

# Axxon Intellect Enterprise 4.10.0

## Release Notes

**22.04.2016 AxxonSoft releases version 4.10.0 of the Intellect PSIM.**

**Learn more about Intellect on the product page:**

[http://www.axxonsoft.com/products/axxon\\_enterprise/](http://www.axxonsoft.com/products/axxon_enterprise/).

**Registry keys reference guide:**

<https://doc.axxonsoft.com/confluence/display/Int410en/Registry+keys+reference+guide>

## New features and improvements

1. Latest version of the IPDriverpack (3.39) has been included in Intellect 4.10.0.
2. Windows 10 is now supported.
3. Import from external storages has been implemented (edge storage).
4. Protection of video recordings against loop recording has been implemented.
5. The archive bookmarks feature has been added.
6. Background export of video archive from the *Video Monitor* interface object has been implemented.
7. Chinese standard protocol GB/T28181 has been integrated.
8. New version of face capture algorithm has been integrated.
9. New version of object tracking has been integrated.
10. The feature to modify the perspective for object tracking has been added.
11. New *Objects link* object has been added.
12. New *Virtual object* has been added.
13. New *HTML interface* object has been added. It allows displaying web pages as elements on virtual screen.
14. Feature to enter (exit) the viewing archive mode for all cameras by right-clicking has been added.
15. MS SQL 2014 is now supported.
16. Video recompression on the RTSP Server side with overlaying captions has been implemented.
17. Algorithm for sending events from the *Monitor* objects in the distributed system has been optimized.
18. Feature to record audio from two microphones on one camera has been implemented.



19. The unused settings have been removed from the Web Server configuration window.
20. Fast playback of the video archive including synchronous playback on several cameras has been optimized.
21. Slow playback of the video archive has been implemented.
22. Different streams on a camera can now be used for continuous and alarm recording.
23. Removal of old recordings from the PROTOCOL table in the database has been optimized.
24. The ContinuousMode has been implemented when controlling PTZ device using joystick.
25. Control over the timeline slider in the archive playback mode in the *Monitor* has been added.
26. Ping timeout between the Remote Workstation and the Server has been increased to 10 seconds.
27. H.265 and JPEG2000 codecs are now supported.
28. New **WritingQueueSize** registry key has been added to set number of frames in the buffer while recording.
29. New item – Department – has been added to the *Search* tab of the *Operator Protocol* in order to filter users.
30. Operation of Abandoned objects detection tool has been improved. Some registry keys have been added for fine adjustment.
31. New indexing technology has been integrated to search by captions – it allows to significantly accelerate the search in the database of captions. Utility to convert the database captions from the old format to the new one has been added.
32. Parameter to get MJPEG stream via the Web Server without XML inserts has been added.
33. Event that video files copying by *Backup archive* module ends has been added.
34. It is now possible to view the backup archive via the Web Server module, as well as *Search by captions* and *Search by receipts* interfaces.
35. Maximum and minimum values for rotation speed and zoom settings have been added to the PTZ setup interface.
36. New registry key has been added to delete arrow lines and crosshairs (the beginning and the body of the rotation direction of the vector).
37. Script command to enter the backup archive on the monitor specifying the date and time has been added.
38. It is now possible to select the number of the physical monitor in PTZ control panel, Event log, Operator protocol, Map, Live sound switch, Configuration check, Audio player and Fisheye camera monitor interfaces.
39. It is now possible to delete old dump and log files after assembling support data package.
40. Alarm list shift logic in the Operator protocol interface has been improved – it allows non-shifting the entire list if new alarms occur when the operator selects a specific (not the last one) alarm for processing.
41. Current disc for recording can now be changed in the *Computer* object configuration interface.



42. Any object on the map can now be displayed as a text, a command for changing the text, and state (blinking).
43. More than one access card can now be added by the user.
44. It is now possible to control threshold of object speed when there is a request to search by line crossing by changing the length of the vector.
45. Algorithm for selecting archive frame when being requested from modules or scripts has been optimized.
46. Timeline in the archive playback mode has been improved - update if new records occur, automatic activation of the camera when clicking timeline, slider has become more expressive, if one selects the extreme positions then there is auto switch to the previous/next day.
47. Timeline update in the archive playback mode if new records occur has been added.
48. Active camera status and archive viewing mode can now be reset when changing layouts on the *Monitor* interface object.
49. Setting enabling to use device settings when creating an object in the object tree has been added to IP wizard.
50. *Generate alarm on camera* checkbox is now set checked by default in the settings of *Tracker* object.
51. *Backup archive* file system operation has been optimized.
52. It is now possible to count events from one type of objects in *Event counter*.
53. *Region* setting of various objects is now adjusted to the name width.
54. UseServerTime registry key is now enabled by default.
55. Shift+Click key combination has been added to *Expand tree* menu item.
56. The user that is under focus is suggested when adding a user to the rights.
57. New registry key has been added to enable creating events about PTZ devices movements.
58. Presets can now be stored in, switched between and deleted from the product database for PTR-500 PTZ device.
59. New registry keys have been added to assign ports to various cameras streaming in multicast mode via RTSP Server.
60. It is now possible to use numerical global variables while writing scripts.
61. Variables can be stored in files and read from them using scripts.
62. Object included into the region can now be displayed in the settings of *Region* object.
63. ActiveX component is now bound to user rights.
64. *CORE* object can be added to the event filter in script settings.
65. Product version can be shown when using mobile clients.
66. It is now possible to copy/paste text information when working in the DDI editor.
67. It is now possible to use filters for instant search of required object when creating an event in *Operator protocol* interface object.
68. It is now possible to auto copy a map layer file to other computers that are online and are with the same interface.



