# Digifort Release Notes

# Version 7.2.0.0

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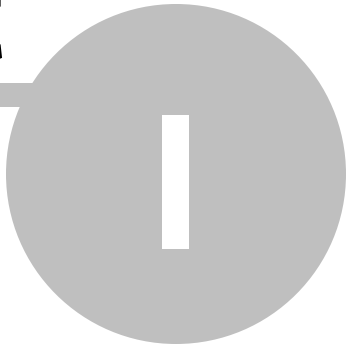
# Part



# 1 Description

This file contains the history of all changes made to the system. Changes here shown are valid for the Enterprise edition that has all the features. Professional, Standard and Explorer editions may not have certain items described in this file.

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# Part

# 2 Version 7.2.0.0

**Release date:** January 12, 2017

## 2.1 New features and improvements

This section contains information about the new system features and improvements.

### 2.1.1 Support for H.265

Added full support for decoding and management of H.265 streams (HEVC)

H.265 is a major evolution of the H.264 codec, with gains of up to 50% less bandwidth for the same visual quality. The system now supports full compatibility with this new codec for selected cameras. The system RTSP server has also been prepared to provide H.265 stream if the camera is recording in this format.

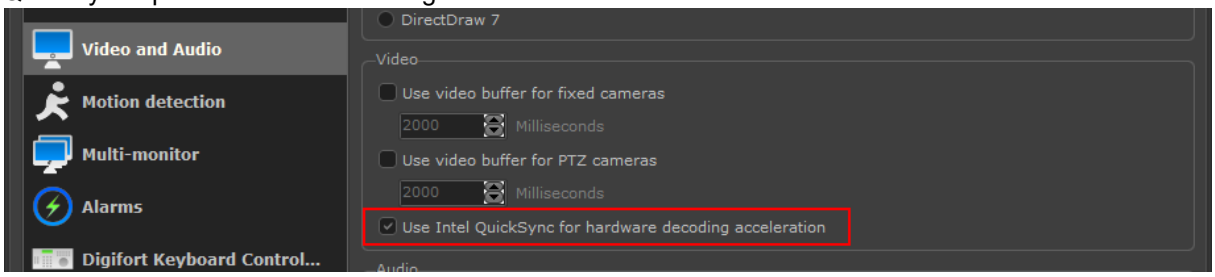
### 2.1.2 Support for QuickSync

Added support for video decoding (H.264 and H.265) using QuickSync via the Intel processor video card.

QuickSync is an Intel technology that enables video decoding through the graphics processor embedded in its processors. To use QuickSync your computer must support the use of the built-in video card (Intel HD Graphics) and it must be active in the operating system.

It is recommended to use QuickSync for viewing 5-megapixel or larger images, where hardware decoding gains are most notable. It is also recommended to use 64bit Surveillance Client because memory usage is higher.

QuickSync support has been added to the Surveillance Client and to use it, simply enable the QuickSync option in the client settings:




### 2.1.3 Thumbnail search in playback

Media Player now allows you to search for thumbnails. This great feature will display a thumbnail of different recording times, allowing you to quickly locate a desired scene.

It is possible to generate thumbnails based on a time slice where the system will display thumbnails with fixed time interval or per bookmark where the system will display a thumbnail for each camera bookmark. The system still allows for the custom choice of the time interval and the size / quantity of thumbnails on the screen. Clicking on a thumbnail will synchronize the video with the time of the thumbnail for quick viewing of the event.

The system also allows you to search for thumbnails in exported videos using the native format.

