

## INTELLIO VIDEO SYSTEM



# Software releases

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### **2025.11.07 v5.9.3.2**

- Client, Display: In multi-monitor mode, errors could occur when connecting to or disconnecting from a site if cameras, maps, or other elements were displayed on the secondary monitor.

### **2025.11.05 v5.9.3.1**

- Client, Map/ExecuteExternalAlarmCenterCommand: Execution of ATS commands from the map now runs in the background.
- Client, SecurityUserDlg: When editing or adding an IVS user, the editor window did not open if retrieving the ATS user list failed (e.g., on Virtual Servers where ATS is not supported).
- Client, SecurityUserDlg: When adding or editing ATS–IVS user associations, the editor window did not open in case of an error; now an error message window appears.
- Client, Map: During site connection or disconnection, displays are cleared while maps are reloaded.
- Client, Map: All maps are now reloaded when connecting or disconnecting from a site to ensure that inter-map references are refreshed.
- Client, Map: When editing an OSM map, the map data linked to the edited node was deleted from the server, making it inaccessible after restarting the client.
- Client, Map: Added the ability to restore OSM maps deleted by the previous fix. To restore, open the Location settings interface and click OK.

### **2025.09.29 v5.9.2.2**

- Server, Security: In virtual server environments, an error could occur when deleting a User or Role (due to a reference to AlarmMgr). As a result, the Domain synchronization process did not complete, and the request was not propagated to the lower-level sites.

### **2025.09.26 v5.9.2.2**

- Client: Integration of client-side changes from version v5.9.1.4 (2025.09.22).

### **2025.09.26 v5.9.2.1**

- Client/Server, License: Introduction of IVS-PRIVACY and IVS-IDG licenses.
- Client, Export: Introduction of the Face Masking option (requires an IVS-PRIVACY license).
- Client/Server, License: Implementation of IVS-PRIVACY and IVS-IDG licenses on the server side. The DownloadGateway connection now checks for the IVS-IDG module (instead of the IVS-SDK license).

### **2025.09.22 v5.9.1.4**

- Client, Intellio ILB Initio Thermal: In Professional VCA (for thermal cameras, Line Crossing and Intrusion), it was not possible to create a new rule in an empty slot — the device returned an error during configuration loading because no existing setting was found for the specified

RuleID. Now, the full Rule list is downloaded first, and the specified RuleID is located within that list (if it exists).

- Client, Localization: In the Hungarian translation, on the Thermometry detector interface of thermal cameras, the first tab "Rule" was automatically translated as "Csoport" (Group). This has been corrected to "Szabály" (Rule).

### **2025.09.17 v5.9.1.3**

- Client, Intellio ILB Initio Thermal: When creating a new Thermometry detector, saving the settings caused the camera to send an alarm event based on a 0 threshold value. (The camera likely activated the not-yet-configured rule immediately after the Scene configuration command was sent. Now, the configuration is first sent with a disabled value, and only afterward is it enabled through a separate command.)
- Client, Intellio ILB Initio Thermal: In Thermometry and Thermometry Diff detectors, invalid configurations did not display an error message (saving was simply not allowed).
- Client, AlarmDetectorModifyDlg: When saving detector settings and an error occurred, an unnecessary exception dump file was created.
- Client, Intellio ILB Initio Thermal: Fixed saving of the Pre-alarm filtering time value in Thermometry detector settings (it incorrectly saved the Alarm filtering time value instead).
- Client, Intellio ILB Thermal: When displaying EventInfo for Thermometry Sudden Change events, incorrect messages appeared in the debug log.
- Client, Intellio ILB Initio Thermal Camera: When creating a new VCA detector, if the rule in the camera (RuleID) had never been used or initialized before, a loading error occurred.
- Intellio Gateway 20250801.v5.8.0.1
- Gateway, Monitoring: Added dual-stream support for live monitoring.
- Server, Intellio ILB Initio Thermal: Fixed an issue where a Sudden Change signal from a Thermometry detector incorrectly triggered an additional pre-alarm event in IVS.

### **2025.09.15 v5.9.1.2**

- Client, AlarmControlCenter: Restored the "+" sign before top-level items (categories) in the detector list (tree view), since previously it was unclear that, for example, the Hidden group could be expanded.
- Client, Intellio ILB Initio LineCrossing/Intrusion: For thermal cameras (Professional VCA), any combination can now be selected in Target Filtering settings (previously, Others could only be selected by itself).
- Client, Intellio ILB Initio Thermal LineCrossing/Intrusion: Updated handling of LineCrossing/Intrusion configuration interfaces for thermal cameras to support the new thermal camera firmware (v5.5.322 build 250701).
- Client, Localization: Minor correction in the Hungarian translation (an unnecessary colon appeared after "diff" in the Thermometry Diff. detector event info).
- Server, Intellio ILB Initio Thermal: In the Thermometry detector Sudden Change signal, the camera sent the notification as a prealarm, which previously prevented an event from being triggered. The system now ignores the prealarm flag for Sudden Change signals and always triggers the event.

- Server/HNetHelper, Intellio ILB Initio Thermal: Enhanced debug logging for camera signals related to Thermometry and Thermometry Diff. detectors.
- HNetHelper: Adjusted StdXmlConfig() call to handle larger XML return values (e.g., when saving VCA detector configurations for thermal cameras).

### **2025.09.08 v5.9.1.1**

- Client/Server, Intellio ILB Initio Thermal: Thermometry detector extended with the Sudden Change option (configuration interface, notifications, and EventInfo)
- Client/Server, ILB Initio Thermal: Implementation and usage of Sudden Change alarm/restore event codes for the Thermometry detector
- Client/Server, Intellio ILB Initio Thermal: Thermometry Difference (Diff.) detector added (configuration interface, detector logic, notifications, and EventInfo)
- Client/Server, ILB Initio: Added support for ThermometryDiff (Thermometry Comparison) detector and configuration interface + introduction of the “supported” option  
Two “area”-type regions (rules) already existing in the camera must be selected for comparison, but these areas cannot be viewed or edited from this detector interface — they must be created in advance.
- Client/Server, Intellio ILB Initio Thermal: Extended Initio Thermometry and Thermometry Diff. detector events with detailed EventInfo
- HNetHelper/Server/Client, ILB Initio Thermal: Receiving ThermometryDiff (Thermometry Comparison) detector signals and implementing the ThermometryDiff detector on the server side

## **2025H1 release news**

### **Documentation**

- New, more detailed and user-friendly documentation package introduced

### **Display and Operation Enhancements**

- Improved support for multi-monitor setups
- Enhanced PTZ preset-based playback
- Fixed live view issues after camera handover/takeover
- Critical communication system stability improvements

### **Mobile Client App – New Features**

- Swipe navigation between cameras in both Live and Playback modes
- Preview image shown while live view is loading (Live and Playback)
- Animated transitions when swiping between cameras
- Redesigned Server Browser page:
  - Includes preview layout with camera thumbnails
  - Portrait mode: vertical list
  - Landscape mode: horizontal list
  - Rearrange servers by long-press and drag

- Redesigned side menu

### **Device-Side Playback Support for Hanwha and Hikvision Devices**

- **Normal Mode:** Video streams are stored on the IVS server and played back from the server in the IVS Client
- **Edge Playback Mode:**
  - Direct playback from storage built into the NVR
  - Playback accessible directly from the IVS Client interface
  - NVRs can be added and registered; channel inputs can be enabled or disabled as needed
  - Encoder profiles can be configured per channel
  - Live video handling and display improvements

**New License:** IVS-OCS+

### **Map Feature Enhancements**

- Map support now available for all sites in a Domain, not just the primary
- Models on the map can now be stretched along individual axes

### **2025.07.30 v5.8.2.10**

- Server, Communication: Fixed authentication error when logging in as a client
- Server, Edge playback: Improved handling of MPEG4/H264/H265 recordings

### **2025.06.30 v5.8.2.10**

- Client, RCDisplay: Fixed PTZ zoom control with middle mouse button

### **2025.06.30 v5.7.5.9**

- Client, RCDisplay: Fixed PTZ zoom control with middle mouse button

### **2025.06.25 v5.8.2.9**

- Client/Server/Gateway, RCCommunication.TCPSocket: Critical stability fix in the communication system (in some cases, the CPU was loaded to 100%)
- Server, Intellio Gateway v5.7.1.1

### **2025.06.25 v5.7.5.8**

- Client/Server/Gateway, RCCommunication.TCPSocket: Critical stability fix in the communication system (in certain cases, the CPU was loaded to 100%)
- Server, Intellio Gateway v5.7.1.1

### **2025.06.24. v5.8.2.8**

- Client, ClientAlarmMgr: Modification of detector list query (for faster interface refresh)

### **2025.06.23. v5.8.1.5a**

- Server, HCNetHelper (HCNetHelper v5.8.2.1): Improvement of NVR login

### **2025.06.20. v5.8.2.7**

- Server, ATS: ModifyUser keeps the current PIN set for ATSUser
- Client: ATSUserDialog displays a dummy value in the PIN entry field during editing
- Client, AlarmCenterDetector interface: IVS User Change rights are required to use the ATS User Management interface
- Client/Server, ExternalAlarmMgr: Addition of further ATS event codes
- Server, ExternalAlarmMgr: Filtering of detector list for client user based on ATS user permissions (Area, Zone) (but AlarmCenter is not filtered, as IVS-ATS mapping would not see them either)
- Server, ExternalAlarmMgr: Linking ATS User Management commands to permissions (IVS User editing rights)
- Server/Watchdog, RCEmailNotifyClient: Fixing the launch of RCErrorReporter.exe, as it may cause errors on certain Windows systems

### **2025.06.06 v5.7.5.7**

- Client, RCVideoMonitoring: Fix for decoded elements of ReferenceFrame after decoding (fewer frames are left out of display if display is lagging)
- Server, VideoMonitoringMgr: Improved live image display after camera takeover/retake in multi-server sites (if it stopped, sometimes the live image did not restart on the client (especially secondary streams))

### **2025.06.03 v5.7.5.6**

- Client/Server, RCData: Improved management of ILD cameras

### **2025.05.26. v5.8.1.5**

- Server, RCRTSPClient: Replacement of LongBool type parameters with Boolean type (e.g. necessary correction for Einar camera)

### **2025.05.16. v5.8.1.5**

- Client, RCVideoMonitoring: Fix for decoded elements of ReferenceFrame after decoding (fewer frames are left out of display if display is lagging)

### **2025.05.15. v5.8.1.4**

- Server, Hikvision Playback: Implementation of Hikvision Timeline functionality
- Server, Hikvision Playback: Implementation of Hikvision Playback functionality

