



# RELEASE NOTES

ION-R100S / ION-R200 / ION-R300

FIRMWARE 15.5.15.36

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## FIRMWARE 15.5.15.36

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### Resolved Issues

- Fix issues with Avigilon H3/H4/H5A Onvif Cameras.
- Fix issues that would make the device freeze in certain circumstances.

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### New FEATURES

- None

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### KNOWN ISSUES

- Running an image carousel may cause a reboot after some time.
- Unplugging and/or plugging screens while the device is running can result in incorrect screen display. Rebooting the device resolves the issue.
- Booting the device with no screens connected may cause the videos to not be displayed correctly. Rebooting the device with the screens connected will resolve the issue.
- In rare occurrence, changing the connected display and / or changing the display resolution can cause the videos to not be displayed correctly. Rebooting the device will resolve the issue.
- In rare cases, adding or moving a user certificate used by the HTTP/HTTPS server can disable all further HTTPS connections. (Work-around: Reboot the SDS.)
- If an IP camera does not support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.
- After a firmware update, in rare cases, the connection with the Imaging Server is not completed. Just reboot the SDS if the problem occurs after a firmware update.

## FIRMWARE 15.5.15.26

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### Resolved Issues

- Fix an issue where the device only displayed “Starting Services...” message when updating to 15.5.0.0 and later versions when “Cloud Services Provider” feature is disabled.

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### New FEATURES

- None

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### KNOWN ISSUES

- Running an image carousel may cause a reboot after some time.
- Unplugging and/or plugging screens while the device is running can result in incorrect screen display. Rebooting the device resolves the issue.
- Booting the device with no screens connected may cause the videos to not be displayed correctly. Rebooting the device with the screens connected will resolve the issue.
- In rare occurrence, changing the connected display and / or changing the display resolution can cause the videos to not be displayed correctly. Rebooting the device will resolve the issue.
- In rare cases, adding or moving a user certificate used by the HTTP/HTTPS server can disable all further HTTPS connections. (Work-around: Reboot the SDS.)
- If an IP camera does not support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.
- After a firmware update, in rare cases, the connection with the Imaging Server is not completed. Just reboot the SDS if the problem occurs after a firmware update.

## FIRMWARE 15.5.15.24

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### Resolved Issues

- Fix an issue adding and removing the device from PERCEPT Cloud
- Fix an issue where RTSP TCP video streams would stop and not restart.

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### New FEATURES

- None

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### KNOWN ISSUES

- Running an image carousel may cause a reboot after some time.
- Unplugging and/or plugging screens while the device is running can result in incorrect screen display. Rebooting the device resolves the issue.
- Booting the device with no screens connected may cause the videos to not be displayed correctly. Rebooting the device with the screens connected will resolve the issue.
- In rare occurrence, changing the connected display and / or changing the display resolution can cause the videos to not be displayed correctly. Rebooting the device will resolve the issue.
- In rare cases, adding or moving a user certificate used by the HTTP/HTTPS server can disable all further HTTPS connections. (Work-around: Reboot the SDS.)
- If an IP camera does not support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.
- After a firmware update, in rare cases, the connection with the Imaging Server is not completed. Just reboot the SDS if the problem occurs after a firmware update.

## FIRMWARE 15.5.15.18

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### Resolved Issues

- Fix an issue where the SDS would disconnect from Genetec when configured in HTTPS
- Fix an issue with Authentication timeout with Milestone server connection.
- Fix an issue that would make the device unresponsive at boot.
- Fix an issue that would make the UI crash on boot.

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### New FEATURES

- None

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### KNOWN ISSUES

- Removing and adding back the device from PERCEPT Cloud could result in the device not correctly reconnecting to the cloud. A reboot resolves the issue.
- Running an image carousel may cause a reboot after some time.
- Unplugging and/or plugging screens while the device is running can result in incorrect screen display. Rebooting the device resolves the issue.
- Booting the device with no screens connected may cause the videos to not be displayed correctly. Rebooting the device with the screens connected will resolve the issue.
- In rare occurrence, changing the connected display and / or changing the display resolution can cause the videos to not be displayed correctly. Rebooting the device will resolve the issue.
- In rare cases, adding or moving a user certificate used by the HTTP/HTTPS server can disable all further HTTPS connections. (Work-around: Reboot the SDS.)
- If an IP camera does not support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.
- After a firmware update, in rare cases, the connection with the Imaging Server is not completed. Just reboot the SDS if the problem occurs after a firmware update.

## FIRMWARE 15.5.15.6

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### Resolved Issues

- None

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### New FEATURES

- Unify support for all SDS variants.
- Added Temperature reporting on products supporting it.

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### KNOWN ISSUES

- Running an image carousel may cause a reboot after some time.
- Unplugging and/or plugging screens while the device is running can result in incorrect screen display. Rebooting the device resolves the issue.
- Booting the device with no screens connected may cause the videos to not be displayed correctly. Rebooting the device with the screens connected will resolve the issue.
- In rare occurrence, changing the connected display and / or changing the display resolution can cause the videos to not be displayed correctly. Rebooting the device will resolve the issue.
- In rare cases, adding or moving a user certificate used by the HTTP/HTTPS server can disable all further HTTPS connections. (Work-around: Reboot the SDS.)
- If an IP camera does not support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.
- After a firmware update, in rare cases, the connection with the Imaging Server is not completed. Just reboot the SDS if the problem occurs after a firmware update.

## FIRMWARE 15.5.5.18

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### Resolved Issues

- Fixed an issue with the ONVIF profile discovery.
- Fixed an issue where a decoder could stay in a stalled state indefinitely.
- Fixed an issue with the RTSP authentication on some camera type.

