INTEGRITI HANWHA WISENET WAVE CCTV INTEGRATION MANUAL

DOCUMENT CREATED WITH REFERENCE TO INTEGRITI PROFESSIONAL SOFTWARE VERSION V23.1.0.21141



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http://www.innerrange.com

Inner Range Pty Ltd
ABN 26 007 103 933

1 Millennium Court, Knoxfield, Victoria 3180, Australia
PO Box 9292, Scoresby, Victoria 3179, Australia
Telephone: +61 3 9780 4300 Facsimile: +61 3 9753 3499
Email: enquiries@innerrange.com Web: www.innerrange.com

Integriti Hanwha Wisenet WAVE CCTV Integration

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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	✓
Retrieve Details of Configured Cameras	Details of all configured cameras (such as Camera Name) can be retrieved from the CCTV System when 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	✓
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.	22	✓
64-bit Integration Server Support	The integration supports being run on the 64-bit integration server.	22	✓
Show Camera Status	The current online/offline status of configured cameras will be visible directly through Integriti.	22	✓
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	22	✓
License Plate Recognition	License plates recognised by supported cameras in the CCTV system can be used to automatically allow access to configured Doors.	22	✓
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.	22	✓
Control Iris and Focus	Control the iris and focus of supported cameras on the CCTV system directly from the video stream	22	✗
Control PTZ Tours	PTZ Tours can be started and stopped directly from the video stream.	22	✓
Display Video Frame Times	When viewing archived CCTV footage, the time of the current frame will be displayed on the viewer control.	22	✗
Show On-Screen Display	Enable additional information (such as camera name and current playback time) to be displayed as an overlay on video streams.	22	✗
Reverse Playback	When viewing archived CCTV footage, the footage can be played in reverse.	22	✗
Step Forward/Backward	When viewing archived CCTV footage, the footage can be stepped through one frame at a time.	22	✗
Export CCTV Clips	Export video clip of archived CCTV footage to the Evidence Vault or to a file directly from Integriti.	22	✓

Export CCTV Snapshots	Export still snapshot of archived CCTV footage to the Evidence Vault or to a file directly from Integriti.	22	✖
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.	22	✖
Stream Audio With Video	Receive audio from the microphone on a supported CCTV camera through an Integriti client workstation	22	✖
Send Audio to CCTV Camera	Send audio from an Integriti client workstation out of the speakers on a supported CCTV camera.	22	✖

Integriti Hanwha Wisenet WAVE CCTV Integration Compatibility

Important Notes

Integriti Hanwha Wisenet WAVE Integration requires the digest authentication feature to be enabled in the server for all the users connecting to the server via Integriti. This is required for server v5 and above.

Required Integriti Version License

The Integriti Hanwha Wisenet WAVE CCTV Integration requires an Integriti/Infiniti v23 license or higher to be present on the product key running the integration.

Minimum Installed Integriti Version

The Integriti Hanwha Wisenet WAVE CCTV integration is only compatible with an installation of Integriti/Infiniti that is v22.0 or higher.

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.