- Server, HikvisionDeviceBase: Support for Hikvision NVR (digital IP channels)
- Client/Server, License: Support for IVS-ENTRY licenses (ATS)
- Server, Activation Tool v5.8.0.1
- Server, HCNetHelper v5.8.1.1
- Server, RCONboardPlaybackTimeline: Fix TRCONboardPlaybackTimeline.GetTimelineInfo()
- Server, RCTimeLineIntervalList: Fix TRCTimeLineIntervalList.MergeRanges()
- Server, RCStorageReader.OnboardCamera/Timeline: Fix TRCONboardCameraStorageReader.GetEventList()

### **2025.05.15 v5.7.5.6**

- Client, CameraManagerControlCenter: Improvement of Online/Offline and Enabled/Disabled filters
- Client, RCONvifProfileSettingsDlg: Improvement of AudioEncoderConfigurationToken Media1 token usage
- Client, SiteConnection/VideoMonitoring: Improved live video monitoring in multi-server sites (in case of server loss, the client did not always update the camera list, and therefore the live video did not start after the other server took over the camera)
- Client, Playback, Audio: Improved display of incorrect audio channels on the timeline when jumping to playback
- Client, AudioPlayer: Fixed Invalid UTCTime exception
- Client, Playback: Improved PTZ preset-based playback
- Client: Improved display of the login window (did not always appear above MainForm)
- Client, Display: Fixed playback timeline (in multi-monitor mode, if a camera was dragged from the secondary monitor to a camera in playback, that camera remained on the timeline and playback became inconsistent)
- Client, Display: Improved multi-monitor mode (if a camera was set to full screen on the secondary monitor, playback would stop)
- Client: Fixed PTZ control stuttering on secondary monitors

### **2025.04.24 v5.8.1.3**

- Client, SiteConnection/VideoMonitoring: Improved live video monitoring in multi-server sites (in case of server loss, the client did not always update the camera list, and therefore the live video did not start after the other server took over the camera)
- Client, RCONvifProfileSettingsDlg: Improved use of AudioEncoderConfigurationToken Media1 token
- Client, CameraManagerControlCenter: Improved Online/Offline and Enabled/Disabled filters
- Client, Samsung/Hanwha: Improved handling of the Profile tab in Edge Playback mode on the CameraManager interface
- Server, Communication.System: Improved checking of the new mobile client platform version number, which incorrectly prevented the gateway from connecting to the server

- Server, OnboardPlayback: We do not start downloading the last 1 minute of recordings (instead, it will be No Data, so it will not start waiting immediately after entering the Playback page if the current time is selected)
- NVR: Use the same session ID for all LIVE RTSP streams per device
- NVR: Use the same session ID for all PLAYBACK RTSP streams per device
- Server, Samsung/Hanwha: If the number of audio or video channels of the device changed after adding it, it could remain offline and the connection could not be established
- Server, Samsung/Hanwha: Standardization of RTSP port usage for RTSP URL queries
- Server, Samsung/Hanwha: Correction of substream URL for NVR live streams
- Samsung: Correction of LIVE RTSP uri determination for cameras (NWC) and network video recorders (NVR)

### **2025.01.31 v5.8.1.2**

- Client, CameraManagerControlCenterItem: Disable motion detection feature (icon, filtering) when using Edge Playback
- Client, HikvisionBaseClientCameraFrm: Disable recording profile when using Edge Playback
- Client, SamsungClientCameraFrm: Disable recording profile and hide motion detection tab when using Edge Playback
- BaseClientCameraFrm: Hide the server-side ANPR tab when Edge Playback is enabled (and the ANPR feature is not enabled)
- Client, CameraManagerControlCenterItem: Disable the Motion detector menu item in the camera list pop-up menu when Edge playback is enabled
- Client, CameraManagerControlCenterItem: Disable the Enable SmartMetaData menu item in the camera list popup menu if Edge playback is enabled (unless SmartMeta is currently enabled, in which case it can still be disabled)
- Client, RCSetupDeviceCameraChannelsDlg: Fix the Enable/Disable camera channels window (the Apply and OK buttons were disabled)
- Client, Samsung/Hanwha: Fixed the profile list in the Profiles tab of the camera list (profile list not filtered by ChannelID)
- IntellioGateway v5.7.0.1 (x64)
- Server, Samsung/Hanwha OnboardPlayback: Delete GetSessionKey and GetOverlappedIdArray calls for compiling Playback RTSP url
- Server, DeviceMgr/Samsung/Hanwha: Set the Use explicit RTSP port option when adding a Samsung/Hanwha device
- Server, ServerMain: When shutting down the server, DeviceManager should only be released after Storage.
- Server, DeviceMgr: Expand camera license management (due to OCS/OCS+/OCS++ overlaps)
- Server, Samsung/Hanwha: Connection data correction
- Server, Storage: Correction of incorrect storage deadlock signal (due to event storage group)
- Server, License: Extension of OnboardStorage and OnboardPlayback functions
- Server, DeviceMgr/License: Reporting the number of OCS+ licenses in use to the client - correction

- Server, OnboardPlaybackTimeline: Timeline cache correction
- Server, ATS.dll: DeviceConfiguration query correction
- Server, RCRTSPClient-9.dll: GET\_PARAMETER support check returned an error in case of an empty response to the OPTIONS command

### **2025.01.16 v5.8.1.1**

- Client/Server: Added support for OnboardPlayback (requires INT or OCS+ license per camera channel)
- Hanwha/Samsung NVR: Added support for GetTimeline and RTSPClient with rate control feature
- Client, CameraManagerControlCenter: Displayed the status of UseOnboardPlayback (Edge Playback) in the "features" column, rename the Download missing frames item to Edge Storage in the feature selector
- Client, CameraManagerControlCenter: Feature selector now uses OR-based filtering instead of AND-based - previously, cameras had to support all selected features to be shown; now they are shown if any selected feature is enabled.
- Client, CameraMgr: Introduced TRCBaseClientCamera.UseOnboardPlayback status so that Edge Playback capability can be shown in the camera list's features column.
- Server, RConboardPlaybackCameraReader: When starting or stopping a download, the number of keyframes is now considered in addition to the time
- Server, Samsung/RCSamsungCameraOnboardPlaybackDownloadSession: For onboard RTSP downloads, we use the codec corresponding to the VideoProfile settings in effect when the device connection is established as the RTSP MimeType.
- Server, Samsung: Implementation of GetOnboardPlaybackSupported() in Update()
- Client/Server, Samsung: Extension of TEncodingType enum with H265 value
- Server, RConboardPlaybackCameraReader: Stopping the download even if we have reached a larger, already downloaded part (which would be unnecessary to download again)
- Server, RConboardPlaybackCameraReader: Modify timeout values: 1. Increase wait time for first image to 15 seconds; 2. In case of Locate/StepBackward, start download from T-30 seconds
- Server, RConboardPlaybackCameraReader: In the case of StepBackward/Forward, if there is a gap (in a given direction) within 1 minute, we start the download in advance (if no other download is running) so that the frames are available by the time the playback reaches that point
- Server, RConboardPlaybackCameraReader: Increase the size of the downloaded frame cache (60\*25 primary, 10\*60\*25 secondary size (frames) - 1 or 10 minutes of recording)
- Server, RConboardPlaybackCameraReader: Download missing parts in LocateBackward/StepBackward even if the time of the previous key frame is unknown
- Server, OnboardPlayback: In the case of a multi-server site, only start the download on the camera's own server
- Server, RConboardPlaybackCameraReader: Extend the download timeout to 10 seconds
- Server, RConboardPlaybackCameraReader: Delay the download stop (stop only if the download has exceeded the current playback time by more than 3 minutes)

- Server, RConboardPlaybackCameraReader: Do not start a new download if the current time is correct and we can continue (we are no more than 5 seconds away from the new StartTime)
- Server, RCStorageReader.OnboardCamera: StorageFlagReferenceFrame fix for playback
- Server, RConboardPlaybackCameraDownloadSessionRtspBase: RTSP key image handling fix
- Server, RCStorageReader.OnboardCamera: Implementation of Onboard Playback GetEventList() (Timeline query)
- Server, RCComponent: Delete GetExternalAlarmStates calls from debuglog
- Client/Server/Gateway, RCOpenSSLUtils: OpenSSL fix

### **2024.11.06. v5.8.0.10**

- Client, Map: Added option to stretch models along individual axes
- Client, Map: Support for displaying detectors linked to Alarm Center on the map
- Client, SmartDetectors: Localization of SmartSearch and SmartLive detector names/descriptions
- Client, Map: Stability improvements when adding Panoramas

### **2024.10.29. v5.8.0.9**

- Client, Map: Map now supported on all sites within a Domain, not just the primary
- Client, Map: A detector can now be added to the map only once (previously, duplicates were allowed)
- Client, Map: Site names now displayed in the map view tree
- Client: Login window appears above the main window in multi-monitor setups
- Client, Map: Fixed issue where the end of label texts were not visible in certain cases
- Client, Map: Smart Live detectors can now be added to the map
- Client, Map: General stability improvements
- Client, ExternalAlarmMgr: Hungarian localization fixes
- Server, ExternalAlarmMgr: Modified handling of EventCodes Burglar Alarm (7) and Burglar Restore (13) to signal/restore type
- Server, ATS: Unified error handling
- Server, ATS: Improved query of properties related to triggers
- Server, ATS: Implemented select.Output/return.Output
- Server, ATS: Fixed ExecuteTriggerCommand()
- Server, ATS: Implemented SetAreaWithZones()
- Server, ATS: Fixed SetAreaWithZones()
- Server, ATS: Fixed Area.Reset

### **2024.10.18. v5.8.0.8**

- Client, ExternalAlarmMgr: Excluded certain elements (timestamp, unique\_id, logType, event\_ID, sessionType) from EventInfo text for external detector events

- Client, Map: Check for existence of Camera, Detector, ExternalObject, Action, Partition before creating them on the map
- Client, ExternalAlarmMgr: Improved spacing in the state and assigned items columns of ExternalAlarmDetector list
- Client, ExternalAlarmMgr: Hungarian localization fixes
- Client, ExternalAlarmMgr: Minor text corrections
- Server, ExternalAlarmMgr: Zone and Area detector AssignedZone/Area lists remained empty after processing ATS config
- Server, ATS: Added reconnect to device if necessary (fix)