69. It is now possible to display that an object has been added to the layer in the configuration tree of the map editor.
70. It is now possible to change appearance of switch-to-another-layer icon on the *Map* interface object when it becomes alarmed.
71. It is now possible to undo the latest actions in the map editor.
72. It is now possible to hide icons on the *Map* object using the scripts.
73. Direction of PTZ devices is shown as arrows.
74. It is now possible to set the number of cameras horizontally and vertically in the settings of *Monitor* interface object.
75. Standard mechanism for logging files has been implemented for syncprotocol.exe utility.
76. Параметр реестра The UnloadDelay registry key is limited by 60000 maximum value (1 minute).
77. The button to force SMS sending has been added to the settings of the *SMS* object.
78. Auto switch to ContinuousMode (if supported) has been implemented on PTZ camera.
79. SMS module now operates on Android devices.
80. Using the registry key it is now possible to control creation rate of events about stream change.
81. It is now possible to hide object ID when displaying it on the *Map* interface object.
82. Using the registry key it is now possible to use Server time for all cameras.
83. Information about RAM usage has been added to error log files.
84. Added the registry key enabling to limit the memory usage of the tracker.
85. Added the registry key enabling to control write buffer capacity in RAM for each video stream.
86. HTTP API has been updated and new commands have been added.
87. Video analytics registry keys have been moved to a separate folder.
88. Maximum allowable value of camera ID has been increased.
89. In the setting of objects, where the list of computers is set, a larger selection window is now opened by right-click.
90. The more expressive way to select object on the map has been implemented, the previous mode is enabled using the registry key.
91. Mechanism to check the maximum value of the principal product base has been implemented and mechanism to delete old events from the protocol is activated in order to write new data.
92. CPU load logging has been added to slave.log.
93. It is now possible to perform search by computer name in *Architecture* tab when clicking Ctrl+F.
94. Dead zone size at center of camera can now be controlled - no PTZ control is performed when clicking this zone.
95. Added the registry keys enabling to hide buttons and camera frames in the *Monitor* object.
96. Added the registry key enabling the algorithm to delete events from database not by total days, but starting on the current date.
97. SQL2005 is not supported anymore.

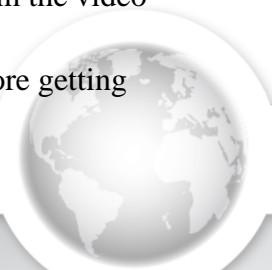


## Fixes

1. Fixed error related to archive functioning in the *Operator protocol* interface when access to it is forbidden in the user rights.
2. Fixed a rare error that enabled extra streams on cameras after updating database structure when the system restarts.
3. Fixed error that caused memory leak occurring with high resolutions when MotionWavelet codec is in use.
4. Fixed error related to possible exclusion of script engine when using VMDA search.
5. Fixed error related to incorrect displaying states of Bolid FAS objects on the map in mobile client.
6. Fixed error related to displaying 'ladder' on the object edges if video is displayed in a small window.
7. Fixed error related to incorrect FPS sending (30 instead of 25) to Axis cameras when they are configured in Intellect.
8. Fixed error that caused *FishEye Monitor* interface leak occurring when there are a lot of files in the archive.
9. Fixed error related to *FishEye Monitor* interface malfunctioning on Remote Workstation.
10. Fixed a rare error related to the absence of video on a Remote Workstation when the product is started for the first time.
11. Fixed error that caused non-disabling of extra streams on Axis P7216 camera.
12. Fixed error related to sound loss for a few seconds while viewing the synchronous video and audio archives.
13. Fixed a rare error related to the video module restart by the system restart service.
14. Fixed error that caused malfunctioning of macros and getting events on mobile client after a while.
15. Fixed error related to possible crash of the captioner when non-standard fonts are in use.
16. Fixed crashing of video module caused by the “|” character in the additional info field when exporting the frame.
17. Fixed crashing of video module caused by right-clicking the *Monitor* panel.
18. Fixed a rare error related to the backup archive module crash when the module engages a lot of cameras.
19. Fixed error related to possible video termination when virtual screens are usually switched.
20. Fixed error related to CamMonitor.ocx component when using MotionWavelet codec.
21. Fixed error related to *Live sound switch* malfunctioning with Axis P8221.
22. Fixed error caused by lack of audio when exporting in AVI via *Monitor* interface object.
23. Fixed error related to possible video recording stop from cameras on FX8 cards.
24. Fixed error related to absence of 1080p resolution in the window with low resolution.
25. Fixed error related to non-adding captions when exporting from *Monitor* interface.
26. Fixed error related to incorrect display of icon size when changing it in the map editor.
27. Fixed error related to inability of video viewing on mobile clients from Server on which NOD32 antivirus is installed.
28. Fixed error related to non-adding embedded camera detection tools using IP wizard.