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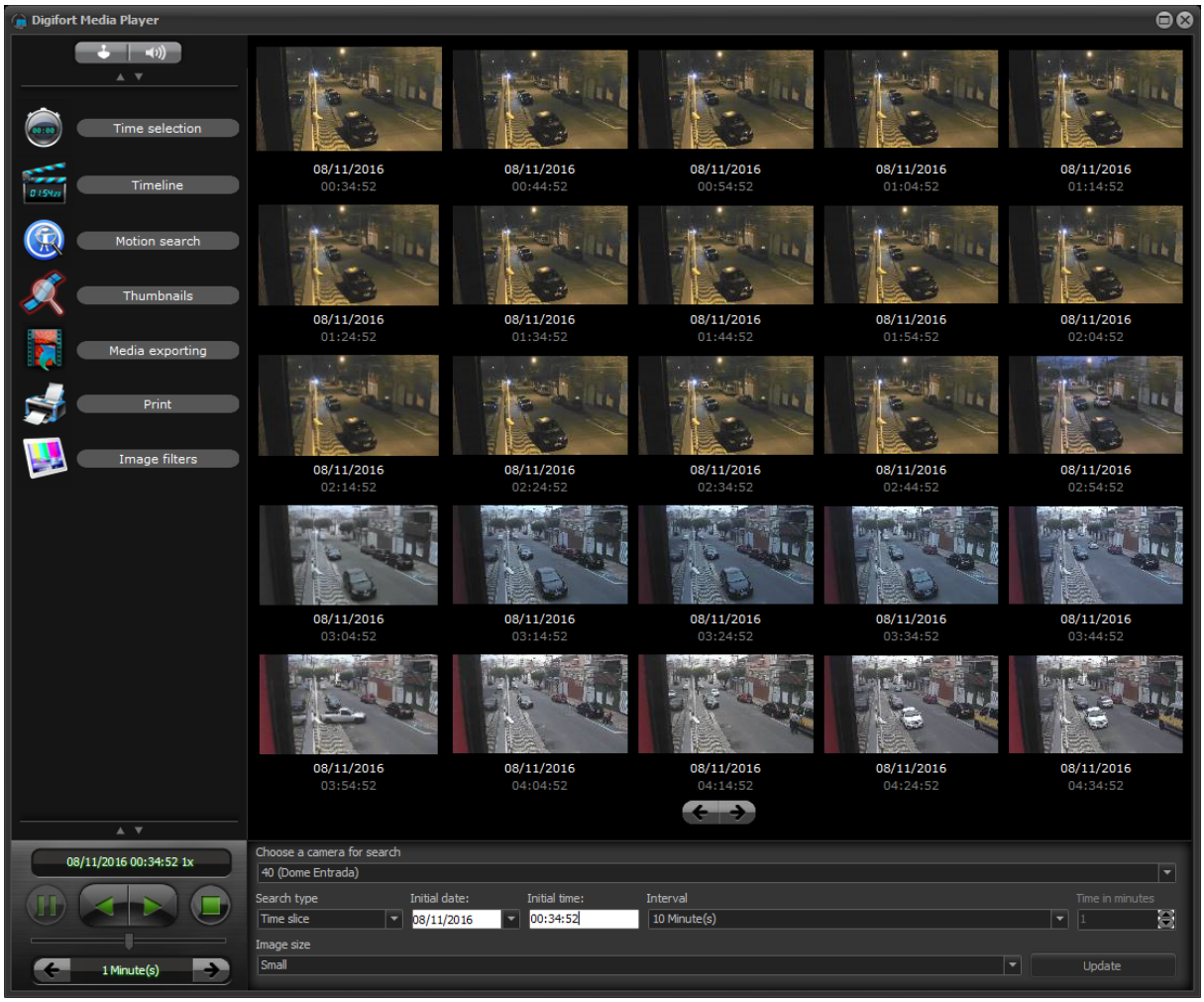


## 2.1.4 Metadata recording

The system now allows metadata recording and playback tied to camera images. At this moment only analytics metadata are supported, but different types of metadata are planned for future implementation.

In Administration Client you can activate and deactivate the metadata recording and select its origin.

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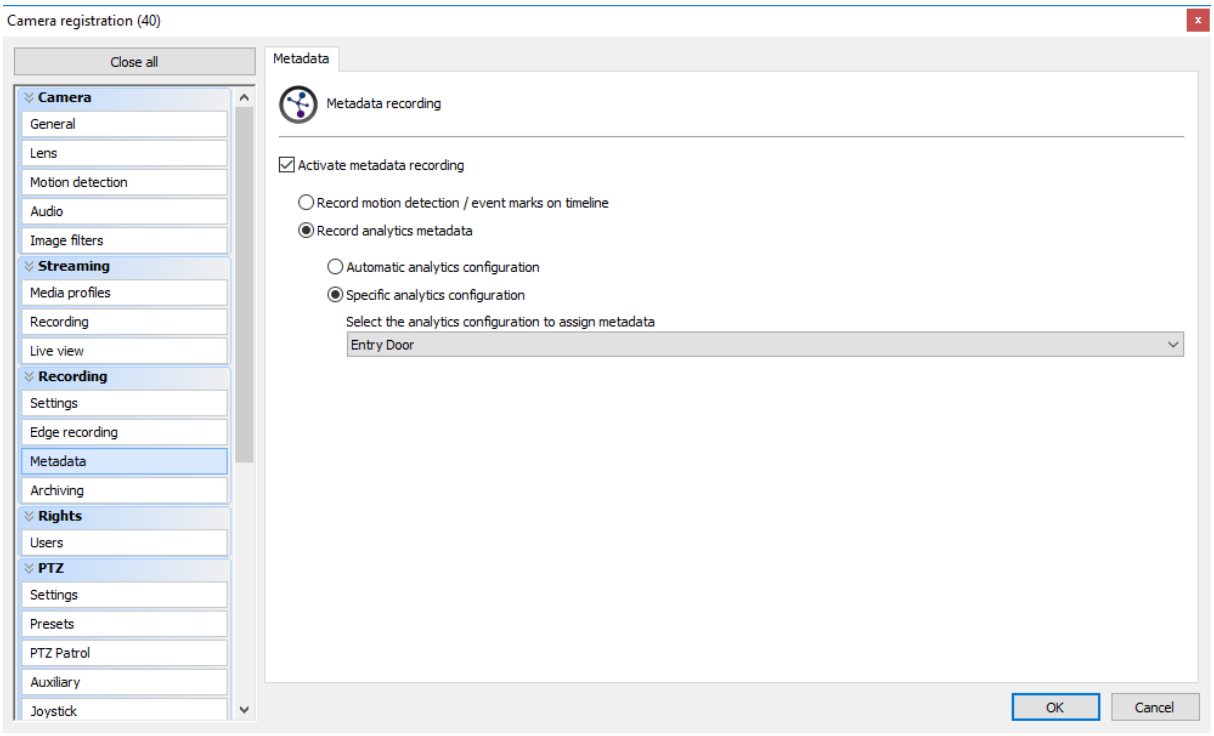


During media playback, all metadata associated to the camera will be rendered. A purple bar will be displayed in the timeline to show metadata recording track.