### **2024.10.15. v5.8.0.7**

- Client, Map: ATS object header texts were unreadable when displayed in a small panel
- Client, AlarmControlCenter: Added Assigned Objects column for external detectors to show linked Zones and Areas
- Client, AlarmControlCenterItem: Added Alarm Centers view to Detectors interface
- Client/Server, ExternalAlarmMgr: Alarm events triggered by ExternalAlarmDetector and ExternalAlarmCenterDetector classes
- Client/Server, ExternalAlarmMgr: Added EventInfo to events for ExternalDetector and ExternalAlarmCenterDetector
- Server, IVS.ATS: Keypad functions
- Server, IVS.ATS: Expander functions
- Server, CentralStation functions
- Server, ExternalAlarmMgr: In multi-server sites, internal server connection was dropped on error during ExternalAlarmMgr call
- Server, ExternalAlarmMgr: In multi-server sites, the currently assigned Master server now maintains the connection with ATS centers instead of a fixed preassigned server; also handles master server switch
- Client/Server, ExternalAlarmMgr: Added EventCodes and event message texts
- Server, ATS: Correct ArealD usage for Expander & Keypad commands
- Server, ATS: Modified CentralStation and Trigger functionalities
- Server, ATS: DeviceConfiguration query is now forced on connection; afterwards, cached data is returned

### **2024.08.28. v5.8.0.6**

- Server, ExternalAlarmMgr: GetStates call gave incorrect results on slave servers
- Client, Map: Opening the Add Detector or External Object window could cause an error under certain conditions
- Client, AlarmManagerControlCenter: Detectors not displayed when connected to older servers without ExternalAlarmMgr
- Client, Map: Optimized tree expansion in Add Detector and External Object windows

**2024.08.27. v5.8.0.5**

- Client, Map/ExternalAlarmMgr: Removed unnecessary character from success message after sending external command from map
- Client, Localization: In Hungarian version, Area Set was translated as "Beállítás", changed to "Élesítés"

**2024.08.26. v5.8.0.4**

- Client, ExternalAlarmMgr/Map: Show success/failure messages after executing ExternalDetector commands
- Client, Map/ExternalAlarmMgr: Changed "successfully executed" message to "successfully sent" for external commands from map (since command execution may still fail after sending)

**2024.08.09. v5.8.0.3**

- Client/Server, ExternalAlarmMgr: Minor fixes
- Client, Map: Reorganized External object command list window to a button-based layout
- Client, Map: External object command list only shown when valid data is available
- Client, Map: External object alarm data now refreshes every 250ms
- Client, ExternalAlarmMgr: ExternalDetector commands and status expressions updated to be shorter, more concise, and expressive
- Client/Server, ExternalAlarmMgr: When executing ExternalAlarmDetector commands, exceptions are now thrown on error and displayed in the GUI (previously no feedback was provided)
- Client, ExternalAlarmState: Tuned status colors to ensure labels remain readable on the map
- Client, Map: Added support for object base color
- Client, Map: Improved label rendering quality for external objects
- Server, ExternalAlarmMgr/ATSCfg: If ATS connection data (e.g., PIN codes) is modified using ATSCfgEditor, the server now refreshes it for existing AlarmCenter connections at startup (host and port must still match, otherwise it is treated as a new connection as before)
- Server, ExternalAlarmMgr: Fixed a small memory leak that occasionally occurred on startup

**2024.08.07. v5.8.0.2**

- Server, RCSecurity: Improved server-side password strength validation

**2024.09.19. v5.7.1.1**

- Server, ARHarbard: Improved Einar connection handling (status query, reconnection)

**2024Q1 release news**

- Smart MetaData, SmartSearch support for Hanwha and Hikvision cameras
- Introduction and support of SmartLive detectors for Intellio Initio, Hanwha and Hikvision cameras

- Native support for Hikvision cameras (OCS license, audio/video, dual streaming, onboard motion detection, PTZ, I/O ports, smart metadata; without support for setup interfaces, device search and onboard detectors)
- Require password strength for IVS server connection (minimum 8 characters, lowercase+uppercase+number+character)
- Improve license plate list management
- Improve monitor wall management
- Improve LDAP management
- Toolbar page Licenses tab for displaying site licenses
- Introduction of INT-AR, OCS+, OCS++ licenses

### **2024.05.29. v5.7.0.6**

- Client, DeviceManagerControlCenter: Improved display of camera list
- Client, SmartFilter: Automatic scaling of list controls
- Client, SmartFilter: Improve display of internal border
- Client, SmartSearch: Hide the filter tab in Smart Detector configuration interfaces if no support is available
- Server, ServerVideoMonitoring, SmartMeta: improve the display of client-side MetaData

### **2024.05.17. v5.7.0.5**

- Client, SmartLive: improving the display of SmartLive detectors
- Client, DeviceManagerControlCenter: improve the display of the camera list
- Client, LoginDlg: Improved password handling in the Login window
- Client, StorageServerControlCenter: Improvement of SmartMeta Folder button
- Client, DeviceManagerControlCenter: Automatically update the device list after device enable/disable to update the license part numbers
- Server, RCSecurity: New LDAP user error message fix
- Server: New SmartMeta.dll to support P/E core CPUs

### **2024.05.13. v5.7.0.4**

- Client, DeviceMgrControlCenter: improve the display of the Device List when connecting to a previous version server
- 2024.05.13. Activation Tool v5.7.0.2
- Server, RCDeviceMgr/License: Improved display of batch camera license

### **2024.05.08. v5.7.0.3**

- Client/Server, DeviceMgr: on DeviceMgr list page Licenses tab to display site licenses
- Client, SmartFilter: improve the display of the Unknown category status
- Client, SmartFilter: improve the display of property lists
- Client, SmartSearch: rename text in EventInfo from by AI to by SmartAI

- Client, SmartFilter: Rename the Use AI checkmark to Use SmartAI
- Client, SmartFilter: Adjust the placement of the Use SmartAI tick
- Client, SmartFilter: the new filtering condition that is enabled is always placed at the end of the list after the others, and scrolled to if necessary
- Server, CameraMgr: Improve OCS++ checking

### **2024.05.02. v5.7.0.2**

- SmartLive detectors:
  - Server/Client: SmartLive: Show MotionInfo for SmartLive detectors
  - Client: SmartSearch: support for complex smart event info
- Server/Client: SmartSearch: Integration of complex filtering system into smart detector interfaces
- Samsung SmartMeta support:
  - SmartMeta enable, processing.
  - SmartMeta OSD TrackerInfo
  - SmartSearch detectors
  - SmartLive detectors
- Client/Server, AR Harbard Einar/License: INT-AR license implementation
- Client/Server, CameraMgr/License: OCS+, OCS++ license implementation, monitoring
- Client/Server, Hikvision/Initio: better feedback of connection error to client in error column of Devices list
- Client, DeviceManagerControlCenter: Clarification of the text of the error message MAC address unknown at registration
- Client, CameraManagerControlCenter: In the Cameras interface, the resize mark in the bottom right corner of the internal status bar should not be visible
- Client, CameraMgr: When SmartMeta is activated, in case of an error, the error text is displayed in addition to the general error message
- Client, SmartFilter: Show unknown category if necessary
- Client, SmartEventInfo: Display debug information in eventinfo
- Client, SmartLive: If the AI is processing the event, a by AI text is displayed in the eventinfo
- Client, SmartLive: TripWire eventinfo clarification
- Server, Hanwha/Samsung: SmartMetaData server-side support (for OCS++ license)
- Server, License: IVS5 default trial version extended with OCS++ license instead of regular OCS (1 license)
- Server, ServerVideoNMonitoring/SmartMeta: SmartMeta trackerinfo to be made available as a workflow
- Server, CameraImageCache: Develop server-side camera image cache to be able to receive and return images from secondary streams

### **2024.02.12. v5.7.0.1**

- Client, Password: Password strength required for IVS server connection (at least 8 characters, lowercase+uppercase+number+character)
- Client, PasswordEdit: Possibility to display password in password input/edit fields (only for newly entered passwords)
- Client, Samsung: When adding a new Samsung/Hanwha device, the RTP over RTSP option is checked by default
- Client/Server, Hikvision: support for Hikvision cameras (OCS license, audio/video, dual streaming, onboard motion detection, PTZ, I/O ports, smart metadata; without support for setup interfaces, device search and onboard detectors)
- Client, Hikvision/DeviceMgr interface: add Hikvision device menu item
- Server, DeviceGroupMgr: When storing a frame, if it cannot be stored due to large keyframe distance, the FrameID of the keyframe is written to the debuglog to show how many frames have been received by the server (e.g. lost on the network or not sent by the camera in the first place)
- Server, Hikvision/Intellio ILN: Support for manual addition of Hikvision and Intellio ILN cameras

### **2024.02.12. v5.6.3.1**

- Server, LicensePlateList: fix modification of license plate list

### **2024.02.01. v5.6.2.1**

- Client, SiteConnection: before any server connection is established, we make sure that there is a PrimaryServerConnection
- Client/Server, MonitorModule: MonitorModule registration and query logging on client and server side (to debuglog)

### **2023Q4 release news**

- Introduction of Open Street Map based 3D map and improvement of previous map features
- Introduction of AR Harbard protocol and Einar camera management:
  - Einar camera registration manually
  - Management of primary and secondary video channels of the camera (monitoring, storage)
  - Receive motion information to enable motion-based storage
  - Control camera contact output from IVS
  - Live capture of events from detectors created in camera (license plate and MMR data)

### **2024.01.22. v5.6.1.5**

- Server, Intellio ILB Initio: for multi-server site, ILB Thermo camera with camera switching feature further improved

### **2024.01.19. v5.6.1.4**

- Client, Intellio ILB Initio Thermal: ILB Thermal gave an error when saving a detector if the detector name contained letters longer than 32 characters or accented letters, so these are now truncated
- Server, Intellio ILB Initio: Fixed camera switching function for ILB Thermal camera on multi-server site
- Server, CameraMgr: Fixed deletion of camera group

### **2024.01.17. v5.6.1.3**

- Client, Map: when adding or changing an object, the current scale value is printed, so that even models of the same size can be placed on the map
- Client, Map: improve the display of multiple OSM maps
- Client, Map: improve the use of the mouse scroll wheel in the PTZ camera calibration window
- Client, Map: Improved display of PTZ camera calibration window
- Client, Map: in 2D view, the display of models switched to icon too soon
- Client, Map: Improvement to disable label display
- Client, Map: Dynamically resize gray space when adding a location
- Client, Map: could switch to icon size while adding an object
- Client, Map: In 2D view, the item you wanted to add did not appear in a part of the map
- Client, Map: unnecessary dashes could be added to text when tagging a camera
- Client, Map: Back button label could be behind other buttons
- Client: Fix localized subtitles in Hungarian (Display, viewing angle)
- Server, AlarmMgr: Improve synchronization of ILD onboard detectors when connected to ILD for Einar onboard detectors