29. Fixed error causing possible product restart if it is already running as a service or under another user.
30. Fixed error related to incorrect results for *Motion from one area to another* request.
31. Fixed error related to spontaneous OS restart after starting and running the product installer in the restore mode.
32. Fixed error related to incorrect displaying of tracks from metadata incoming from cameras.
33. Fixed error related to exporting not the entire archive period from the monitor.
34. Fixed error caused streaming from cameras moved to backup server (failover) not to restore if cameras are displayed on the monitor via the videogate.
35. Fixed error related to Web server malfunctioning when all objects are forbidden in the user rights.
36. Fixed AdaptiveStream registry key malfunctioning.
37. Fixed video module leak when there is a lack of resources to decode stream.
38. Fixed error related to possible stop of video streaming from FX4 video capture card after several product restarts.
39. Fixed error related to non-updating data on new video archive recordings on external storages when viewing them via *Monitor* interface object.
40. Fixed crashing of video module when a lot of cameras with high resolution (1080p and higher) operate simultaneously.
41. Fixed error related to incorrect color indication of tracker frames around moving objects in Windows 8.1
42. Fixed error related to displaying service information (as captions on the camera) from an abandoned object.
43. Fixed error preventing camera moving within the *Monitor* interface object.
44. Fixed error causing live video freezing when scrolling archive on one of the other cameras.
45. Fixed video module leak when using MemFile registry key.
46. Fixed error causing incorrect displaying of the configurator window when connecting via RDP.
47. Fixed inability to change key frame rate for SC3B0N16 video capture card.
48. Fixed error related to ignoring *Recording speed* parameter when *Use Watchdog* setting is active.
49. Fixed error that caused incorrect positioning in the archive when accessing it using script.
50. Fixed error related to incorrect scaling of image captured on video received via ActiveX component of Similar face search web interface.
51. Fixed error related to inability to control PTZ camera when connecting to it directly from *Monitor* interface object.
52. Fixed error related to accessing scripts in the system tray if they are forbidden in the user rights.
53. Fixed error related to incorrect licensing of interface objects.
54. Fixed error related to incorrect playback rate for the archive transmitted via RTSP Server.
55. Fixed error related to audio-video mal-synchronization when converting not from the video beginning.
56. Fixed error related to getting events from camera embedded detection tools before getting the video stream.



57. Fixed error related to getting video from cameras on mobile clients when they are forbidden in the user rights.
58. Fixed inability to open DDS files by double-clicking them in the explorer.
59. Fixed error allowing to create empty entities in DDS editor.
60. Fixed error related to resetting color highlighting of alarm and informational events when enabling column filters.
61. Fixed possible crashing of *External storage* module caused by its reinitialization.
62. Fixed error related to duplicating entries in the combo box for setting event type DDI editor.
63. Fixed error related to incorrect positioning on the archive fragments while manually deleting one or more of them.
64. Fixed FishEye Monitor malfunctioning with various date formats.
65. Fixed error related to enabling operator to log on to the computer when he has no such rights.
66. Fixed error causing video module descriptors leak when using trackers.
67. Fixed inability to set fps to *Auto* position in the multistream mode for Bosch NIN-932-V03IP.
68. Fixed error related to non-changing the stream for video analytics without product restart or tracker settings reapply.
69. Fixed error related to incorrect position of interface elements when using non-standard font size and screen resolution.
70. Fixed error related to incorrect positioning of product core window when screen resolution is changed.
71. Fixed error related to the archive depth displayed incorrectly in the web report system.
72. Fixed error that caused Watchdog malfunctioning on WS-16 video capture card.
73. Fixed error that caused excessive deletion of captions while manually deleting an archive file from the interface or script.
74. Fixed error of the *Use device settings* checkbox malfunctioning for some cameras.
75. Localization packages have been improved and supplemented.
76. A number of minor errors have been fixed and overall stability of the product has been improved.
77. Improvements to documentation have been made as well.

**Hardware and Operating System Requirements:**

<https://doc.axxonsoft.com/confluence/display/Int410en/Requirements+for+base+PCs>

**Product documentation:**

<https://doc.axxonsoft.com/confluence/display/Int410en/Documentation>

**Download the Intellect 4.10.0 installer:**

<http://www.axxonsoft.com/resources/downloads.php>

