by either double click the service or clicking it and clicking the edit button. Add the Group value to the Integriti External Service Group.



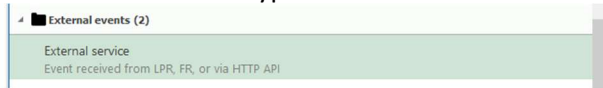
3. Save and Select Events & Actions in the bottom left corner of the window.



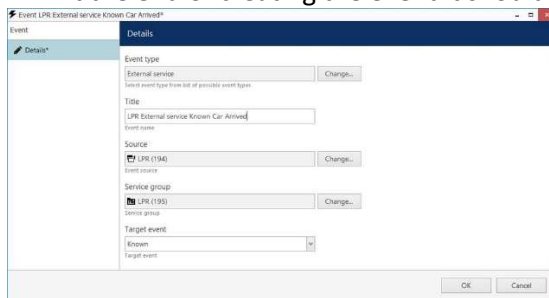
4. Open the Events tab in the top left of the window and press the New event button.



5. Select the event type of External Service.



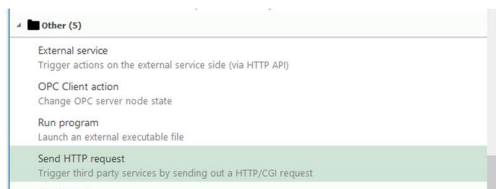
6. Title the event the specific LPR event eg LPR or Plate Recognised/Unknown Plate.
7. Select the source as the LPR Camera you wish to use.
8. Add the Service group as the Integriti External service that has been previously created.
9. Add the Target event based on what you want to identify. Unknown (Internal) will get you all unrecognised plates not listed in the LPR module and Known (Internal) will return number plates entered in the Tagged Plates tab. Any custom tag you create can be entered here to filter the results down.
10. If you have no Target events you need to set them up in the LPR Module as a prerequisite.
11. At the end of creating the event it should look something like this. Save and Continue.



12. Select the Actions tab in the bottom left of the window and press New action.



13. Select the Action type of Send HTTP request.



14. Set Host to the IP address of the target Integriti server.
15. Add the port used by the Integriti server in the Configuration under Listener Port.
16. Add to the Request text box at the bottom with one of the following:

```
/integ-lux?EventName={EVENT_TITLE}&EventId={EVENT_ID}&CameraId={EVENT_SOURCE_ID}&Time={EVENT_TIMESTAMP}&Plate={ADDITION_INFORMATION:Plate}
```

17. The result should look something like the following:

Action type

Select action type from list of available action types

Title

Action name

Target

Target server. If none is selected, the action will be visible to all servers.

Host

Host name or IP address

Port

Port number

Username

New password

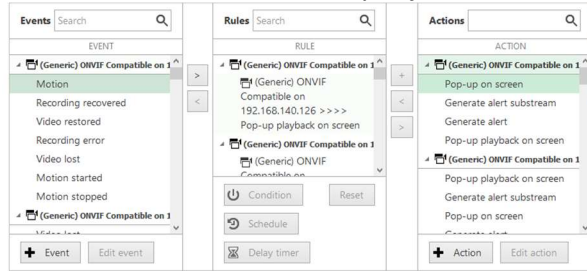
Password will not be changed

Request

18. Once done select Ok. Now combine the Event and Action in the Events and actions configurator. This can be accessed by the Rules tab. And selecting Open configurator in the top centre part of the window.



19. Double click on the Event you just created and then doing the same for the Action.



20. Once the combination is displayed in the centre click Ok.

21. You are now ready to use LPR in Integriti.