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### New FEATURES

- None

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### KNOWN ISSUES

- Running an image carousel may cause a reboot after some time.
- Unplugging and/or plugging screens while the device is running can result in incorrect screen display. Rebooting the device resolves the issue.
- Booting the device with no screens connected may cause the videos to not be displayed correctly. Rebooting the device with the screens connected will resolve the issue.
- In rare occurrence, changing the connected display and / or changing the display resolution can cause the videos to not be displayed correctly. Rebooting the device will resolve the issue.
- In rare cases, adding or moving a user certificate used by the HTTP/HTTPS server can disable all further HTTPS connections. (Work-around: Reboot the SDS.)
- If an IP camera does not support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.
- After a firmware update, in rare cases, the connection with the Imaging Server is not completed. Just reboot the SDS if the problem occurs after a firmware update.

## FIRMWARE 15.5.5.6

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### Resolved Issues

- Fix an issue with the discovery of H.265 profile of some HikVision cameras.

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### New FEATURES

- None

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### KNOWN ISSUES

- Running an image carousel may cause a reboot after some time.
- Unplugging and/or plugging screens while the device is running can result in incorrect screen display. Rebooting the device resolves the issue.
- Booting the device with no screens connected may cause the videos to not be displayed correctly. Rebooting the device with the screens connected will resolve the issue.
- In rare occurrence, changing the connected display and / or changing the display resolution can cause the videos to not be displayed correctly. Rebooting the device will resolve the issue.
- In rare cases, adding or moving a user certificate used by the HTTP/HTTPS server can disable all further HTTPS connections. (Work-around: Reboot the SDS.)
- If an IP camera does not support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.
- After a firmware update, in rare cases, the connection with the Imaging Server is not completed. Just reboot the SDS if the problem occurs after a firmware update.



## FIRMWARE 15.5.5.4

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### Resolved Issues

- Fix issue with some layouts that were not correctly supported.
- Fix an issue with Http tunneling.

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### New FEATURES

- None

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### KNOWN ISSUES

- Running an image carousel may cause a reboot after some time.
- Unplugging and/or plugging screens while the device is running can result in incorrect screen display. Rebooting the device resolves the issue.
- Booting the device with no screens connected may cause the videos to not be displayed correctly. Rebooting the device with the screens connected will resolve the issue.
- In rare occurrence, changing the connected display and / or changing the display resolution can cause the videos to not be displayed correctly. Rebooting the device will resolve the issue.
- In rare cases, adding or moving a user certificate used by the HTTP/HTTPS server can disable all further HTTPS connections. (Work-around: Reboot the SDS.)
- If an IP camera does not support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.
- After a firmware update, in rare cases, the connection with the Imaging Server is not completed. Just reboot the SDS if the problem occurs after a firmware update.

## FIRMWARE 15.5.5.2

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### Resolved Issues

- None

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### New FEATURES

- Initial support for the ION-R300 product.

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### KNOWN ISSUES

- Running an image carousel may cause a reboot after some time.
- Unplugging and/or plugging screens while the device is running can result in incorrect screen display. Rebooting the device resolve the issue.
- Booting the device with no screens connected may cause the videos to not be displayed correctly. Rebooting the device with the screens connected will resolve the issue.
- In rare occurrence, changing the connected display and / or changing the display resolution can cause the videos to not be displayed correctly. Rebooting the device will resolve the issue.
- In rare cases, adding or moving a user certificate used by the HTTP/HTTPS server can disable all further HTTPS connections. (Work-around: Reboot the SDS.)
- If an IP camera does not support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.
- After a firmware update, in rare cases, the connection with the Imaging Server is not completed. Just reboot the SDS if the problem occurs after a firmware update.

## FIRMWARE 15.3.0.16

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### Resolved Issues

- None

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### New FEATURES

- Improvements to Cloud firmware update functionality.

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### KNOWN ISSUES

- Booting the device with no screens connected may cause the videos to not be displayed correctly. Rebooting the device with the screens connected will resolve the issue.
- In rare occurrence, changing the connected display and / or changing the display resolution can cause the videos to not be displayed correctly. Rebooting the device will resolve the issue.
- In rare cases, adding or moving a user certificate used by the HTTP/HTTPS server can disable all further HTTPS connections. (Work-around: Reboot the SDS.)
- If an IP camera does not support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.
- After a firmware update, in rare cases, the connection with the Imaging Server is not completed. Just reboot the SDS if the problem occurs after a firmware update.

## FIRMWARE 15.3.0.14

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### Resolved Issues

- Fix an issue that would sometime cause the device UI to not load correctly after an update.
- Fix an issue where some camera would not work when using the Milestone plugin

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### New FEATURES

- Added device support for web page tunneling though PERCEPT Cloud.

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### KNOWN ISSUES

- Booting the device with no screens connected may cause the videos to not be displayed correctly. Rebooting the device with the screens connected will resolve the issue.
- In rare occurrence, changing the connected display and / or changing the display resolution can cause the videos to not be displayed correctly. Rebooting the device will resolve the issue.
- In rare cases, adding or moving a user certificate used by the HTTP/HTTPS server can disable all further HTTPS connections. (Work-around: Reboot the SDS.)
- If an IP camera does not support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.
- After a firmware update, in rare cases, the connection with the Imaging Server is not completed. Just reboot the SDS if the problem occurs after a firmware update.

## FIRMWARE 15.3.0.8

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### Resolved Issues

- Fix an issue that would cause the device to freeze indefinitely, requiring a power cycle.

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### New FEATURES

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### KNOWN ISSUES

- Booting the device with no screens connected may cause the videos to not be displayed correctly. Rebooting the device with the screens connected will resolve the issue.
- In rare occurrence, changing the connected display and / or changing the display resolution can cause the videos to not be displayed correctly. Rebooting the device will resolve the issue.
- In rare cases, adding or moving a user certificate used by the HTTP/HTTPS server can disable all further HTTPS connections. (Work-around: Reboot the SDS.)
- If an IP camera does not support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.
- After a firmware update, in rare cases, the connection with the Imaging Server is not completed. Just reboot the SDS if the problem occurs after a firmware update.

