



# INTEGRITI HIKVISION PLUGIN

## RELEASE NOTES 2.14



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

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

# Integrati Hikvision Plugin

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## Capabilities

	Feature	Ver	Y/N	New
<b>Advanced CCTV Features</b>	<i>Populate Configured Cameras</i>	18	✓	
	<i>64-bit Integration Server Support</i>	18	✓	
	<i>Show Camera Status</i>	18	✓	
	<i>Categorised Review Records</i>	19	✓	
	<i>License Plate Recognition</i>	18	✓	
	<i>Trigger Inputs on CCTV Event</i>	18	✓	
	<i>Control Iris and Focus</i>	18	✓	
	<i>Control PTZ Tours</i>	18	✓	
	<i>Display Video Frame Times</i>	18	✓	
	<i>Show On-Screen Display</i>	18	✗	
	<i>Reverse Playback</i>	18	✓	
	<i>Step Forward/Backward</i>	18	✓	
	<i>Export CCTV Clips</i>	19	✓	
	<i>Export CCTV Snapshots</i>	19	✗	
	<i>Stream Audio With Video</i>	18	✓	
<i>Send Audio to CCTV Camera</i>	18	✓		

## Current Release

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### Version 2.14 – June 2023

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#### Important Notes

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##### *Plugin Compatibility*

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The Integriti Hikvision CCTV Plugin is not able to be installed on the same machine as the Integriti X2 CCTV Plugin.

Please ensure this integration is uninstalled prior to installing the Hikvision CCTV Plugin and is not installed on a machine that already has the Hikvision CCTV Plugin installed.

#### Required Integriti Version License

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Integriti Pro/Infiniti v22 license

#### Minimum Installed Integriti Version

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Integriti Pro/Infiniti v22.0.1 or higher

#### Licensing Requirements

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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.

#### SDK Version

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HCNetSDK v6.1.9.4

#### Tested Against

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- DS-7608NI-I2 – v4.61.020 build 220708 firmware
- DS-K1T673DWX – v3.3.12 build 220906 firmware
- DS-KD8003-IME1 – v2.0.8 build 191029 firmware
- DS-KD8003-IME1 – v2.2.56 build 220713 firmware

## New Features

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- **PTZ:** Added the option to force the usage of digital PTZ for individual cameras. This may be used for cameras that do not support all physical PTZ operations.

## Issues Resolved

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- **Persisted Connection:** Fixed an issue whereby alarm listening could not be disabled once selected.
- **Review:** Fixed an issue whereby certain intercom-related review events showed 'System.Byte[]' in place of the intended data and were missing the Device Number field.

## Past Releases

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### Version 2.13 – December 2022

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#### Important Notes

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##### *Plugin Compatibility*

---

The Integriti Hikvision CCTV Plugin is not able to be installed on the same machine as the Integriti X2 CCTV Plugin.

Please ensure this integration is uninstalled prior to installing the Hikvision CCTV Plugin and is not installed on a machine that already has the Hikvision CCTV Plugin installed.

#### Required Integriti Version License

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Integriti Pro/Infiniti v22 license

#### Minimum Installed Integriti Version

---

Integriti Pro/Infiniti v22.0.1 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.

#### SDK Version

---

HCNetSDK v6.1.9.4

#### Tested Against

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- DS-7608NI-I2 – v4.61.020 build 220708 Firmware



## New Features

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- **Refresh Device:** Added the Refresh Device command for integrated systems. This retrieves data from the NVR required for video export to work correctly. Refresh Device should be run on all integrated systems, and again after any changes to the device's time zone settings.

## Feature Updates

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- **SDK Update:** Updated to HCNetsDK v6.1.9.4.

## Issues Resolved

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- **PTZ:** Fixed an issue preventing certain PTZ commands and speed settings from working correctly.
- **Video Export:** Export Current Frame now works correctly with playback paused. Corrected issues when exporting after pausing a live stream.
- **Video Export:** Export Current Frame now works correctly on an encrypted live stream.
- **Video Export:** Fixed an issue whereby some exported snapshots had an incorrect file name extension.
- **Video Viewer and Export:** Fixed issues causing footage from an incorrect time to be retrieved when the Integriti client, integration server and/or device are in different time zones.

## Version 2.12 – May 2022

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### Important Notes

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#### *Plugin Compatibility*

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The Integriti Hikvision CCTV Plugin is not able to be installed on the same machine as the Integriti X2 CCTV Plugin.

Please ensure this integration is uninstalled prior to installing the Hikvision CCTV Plugin and is not installed on a machine that already has the Hikvision CCTV Plugin installed.

#### Required Integriti Version License

---

Integriti Pro/Infiniti v22 license

#### Minimum Installed Integriti Version

---

Integriti Pro/Infiniti v22.0.1 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.

#### SDK Version

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HCNetSDK v6.1.6.45

#### Tested Against

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- DS-7608NI-I2 – v4.50.000 build 210125 Firmware

## Issues Resolved

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- **Video Viewer:** Fixed an issue causing flickering frames when viewing video without Stream Encryption.
- **Video Export:** The Export Snapshot panel is now correctly disabled when exporting from the video viewer.