### **2024.01.10. v5.6.1.2**

- Client, Map: improve camera rotation and tilt
- Client, Map: when moving on building level, camera movement was not within limits
- Client, Map: Minor fixes to camera movement and bounding
- Client, Map: Significant improvement to the algorithm for keeping the camera within the allowed area to provide a much better user experience
- Client, Map: Improvement of scrolling magnification
- Client, ConfigureMapDlg: Minor modification of English expressions
- Server, Communication/SSL: SSL enabled by default and set to mandatory when installing a new server (can still be changed afterwards)
- Server, ARHarbard/License: AR Harbard camera now requires INT license (instead of OCS)

### **2023.12.08. v5.6.1.1**

- Client/Server: first OSM version

### **2023.12.08. v5.6.0.4**

- Client/Server, ARHarbard/MMR: Fix empty MMR Color (clNone) and empty Category handling
- Client, MMR: Separation of texts in MMR Color and Category in event list in eventinfo/motioninfo and in LPRQuery interface LPRFilter list (empty in event list for empty/unknown color and category, empty in filter list as Unknown)
- Client, LPRQueryFrm: MMR Category and Color filter combobox drop-down menu extension, Select ... text display enhancement

### **2023.12.07. v5.6.0.3**

- Client/Server, ARHarbard/MMR: MMR Color list extension with additional colours
- Client/Server, ARHarbard/MMR: Extend MMR Category list (UNK, VAN, MTB, TRUCK, PICK UP, CARAVAN, TRAILER)
- Client, ARHarbard: In case of ARHarbard, onboard ANPR detectors are not displayed in the OSD motioninfo menu
- Server, ARHarbard: RTSP motion handling (Onvif metadata)
- Server, ServerVideoMonitoring: for RTSP-based streams, the resolution and stream type (Main, Low, Rec) are added to the Server OSD next to the codec name

### **2023.12.01. v5.6.0.2**

- Client, PlateRecogCommon: LPR Event info: improve the number plate display
- Client, ClientAlarmMgr/DeviceMgrControlCenter: when updating the device and camera list, the list of detectors is now updated
- Server, LicensePlateList: In license plate list, if Color value is empty, license plate color is not counted (anything is accepted)
- Server, ARHarbard ANPR: Return unknown color for empty font/back color value in license plate event
- Server, ARHarbard: Show Product Name value in the list of Devices in AR Harbard
- Server, ARHarbard: Improve the display of CountryCode in Onboard ANPR detector event
- Server, ARHarbard/Onvif: filter out AR Harbard devices in Onvif search (they can still be manually added as Onvif)
- Server, ARHarbard: Log live eventstream ANPR events to debuglog

### **2023.11.28. v5.6.0.1**

- Client, ClientCameraFrm: Disable the server-side ANPR (Carmen) setting button in the camera settings interface if the camera has an onboard ANPR detector. In addition, the settings window has also been linked to permission: Camera change permission
- AR HARBARD protocol support introduced
- Client, ARHarbard: ARHarbard onboard ANPR detector setting window empty
- Client/Server, ARHarbard: Client-side support (device and camera interfaces, device add and connection parameter setting interface)
- Client/Server, ARHarbard: AR Harbard (Einar) device manual addition support

- Client, Intellio ILB Initio: in CameraMgr interface and in live view camera menu settings, change Monitoring motion sensor name to Recording motion sensor (because there is only one motion sensor and it is called Recording for other cameras)
- Client, RCConfigureLPRDlg: Improve display of motioninfo in server-side LPR window
- Server, ILD Discovery: newer AR Harbard based devices excluded from discovery
- Server, ARHarbard: Onboard detectors synchronization, created on site on device connection (only for ANPR detector)
- Server, ARHarbard: Live event streaming (only for ANPR events)
- Server, ARHarbard: ARHarbard onboard ANPR detector class (server side)
- Server, ARHarbard/ServerVideoMonitoring: streaming support (on RTSP, camera-side motion detection without metadata, instead with temporary continuous motion indication)
- Server, ARHarbard: AR Harbard (Einar) device support (server side). Dual streaming support
- Server, AlarmMgr: Detector/Partition/Action CreateTime was 0 by default, now gets current date value if client does not send
- Server, AlarmMgr: For multi-server site, improve detector state change on event

### **2023.11.21. v5.5.2.1**

- Client, SiteConnection: improve client reconnect connection management for client in monitor wall mode

### **2023Q3 release news**

- Intellio Initio Thermal camera support:
  - Display tracked objects in the thermal image
  - Toggle button to switch between visible image / thermal image within a panel
  - Support for intrusion and line crossing detectors
  - Support for point, line, area temperature detectors
- Explicit RTSP port specification for Intellio Initio cameras
- Extension of the detector setting window for Intellio Initio cameras
- Extension of Intellio Download Gateway with new video formats
- Optimization of performance monitoring processing

### **2023.10.16. v5.5.1.5**

- Client, DeviceMgr: In the Devices list, the minimum size of the column widths can be 0
- Client, Intellio ILB Initio/Thermo: Enable IR support for thermo camera in ImageSettings window
- Client, Intellio ILB Initio/Thermo: Improve point type rule saving for Thermometry detector

### **2023.10.11. v5.5.1.4**

- Client, Intellio ILB Initio/Thermo: Improved support for Thermometry detector setup interface for certain regional settings (e.g. Hungarian)

### **2023.10.10. v5.5.1.3**

- Client/Server, Intellio ILB Initio/Thermo: New Thermometry detector for Intellio ILB Initio thermo camera
- Client, Intellio ILB Initio/Detectors: onboard Intrusion and Line crossing detector with Target filtering extended with Others option (if supported by the camera)
- Client, DeviceManagerControlCenter/CameraManagerControlCenter: minimum size of device and camera list columns can be reduced
- Client, Intellio ILB Initio/Thermo: When setting up a thermometry detector, enable/initialize the thermometry function in the camera and some default settings at the same time
- Client/Server, Intellio ILB Initio/Thermal/HCNetSDK: Add NET\_DVR\_THERMOMETRY\_ALARM type
- Client, Intellio ILB Initio/Thermal: Increase the size of the point selection in the Point mode of the Thermometry detector
- New HCNetHelper v5.5.1.3
- New SmartMetaNet.dll 1.0.8670.19435
- Server, Initio-thermal: display tracker data of thermal series cameras in the IVS interface
- Client/Server, Intellio ILB Initio/Thermo: New Thermometry detector for Intellio ILB Initio thermal camera
- Server/HCNetHelper, Intellio ILB Initio/Thermo: Onboard Thermometry detector
- Server, Intellio ILB Initio/VCA detector: When creating a new detector, the RuleID of the detectors in the Creating state is also used

### **2023.09.14. v5.5.1.2**

- Client, Intellio ILB Initio detectors: for Onboard Intrusion detector, polygon peak count management based on camera-ability (for Thermo camera it is between 3-10)
- Client/Server, Intellio ILB Initio: SmartMetaData support per-channel, and SmartMetaData menu item display in client camera menu only depending on SmartMetaData function
- Server, Intellio ILB Initio/Thermal: ThermalStream support enhancement for multi-channel cameras
- Server, Intellio ILB Initio/Thermal: Enable Video Stream / Display VCA Info By Player when connected
- Server, Intellio ILB Initio/Thermal: Enable VCA / Basic Settings / Intelligent Analysis when connected

### **2023.09.12. v5.5.1.1**

- Client/Server, Initio ILB: For Initio ILB camera, explicit RTSP port in connection details (when adding a new device and on the Device Connection tab)
- Server/Client, Intellio Initio/Thermal: Support for Intellio Initio ILB cameras Professional rule API (RuleV42) based detectors (Intrusion and Line crossing detectors)
- Client/Server, Intellio Initio/Thermal: for onboard detectors Rule number limit management

- Client, Intellio Initio/Thermal: Onboard Line crossing and Intrusion detector saving enhancement
- Client/Server, Intellio Initio/Thermal: Automatic selection of the channel corresponding to the detector when adding an onboard detector in case of multi-channel Intellio Initio ILB (e.g. Thermal)
- Server, Intellio Initio SpeedDome: Improved handling of ManualTraceEnable command for new models

### **2023.09.12. v5.4.2.1**

- Client/Server, Storage: improve the handling of an archive buffer connection on a network drive

### **2023.08.11. v5.4.1.2**

- Client, MultiIOInput detector: fix to handle more than 10 input on a device

### **2023.08.11. v5.4.1.1**

- Client, MultiIOAction: fix to handle more than 10 output on a device

### **2023.07.24. v5.2.9.5**

- Client/Server, PerformanceMonitor: optimisation and acceleration of data structure

### **2023.07.06. v5.5.0.1**

- Server/DownloadGateway, Download: extension of the Download protocol to transfer other video frames (e.g. ONVIF/RTSP H264 etc. video format)

## **2023Q2 release news**

- New SmartSearch feature for Intellio Initio cameras:
  - Post-created, server-side, Virtual Detectors for post-analysis of moving objects detected by the camera
  - Unlimited number of Virtual Tripwire-, Motion-, Direction-, and Area Entry and Exit detectors
  - Fast search with the introduction of Smart MetaData file system and storage folder
  - Storage and display of Smart MetaData data in live and playback footage
  - Smart MetaData feature filtering and feature column status feedback in the camera list
- Support for TLS 1.1 and 1.2 when sending email
- Playback support on lower performance client workstations
- Client starts maximized on first startup
- Updated IntellioVideoCodec, Intellio Viewer, Intellio Device Explorer

### **2023.07.11. v5.4.0.4**

- Client: Intellio Viewer v5.2.0.1: In some cases the right-click menu did not appear
- Client IntellioVideoCodec v3.2.0.1: Improved hardware decoding of longer keyframe distance streams
- Client, Export: For Initio device, basic OSD Motion Info's were not included in export
- Client, ServerStorage: fixed naming of Smart MetaData folder
- Client, Initio: rename Smart MetaData menu item in Camera OSD menu
- Client, StorageServerControlCenter: Enable/Disable Smart MetaData folder menu item depending on server license (not enabled for SOHO product key)
- Client, CameraVST/SmartSearch: Enable/Disable virtual detector menu item in left camera list for Motion Search and Event Browser depending on server license (not enabled for SOHO product key)
- Client, CameraMgrControlCenter/MotionSearch: disable Smart MetaData menu items for cameras and Add virtual detector button in Motion Search interface if not supported by server
- Client, Initio: When adding an Initio ILB camera, the Enable Smart MetaData checkbox skin was incorrect and was checked by default
- Common: Several stability improvements and optimizations
- Server, SmartSearch: Virtual detector lifetime increased to last use +15 days (previously +1 day)