## FIRMWARE 15.3.0.6

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### Resolved Issues

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### New FEATURES

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- Added display viewer in web interface, accessible with all access levels.
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### KNOWN ISSUES

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- Booting the device with no screens connected may cause the videos to not be displayed correctly. Rebooting the device with the screens connected will resolve the issue.
- In rare occurrence, changing the connected display and / or changing the display resolution can cause the videos to not be displayed correctly. Rebooting the device will resolve the issue.
- In rare cases, adding or moving a user certificate used by the HTTP/HTTPS server can disable all further HTTPS connections. (Work-around: Reboot the SDS.)
- If an IP camera does not support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.
- After a firmware update, in rare cases, the connection with the Imaging Server is not completed. Just reboot the SDS if the problem occurs after a firmware update.

## FIRMWARE 15.3.0.0

**NOTE:** We have updated our firmware versioning. The last firmware version was 6.9.1.8

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### Resolved Issues

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### New FEATURES

- Added support for encrypted Milestone Plugin connection. (Also needs the plugin version 1.0.2.5 or later)

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### KNOWN ISSUES

- Booting the device with no screens connected may cause the videos to not be displayed correctly. Rebooting the device with the screens connected will resolve the issue.
- In rare occurrence, changing the connected display and / or changing the display resolution can cause the videos to not be displayed correctly. Rebooting the device will resolve the issue.
- In rare cases, adding or moving a user certificate used by the HTTP/HTTPS server can disable all further HTTPS connections. (Work-around: Reboot the SDS.)
- If an IP camera does not support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.
- After a firmware update, in rare cases, the connection with the Imaging Server is not completed. Just reboot the SDS if the problem occurs after a firmware update.

## FIRMWARE 6.9.1.8

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### Resolved Issues

- Fix an issue where sometimes the “Connecting” image would remain over the video once we receive the video feed from the camera.

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### New FEATURES

- Added PERCEPT Cloud support.

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### KNOWN ISSUES

- In rare cases, adding or moving a user certificate used by the HTTP/HTTPS server can disable all further HTTPS connections. (Work-around: Reboot the SDS.)
- If an IP camera does not support sending an RTCP sender’s report, the video latency could not be guaranteed at long-term.
- After a firmware update, in rare cases, the connection with the Imaging Server is not completed. Just reboot the SDS if the problem occurs after a firmware update.



## FIRMWARE 6.8.5.5

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### Resolved Issues

- Fix an issue with special character in username and password in Eagle Eye cloud integration.
- Fix an issue where password parameters could be returned in clear in certain conditions.
- Fix an issue with the panamorph streams from Genetec VMS.
- Fix an issue where the username and password were sent in clear text for the Milestone plugin integration.
- Fix an issue with the Eagle Eye cloud integration where synchronization would fail.

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### New FEATURES

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### KNOWN ISSUES

- In rare cases, adding or moving a user certificate used by the HTTP/HTTPS server can disable all further HTTPS connections. (Work-around: Reboot the SDS.)
- If an IP camera does not support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.
- After a firmware update, in rare cases, the connection with the Imaging Server is not completed. Just reboot the SDS if the problem occurs after a firmware update.

## FIRMWARE 6.8.5.1

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### Resolved Issues

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### New FEATURES

- Fix an issue where special characters were not handled correctly for camera usernames and password in the Eagle Eye cloud integration.
- Fix an issue where the username and password were pass in clear text when requesting stream with the Milestone integration.
- Fix an issue where stream of Percept BWC100 coming from Genetec were not correctly decoded.

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### KNOWN ISSUES

- In rare cases, adding or moving a user certificate used by the HTTP/HTTPS server can disable all further HTTPS connections. (Work-around: Reboot the SDS.)
- If an IP camera does not support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.
- H.265 is not supported via the Genetec VMS, the "Passive RTP" streaming mode and the HTTP streaming mode.
- After a firmware update, in rare cases, the connection with the Imaging Server is not completed. Just reboot the SDS if the problem occurs after a firmware update.

## FIRMWARE 6.8.5.0

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### Resolved Issues

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### New FEATURES

- Added support for H.265 decoding when using Genetec integration.

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### KNOWN ISSUES

- In rare cases, adding or moving a user certificate used by the HTTP/HTTPS server can disable all further HTTPS connections. (Work-around: Reboot the SDS.)
- If an IP camera does not support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.
- H.265 is not supported via the Genetec VMS, the "Passive RTP" streaming mode and the HTTP streaming mode.
- After a firmware update, in rare cases, the connection with the Imaging Server is not completed. Just reboot the SDS if the problem occurs after a firmware update.

## FIRMWARE 6.8.4.7

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### Resolved Issues

- Fix an issue that prevents the decoding of camera that the SPS, PPS, and/or VPS are only present in the SDP.

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### New FEATURES

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### KNOWN ISSUES

- In rare cases, adding or moving a user certificate used by the HTTP/HTTPS server can disable all further HTTPS connections. (Work-around: Reboot the SDS.)
- If an IP camera does not support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.
- H.265 is not supported via the Genetec VMS, the "Passive RTP" streaming mode and the HTTP streaming mode.
- After a firmware update, in rare cases, the connection with the Imaging Server is not completed. Just reboot the SDS if the problem occurs after a firmware update.

## FIRMWARE 6.8.4.6

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### Resolved Issues

- Fix an issue that would prevent certain H.265 streams to be correctly displayed.