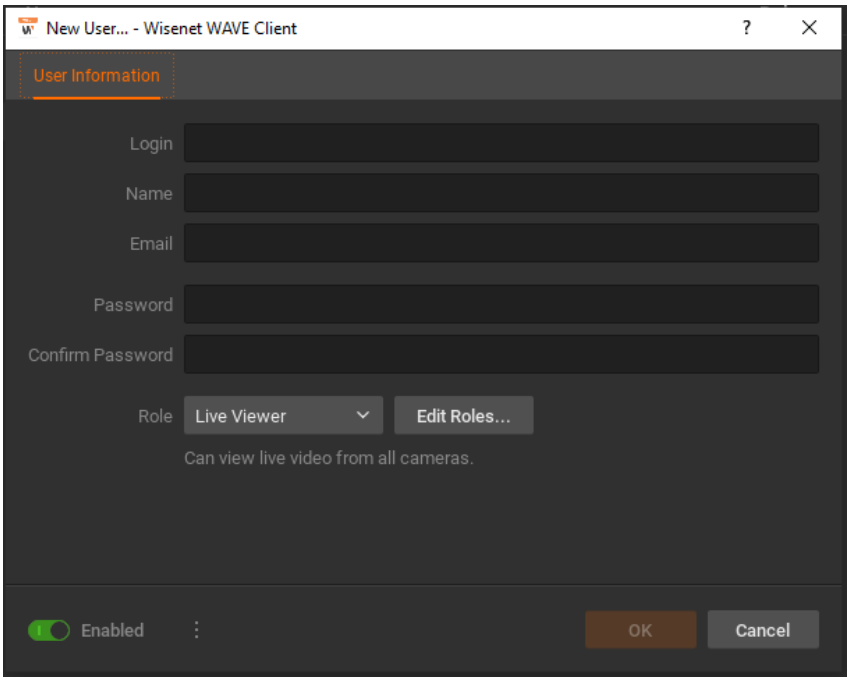
Tested Against

The Integriti Hanwha Wisenet WAVE CCTV plugin was built and tested against the following versions of software:

- Wisenet WAVE Client v4.0.0.29988 x64
- Wisenet WAVE Server v4.0.0.29988 x64
- Wisenet WAVE Client v5.0.0.35270 x64
- Wisenet WAVE Server v5.0.0.35270 x64

Hanwha Wisenet Wave Configuration

Integriti Hanwha Wisenet WAVE Integration requires the digest authentication feature to be enabled in the Hanwha Wisenet WAVE server for the user when connecting to Hanwha Wisenet WAVE Server v5 and above. This section outlines how to configure it.



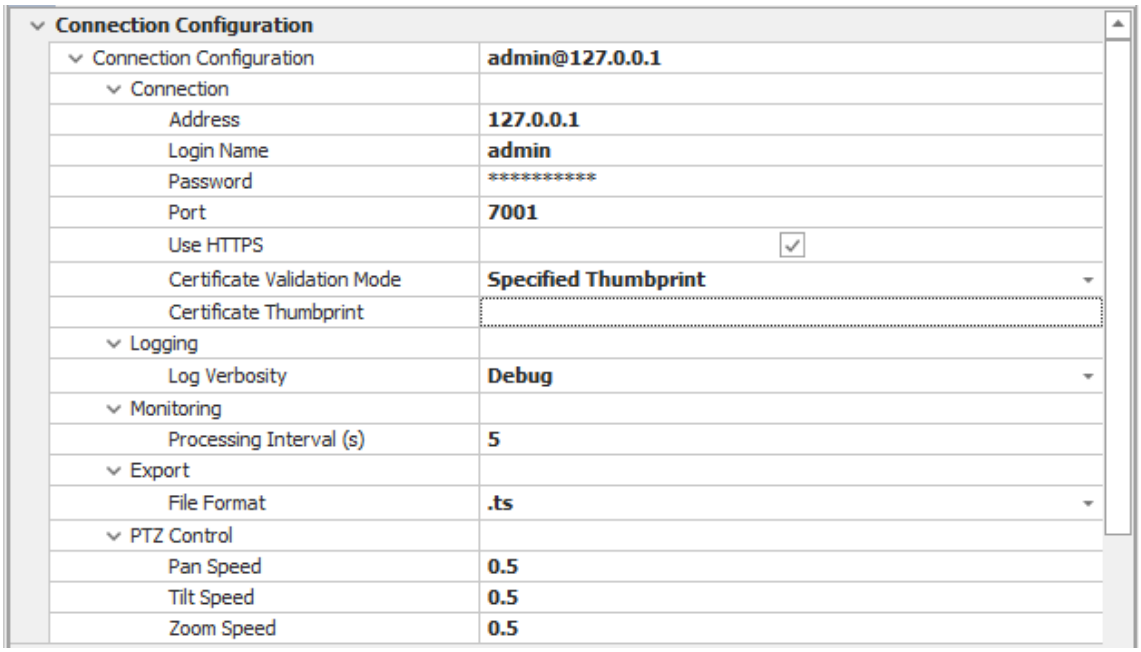
1. Open the 'System Administration' window from the 'Main Menu' and click on the 'Users' tab
2. Either add a new user or edit an existing one
3. Click on the three vertical dots towards the bottom left of the User dialog and click the 'Allow digest authentication for this user', then click ok