### **2023.07.03. v5.4.0.3**

- Client: when the client starts for the first time, it no longer goes to fullscreen, but starts maximized
- Server, RTSP: Replace and improve frame timestamp calculation used for RTSP connections.
- Client, Playback: when stopping playback, the timeline time is synchronized with the last displayed frame
- Client, Display: reduce the decoding queue used for playback, so that the time slip relative to the timeline is reduced if there is not enough power to decode
- Client/Server, Intellio Thermal camera: setting of merged camera channels
- Client, CameraLinks: support for linked cameras on client side
- Client, Shortcuts Form: When vertical scrollbar appeared, text did not fit properly
- Client, Shortcuts Form: scrolling did not restart the automatic activation timer
- Client, Shortcuts Form: small fix for scrollbar frame display
- Client, Remote IntelligentLiveView: Fixed monitor status feedback for ILVs stopped on a remote, multi-monitor client
- Server/ErrorReporter, Email: support for SMTP TLS 1.1 and 1.2 (RCErrorReporter v5.4.0.3)
- Client/Server, SmartSearch: SMART SEARCH and SMART METADATA
- Server, SmartSearch: SmartSearch search enhancement, search resumability in the near current time range (except for the last 30 seconds and only with 30 second refresh intervals)
- Client, EventQuery: Temporary hiding of virtual detectors from the Event Query interface

- Client, SmartSearch/AlarmAddDetector: when adding a Virtual Detector (Motion Search Add button), only SmartSearch detectors are displayed in the list of detectors and only cameras that can be used for SmartSearch are displayed in the list of selectable cameras
- Client, SmartSearch/AlarmDetectorModifyDlg: Clean up the Virtual Detector setup window (hiding the Messages tab, hiding the redundant controls in the General tab, and the default (opening) tab has become the Detector Setup tab itself)
- Client, SmartSearch: Direction detector description (text) was incorrect
- Client, SmartSearch: Enable smart search metadata when jumping to playback
- Client, SmartSearch: In query interfaces where smart zoom is supported, it now also works with smart search metadata
- Client, EventQuery: Fix first and last frame timestamp format
- Client, SmartSearch: Minor fixes to detector setting interfaces
- Server, SmartSearch: SmartSearch search improvements
- Client, SmartSearch: update and repair the displayed cameras in SmartSearch interfaces (Event Browser and Motion Search). A camera will be displayed in the list if it has a detector (alarm or virtual) added to it, or if it supports the new smartmeta feature
- Server, SmartSearch: query time window increased to 6 hours
- Server, RCAAlarmMgr/SmartSearch: automatic deletion of virtual detectors after approx. last use + 1 day
- Client, AlarmControlCenterItem: Alarm Manager/Virtual Detectors page removed
- Client/Server, SmartSearch/RCAAlarmMgr: no SmartSearch detectors returned to old clients
- Client, CameraMgr/SmartMeta: filtering for Smart MetaData feature in CameraMgr and status feedback in feature column
- Client/Server, SmartMetaData: Smart MetaData on/off in client CameraMgr interface from popup menu
- Client/Server, SmartSearch/Intellio Initio ILB: for Intellio Initio ILB, use SmartMeta feature (optional), enable checkbox when adding device
- Client, Storage interface: new icon for SmartSearch folder toolbar button
- Client, SmartMeta: Display of object type was incorrect
- Client: SmartSearch: direction setting interface did not add default direction
- Client, SmartSearch: delayed loading of adjustment masks when stream resolution is already available
- Client/Server, Storage/SmartSearch: SmartMetaData folder configuration interface, save to LocalConfig (must be configured per server, like storage folders)
- Server, SmartSearch: support for new SmartMeta.dll version
- Server, SmartSearch: start and stop SmartSearch, config management
- Client/Server, SmartSearch/License: SmartSearch support and license management (for CORP, ENTP, MVM)
- Server, SmartSearch: 45 days maximum retrieval time range (does not check for older dates)
- Server, SmartSearch: we work with 2 hour time windows (instead of 1 hour previously)
- Client, SmartSearch: Further improvements to detector setup interfaces
- Client: improvements to SmartSearch metadata display

- Client: remove versioning from meta classes
- Client/Server, SmartSearch metadata: SmartSearch metadata support
- Server, SmartSearch/Intellio ILB Initio: Enable SmartSearch functionality for Intellio ILB Initio cameras
- Client/Server, SmartSearch: support for the new SMARTSEARCH function
- Client, SmartSearch: improvements in the detector setup interface
- Server, SmartSearch: Add server-side detectors
- Client, SmartSearch: Create adjustment interfaces for detectors
- Client, SmartSearch: Enrich Intellio Initio ILB camera detector list with SmartSearch
- Common, SmartSearch: Create and register classes for motion info display
- Common, SmartSearch: Create AlarmDetector classes, constants and event codes
- Resources, SmartSearch: Create and register messages and codes for detectors

### **2023.05.12. v5.3.0.2a**

- Server: new Intellio Device Explorer 20230510v5.0.0.1 (due to network configuration changes for Initio cameras)

### **2023Q1 release news**

- Control Client program from keyboard with shortcut keys:
  - monitor panel selection
  - camera selection
  - view selection
  - partition arming, disarming
  - start action
  - Start PTZ camera preset
- Playback timeline query acceleration
- Smart Live View feature enhancements:
  - can be activated on signal
  - Smart Live View management in a new, separate panel
  - can be launched on remote clients
  - can be restarted automatically
  - can be enabled per detector
- Open the web interface of devices from the client in a browser with a single click
- For detectors in alarm status, new separate panel in the toolbar, which can even pop-up automatically
- Mute alarm sound button with permission required

### **2023.04.04. v5.3.0.2**

- Client: new way to control client from keyboard: control key + index number (compatibility mode can be enabled in client settings)

- Client: New keyboard control functions: start action (a + index), arm partition (p + index), disarm partition (o + index)
- Client: Show active filter window for new control mode (can be disabled in client settings)
- Server, Client: manage index lists for actions and partitions.
- Permissions: introduce new Alarm permissions (for client mute, manage index list of actions, index list of partitions)
- Client: mute alarm sound button with permission required.
- Client, Server: extension of IntelligentLiveView feature to be able to trigger camera on signal type event.
- Client: IntelligentLiveView: ILV-related controls moved to a separate tab in the Toolbar.
- Client: IntelligentLiveView: ILV controls have changed, no more start/stop button, it's like switching partitions on/off.
- Client: IntelligentLiveView: ILV can now be launched on remote clients. You need to drop it on a monitor belonging to a remote client (such as a camera or view).
- Client: IntelligentLiveView: Automatic restart function. Only restarts after double click spot after the set time.
- Client: Detector setting window extended with a new switch to disable its events from affecting ILV.
- Client: new Alarm Detectors tab in the Others section of the main client Toolbar window, showing selected detectors in alarm.
- Client: New Alarm Detectors function setting interface.
- Client, AlarmManager: update detector status based on incoming event.
- Client, DeviceManagerCC: New Open in Browser button and menu item to open the ip address of selected cameras in the default browser.
- Client, Alarm Detectors: minor fixes and improvements.
- Client, Alarm Detectors: hidden detectors have been moved to a separate node.
- Client, Alarm Detectors: if enabled, only the live view of the panel will open
- Client, Alarm Detectors: Description has been replaced by a Device column
- Client, Alarm Detectors: Nodes are highlighted in bold type
- Client, Alarm Detectors: Unavailable detectors have been grayed out
- Client, PaintPaper: Fixed several OSD bugs that could cause slowdowns in the client.
- Client, CamerasVST: State display optimization
- Client: Audio export from stereo source did not work properly.
- Server, Storage: fix handling of max. allowed storage time

### **2023.03.28. v5.3.0.1**

- Client, Timeline: adjust client timeline graph resolution to server timeline cache resolution (2 sec)
- Server/Client: Timeline acceleration (timeline cache)
- Common: Several stability enhancements and optimizations

**2023.02.23. v5.2.9.2**

- Client, Audio Toolbar: Initial volume value is now 100%
- Client, System Documentation: More detailed logging of the system documentation creation process in the debug log

**2023.02.16. v5.2.9.1**

- Client, Audio Player: Playback of some audio samples (e.g., 44100 Hz) was not always clear
- Client/Server/Codec, Audio: Fix AAC and MP4 decoding
- Server, Security: Hiding role names in the debug log
- Common: Smaller fixes, optimizations

**2022.12.13. v5.2.8.3**

- Client, SystemDocumentation: It is possible to save in plain HTML format. If we do not check the embedding of images, it will go to HTML and the images will be placed in a separate Images subdirectory. For embedded images, it still went to MHTML format.
- Client, ANPR: In the Add new license plate window, the expiration time was set to Custom by default (instead of no value)
- Client/Server, Communication: Minor improvements to connection management

**2022.11.18. v5.2.8.2**

- Server, Event Monitoring: Fixed Device removal

**2022.11.14. v5.2.8.1**

- Server, ANPR: Fix CarmenANPR
- Common: Stability improvement, optimization

**2022.11.07. v5.2.7.1**

- Client, System Documentation: Improvement of the handling of missing camera images

**2022.10.24. v5.2.6.1**

- Client, ANPR: correction of the display error of the camera image on the LPR detector settings interface for ILD-N cameras
- Client, ClientConnectionManager: Domain structure is updated definitely after connection

**2022.10.18. v5.2.5.2**

- Server, PlaybackMgr: Fixed client connection dropping during playback
- Server, ANPR: Fix CarmenANPR taking a long time to process

**2022.09.27. v5.2.5.1**

- Server, Security: Usernames (Login Name) are hidden for security reasons in the LDAP authentication log entries as well in Debug log
- Server, PerformanceMonitor: Fix missing Performance History data storage, logging to debug log
- Server, SiteServer: Improving the connection of servers within the Site
- Server, PlaybackMgr: Improved handling of the audio channel during playback
- Common: Various minor and major fixes/modifications

**2022.09.23. v5.2.4.2**

- Client, SystemDocumentation: Pictures saved in system documentation did not have the private mask

**2022.09.23. v5.2.4.1**

- Client, Onvif Event Detector: Extension of the Topic selection combobox, it has become editable. In this way, you can enter a unique topic name that may not be included in the list, or topic names not reported by the camera, but occurring between Onvif events, were also included in the list.
- Client, Audio Toolbar: It was not possible to turn on/off the audio channels belonging to the cameras on the left Audio Toolbar
- Client, Audio Toolbar: On the left Audio Toolbar, the status of the audio channels belonging to the camera was not synchronized with the status of the sounds set in the camera menu