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### New FEATURES

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### KNOWN ISSUES

- In rare cases, adding or moving a user certificate used by the HTTP/HTTPS server can disable all further HTTPS connections. (Work-around: Reboot the SDS.)
- If an IP camera does not support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.
- H.265 is not supported via the Genetec VMS, the "Passive RTP" streaming mode and the HTTP streaming mode.
- After a firmware update, in rare cases, the connection with the Imaging Server is not completed. Just reboot the SDS if the problem occurs after a firmware update.

## FIRMWARE 6.8.4.5

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### Resolved Issues

- Prevent any update of the system outside official update.
- Fixed an issue with some cameras where the video header is not well formed.
- Fixed a crash issue with a layout 3+2 if used in a sequence.
- Fixed an issue with video streaming when the resolution changed.

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### New FEATURES

- Added support for the new Milestone plug-in which supports stream for a same source.
- Increased the number of views from 5 to 8.

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### KNOWN ISSUES

- In rare cases, adding or moving a user certificate used by the HTTP/HTTPS server can disable all further HTTPS connections. (Work-around: Reboot the SDS.)
- If an IP camera does not support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.
- H.265 is not supported via the Genetec VMS, the "Passive RTP" streaming mode and the HTTP streaming mode.
- After a firmware update, in rare cases, the connection with the Imaging Server is not completed. Just reboot the SDS if the problem occurs after a firmware update.

## FIRMWARE 6.8.4.0

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### Resolved Issues

- In rare condition, when connected to some display types, the graphic driver of the ION-R100S could crash. Reboot the device in this condition.

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### New FEATURES

- Added the possibility to configure a custom layout by using the ION API (see the ION API Parameters Guide).
- Added support for the new Milestone plug-in which supports multiple imaging server.

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### KNOWN ISSUES

- In rare cases, adding or moving a user certificate used by the HTTP/HTTPS server can disable all further HTTPS connections. (Work-around: Reboot the SDS.)
- If an IP camera does not support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.
- H.265 is not supported via the Genetec VMS, the "Passive RTP" streaming mode and the HTTP streaming mode.
- After a firmware update, in rare cases, the connection with the Imaging Server is not completed. Just reboot the SDS if the problem occurs after a firmware update.

## FIRMWARE 6.8.3.2

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### Resolved Issues

- Fixed an issue that would cause the ION-R100S graphic driver to crash when connected to a display that support higher than 60 fps refresh rate.
- Fixed an issue that would cause the ION-R100S graphic driver to crash when connected to some display types. This could cause that all video tiles are freeze. Recover from this condition.
- Fixed an issue that would cause errors if file containing the character "&" in its filename were uploaded to the media library.
- Fixed an issue that cause the device to reboot in loop if some characters ("{" , "}" , "[" , "]") are used in data source names.
- Fixed an issue that would prevent the decoding of Panamorph lens camera coming from Genetec.

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### New FEATURES

- Added two new view layouts: 1x3 & 3x1.
- Added the possibility to disable the WiFi interface on a R200.
- Improved security by activating SMB signing.

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### KNOWN ISSUES

- In rare cases, adding or moving a user certificate used by the HTTP/HTTPS server can disable all further HTTPS connections. (Work-around: Reboot the SDS.)
- If an IP camera does not support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.
- H.265 is not supported via the Genetec VMS, the "Passive RTP" streaming mode and the HTTP streaming mode.
- After a firmware update, in rare cases, the connection with the Imaging Server is not completed. Just reboot the SDS if the problem occurs after a firmware update.



## FIRMWARE 6.8.3.0

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### Resolved Issues

- EEN Integration: During a resynchronization with the Eagle Eye Network servers, if the server returns an internal error the SDS will now abort the resynchronization without applying any changes. It will instead retry again 1 minute later. (Previously the SDS would perform a partial resynchronization where some camera feeds might be missing.)

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### New FEATURES

- Add two new view layouts: 1+7 & 7+1.

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### KNOWN ISSUES

- In rare cases, adding or moving a user certificate used by the HTTP/HTTPS server can disable all further HTTPS connections. (Work-around: Reboot the SDS.)
- If an IP camera does not support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.
- H.265 is not supported via the Genetec VMS, the "Passive RTP" streaming mode and the HTTP streaming mode.
- After a firmware update, in rare cases, the connection with the Imaging Server is not completed. Just reboot the SDS if the problem occurs after a firmware update.

## FIRMWARE 6.8.2.2

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### Resolved Issues

- Fixed some connection issues with the Milestone Imaging Server when the network connection is lost between a SDS and the Imaging Server.

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### New FEATURES

- Improved the security by blocking some access from a keyboard connected physically to a SDS.

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### KNOWN ISSUES

- In rare cases, adding or moving a user certificate used by the HTTP/HTTPS server can disable all further HTTPS connections. (Work-around: Reboot the SDS.)
- If an IP camera does not support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.
- H.265 is not supported via the Genetec VMS, the "Passive RTP" streaming mode and the HTTP streaming mode.
- After a firmware update, in rare cases, the connection with the Imaging Server is not completed. Just reboot the SDS if the problem occurs after a firmware update.

## FIRMWARE 6.8.2.1

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### Resolved Issues

- Fixed a routing issue with the Eagle Eye Networks integration that could sporadically cause some cameras to not send video to the SDS.

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### New FEATURES

- No new feature.

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### KNOWN ISSUES

- In rare cases, adding or moving a user certificate used by the HTTP/HTTPS server can disable all further HTTPS connections. (Work-around: Reboot the SDS.)
- If an IP camera does not support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.
- H.265 is not supported via the Genetec VMS, the "Passive RTP" streaming mode and the HTTP streaming mode.

## FIRMWARE 6.8.2.0

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### Resolved Issues

- No new resolved issue.

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### New FEATURES

- Added support for a new data source to be able to connect to a Milestone Imaging Server. This data source is controlled by the IONODES Milestone Plug-in.