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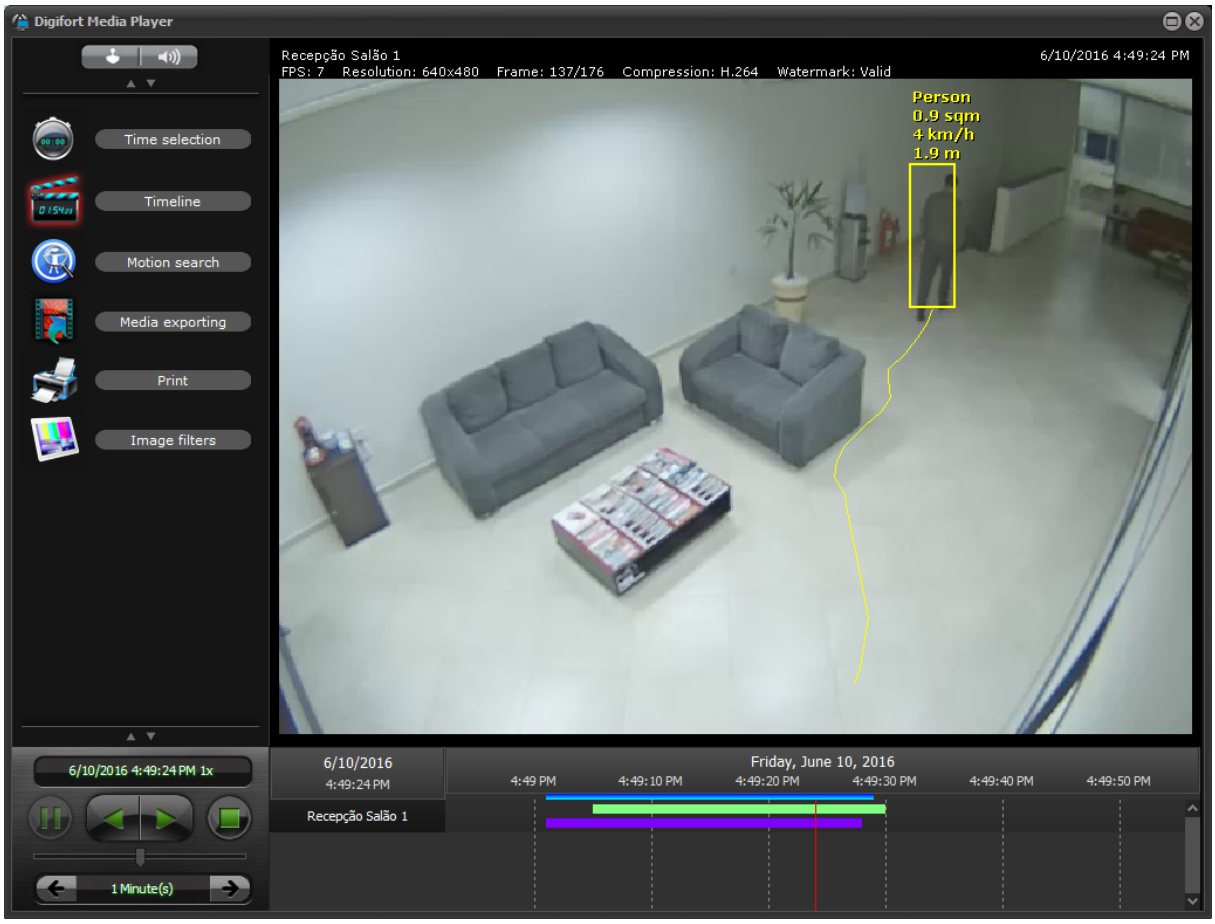


During media playback with metadata, the system allows the selection of which analytics metadata information will be displayed, such items can be disabled or enabled during playback.