Integriti Configuration

Ports Used

The following ports are used for communication between the Integriti Hanwha Wisenet integration and the Hanwha Wisenet server/cameras. 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 7001



Connection

Address – The IP Address of the Server to connect to.
Login Name – The Username of the Hanwha Wisenet WAVE User to connect to the Server with. This User should have sufficient permissions configured in Hanwha Wisenet WAVE to allow all of the features of the plugin to be used.
Password - The Password of the Hanwha Wisenet WAVE User to connect to the Server with.
Port - The Port used to connect to the Server. This is 7001 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.
Use HTTPS: Set to true to use HTTPS rather than HTTP for connections.
Certificate Validation Mode: Select the validation mode to use when connecting with an invalid certificate.
Certificate Thumbprint: Enter the thumbprint of the certificate used by the HTTPS connection.

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

Event Processing Interval - How often to process events from the VMS. Specify a time interval between 1 to 60 seconds.

Export

File Format - Select the required format of the video archive file to be exported from the server.

PTZ Control

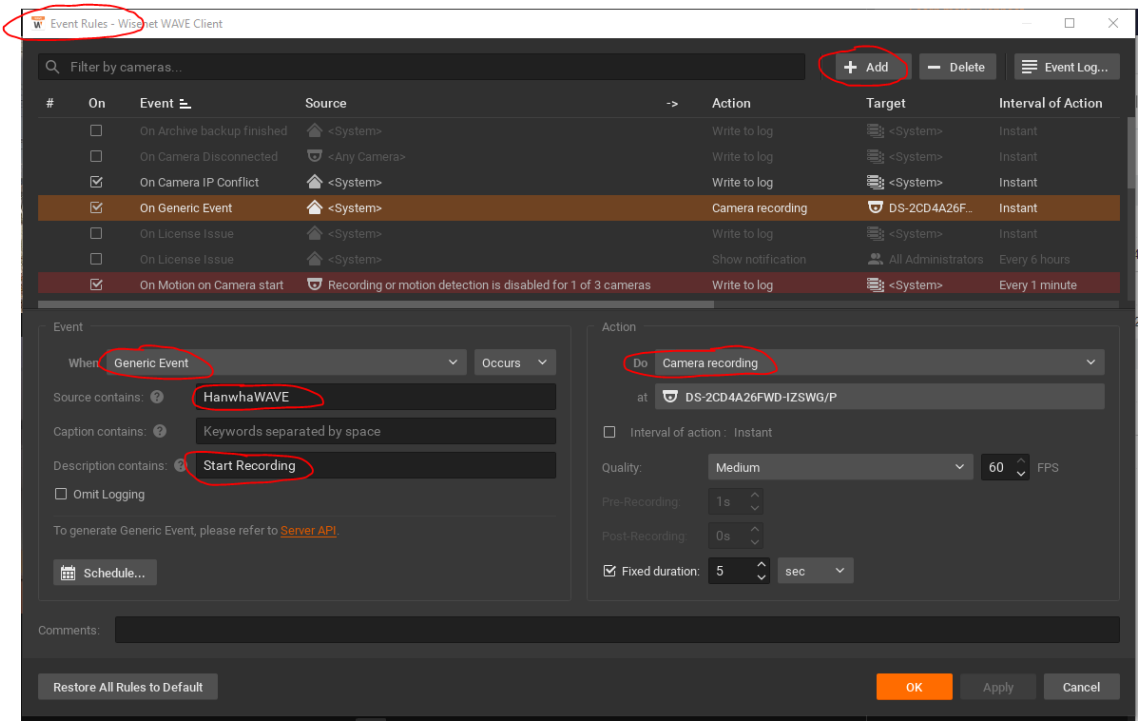
Pan Speed - Select the speed of Pan PTZ Operations. Specify a speed value between 0 & 1.
Tilt Speed - Select the speed of Tilt PTZ Operations. Specify a speed value between 0 & 1.
Zoom Speed - Select the speed of Zoom PTZ Operations. Specify a speed value between 0 & 1.

