INTEGRITI INTEGRATION – HANWHA WISENET WAVE CCTV

RELEASE NOTES V1.9.1

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OVERVIEW

The Integration enables seamless interoperability between Hanwha Wisenet Wave video management system and the Integriti security platform. This integration consolidates CCTV monitoring, access control, and intruder detection into a single unified interface, streamlining operator workflows and enhancing situational awareness across a site.

With this integration, Integriti users can view live and recorded footage, control supported PTZ cameras, trigger CCTV actions, and receive events and alarms directly from the CCTV server. Cameras and supported feature sets can be synchronised with the Integriti software and CCTV footage can be linked to Integriti events, entities, and schematics for rapid incident response.

The integration also supports License Plate Recognition (LPR) notifications from a range of camera technologies, allowing recognised plates to be processed within Integriti for functions such as automated access control. Advanced features such as camera status monitoring, categorised review logs, and the ability to trigger actions based on CCTV events ensure that Integriti operators maintain complete visibility over video activity without switching between platforms.

By combining Integriti's powerful security management capabilities with the flexibility of Hanwha Wisenet Wave, this integration delivers a cohesive and efficient CCTV experience suitable for both small installations and large enterprise environments.

For a detailed list of supported features, please refer to the CCTV Capabilities.

Term: For brevity, ***Hanwha Wisenet Wave*** is referred to as ***Hanwha Wave*** in this document.

Note: The Integration will only work with Hanwha Wisenet Wave systems. Use the Integriti Hanwha Techwin CCTV Integration for connecting to Hanwha Techwin and Hanwha Wisenet NVRs.

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NEW RELEASE v1.9.1

Released September 2026

Release Requirements

Required Integriti Version License	Integriti Pro/Infiniti v26 license
Integriti edition	Business or Corporate
Minimum Installed Integriti Version	Integriti Pro/Infiniti v25.1
Integriti Licensing Requirements	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.

Built with

NetworkOptix REST APIs v4

Note: Nx, Hanwha and DW Spectrum products all use Nx Witness SDK as core technology component. Accordingly, our integration plugins for Nx, Hanwha and DW Spectrum CCTV systems use this SDK for communicating to their respective vendor systems.

Compatibility with vendor systems

The plugin was verified with

- Hanwha Wave CCTV server v6.0.1
- Hanwha Wave CCTV server v6.1.2

It is the first version which works with CCTV system v6.1.

An existing customer who uses the integration with CCTV system v5.1 or 6.0, may continue with their current plugin version.

A new customer who runs CCTV system v5.x should consider upgrading their CCTV system to v6.x, before deploying the integration into their environment. Inner Range will not provide technical assistance to customers running pre-v6.x CCTV system.

Release includes

Improvements

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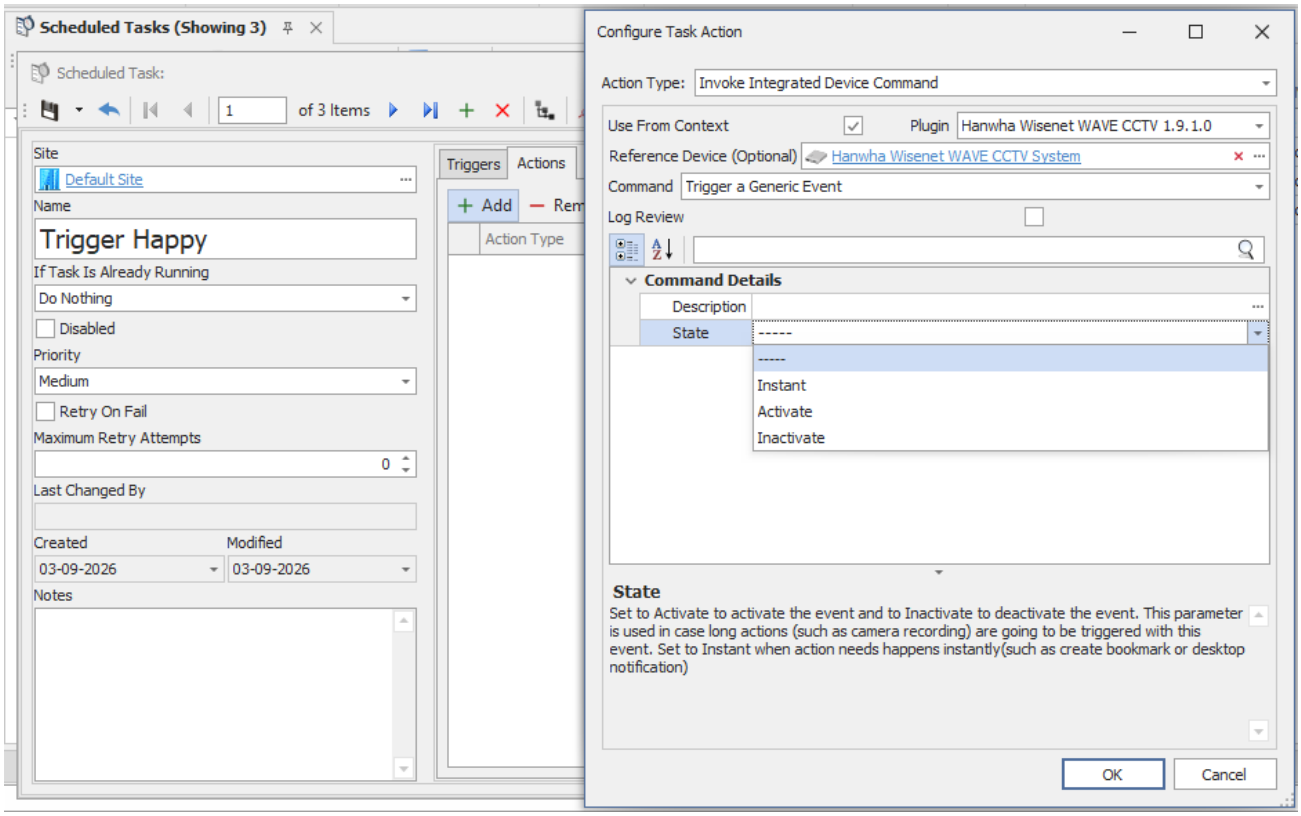
- Added support for Events notifications generated by Nx Witness server v6.1
- Added new RTSP_over_TCP configuration parameter.