## Version 2.11 – October 2021

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### Required Integriti Version License

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Integriti Pro/Infiniti v21 license

### Minimum Installed Integriti Version

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Integriti Pro/Infiniti v20.0 or higher

### Licensing Requirements

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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.

### SDK Version

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HCNetSDK v6.1.6.45

### Tested Against

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- DS-7608NI-I2 – v4.21.008 build 190918 Firmware

## New Features

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- **Stream Encryption:** Added support for live streaming and video playback from an NVR with Stream Encryption enabled. For this to work, the encryption key must be provided in the Connection category of the integrated device attributes.

## Version 2.10 – August 2020

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### Required Integriti Version License

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Integriti Pro/Infiniti v19 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 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.

### SDK Version

---

HCNetSDK v6.0.2.35

### Tested Against

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- DS-7732NI-SP - V3.4.93 build 171124 Firmware
- DS-7608NI-I2 – v4.0.51 build 190918 Firmware

## Issues Resolved

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- **Event Monitoring:** Resolved potential issue that could result in events being tied to the wrong Integrated Device when multiple Integrated Devices have persisted connections enabled.

## Version 2.9 – April 2020

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### Required Integriti Version License

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Integriti Pro/Infiniti v19 license

### Minimum Installed Integriti Version

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Integriti Pro/Infiniti v18.0 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.

### SDK Version

---

HCNetSDK v6.0.2.35

### Tested Against

---

- DS-7732NI-SP - V3.4.93 build 171124 Firmware
- DS-7608NI-I2 – v4.0.51 build 190918 Firmware

### Feature Updates

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- **Event Logging:** General improvements to event monitoring.

### Issues Resolved

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- **Integriti Version Compatibility:** Resolved potential issue running some components of the integration on some versions of Integriti.



## Version 2.8 – December 2019

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### Required Integriti Version License

---

Integriti Pro/Infiniti v19 license

### Minimum Installed Integriti Version

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Integriti Pro/Infiniti v18.0 or higher

### Licensing Requirements

---

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.

### SDK Version

---

HCNetSDK v6.0.2.35

### Tested Against

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- DS-7732NI-SP - V3.4.93 build 171124 Firmware
- Hikvision 2<sup>nd</sup> Gen Intercom

### Feature Updates

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**Alarm Types:** Added some missing CCTV and Intercom Alarm types generated by newer Hikvision firmware.

## Version 2.7 – September 2019

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### Important Notes

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#### *Plugin Compatibility*

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The Integriti Hikvision CCTV Plugin v2.7 is not able to be installed on the same machine as the Integriti X2 CCTV Plugin.

Please ensure these integrations are uninstalled prior to installing the Hikvision CCTV Plugin, and are not installed on a machine that already has the Hikvision CCTV Plugin installed.

#### Required Integriti Version License

---

Integriti Pro/Infiniti v19 license

#### Minimum Installed Integriti Version

---

Integriti Pro/Infiniti v18.0 or higher

#### SDK Version

---

HCNetSDK v6.0.2.35

#### Tested Against

---

DS-7732NI-SP - V3.4.93 build 171124 Firmware.

#### Issues Resolved

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- **Export:** Resolved issue where connections opened when exporting CCTV footage were not closed after the export was completed. This could result in the maximum number of connections to a Hikvision NVR being reached over time and no more connections being able to be initialised.

## Version 2.6 – August 2019

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### Required Integriti Version License

---

Integriti Pro/Infiniti v19 license

### Minimum Installed Integriti Version

---

Integriti Pro/Infiniti v18.0 or higher

### SDK Version

---

HCNetSDK v6.0.2.35

### Tested Against

---

DS-7732NI-SP - V3.4.93 build 171124 Firmware.

### New Features

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- **Video Exporting:** Added support for exporting videos and snapshots recorded on the Hikvision NVR. This exported footage can either be saved to a file, or saved to the Integriti Evidence Vault for use later.  
Exporting footage can be achieved in one of the following ways:
  - When viewing video footage, the export button allows footage to be manually exported to a specified location.
  - Right clicking on a CCTV Camera, or an associated Entity or Review Record and selecting the 'Add Evidence to Vault' button will export footage from all associated cameras to the Evidence Vault.
  - The 'Save Evidence to Vault' task action allows footage to be exported from associated Cameras and saved to the Evidence Vault automatically on an event occurring.  
NOTE: Video Export requires Integriti v19 or higher
- **PTZ Tours:** Added support for starting and stopping PTZ tours on supported Cameras directly from the video stream.  
NOTE: PTZ Tours require Integriti v19 or higher

### Feature Updates

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- **Event Filtering:** In Integriti v19 and higher, filtering of which events from the third party system are logged to Review is now done using Integriti's Review Categories. This allows Events to be filtered on a per device basis, rather than only in the Recorder's settings, and makes it easier to change the filter of multiple devices at the same time.
- **SDK Update:** Updated to use HCNetSDK v6.0.2.35.