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### KNOWN ISSUES

- In rare cases, adding or moving a user certificate used by the HTTP/HTTPS server can disable all further HTTPS connections. (Work-around: Reboot the SDS.)
- If an IP camera does not support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.
- H.265 is not supported via the Genetec VMS, the "Passive RTP" streaming mode and the HTTP streaming mode.

## FIRMWARE 6.8.1.2

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### Resolved Issues

- Fixed a security issue.

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### New FEATURES

- No new feature.

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### KNOWN ISSUES

- In rare cases, adding or moving a user certificate used by the HTTP/HTTPS server can disable all further HTTPS connections. (Work-around: Reboot the SDS.)
- If an IP camera does not support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.
- H.265 is not supported via the Genetec VMS, the "Passive RTP" streaming mode and the HTTP streaming mode.

## FIRMWARE 6.8.1.0

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### Resolved Issues

- Fixed an issue with the OnCam camera model which prevents video streaming.

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### New FEATURES

- Added support for CSR (certificate signing request).
- Added support for a new layout, 4x3 and 3x4.

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### KNOWN ISSUES

- In rare cases, adding or moving a user certificate used by the HTTP/HTTPS server can disable all further HTTPS connections. (Work-around: Reboot the SDS.)
- If an IP camera does not support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.
- H.265 is not supported via the Genetec VMS, the "Passive RTP" streaming mode and the HTTP streaming mode.

## FIRMWARE 6.8.0.0

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### Resolved Issues

- No new resolved issue.

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### New FEATURES

- Added support for user-provided certificates (.pfx, .p12) used in HTTPS communication (see known issue for certificate replacement).

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### KNOWN ISSUES

- In rare cases, adding or moving a user certificate used by the HTTP/HTTPS server can disable all further HTTPS connections. (Work-around: Reboot the SDS.)
- If an IP camera does not support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.
- H.265 is not supported via the Genetec VMS, the "Passive RTP" streaming mode and the HTTP streaming mode.
- In rare case, the video could freeze when configuring a data source to RTSP or ONVIF/RTSP and setting the streaming mode to TCP.

## FIRMWARE 6.7.2.1

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### Resolved Issues

- Fixed an issue that prevent multicast for new hardware revision for the R200.
- Fixed an issue where the configuration is not reset on a firmware downgrade.

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### New FEATURES

- No new feature.

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### KNOWN ISSUES

- If an IP camera does not support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.
- H.265 is not supported via the Genetec VMS, the "Passive RTP" streaming mode and the HTTP streaming mode.
- In rare case, the video could freeze when configuring a data source to RTSP or ONVIF/RTSP and setting the streaming mode to TCP.



## FIRMWARE 6.7.2.0

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### Resolved Issues

- No new resolved issue.

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### New FEATURES

- Added support for the new hardware revision for the R200.

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### KNOWN ISSUES

- If an IP camera does not support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.
- H.265 is not supported via the Genetec VMS, the "Passive RTP" streaming mode and the HTTP streaming mode.
- In rare case, the video could freeze when configuring a data source to RTSP or ONVIF/RTSP and setting the streaming mode to TCP.

## FIRMWARE 6.7.1.0

---

### Resolved Issues

- No new resolved issue.

---

### New FEATURES

- Added support for the Milestone integration with the new Milestone / IONODES plug-in.

---

### KNOWN ISSUES

- If an IP camera does not support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.
- H.265 is not supported via the Genetec VMS, the "Passive RTP" streaming mode and the HTTP streaming mode.
- In rare case, the video could freeze when configuring a data source to RTSP or ONVIF/RTSP and setting the streaming mode to TCP.



## FIRMWARE 6.7.0.1

---

### Resolved Issues

- No new resolved issue.

---

### New FEATURES

- Disabled 3DES and RC4 cipher suite.

---

### KNOWN ISSUES

- If an IP camera does not support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.
- H.265 is not supported via the Genetec VMS, the "Passive RTP" streaming mode and the HTTP streaming mode.
- In rare case, the video could freeze when configuring a data source to RTSP or ONVIF/RTSP and setting the streaming mode to TCP.

## FIRMWARE 6.7.0.0

---

### Resolved Issues

- No new resolved issue.

---

### New FEATURES

- Disabled security protocol TLS 1.0 and TLS 1.1.
- Force TLS 1.2 for any inbound and outbound communications with the SDS.

---

### KNOWN ISSUES

- If an IP camera does not support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.
- H.265 is not supported via the Genetec VMS, the "Passive RTP" streaming mode and the HTTP streaming mode.
- In rare case, the video could freeze when configuring a data source to RTSP or ONVIF/RTSP and setting the streaming mode to TCP.

## FIRMWARE 6.6.0.0

---

### Resolved Issues

- No new resolved issue.

---

### New FEATURES

- Added a new Media Library feature. The media library allows the user to upload and manage all media files (videos & images) in the SDS.
- Image carousel images are now managed through the media library.
- Added a new type of data source: "Video File" to play MP4 video files (H.264 and H.265 video only). Video files are managed through the media library.
- Added support for portrait/landscape display orientations.
- Added PTZ control support directly from the web interface.
- Added support for Chromium version 90 for web tile display.
- Improved cybersecurity.

---

### KNOWN ISSUES

- If an IP camera does not support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.
- H.265 is not supported via the Genetec VMS, the "Passive RTP" streaming mode and the HTTP streaming mode.
- In rare case, the video could freeze when configuring a data source to RTSP or ONVIF/RTSP and setting the streaming mode to TCP.

## FIRMWARE 6.5.1.5

---

### Resolved Issues

- Fixed an issue that may cause the device to be non-responsive after a long period of time of use.

---

### New FEATURES

- Cybersecurity.improvements.