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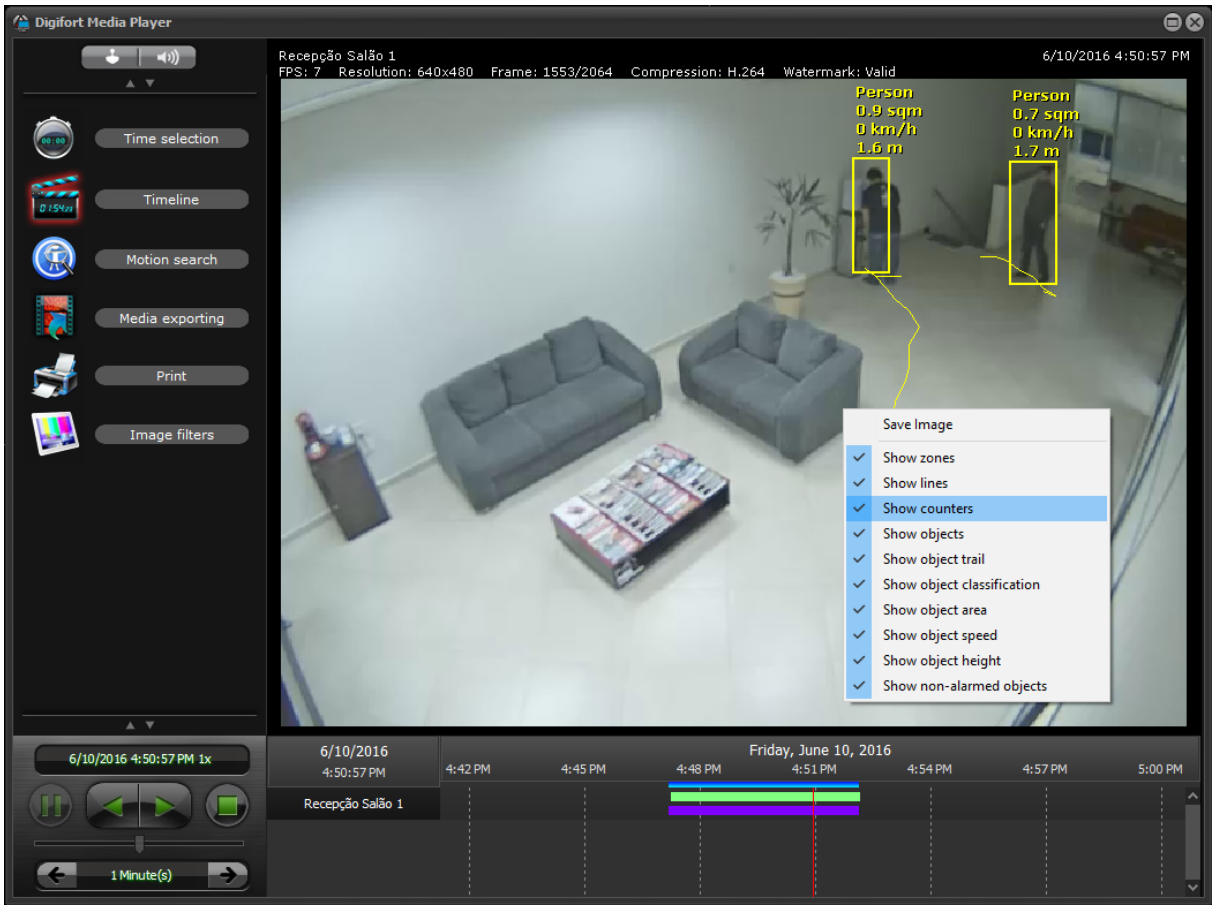


Metadata will also be included in exported media using native format.

If recording archiving is activated the metadata will also be archived, along with video and audio.

### 2.1.5 Motion detection and event information on timeline

The system now allows the recording of metadata with motion detection or event recording information. This feature allows easy identification, on the timeline, of movement or event recorded through a special line with colors identifying movement or event.

A period with a yellow band identifies an event in the recording while a period with a red band (with different intensities) identifies motion detected on the camera.

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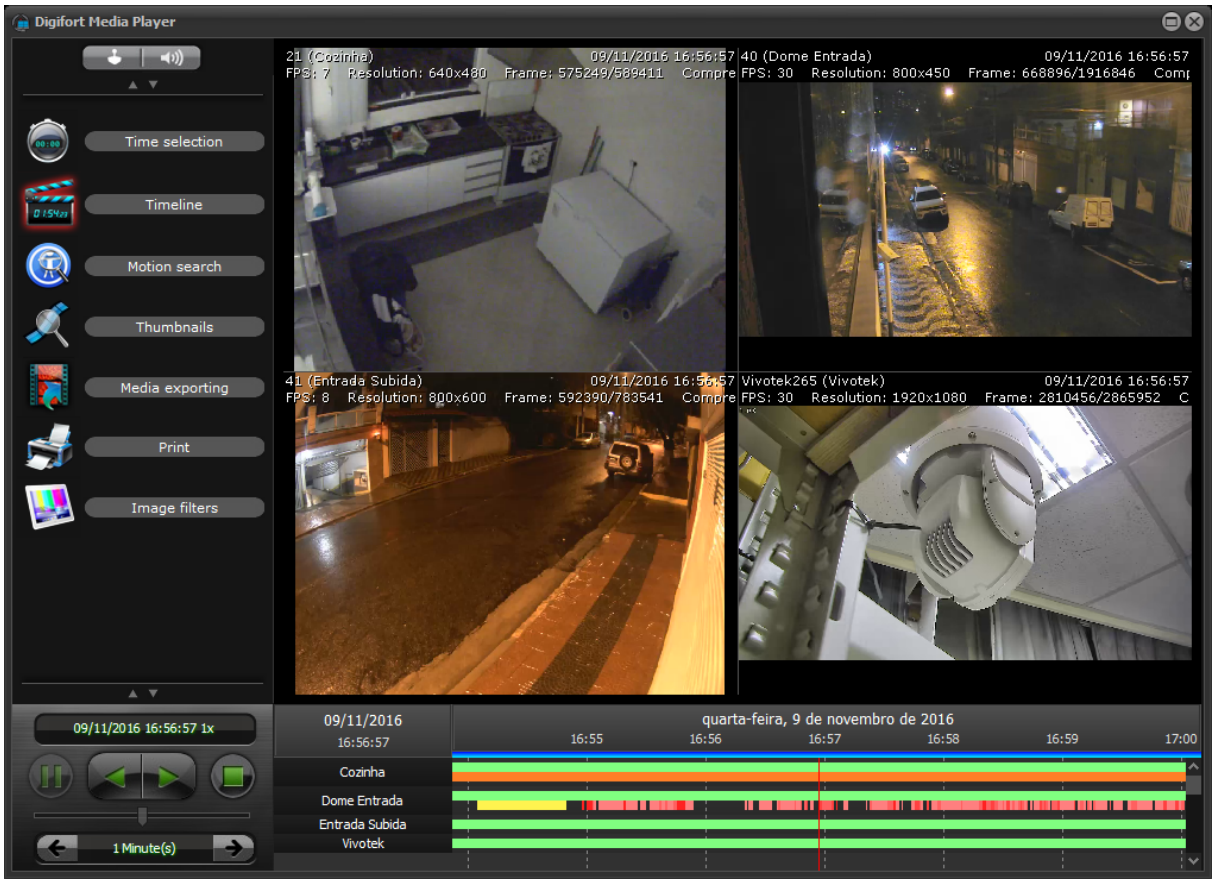