Issues Fixed

- Fixed an issue where events polling could fail when connected to a CCTV system which consists of several merged servers.

Upgrade considerations

When upgrading your CCTV system from v6.0 to v6.1, you will need to reconfigure every Scheduled Task which invokes a Generic Event configured with 'occurs' condition. Select the *Instant* option from the list:



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PAST RELEASES INFORMATION

Version 1.8

Released September 2025

Required Integriti Version License	Integriti Pro/Infiniti v25 license
Minimum Installed Integriti Version	Integriti Pro/Infiniti v24

BUILT WITH
NetworkOptix REST APIs v3

TESTED AGAINST

- Hanwha WAVE Server v5.1.2
- Hanwha WAVE Server v6.0.1

RELEASE INCLUDES

Issues fixed

- Fixed an issue causing OutOfBounds exception message shown when executing Refresh operation.
- Fixed an issue with running multiple instances of NX / Hanwha plugin on the same Integriti server
- Fixed an issue with RTSP streaming when login name contains a mix of low-case and capital letters.

Version 1.7

Released July 2025

Required Integriti Version License	Integriti Pro/Infiniti v25 license
Minimum Installed Integriti Version	Integriti Pro/Infiniti v24 or higher

BUILT WITH
NetworkOptix REST APIs v3

TESTED AGAINST

- Hanwha WAVE Server v5.1.2
- Hanwha WAVE Server v6.0.1

RELEASE INCLUDES

Issues fixed

- Fixed a bug affecting cameras maintaining focus after executing PTZ operation

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Version 1.6

Released May 2025

Required Integriti Version License	Integriti Pro/Infiniti v25 license
Minimum Installed Integriti Version	Integriti Pro/Infiniti v24 or higher

BUILT WITH
NetworkOptix REST APIs v3

TESTED AGAINST

- Hanwha WAVE Server v5.1.2
- Hanwha WAVE Server v6.0.1

RELEASE INCLUDES
New Features

- Support of NX Witness API v6

Feature Updates

- Support of LPR notifications generated by:
    - Hanwha cameras running RoadWatch and RoadAI applications
    - AXIS cameras running CammraAI and License Plate Verifier applications
    - HikVision LPR
    - MileSight cameras

Version 1.5

Released April 2024

Required Integriti Version License	Integriti Pro/Infiniti v23 license
Minimum Installed Integriti Version	Integriti Pro/Infiniti v22 or higher

BUILT WITH
NetworkOptix REST APIs v3

TESTED AGAINST

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

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RELEASE INCLUDES

New Features

- Added support for Integriti to receive LPR events from the Wisenet WAVE Server. LPR events contain the time of the event, license plate number and the source camera that captured the license plate.

Version 1.4

Released November 2022

Required Integriti Version License	Integriti Pro/Infiniti v22 license
Minimum Installed Integriti Version	Integriti Pro/Infiniti v21 or higher

BUILT WITH

NetworkOptix REST APIs v3

TESTED AGAINST

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

RELEASE INCLUDES

Issues Resolved

- **Export**: Removed the ability to access the unsupported export snapshot command which resulted in unnecessary error messages.
- **Persisted Connection**: Resolved an issue that signalled persisted connection online when the connection failed to start.

Version 1.3

Released November 2020

Required Integriti Version License	Integriti Pro/Infiniti v20 license
Minimum Installed Integriti Version	Integriti Pro/Infiniti v20 or higher

BUILT WITH

NX Witness SDK v4

TESTED AGAINST

- Wisenet WAVE Server v4.0.0.29988 x64

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RELEASE INCLUDES

Issues Resolved

- **Event Monitoring:** Resolved potential issue that could result in errors occurring when processing unsupported event types.