---

### KNOWN ISSUES

- If an IP camera does not support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.
- H.265 is not supported via the Genetec VMS, the "Passive RTP" streaming mode and the HTTP streaming mode.
- In rare case, the video could freeze when configuring a data source to RTSP or ONVIF/RTSP and setting the streaming mode to TCP.

## FIRMWARE 6.5.1.4

---

### Resolved Issues

- Fixed an issue when requesting a RTSP stream from a camera and the camera provides a non-empty Content-Base field. In this case, it will be used in the PLAY command.

---

### New FEATURES

- No new feature.

---

### KNOWN ISSUES

- If an IP camera does not support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.
- H.265 is not supported via the Genetec VMS, the "Passive RTP" streaming mode and the HTTP streaming mode.
- In rare case, the video could freeze when configuring a data source to RTSP or ONVIF/RTSP and setting the streaming mode to TCP.



## FIRMWARE 6.5.1.2

---

### Resolved Issues

- No new resolved issue.

---

### New FEATURES

- Improvements for the Panasonic keyboard integration
  - When returning to its idle state, the LCD on the PTZ keyboard now shows the current selection, if any. (Previously cleared the LCD.)
  - Trying to select a camera while no tile is selected now displays appropriate feedback. (« No tile selected »)
  - Cycling through tiles now includes tile 0 (no tile selected).
  - Changing the selected camera not long unselects the tile.
- Added a new setting to display the ID of each tile at the top of that tile. For tile displaying an OSD, the OSD overrides the display of the tile ID.

---

### KNOWN ISSUES

- If an IP camera does not support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.
- H.265 is not supported via the Genetec VMS, the "Passive RTP" streaming mode and the HTTP streaming mode.
- In rare case, the video could freeze when configuring a data source to RTSP or ONVIF/RTSP and setting the streaming mode to TCP.

## FIRMWARE 6.5.1.0

---

### Resolved Issues

- Fixed an issue where memory corruption could block a stream and the user interface.

---

### New FEATURES

- Improvements for the Panasonic keyboard integration
  - PTZ keyboard can now select a tile by cycling through tiles using {Mon, +/-, MON}.
  - PTZ keyboard can now select a camera by cycling through enabled data sources using {CAM, +/-, CAM}
  - The tile or camera selected are now displayed on the PTZ keyboard.
  - Selected tile is now highlighted in yellow rather than a darker blue, for visibility.
  - Reworked tile selection with a mouse: only one tile selected at a time, no unselect timeout.
  - Save the configuration after each change that the operator does from the Panasonic keyboard.

---

### KNOWN ISSUES

- If an IP camera does not support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.
- H.265 is not supported via the Genetec VMS, the "Passive RTP" streaming mode and the HTTP streaming mode.
- In rare case, the video could freeze when configuring a data source to RTSP or ONVIF/RTSP and setting the streaming mode to TCP.

## FIRMWARE 6.5.0.8

---

### Resolved Issues

- Fixed some issues with the Genetec integration that could prevent the different video streams to be cleaned correctly when switching a camera in a video tile. This issue required a reboot every 3 to 7 days.
- Fixed an issue with the Genetec integration that could generate an error when reconfiguring the OSD.
- Fixed an issue with the Genetec integration when the Genetec API send an empty parameter. This issue could result in a leak of connections.
- Fixed an issue that could crash the application when updating the graphs.

---

### New FEATURES

- No new feature.

---

### KNOWN ISSUES

- If an IP camera doesn't support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.
- H.265 is not supported via the Genetec VMS, the "Passive RTP" streaming mode and the HTTP streaming mode.
- In rare case, the video could freeze when configuring a data source to RTSP or ONVIF/RTSP and setting the streaming mode to TCP.

## FIRMWARE 6.5.0.6

---

### Resolved Issues

- Fixed an issue where a video stream can freeze after 50 days.
- Fixed an issue with some ONVIF cameras that don't accept a continuous PTZ call with ptz speed if the camera has only the zoom capability.
- Fixed an issue with some ONVIF cameras that stopped processing a PTZ command after a certain time of inactivity.
- Fixed an issue when adding a camera supporting only the ONVIF Profile S with the PTZ capabilities.
- Improved error handling when processing a corrupted RTP stream (packet lost for example).

---

### New FEATURES

- No new feature.

---

### KNOWN ISSUES

- If an IP camera doesn't support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.
- H.265 is not supported via the Genetec VMS, the "Passive RTP" streaming mode and the HTTP streaming mode.
- In rare case, the video could freeze when configuring a data source to RTSP or ONVIF/RTSP and setting the streaming mode to TCP.

## FIRMWARE 6.5.0.4

---

### Resolved Issues

- Fixed an issue where a camera that is supporting only the zoom command is not detected as a PTZ camera.
- Managed in a better way the liveness of a video stream.
- Fixed an issue with RTSP connection with some camera models (when a SDP media line includes port ranges (ex: m=video 49170/2 RTP/AVP 31))

---

### New FEATURES

- No new feature.

---

### KNOWN ISSUES

- If an IP camera doesn't support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.
- H.265 is not supported via the Genetec VMS, the "Passive RTP" streaming mode and the HTTP streaming mode.
- In rare case, the video could freeze when configuring a data source to RTSP or ONVIF/RTSP and setting the streaming mode to TCP.

## FIRMWARE 6.5.0.0

---

### Resolved Issues

- No new resolved issue.

---

### New FEATURES

- Added support for decoding of H.265.
- Added support for discovering cameras supporting Profile T.

---

### KNOWN ISSUES

- If an IP camera doesn't support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.
- H.265 is not supported via the Genetec VMS, the "Passive RTP" streaming mode and the HTTP streaming mode.
- In rare case, the video could freeze when configuring a data source to RTSP or ONVIF/RTSP and setting the streaming mode to TCP.