Commands

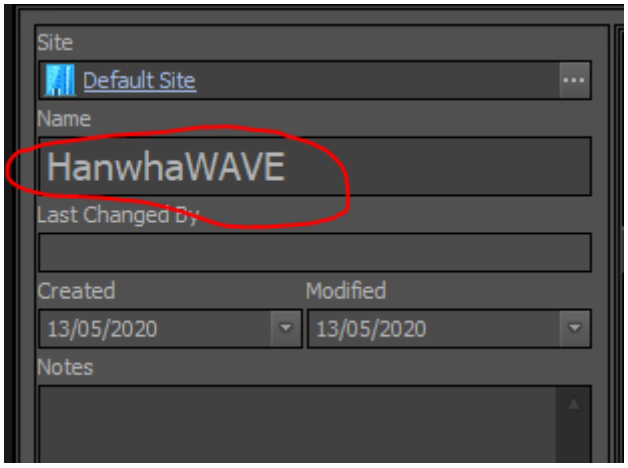
CCTV Recorder Commands

The following commands can be performed on a CCTV Recorder:

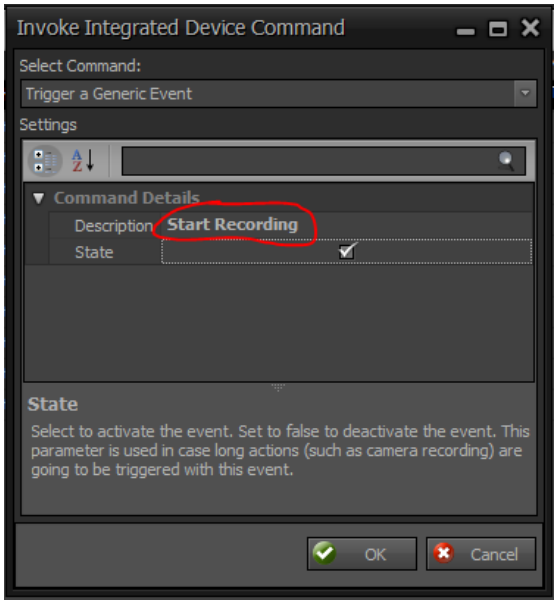
Trigger a Generic Event	Generic Events can be configured in the VMS to perform an action from a variety of different action types available in response to being triggered by Integriti. The Generic Event must be preconfigured in the VMS first before it can be triggered by Integriti. The below steps outline the configuration process to trigger a "Camera Recording" action as an example. The same steps apply to triggering other action types in the VMS.



1. Open the 'Event Rules' editor in Wisenet WAVE Client and click 'Add'.
2. Under the 'Event' options select 'Generic Event' from the drop down menu next to 'When'.
3. The 'Source contains' field must contain the recorder name given in Integriti in the 'Configuration' steps above.



4. Specify a brief description for the event in the 'Description contains' field
5. Under the 'Action' options select 'Camera recording' from the drop down menu next to 'Do'.
6. Select a camera to start recording on and other relevant options then click 'Ok' to save the event rule and exit.



7. When triggering the event the 'Description' field in Integriti's 'Invoke Integrated Device Command' editor must be contained in 'Description contains' field specified in Event Rules editor above, in this case 'Start Recording'. Set the 'State' option to start recording or leave unchecked to stop recording. Click 'Ok' to trigger the event and exit.

CCTV Camera Commands

The following commands can be performed on a CCTV Camera:

Send Camera To PTZ Preset	Sends the selected camera to a preset identified by Ptz Id. Ptz Id can either be the preset id or name.
Run PTZ Tour On Camera	Runs a tour identified by Ptz Id on the selected camera. Ptz Id can either be the tour id or name.

Troubleshooting

Integriti doesn't play archived video **Integriti cannot export archived video**	• Are the user credentials correct? • Did Integriti establish a connection with the VMS? • Does the archived footage exist in the VMS? • Is it possible to play the archived video in the VMS for the selected time? • Does the user have permission to view or export archive?
PTZ operations do not work	• Are the user credentials correct? • Did Integriti establish a connection with the VMS? • Does the user have permission for PTZ operations?
Integriti is not receiving events	• Are the user credentials correct? • Did Integriti establish a connection with the VMS? • Does the user have permission to view event log? • Is persisted connection enabled? • Are the relevant review transitions enabled in recorder editor?