Version 1.2

Released October 2020

Required Integriti Version License	Integriti Pro/Infiniti v20 license
Minimum Installed Integriti Version	Integriti Pro/Infiniti v20 or higher

BUILT WITH

NX Witness SDK v4

TESTED AGAINST

- Wisenet WAVE Server v4.0.0.29988 x64

RELEASE INCLUDES

Issues Resolved

- **Refresh Child Devices:** Resolved issue resulting in an error occurring when Refreshing Child Devices on some systems.

Version 1.1

Released September 2020

Required Integriti Version License	Integriti Pro/Infiniti v20 license
Minimum Installed Integriti Version	Integriti Pro/Infiniti v20 or higher

BUILT WITH

NX Witness SDK v4

TESTED AGAINST

- Wisenet WAVE Server v4.0.0.29988 x64

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New Features

- **Connection**: Added the HTTPS secure connection option

Issues Resolved

- **Video Viewer:** Resolved an issue that prevented viewing video when recorder credentials contained special characters.
- **Refresh Child Devices:** Resolved an issue that prevented the plugin to retrieve child devices when connected directly to an NVR.

Version 1.0

Released June 2020

Required Integriti Version License	Integriti Pro/Infiniti v20 license
Minimum Installed Integriti Version	Integriti Pro/Infiniti v20 or higher

BUILT WITH

NX Witness SDK v4

TESTED AGAINST

- Wisenet WAVE Server v4.0.0.29988 x64

RELEASE INCLUDES

Initial release

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CCTV CAPABILITIES

Core CCTV Capabilities

Feature	Feature Description	Y/N
Stream Live CCTV Footage	Live CCTV footage can be streamed from online cameras in the CCTV system to an Integriti client.	✓
Select Custom Aspect Ratio	Select the aspect ratio to use when streaming CCTV footage on a per-camera or per-recorder basis.	✓
Stream Archived CCTV Footage	Archived CCTV footage can be streamed from online cameras in the CCTV system to an Integriti client.	✓
Control Archived CCTV Playback Speed	Playback speed of archived CCTV footage can be controlled from the Integriti client.	✓
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.	✓
Create Child Devices from Camera Configuration	Child CCTV Cameras will be created based on the Camera configuration on Refreshing Child Devices	✓
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.	✓
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)	✓
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.	✓
Send Cameras to PTZ Preset	Send supported PTZ cameras on the CCTV system to preconfigured PTZ presets directly from the video stream.	✓
Digital PTZ Control	Digitally zoom the CCTV stream's image for non-PTZ cameras and archived footage.	✓

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Feature	Feature Description	Y/N
CCTV Layouts	Store a collection of Cameras with an specific viewer layout to be brought up at a later point in time	✓
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.	✓
Trigger Actions in the CCTV System	Trigger actions or commands in the CCTV system directly from Integriti.	✓
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.	✓
Sync Time (via NTP)	Sync the time of the CCTV system and Integriti to match via an NTP.	✓
Display Connection Status to CCTV System	Display whether or not Integriti is currently connected to the CCTV system.	✓
Receive Events/Alarms from the CCTV System	Log events/alarms occurring on the CCTV system to Integriti's Review.	✓
Trigger Integriti Actions on CCTV Events/Alarms	Trigger actions to automatically occur in Integriti whenever specific events/alarms are received from the CCTV system.	✓
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.	✓

Advanced CCTV Capabilities

Feature	Feature Description	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.	✓
64-bit Integration Server Support	The integration supports being run on the 64-bit integration server.	✓

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Feature	Feature Description	Y/N
Show Camera Status	The current online/offline status of configured cameras will be visible directly through Integriti.	✓
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	✓
License Plate Recognition	License plates recognised by supported cameras in the CCTV system can be used to automatically allow access to configured Doors.	✓
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.	✓
Control Iris and Focus	Control the iris and focus of supported cameras on the CCTV system directly from the video stream	×
Control PTZ Tours	PTZ Tours can be started and stopped directly from the video stream.	✓
Display Video Frame Times	When viewing archived CCTV footage, the time of the current frame will be displayed on the viewer control.	×
Show On-Screen Display	Enable additional information (such as camera name and current playback time) to be displayed as an overlay on video streams.	×
Reverse Playback	When viewing archived CCTV footage, the footage can be played in reverse.	×
Step Forward/Backward	When viewing archived CCTV footage, the footage can be stepped through one frame at a time.	×
Export CCTV Clips	Export video clip of archived CCTV footage to the Evidence Vault or to a file directly from Integriti.	✓
Export CCTV Snapshots	Export still snapshot of archived CCTV footage to the Evidence Vault or to a file directly from Integriti.	×
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.	×

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Feature	Feature Description	Y/N
Stream Audio With Video	Receive audio from the microphone on a supported CCTV camera through an Integriti client workstation	×
Send Audio to CCTV Camera	Send audio from an Integriti client workstation out of the speakers on a supported CCTV camera.	×

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