## FIRMWARE 6.4.1.1

---

### Resolved Issues

- Fixed an issue with some cameras where the HTTP header Expect: 100-continue is not supported by the camera.

---

### New FEATURES

- Added the load default settings feature directly from the main user interface of the SDS. To use this feature, a keyboard and a mouse must be connected directly on the SDS. Once connected, the operator must switch the SDS in "Safe Mode" by pressing at the same time both "Shift" keys on the keyboard. When switching in safe mode, a new button will appear in the upper bar allowing to initiate a load default settings.

---

### KNOWN ISSUES

- If an IP camera doesn't support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.

## FIRMWARE 6.4.1.0

---

### Resolved Issues

- No new resolved issue.

---

### New FEATURES

- Re-enabled the web tile.
- Improved the cybersecurity feature set:
  - Disable CORS
  - Force a password change on first login.
  - Re-enforce the password creation by requiring that 3 out of 4 rules must be met (1 lowercase, 1 uppercase, 1 number and 1 special character). The password must be at least 8 to 32 characters.
  - Improved the security related to the cross-site scripting and clickjacking.
  - Made configurable the possibility to enable a protection against multiple failures during the login.
  - Added the possibility to manage the lifetime of a digest nonce.
  - Clear the user session when a user logout from the web page.
  - Updated the built-in web browser to a Chromium based web browser.

---

### KNOWN ISSUES

- If an IP camera doesn't support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.



## FIRMWARE 6.4.0.0

---

### Resolved Issues

- No new resolved issue.

---

### New FEATURES

- Added support for the Panasonic WV-CU980 PTZ keyboard.
- Added the possibility to have 96 data sources instead of 32 data sources. This feature can be activated via the web page in the Configuration / System / Features section.

---

### KNOWN ISSUES

- If an IP camera doesn't support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.
- The Web display tile has been disabled temporarily.

## FIRMWARE 6.3.0.0

---

### Resolved Issues

- No new resolved issue.

---

### New FEATURES

- Added support for 4K display monitor.
- Added a new output resolution, "best available". This resolution will choose the highest resolution available by default.
- Added a new option to display the stream details remotely from the web page.
- Improved the video rendering performance.

---

### KNOWN ISSUES

- If an IP camera doesn't support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.
- The Web display tile has been disabled temporarily.

## FIRMWARE 6.2.1.1

---

### Resolved Issues

- No new resolved issue.

---

### New FEATURES

- Added support for OEM skin.

---

### Notes

- The maximum supported resolution is 1080p. If the device is connected to a higher resolution screen, the resolution will be automatically set to 1080p.

---

### KNOWN ISSUES

- If an IP camera doesn't support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.

## FIRMWARE 6.2.0.4

---

### Resolved Issues

- Improved the bootup time.
- Hide the automatic stream details information when a camera is disconnected from the SDS. The stream details could contain sensitive information.
- Fixed an issue when synchronizing with an EEN configuration which can cause synchronization to fail.

---

### New FEATURES

- No new feature.

---

### Notes

- The maximum supported resolution is 1080p. If the device is connected to a higher resolution screen, the resolution will be automatically set to 1080p.

---

### KNOWN ISSUES

- If an IP camera doesn't support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.

## FIRMWARE 6.2.0.2

---

### Resolved Issues

- Fixed a display issue when using a 4K screen where the image could be scaled at a lower resolution.

---

### New FEATURES

- No new feature.

---

### Notes

- The maximum supported resolution is 1080p. If the device is connected to a higher resolution screen, the resolution will be automatically set to 1080p.

---

### KNOWN ISSUES

- If an IP camera doesn't support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.

## FIRMWARE 6.2.0.1

---

### Resolved Issues

- Fixed an issue that could prevent the creation of a PTZ preset.

---

### New FEATURES

- No new feature.

---

### KNOWN ISSUES

- If an IP camera doesn't support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.

## FIRMWARE 6.2.0.0

---

### Resolved Issues

- No new resolved issue.

---

### New FEATURES

- Added support for PTZ control for ONVIF cameras directly from a video tile.
- Added support for presets control / management for ONVIF cameras directly from a video tile.
- Added support for maximizing a video tile on a mouse double click.
- Added a manual discovery to the discovery wizard in case multicast is not supported on the network.

---

### KNOWN ISSUES

- If an IP camera doesn't support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.

## FIRMWARE 6.1.1.2

---

### Resolved Issues

- Fixed an issue with RTSP requests overriding the proposed multicast transport with an unicast transport.
- Fixed some issues when retrieving the configuration of a camera via ONVIF.

---

### New FEATURES

- No new feature.

---

### KNOWN ISSUES

- If an IP camera doesn't support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.



## FIRMWARE 6.1.1.0

---

### Resolved Issues

- Fixed an issue when activating the accept HTTPS only feature.

---

### New FEATURES

- Added a new data source type to display a picture carousel.
- Improved the security by disabling the access to the task manager.
- Added a new 3x2 tile layout.

---

### KNOWN ISSUES

- If an IP camera doesn't support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.

## FIRMWARE 6.1.0.6

---

### Resolved Issues

- Fixed a potential memory leak when connecting and disconnecting a screen.

---

### New FEATURES

- Added a new watchdog which restarts the decoder application if the memory goes to high.
- Improved memory management.

---

### KNOWN ISSUES

- If an IP camera doesn't support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.

## FIRMWARE 6.1.0.3

---

### Resolved Issues

- Fixed an issue during boot-up where the UI could sometimes stall if a screen is in sleep mode or connected through a KVM switch (or similar device).
- Fixed an issue causing the web interface to report an error when displayed locally on the device.
- Fixed an issue that could cause the device to crash following a Bonjour discovery request.
- Fixed a memory leak that could cause the device to crash after weeks of uninterrupted operation.
- Fixed an issue where the 'Accept HTTPS Only' setting is not applied correctly.
- Fixed an issue preventing HTTPS access to the web page.
- Fixed an issue where the OnVif discovery returns no camera.