**2022.09.14. v5.2.3.2**

- Client, DirectX: 3D map acceleration

**2022.09.05. v5.2.3.1**

- Server, SiteServer: Improvement of connection management
- Server, DeviceGroupMgr: Improve AudioFrame storage, increase processing list capacity
- Server, Site/EventLog/etc: Usernames (Login Name) in Debuglog are hidden for security reasons
- Server, Debuglog: Removed some unnecessary (debug) logging
- Common: Various minor and major fixes/modifications

**2022.08.30. v5.2.2.2**

- Client, DeviceMgr interface: For multi-channel devices, the function to enable/disable camera channels does not work before registering the device, so this tab becomes available only after registration (similar to the Audio tab)
- Client, BaseClientCamera: On the client, the SiteID value of the cameras was loaded incorrectly, as a result in some cases there were no snapshots or no live image either

- Server, RCDeviceMgr: For multi-channel devices, streaming has also started for disabled camera channels
- Server, MonitorModuleMgr: Improvement of connection management in the case of a multi-server site, when several clients log in at the same time

### **2022.08.29. v5.2.2.1**

- Client: After logging in as a client, there was no dual-streaming for live images for certain camera types (e.g., Samsung, Bosch, Axis Vapix3, etc.).
- Server, Samsung/Hanwha: Improve handling of IO output ID number

### **2022.08.05. v5.0.12.2**

- Server, ILE: PTZ preset, and patrol functions were not enabled for the old ILE-100-1 type encoder. In the case of ILE-100-1 and ILE-100-4, it is explicitly allowed

### **2022.08.04. v5.0.12.1**

- Server, ILE: In the old ILE-100-4 type encoder, the PTZ preset, and patrol feature were not enabled. Now we explicitly enable it for all devices with more than 1 channel.

### **2022.08.02. v5.2.1.6**

- Client, OnvifProfileSettingsDlg: In the Onvif Profile editor window, sometimes the Configuration list was not requested from the device, so they did not appear in the comboboxes

### **2022.07.14. v5.2.1.5**

- Client/Server, PTZ Configuration: New right to enable/disable the PTZ function (PTZ Configuration window). Right: CameraMgr/PTZ/Change/Enable PTZ
- Client, PTZ Control: If the PTZ function is disabled (switched off) for the PTZ camera, the PTZ control panel is also disabled
- Client, Audio Toolbar: 1. Create a vertical scrollbar on the left Audio Toolbar. 2. Names of audio channels appear in hints (useful for long names). 3. Sorting and sort ability according to ABC. 4. Display/load acceleration
- Client, AudioControl: 1. On the left Toolbar Audio tab, the audio channels are sorted by name 2. The width of the Audio peak bar band is adjusted to the width of the inclusion panel (until now it was a fixed size)
- Client, VideoMonitoring/DisplayMgr: Camera Lost sometimes did not appear
- Client, DeviceGroupControlCenter: In the case of storage groups with many (40-60+) storage groups, the names of all groups did not fit under the Move menu item in the popup menu. Splitting the list into several submenus.
- Client: New switch in Client Settings, which can be used to prevent the client from crashing if the machine is locked or the remote desktop is exited.

- Server, DeviceMgr: In a multi-server site, in the event of a server failure, the camera returned to its own server for certain camera types after the camera was taken over, i.e. the camera takeover management did not work.
- Server/RCErrReporter, EmailNotify: If an error occurred when setting up or sending an email, ErrorReporter could suspend the client's operation in some cases.
- Server, ONVIF: Improve handling of old Samsung camera (e.g., Samsung Techwin SND-7084R)

### **2022.06.23. v5.2.1.4**

- Client/Server, SSLSocket: SSL Shutdown could go into an infinite loop in some cases
- Client/Server/Gateway/HNetHelper/etc., RCSysUtils: The full access path of the application, version number, start time, log file serial number is included at the beginning of each debug log file
- Server, RCPerformanceMonitorMgr.ServerHandler: In the case of a multi-server site, after the connection between the servers was interrupted, there was no waiting between the (possible) unsuccessful reconnections, so they could load the CPU.
- Server, RCComponent/RCSite: Removed some unnecessary (debug) logging
- Server, Communication: 1. More detailed logging of site server connections; 2. Increasing the DiscoverServer command timeout (from 30 to 90 seconds)

### **2022.06.15. v5.2.1.3**

- Client, StorageControlCenter/LoadBalancingStatistics: Sorting by event size on the Storage, StorageServer, and LoadBalancing Statistics pages gave the wrong order
- Server, DeviceMgr/CameraMgr: When renaming a single-channel camera, the name of the Camera Access right is no longer updated after the device was disabled or modified once

### **2022.05.25. v5.2.1.2**

- Client, Export: The interval setting did not work when exporting a frame.
- Client: The client always appeared on the primary monitor when it started, even if it was on another monitor when it exited.
- Client: Fullscreen definitely put the client window on the primary monitor, even if it was on another monitor.
- Client, EventQuery: Sorting did not work on certain columns of the event list when querying events (event, face, license plate number)
- Client/Server, RCCommunication: TCP connection over a real physical network was not always successful
- Client, Sisulizer: Correction of the name of the Direction field in the ANPR Query for the Hungarian translation (Direction definition was determined instead of Direction)
- Client: When logged in to several sites with a client, if there are no audio channels on a given site, there was a large empty area under the given site on the main screen under the Audio toolbar
- Client, AlarmMgr: In Detectors/Partitions/Actions list: 1. The toolbar buttons could remain "disabled" after the renaming function. 2. When sorting after renaming, you did not always

scroll to the renamed element. 3. After creating a new group element, the focus was not on the new group element, so the edit field did not appear on that element either. 4. After deleting an element, the focus was always on the root element instead of the neighbouring element

- Server/ActivationTool, License: Free Trial mode did not work, It gave Invalid License File error

### **2022.05.18. v5.2.1.1**

- Client/Server, DeviceMgr: For multi-channel devices, the camera channels can be disabled individually. Disabled camera channels do not use camera licenses. For devices, there is a new Cameras tab for camera channels and a separate settings window where you can enable/disable them, as well as the number of available licenses are displayed
- Client, Live Events/DisplayMgrSettingsDlg: New options in the client settings, whether Restore or Simple events are displayed in Live Events field or not
- Client/Server, ANPR Query: Expansion of the license plate event query interface with a Direction column and a Direction filter field
- Client/Server, AlarmMgr: Sort Detectors/Partitions/Actions into user groups (if supported by the server). Manage different list views. Colour list items. Rename and sort support. Popup menu.
- Client, AlarmMgr: Saving/reloading detectors/partitions/actions list status to client config (list view, sorting column and direction)
- Client, CameraMgrControlCenter: Color camera list elements according to status (disabled=grey, error=red).
- Client, CameraMgrControlCenter: The Status column of the camera list is left empty if the given camera is disabled (previously we wrote Offline in this case as well)
- Client, CameraMgr/ILD: In the CameraMgr list, on the ILD camera motion detector tab, the storage motion detector checkbox in the Hungarian translation, it didn't fit at 150% scaling. Its area is increased horizontally.

### **2022.04.19. v5.2.0.4**

- Client, SSL: A "Use only SSL connections" checkbox has been returned to the Connection settings window, which can be used to disable non-SSL client-server connections
- Client/Server, SSL: The "SSL must be used" option is come back in site settings. In this case, the connection will not be able to be established with previous (pre-SSL) versions.

### **2022.04.06. v5.2.0.3**

- Client, SSL: The option to set the SSL option has been removed from the Connection settings window. Then the client always uses SSL if it is enabled on the site.
- Client/Server, SSL: Simplification of the SSL option in site settings (enable/disable). No more enforcing SSL usage. If enabled, SSL is used if the other side (e.g. client, etc.) supports it, otherwise not. You will always be able to establish a connection with earlier (before SSL) versions.
- Client, MainFrm: StatusBar connection hint window did not always appear

### **2022.04.01. v5.2.0.2**

- Client/Server, Communication: There was an error in SSL session management, because of that sometimes the SSL connection could not be established

### **2022.04.01. v5.0.11.1**

- Server, HTTP/MJPEG: Improved handling of AXIS 2400 (very old) video encoder
- Server, RCBufferedFile: Optional logging of write speed in debug log (must be turned on separately), optimization of storage, sector sizes, page sizes
- Server, RCStorage: The slow write buffer warning should only be visible for 1 minute (it was 15 minutes until now)

### **2022.03.22. v5.2.0.1**

- Common, RCCommunication: A completely new communication system  
It affects the following connections:
  - Client - server
  - On-site server - server
  - Server - server between sites within a domain
  - Intellio Video SDK - server
  - Gateway (Download and Mobile) - server
  - ILC/ILD protocol (camera - server)
- Client/Server, Communication: Support for standard SSL encryption (with TLS 1.3 protocol)
- Client, Communication/SSL: Client-side SSL support
- Client, Communication/MainFrm: 1. Turn on StatusBar Hint (server connection data) 2. Display "Secure" flag if the server connection is secure (SSL)

- Client, Communication/SSL: Extension of client SiteConnection connections with SSL mode setting - extension of connection editor window
- Client/Server, Communication/SSL: Save/load server-side SSL mode configuration, setting interface on the client
- Client/SDK/Gateway, Communication: repair/rewrite of SiteConnection and ServerConnection connection management

### **2022.02.24. v5.0.10.1a**

- New Intellio Gateway 20220224.v5.5.2.1

### **2022.02.24. v5.0.10.1**

- Server, HTTP/MJPEG: The HTTP/MJPEG stream was not well handled during authentication with the Mobotix camera

### **2022.01.10. v5.0.9.2a**

- New Intellio Gateway 20220110.v5.5.0.1

### **2021.11.02. v5.0.9.2**

- Client, INTELLIO ILB INITIO V2 support:
- Client/Server/HNetHelper, Intellio Initio ILB: Support for multiple instances of Line Crossing and Intrusion alarm detectors (if supported by the camera)
- Client, Intellio Initio ILB: Target filtering support for Line Crossing and Intrusion alarm detectors (human, vehicle)
- Client, Intellio Initio ILB MotionSettings: Initio V2 Region-mode (polygon) motion sensor support
- Client, Intellio Initio ILB ImageSettings: Manage different mutually exclusive settings
- Client, Intellio Initio ILB ImageSettings: Supplement Light High/Low Beam Brightness support
- Client, Intellio Initio ILB ImageSettings: Supplement Light Mode, Supplement Light Brightness Mode and Supplement Light Brightness Level support
- Client, Intellio Initio ILB ImageSettings: Improve IR Lamp (IR Light) support (not needed for Initio V2)
- Client, Intellio Initio ILB ImageSettings: Gain support
- Klein's, Intellio Initio IB Image Settings: Support for Highlight Compensation (HLC).
- Client/Server, GuardTour: Guard Tour names are now stored as Unicode

### **2021.10.18. v5.0.9.1**

- Server, License: Management of the number of servers in the Site

### **2021.10.20. v5.0.8.6a**

- New Intellio Gateway 20211020.v5.4.1.1

### **2021.10.04. v5.0.8.6**

- New Intellio Gateway 20210929.v5.4.0.1
- Server, RCFirstRunConfig: Setting the server's TCP port (53540) during a fresh installation of the server service
- Server, Mobile: Forward H264 stream to the mobile, even without compression, if possible.