## 2.1.6 Support to IPv6

Added basic support to IPv6. It is now possible for the server to connect to cameras using IPv6 and clients accessing the server using IPv6 networks.

When using literal IPv6 addresses in the system, it has to be specified between square brackets ("[" e "]"). Example: [2001:db8:85a3:8d3:1319:8a2e:370]

The notation with brackets should be used both for server IP registration on the client as to the equipment register on the server. If the address is IPv4 literal or DNS, the address should not contain brackets.

Some features such as IP filtering and Multicast are not yet available in IPv6 but support for them will be added in future releases.

## 2.1.7 Experimental 64bit

It was included in this release the experimental 64bit version of the Server and Surveillance Client components that are the most critical in the system. The 64bit version will allow these components to use the entire available memory of the computer (Not restricted to 3.5GB as 32bits version), which should allow for better management of high-megapixel images.

By default, the 64bit version will not be available in Start Menu or Desktop. To run the Surveillance Client in 64bits it is required to execute the file surveillance64.exe directly, and to execute the server it is required to rename the file server64.exe to server.exe (and rename old server.exe to server32.exe), thus allowing the service manager to start the server.

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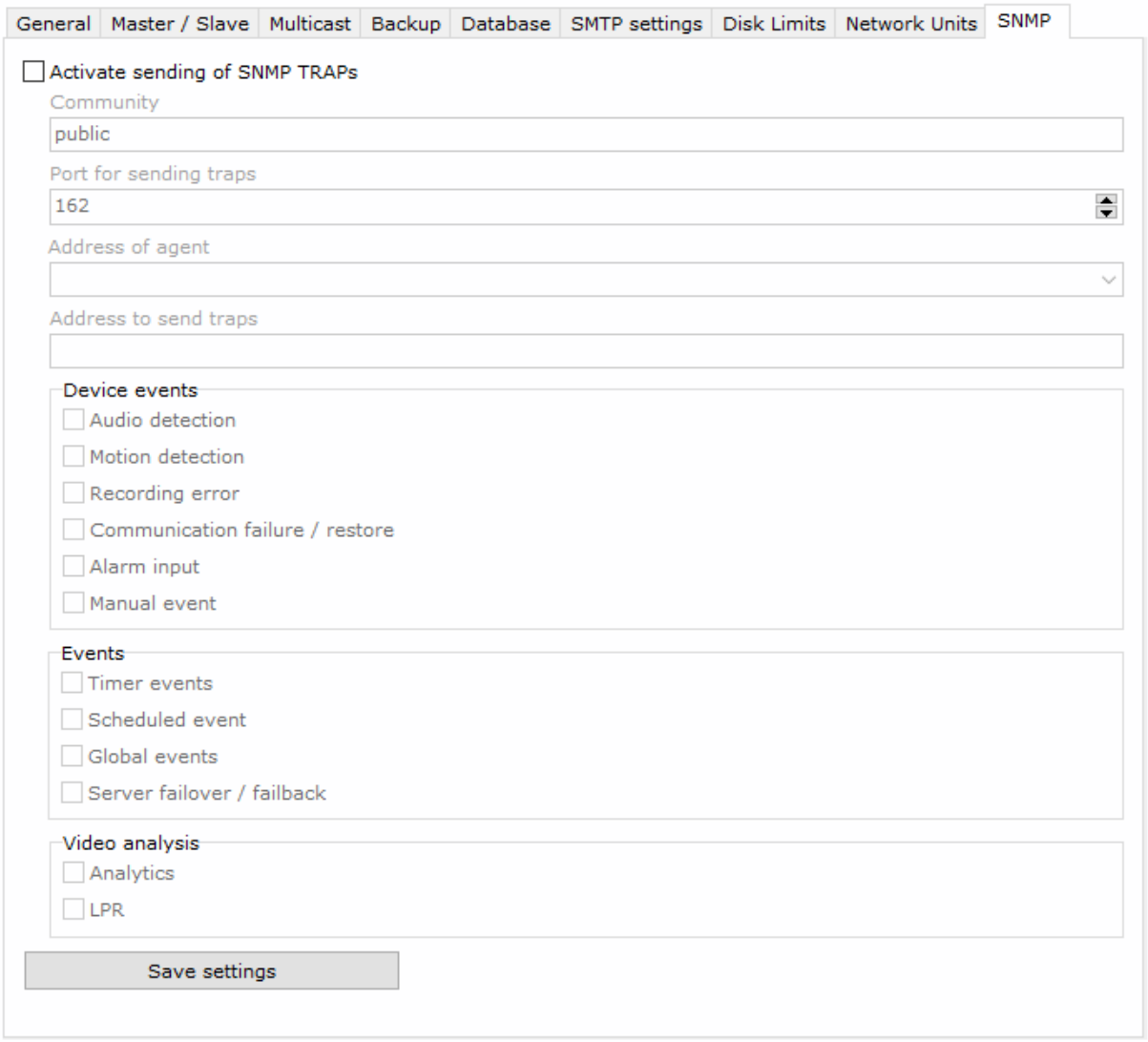
Some features are still not available in the 64bits version, such as:

- Biometric authentication
- Remote keyboard control using Insight (Surveillance Client)
- Locking of surveillance station
- Integration with Digifort Evidence
- Dewarping of 360 degree images

### 2.1.8 Support for SNMP

The system now allows sending TRAPs to notify the occurrence of any system events through the SNMP protocol.




### 2.1.9 Exporting in JPEG

The media player now allows video export in JPEG images sequence.

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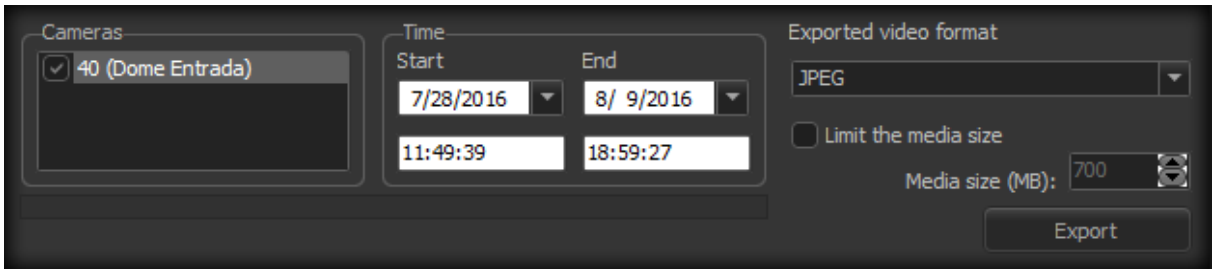
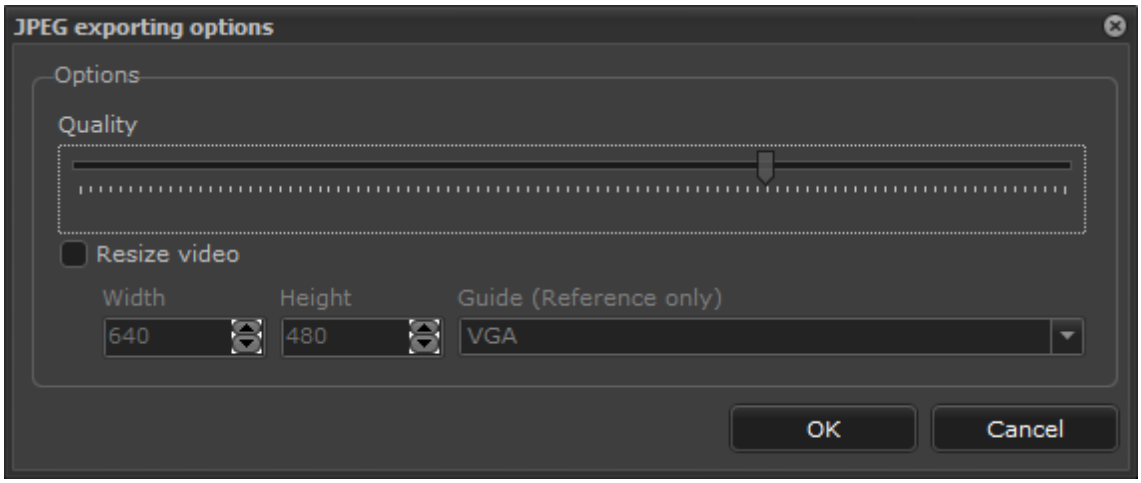



In this export standard, all video frames are converted into individual JPEG images in the export folder, and can be used for example to create fast video time-lapse with any video editor since all video frames are available in separate files.