---

### New FEATURES

- SMBv1 support is now disabled in the device. A known vulnerability in SMBv1 is sometimes used in ransomware attacks. This vulnerability is not present in the Secure Display Stations, but this provides an additional layer of protection from such attacks.
- Small improvements in the video playback performance.
- When receiving video from a camera over RTSP/UDP, unwanted data from sources other than the camera is now filtered out. Before this fix, packet losses could be reported.
- Added support for secured events in the web page.
- Integration of the Eagle Eye Network cloud service.

---

### KNOWN ISSUES

- If an IP camera doesn't support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.

## FIRMWARE 6.0.1.3

---

### Resolved Issues

- Fixed an issue showing a script error when the user is automatically logged out from the web page.

---

### New FEATURES

- Added a protection to restart the decoder in case of an unexpected crash.

---

### KNOWN ISSUES

- If an IP camera doesn't support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.

## FIRMWARE 6.0.1.2

---

### Resolved Issues

- Fixed an issue when processing RTSP responses with partially-specified port pairs.

---

### New FEATURES

- No new feature.

---

### KNOWN ISSUES

- If an IP camera doesn't support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.

## FIRMWARE 6.0.1.1

---

### Resolved Issues

- Fixed an issue when formatting the information to the system information file.
- Fixed an issue while parsing aggregated RTP packets on some camera models.
- Added extra protection while processing RTSP/TCP interleaved data.

---

### New FEATURES

- No new feature.

---

### KNOWN ISSUES

- If an IP camera doesn't support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.

## FIRMWARE 6.0.1.0

---

### Resolved Issues

- Fixed an issue that could cause video latency at long-term.
- Fixed an issue where all video tiles could be white after a reboot.

---

### New FEATURES

- Improved the information about the connection status.

---

### KNOWN ISSUES

- If an IP camera doesn't support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.

## FIRMWARE 6.0.0.0

---

### RESOLVED ISSUES

- Fixed an issue causing the NTP server address not to be persisted through a device reboot.
- Fixed a memory leak that could cause the device to crash after several days when running a view sequence.
- Fixed an issue where the application could stop working during the bootup when a screen is no longer detected.
- Fixed an issue where a video tile could switch between a red ring and a video frame and vice-versa constantly.
- Fixed an issue where the stream details can now be rendered at the same time as an overlay string (previously, mutually exclusive).

---

### NEW FEATURES

- Significantly reduced the video decoding latency.
- Added limited support for 802.1X.
- Added support for source-specific multicast (SSM) for data sources using RTSP/UDP.
- On-screen display strings can now be displayed using either Arial or Impact fonts.
- Video connection errors are now reported when displaying the streaming details.
- When changing the display output resolution locally on the device, the web interface will now ask to confirm that the new settings are good, else automatically revert to the previous settings.
- Changed the configuration user interface by using HTML 5.
- Added to the video stream details the information indicating if the current stream supports the RTCP sender's report.
- Added an automatic stream details indicating that the connection to a camera doesn't work (wrong rtsp url, wrong credentials, network failure, etc).

---

### KNOWN ISSUES

- If an IP camera doesn't support sending an RTCP sender's report, the video latency could not be guaranteed at long-term.



## FIRMWARE 5.5.1.0

---

### RESOLVED ISSUES

- No new resolved issue.

---

### NEW FEATURES

- Added a new configuration attribute which allows to configure the video decoder buffering (0 to 250ms). This configuration attribute is by data source.

---

### KNOWN ISSUES

- In rare situation, the physical display outputs switch from video input 1 to video output 2 and vice-versa.

## FIRMWARE 5.5.0.6

---

### RESOLVED ISSUES

- Fixed an issue when running a sequence and at the same time using Genetec to configure the decoder.

---

### NEW FEATURES

- Added a new layout (5+2, 2+5).

---

### KNOWN ISSUES

- In rare situation, the physical display outputs switch from video input 1 to video output 2 and vice-versa.

## FIRMWARE 5.5.0.5

---

### RESOLVED ISSUES

- Fixed stability issues with the video streaming.
- Improved the RTSP multicast streaming negotiation.
- Fixed an issue when changing the ip address of the device which prevent the reconnection of a video stream.
- Fixed an issue with the Genetec integration.
- Fixed an issue with the OnVif discovery.
- Fixed an issue causing video tiles to stall with a white background (connected but no video)

---

### NEW FEATURES

- Added a new diagnostic mode.
- Added support up to four view sequences.

---

### KNOWN ISSUES

- In rare situation, the physical display outputs switch from video input 1 to video output 2 and vice-versa.

## FIRMWARE 5.4.0.6

---

### RESOLVED ISSUES

- No new resolved issue.

---

### NEW FEATURES

- Added a sanity check at boot-up to verify that the OS protection software is configured adequately.

---

### KNOWN ISSUES

- No known issue.

## FIRMWARE 5.4.0.5

---

### RESOLVED ISSUES

- Improved screen resolution management.

---

### NEW FEATURES

- Added a new watchdog to monitor the available resources.

---

### KNOWN ISSUES

- No known issue.

## FIRMWARE 5.4.0.4

---

### RESOLVED ISSUES

- Added support for the RTSP url redirection.
- Fixed an issue when requesting an HTTP stream if the HTTP header is in a case-sensitive way.

---

### NEW FEATURES

- No new feature.

---

### KNOWN ISSUES

- No known issue.

## FIRMWARE 5.4.0.3

---

### RESOLVED ISSUES

- No new resolved issue.

---

### NEW FEATURES

- Initial release of the R100S.

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### KNOWN ISSUES

- No known issue.