### **2021.09.15. v5.0.8.5**

- Server, RCSecurityCommon: The new RTSP Users right was not enabled for the RTSP Gateway, so it could not connect to the server

### **2021.09.14. v5.0.8.4**

- Client, RCConfigureEmailNotifyDlg: The test button does not work in the ErrorReporter settings window for the Virtual Site server
- Server, EmailNotifyMgr: Management of incompatibility between ErrorReporter email notification config and Virtual Site servers

### **2021.09.13. v5.0.8.3**

- Client/Server, Alarm Control Center: The Default Alarm Sounds setting window is available from the Alarm Detectors interface (if the server also supports it)
- Client, RCAAlarmDetectorModifyDlg: Failed to select global default sound (first element) for detector default sounds
- Client, RCConfigureEmailNotifyDlg: The controls were accidentally disabled in the ErrorReporter config window
- New RCWatchDogSvc v5.0.8.3
- New RCErrorReporter v5.0.8.3
- New IntellioAgent v5.0.8.3
- Server, RCSite: Add server to site operation was virtual - when adding a non-virtual server, there was a misleading error message
- Server, EmailNotify: Servers could not connect to the ErrorReporter application, so email sending did not work either (affects both real and virtual servers)
- ErrorReporter, EmailNotify: Test email sending correction
- WatchdogSvc: Monitoring the status of services used an unnecessary amount of CPU.
- IntellioAgent: Threw an error window if it could not load the config file belonging to the service

- IntellioAgent/IntellioAgentAdmin: IntellioDownloadGatewaySvc service support. Uninstalled optional services are no longer displayed in the popup menu.
- IntellioAgent: In Start/Stop/RestartAllServices operation, the order of services was not correct. (For Stop, WatchdogSvc should be the first, and for Start and Restart, it should be the last)
- IntellioAgent: When running in the background, it used an unnecessary amount of CPU (2-3%). The update frequency has been reduced (from 1 sec to 5 sec), and in this case, the service configurations are not loaded either (servers - gateway), because only the running status is needed.

### **2020.09.07. v5.0.8.2**

- Client/Server, Map: In the case of a virtual site server, turn on Map support (allow permission - create a Map component on the server)
- Client, StatusMonitorMgr: In the case of a virtual site, the status icons on the client's status bar had a storage error (because there is no storage in the case of a virtual server). We now ignore storage and devices in the case of a virtual site.
- Client/Server, Security/EventLog: In the case of a virtual site, EventLog authorization was not enabled, so it did not appear on the client in the ControlCenter
- Client/Server/WatchdogSvc/RCErrReporter, EmailNotify: 1. A virtual Site server can also send an email with its own site/server name content. 2. Changing ErrorReporter email settings is only possible with a normal (non-virtual site) server. With a virtual server, you can only turn off/on the email sending of the given site, but the other settings cannot be changed there.
- Client, ClientEventMonitoring: In the case of a virtual site, we do not start EventMonitoring
- Client, ClientSiteComponent: Disabling the update of components not supported by the virtual site server
- Client/Server, License: 1. Restriction of LicenseInfo feature list in the case of a virtual site. 2. If it is a virtual site server, it is indicated in the License column in the list of servers in the client
- New RCWatchDogSvc v5.0.8.2
- New RCErrReporter v5.0.8.2
- Watchdog: Standard services were not managed, that is, they were not restarted if they were stopped

### **2020.09.03. v5.0.8.1**

- Client/Server, Security/RTSP: Introduction of separate RTSP User management rights. The client is backwards compatible and accepts plain User rights on old servers.
- Client/Server, Client connection: You can only connect to the Virtual Site server with new clients (which already support Virtual Sites)
- Client, AlarmDetectorModifyDlg: In the Messages tab, the Default sound checkbox on the bottom row of buttons did not disappear when switching tabs, if focus was on it.
- Client/Server, Virtual Site: In the case of a Virtual Site, the rights of logged-in users are limited to the available functions. These are: Domain, Site and Security.
- New RCWatchDogSvc v5.0.8.1
- New IntellioAgent v5.0.8.1

- Server, RCServerMain: Only one instance of a normal (non-Virtual) site server service may run on one machine. (Several virtual site server can run alongside it.)
- Server, Site: Introducing the VirtualSite concept to the Site.
- Server, RCLicense: VirtualSite version only runs if you have a Domain license
- Server, RCServerMain: In the case of a Virtual Site server, we only start a few components: Communication, EventLog, Security, Site, Domain, ClientNotify, EmailNotify
- WatchdogSvc: Watchdog extension with support for Virtual Site server service monitoring
- RCServerTray: New system tray icon application for monitoring IVS services and managing virtual site servers
- RCServerTrayAdmin: Utility for the RCServerTray program for service management tasks with admin (elevated) privileges.
- RCServerTray: 1. In the tray popup menu, the indication of the running service status has become a green icon instead of a tick; 2. Remove focus in the VirtualServers list window (selection is enough)
- IntellioAgent/IntellioAgentAdmin: Rename RCServerTray and RCServerTrayAdmin to IntellioAgent and IntellioAgentAdmin

### **2021.07.15. v5.0.7.3**

- Client, AlarmDetectorModifyDlg: Improvement of the size of the detector setting interface
- Client, ClientSoundManager: Basic Signal.wav and Alarm.wav sounds did not work
- Server, RC SysUtils: display procedure names in debug log

### **2021.07.14. v5.0.7.2**

- Site/Server: There was an error when checking the version number when connecting site servers

### **2021.07.13. v5.0.7.1**

- Client/Server, System documentation: Introduction of new authorizations under the SiteMgr authorization: Creation of system documentation (complete, with passwords) and system documentation without passwords
- Client/Server, RCSite: For the external connections of the site (external address of servers), you can specify whether the connection is traffic restricted.
- Client, RCSiteConnectionDesc: For site connections, a new option for logging in to the lower sites of the domain (in addition to all site options). In this case, you log in to the specified site and the sites below it, not to the sites of the entire domain tree.
- Client/Server, AlarmSoundMgr: Adjustable alarm sound per detector event. A default alarm/signal sound can be set per detector type and detector instance, as well as a default sound for individual detector-type events or a specific sound for a specific detector event.
- Client/Server, FileRepository: Upload your files from the client to the server, from where they are downloaded to the other site servers (within the site) and to the logged-in clients. Introduction of FileRepository authority. The servers save the files in the Intellio Server\FileStore subdirectory, and the client in the Users\All Users\Intellio\Intellio

- Client\FileStore folder (the latter is practically the ProgramData\Intellio\... folder, which is read-only by default, but the client installer converts it to writable)
- Client, SiteControlCenter/FileRepositoryDlg: FileRepository editor window (available from the Site interface)
  - Client/Server, SoundManager/AlarmSoundManager/AlarmDetectorModifyDlg: You can specify your own sound file (wav, mp3) for detector alarm sounds, which the client uploads to the site's servers and other clients download from there, so it will be automatically available on them as well. The automatic download on the client can be prevented if the files are copied in advance to the Sound subdirectory in the Intellio Client folder in Program Files (or Users\All Users\Intellio\Intellio Client\FileStore is also good)
  - Client, SoundManager/AlarmDetectorModifyDlg: Support for pre-installed (factory) sound files in the client's Sound folder. Now you can also choose an alarm sound from among these, and in this case, it will be automatically uploaded to the server (or will be downloaded from there to another client, if it is not already there).
  - Client, Live View: In the case of data-limited connections (if the client is connected externally), the client automatically removes the cameras from the live view after 5 minutes. The 5 minutes can be overridden from the client ini file via the [Display] / AutoRemoveTimeoutSec parameter. On those cameras where this function is active, a small lock icon appears in the lower right corner, which can be used to temporarily disable this function.
  - Client, ControlCenter: If the site's configuration menu items were hidden in the tree on the left when you started, you did not extend the width of the column when displaying it, and thus the names of the menu items did not fit
  - Client, Debuglog: The client Debuglog files will now be placed in the Logs subdirectory (the installer makes this subdirectory writable by all users, so you will not need to run the client for debuglog as an administrator)
  - Client/Server, FileRepository/AlarmSoundManager: Introduction and verification of server feature support
  - Client, Localization: Improve Hungarian translation (in the Motion sensor setting popup menu, the translation of "Onboard" has become "Device-side" - before it was "Device detector")
  - Client/Server, RCCommunicationTCP: Do not log the "Not connected" error message in the debuglog when TRCTCPChannel is disconnected
  - Client, Images: Add new lock icon.
  - Client, DisplayMenu: Improved Display Menu (ie. OSD) to be more customizable.
  - Server, Site/Server: Adding site servers and connecting them within the site is only allowed if they have the same server version (release) (the last build number may only differ)
  - Server, Debuglog: Server Debuglog files are now placed in the Logs subdirectory. (Other log files are not affected for now, e.g., HCNetHelper, WatchdogSvc, ErrorReporter, etc.)

### **2021.06.29. v5.0.6.1**

- Server, CameraNotifyStatusMgr: In order to display the camera status, it permanently subscribed to the live stream of the online cameras (because of the movement information in the stream), and thus the live stream between the server and the camera was definitely established. For this reason, the previous on-demand live stream function no longer worked

on the server. It has been modified so that NotifyStatusMgr no longer establishes a live stream connection by itself, so it only receives movement information if the stream is already established by someone else.