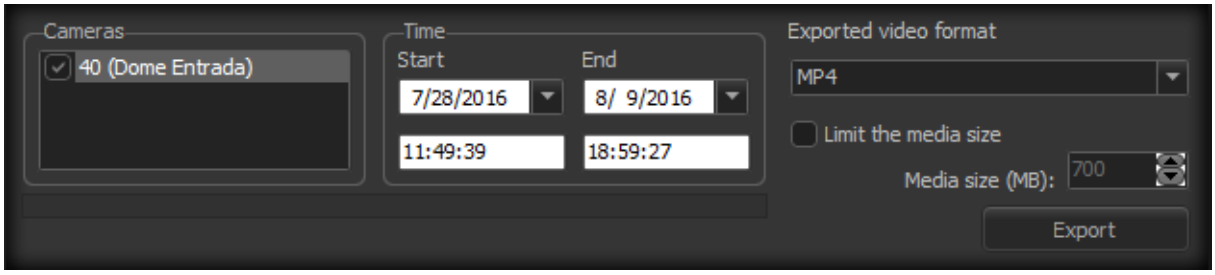
Each JPEG file will contain the original date and time of the recorded frame.

The system also allows the choice of JPEG compression quality and resize image during export




## 2.1.10 Exporting in MP4

The media player now allows native exporting to .mp4 format as a great alternative to .avi exporting




The .mp4 file format is extremely versatile and allows the encapsulation of multiple video and audio formats. The system can export video in .mp4 quickly without transcoding, packaging the original frames of video (audio will always be converted to AAC if it was recorded on another format) and providing an export without any modification of the original image data, but some formats may not be compatible with all video players (such as Windows Media Player which does not natively supports MJPEG and MPEG-4). In these cases the system allows the H.264 video transcoding (Along with AAC audio) to be compatible with most video players without the need to use special codecs, but the exporting is slower

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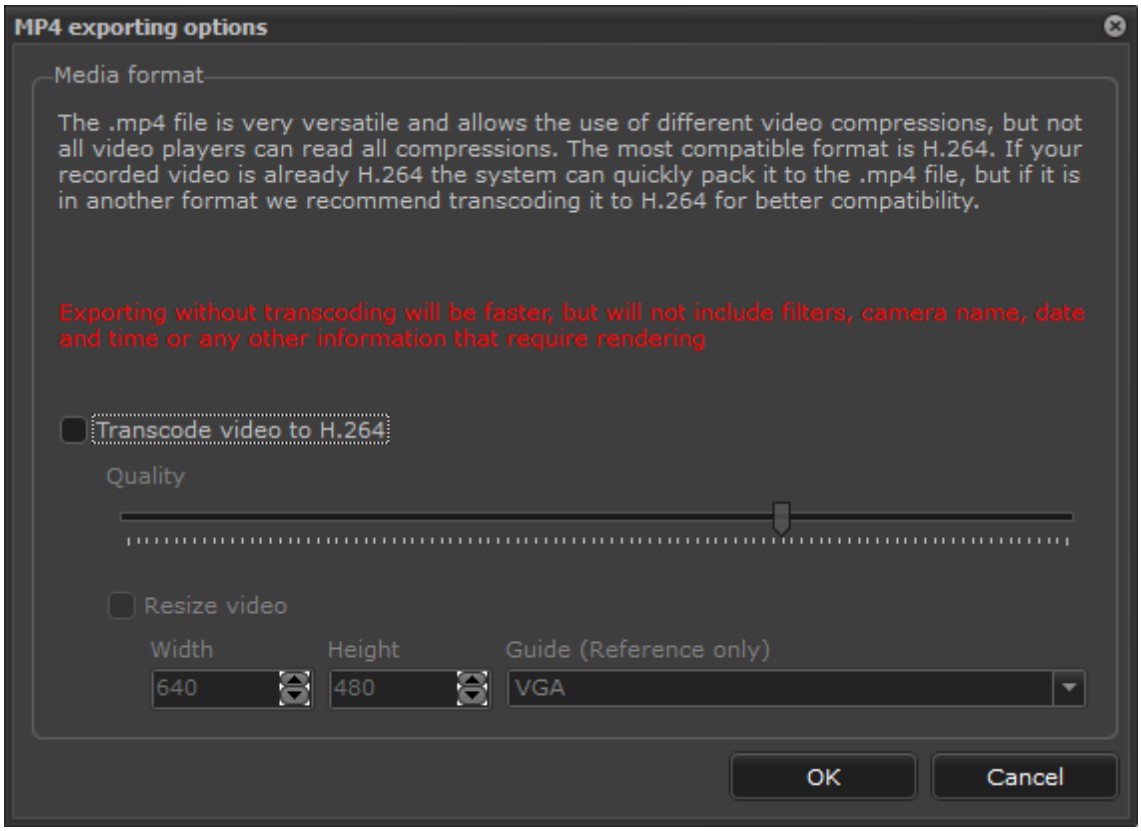
since the video is recoded.