## Issues Resolved

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**Invoke Command:** Resolved issue resulting in the 'Send Camera to Preset' command not working.

## Version 2.5 – July 2018

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### Required Integriti Version

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Integriti Pro/Infiniti v17.0 or higher

### SDK Version

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HCNetSDK v5.3.1.51

### Tested Against

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- DS-7732NI-SP - V3.1.0 build 140821 Firmware

### New Features

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- **Event Monitoring:** Added the ability to monitor VCA, Facial Recognition and VQD events from supported Hikvision Cameras. This allows for a much wider range of events to be received and used by Integriti. Monitoring these new types of events can be configured from the Hikvision Recorder's Device Attributes, with new properties added to enable and disable monitoring of each type of event as well as to filter down the sub-types of events to receive for each new event type. These new properties can be found in the 'Monitoring – DVRs/NVRs' Category. All of the new types of events will be monitored by default for new and updating systems, provided Persisted Connection is enabled for the Recorder.

### Feature Updates

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- **SDK:** Updated to use HCNetSDK v5.3.1.51.
- **Integriti Version:** The Hikvision integration now requires an Integriti version of 17 or higher.

### Issues Resolved

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- **Event Logging:** Resolved issue where Review messages generated by events in the Hikvision system could be associated with the wrong Recorder/Camera when more than one Hikvision Recorder has Persisted Connection enabled. This resulted in incorrect recorder names showing in the Review text.

## Version 2.4 – December 2017

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### Required Integriti Version

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Integriti Pro/Infiniti v16.0 or higher

### SDK Version

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HCNetSDK v5.3.1.35

### Tested Against

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- DS-7732NI-SP - V3.1.0 build 140821 Firmware
- DS-96256NI-E16 / H - V3.0.3 build 150204 Firmware

### New Features

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- **Event Monitoring:** Review Records generated from the integration now specify categories specific to the event type.  
This allows for these Review Records to be easily filtered by the Review Category filter in the Review list in Integriti, as well as making triggers easier to configure. Using the new Review Categories it is possible to filter down to a specific type of event type, for example all Motion events, without the need for a text filter.
- **License Plate Recognition:** Added support for receiving License Plate Recognition events from supported Hikvision Cameras. When a license plate is detected by a Hikvision camera a Review Record will be generating containing the license plate that was recognised, and associated with the source Camera.  
On Integriti v18 or higher, with the addition of the License Plate Recognition license, the LPR integration is taken a step further, allowing a license plate being recognised to trigger a Card badge at a chosen Integriti Door for the User associated with the license plate. This adds the ability to use a license plate as a Credential in Integriti, with each license plate being associated to the given User as a Card with a format of License Plate. This provides all of the benefits of using Cards in Integriti, including restricting access based on a User's permissions, access logging, and reporting.  
The built in license plate recognition is enabled on a per-camera basis, with the automatic card badging only being triggered on enabled Cameras, at a Door or Reader configured in the Camera itself.  
License Plate events will automatically be logged by default for new and upgrading systems; however the LPR as a Credential functionality needs to be manually enabled. See the Integriti CCTV Manual for details on configuring this feature.

### Feature Updates

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- **SDK:** Updated to use HCNetSDK v5.3.1.35.

## Version 2.3 – September 2017

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### Required Integriti Version

---

Integriti Pro/Infiniti v16.0 or higher

### SDK Version

---

HCNetSDK v5.2.7.5

### Tested Against

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- DS-7732NI-SP - V3.1.0 build 140821 Firmware
- DS-96256NI-E16 / H - V3.0.3 build 150204 Firmware

### New Features

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- **Configuration Editor:** Added support for the new Integration configuration editor, available in Integriti v17.0.3 and above. This new editor provides a number of features already seen in other Integriti editors, including the ability to search properties by name and better editors for some properties.
- **Manual:** Added the Hikvision NVR CCTV Manual containing details on configuring the Hikvision plugin, a capabilities guide and a troubleshooting guide.

### Feature Updates

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- **SDK:** Updated to use HCNetSDK v5.2.7.5.
- **Integriti Version:** The Hikvision integration now requires an Integriti version of 16 or higher.
- **Error/Debug Logging:** Improved error and debug messages logged by the Hikvision plugin to be more detailed. This will aid in resolving any issues that occur when using the integration.

## Version 2.2 – September 2016

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### Required Integriti Version

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Integriti Pro/Infiniti v4.0 or higher

### SDK Version

---

HCNetSDK v5.1.5.7

### Tested Against

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- DS-7732NI-SP - V3.1.0 build 140821 Firmware
- DS-96256NI-E16 / H - V3.0.3 build 150204 Firmware

### Feature Updates

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- **Event/Alarm Monitoring:** Review Records generated by the Hikvision plugin now have the triggering Camera and Recorder associated with them. This allows context specific commands, such as View Video In New Tab and Scheduled Tasks to use the Camera for additional functionality.

### Issues Resolved

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- **Alarm Monitoring:** Fixed potential issue preventing alarms from Hikvision being received.