### **2021.06.04. v5.0.5.1**

- Client, CameraMgrControlCenter: Group motion detection type setting from the popup menu. For now, it only works for Samsung devices. If the onboard motion detector is selected, if the topic name is empty, it also sets the default Channel.#.MotionDetection event topic.
- Client/Server, Samsung: Rename Samsung subtitles to Hanwha/Samsung text
- Client, Samsung: Samsung cameras can be added based on IP range at the same time
- Client, MainForm/SiteState icons: Grouping of site state icons on Statusbar
- Client, CamerasVST: Live Image/etc. in the camera list, hide/display the camera list under the site from the popup menu, and save the settings in the popup menu to a config file
- Client, CamerasVST: Live Image/etc. in the camera list, site names are displayed in green instead of white (due to better visibility)
- Client, ControlCenter: opening/closing site menu items in the ControlCenter tree from the popup menu and saving the settings in the popup menu to a config file
- Client, CamerasVST: Live Image/etc. in the camera list, the site names are displayed in white and with a larger text size (due to better visibility)
- Client, ControlCenter: 1. In the tree on the left and on the Domain interface, the sites are sorted by name; 2. On the Servers interface, the servers are displayed sorted by name.
- Client, ControlCenter: In the tree structure on the left, the site names are in green for better visibility. Light green means connected, and darker green means disconnected. (The light grey really blends in with the menu items under the site)
- Server, Samsung: There was no live image for an NVR type device
- Server, Samsung: Registration of multi-channel Samsung failed if media profiles were not set for all channels
- Server, AxisVapix3: Server-side motion sensor settings did not work and did not save

### **2021.06.03. v5.0.4.5**

- Client, Playback, Export: Export and playback could also stop, due to an incorrect way of processing windows messages.
- Common: Delete some previous debuglog and watchdog entries

### **2021.05.28. v5.0.4.4**

- Client, Playback: Better logging of some commands, also on the sending and receiving page.

### **2021.05.25. v5.0.4.3**

- Client, Playback: Watchdog for playback commands required for export.
- Client, ClientMain: Integration of the Watchdog system into the client as well

**2021.05.21. v5.0.4.3**

- Server, PlaybackMgr: DebugWatchdog for playback (sub)processes to log if playback gets stuck somewhere

**2021.04.28. v5.0.4.2**

- Client, Device/CameraManagerControlCenter: 1. When switching between devices and cameras (Jump to camera/device button), sometimes the data was not displayed in the lower part 2. In the system monitor state, when clicking on the camera, it switches to CameraMgr, but the camera setting panel in the lower part it no longer loads
- Client, SiteServersControlCenter: 1. For licenses from IVS4 and above, the ILS prefix should not appear 2. In case of an expired update expiration date, Expired instead of License expired (because the license itself has not necessarily expired, only the updates)
- Client, Onvif ImageSettings: in the case of 4K high-dpi scaling, some controls were sliding on top of each other)
- New Activation Tool v5.0.2.2
- New RCWatchDogSvc v5.0.1.1
- New RCErrorReporter v5.0.1.1
- ErrorReporter: E-mail error reporting function improvement

**2021.04.26. v5.0.4.1**

- Client/Server, License: Update expiration date support
- Client: Hardware decoding now only works if the client is connected to the IVS5 server.
- Client, RCDisplayMgrSettingsDlg, GPU: Fix warning text for IVS5.
- Client, MainForm. Display a warning icon on the statusbar if GPU decoding is disabled because we are connected to a server older than IVS5.
- Client, Onvif Encoder Config: Onvif Media2 video encoder support (Profile T, H265)
- Client, Onvif: ImageSettings dialog support
- Client, Onvif ImageSettings: Trackbars with empty intervals are disabled
- Client, Onvif ImageSettings: If the settings fail to load, an error message is given
- Client, Onvif ImageSettings: 1. Trackbars work based on a real interval instead of the previous percentage mapping (if the range is an integer value). 2. If an option is not available in the camera, we also hide the trackbar min/max text.)
- Client, RCAAlarmAddDetectorDlg: In case of camera selection mode, enable auto and manual scaling of header columns.
- Client, RCDisplayMgrSettingsDlg: Improved positioning of the SpinEdit for specifying seconds on the General tab.
- Client, RCConfigureDisplayTourDlg: While editing in the settings window (before Apply), if you switch to another window/application, then when you switch back, the previous changes are deleted.

- Client/Server/OnvifDeviceExplorer, Onvif: Switch to new imported ONVIF WSDL files, Media2 support
- Client/Server, Onvif: Introduction of version-numbered MediaProfileToken due to Media2 / Profile T (Vivotek camera handled Media1/Media2 profile tokens separately, each was dedicated only to Media1 or only Media2 profile). Note: 1. If a profile token is available under both Media1 and Media2, we prefer the Media2 interface because it provides full support. 2. If there is a mixture of dedicated Media1 and Media2 profiles, then in the media profile editor window, we indicate [Media 1.0] after the Media1 profiles, to make it clear that there are only limited setting options (e.g. no H265))
- Client, DeviceMgr: Jump To Camera button could rarely give AV.
- New Activation Tool v5.0.2.1

### **2021.03.05. v5.0.3.11**

- New Activation Tool 2021.03.05 v5.0.1.1

### **2021.02.16. v5.0.3.10**

- Client, Map: If the map was not displayed in the upper left panel, it was displayed in the wrong place.
- Client, Onvif: Manual IP was sent even when NetworkSettings DHCP was selected, and because of this the command could run with an error (e.g., Bosch AutoDome 7000i)
- Client, Onvif: Media Profile creation did not work
- Client, OnvifProfileSettingsDlg: Fix Onvif Profile S conformance
- New Intellio Gateway 20210216.v5.2.1.1-x64
- Server, Gateway: Improvements so that the camera rotated in the camera or in the IVS is displayed correctly and dimensionally on the mobile client.
- Server, Gateway: Optimizing compression for the mobile client. (up to 1-2ms per frame))
- Server, Gateway: If we changed the resolution or rotation of a camera that was currently being viewed on a mobile device, it could be AV.
- Common: Development of an image rotation algorithm so that it can also be used on UYVY images.
- Server, Gateway: On a mobile client, the image rotated in the camera always gets a horizontal image.

### **2021.01.29. v5.0.3.9**

- Client, StatusMonitor: Clicking on the icons did not work to jump to the given device/server/storage.
- Client: New splash picture.
- Common, DirectX: Load global textures from imagecollection.
- Client, GPU: Built-in protection in case the GPU test gets stuck or frozen.
- Client, GPU: Checking the date of the GPU driver, and if it is too old (older than 3 years), we exclude it from use.

- Client, Initio ILB ImageSettings: In the case of IR Mode=Manual on the Day/Night tab, IR Mode was disabled after Smart IR was turned off, but the Distance sliders below it was not disabled
- Client, Skin: Correction of some missing colours (disabled or faded elements) based on the Skin colour palette
- Client, SiteControlCenter: There was a typo in the displayed text (it was Disaled instead of Disabled)
- Common: Add unit required for Windows WMI support.
- Server, Onvif: HTTP Digest authentication support (requires ONVIF Profile S conformance)
- Server, Onvif: 1. Fix RTSP over HTTP Bosch NBN-921 connection
- Server, PerformanceMonitor: Change the value of the IVS memory usage counter to the value according to the Task Manager

### **2021.01.20. v5.0.3.8**

- Server: Update and repair of software protection

### **2021.01.18. v5.0.3.7**

- Client, Views: Fixed errors related to displaying and reloading Views. (Most of the errors occurred when the primary monitor did not have index 0, or when one of the monitors was disabled)
- Client, Skin: Use of new icons (StatusMonitor, Domain, Panorama, Map)
- Client, StorageBufferNotAllocatedDlg: Hungarian localized text did not fit
- Client, EventQuery: Changed to Custom after selecting the item in the time interval drop-down menu
- Client, Intellio ILB Initio: On the Day/Night tab of the ImageSettings window, when Smart Supplement IR was turned off (unnecessarily), the contents of the corresponding IR Mode combobox were deleted
- Client, ControlCenter: The Fade unmatched items function of the quick search filter in the system settings tree on the left did not work (it did not grey out the items)
- Client, StorageServerControlCenter: If, after logging in, the client switches to the StorageServerControlCenter interface (because no buffer has been created on the server yet), the storage buffers interface appeared incorrectly because it did not fill the entire area
- Client, Sisulizer: There was a typo in Hungarian (No storage buffer specified)
- Server, SQL Action: When using SQL/VisiScanSQL/ANPRSQL action MSSQL (ADODB driver), there was an AV when exiting the server.

### **2021.01.11. v5.0.3.6**

- Client, Export: Simplification of the text of the export button when exporting frames. (Instead of Export Frames, only Export, so that the Hungarian translation can also fit)
- Client, MainForm and ControlCenter/Security: Changing your own password has been moved from the ControlCenter/Security page to a separate settings window, which can now be accessed by clicking on the key icon in front of the username on the MainForm statusbar.

- Client, SiteControlCenter: Reorganization of settings interface (new design, layout). Instead of the Save button, outsourcing the basic site settings to a separate dialog window (due to a more unified design).
- Client: After switching from/switching back to the client, the UI elements could flash for several seconds and the client was not responsive.
- Client, High Dpi: High dpi scaling of Device Manager ControlCenter device list column widths
- Client, Skin: Certain functions are called twice (e.g. after logging in, the StorageBufferDlg window, if no buffer has yet been created, asked twice)
- Client, EventBrowser: In some cases, there could be a deadlock and the client would freeze.
- Client: The display of monitors in the client settings window was not always good.
- Client, ControlCenter: In the left tree, the font size of the Site nodes has been increased by 20% to make them stand out more from the other elements
- Client, ControlCenter: quick search filter function for the left tree
- Client, Skin: When EventLogControlCenter was displayed for the first time, it did not draw the lower half of the list (approx.), so it had to be updated once more before displaying.
- Client, EditPanoramaFrm: The Show/Hide camera list button broke the Hungarian localized text into two lines when scaling high-dpi
- Client, RCAAlarmQueryFrm: Detector quick search filter Hide unmatched items mode did not work (did not hide items)
- Client/Vcl, VSTSearchControl: The keystrokes of the VirtualTree QuickSearch filter control were received and handled earlier by the shortcut controls on the Form, so they were no longer included in the edit field
- Client, Skin: In the list of RCSiteConnectionDescDlg site connections, instead of a transparent icon, there was a black square at the beginning of the lines
- Client, Skin: Cannot focus a disabled or invisible control exception sometimes occurred when displaying the RCAAlarmControlCenter page
- Client: On some windows, the minimize button was left unnecessarily.
- Client, TimeLine: Displaying the preview window (date, image, bookmark) caused the header of the MainForm to blink
- Replacement of client and wizard windows (due to skin and highdpi)
- Client: Tuning wizard-type windows on the map
- Server, AlarmMgr: The object colour filter and object type filter were not saved in the virtual detector setting.
- Server, ANPR Prefilter: Use LPRegionFinderDll-4.dll (Requires new Intellio ANPR Acceleration version)