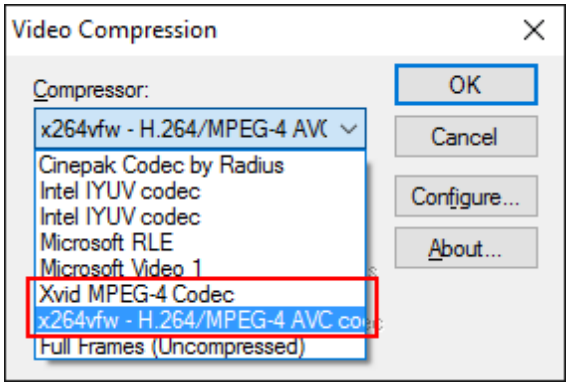

## 2.1.11 Codecs for AVI exporting

The system will now install by default 2 great codecs for using in video export:

- XviD MPEG-4
- x264

These codecs are widely used, compatible with almost all video players in the market and have excellent compression performance and quality.

The x264 codec will be selected by default when opening the export window in AVI

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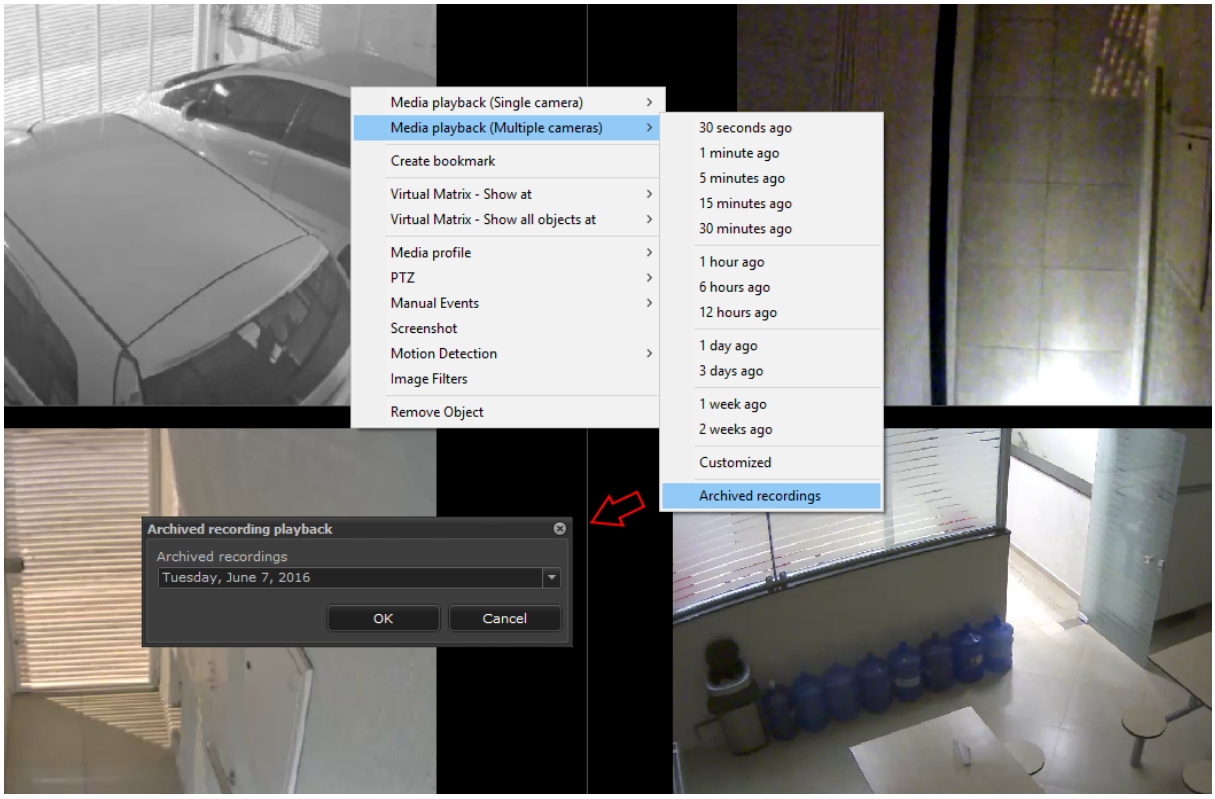
## 2.1.12 Playback of archived media

The system will now allow playback of archived footage through Surveillance Client.

Archived recordings are considered "Cold Storage" and are part of the archiving system, which can be configured to copy all recordings of previous day to another storage folder that can be located in a different storage device that usually has lower performance and lower cost.

Previously it was not possible to easily playback the archived recording, the user was required to manually select the archiving directory from Surveillance Client and the PC would have to have direct access to the archiving folder. With this new option, playback of archived media is now native to the Client.

Due to the format of archived footage, it is only possible to playback 1 archived day per media session by selecting the available archived day through date picker screen:




## 2.1.13 Playback of cameras from Analytics and LPR objects

In Surveillance Client it is now possible to playback video from cameras assigned to LPR or Analytics configurations by using the context menu with the right button of the mouse. In previous versions, only camera objects would offer the option for playback.

The camera assigned to the Analytics or LPR configuration will be played when selecting through these objects:

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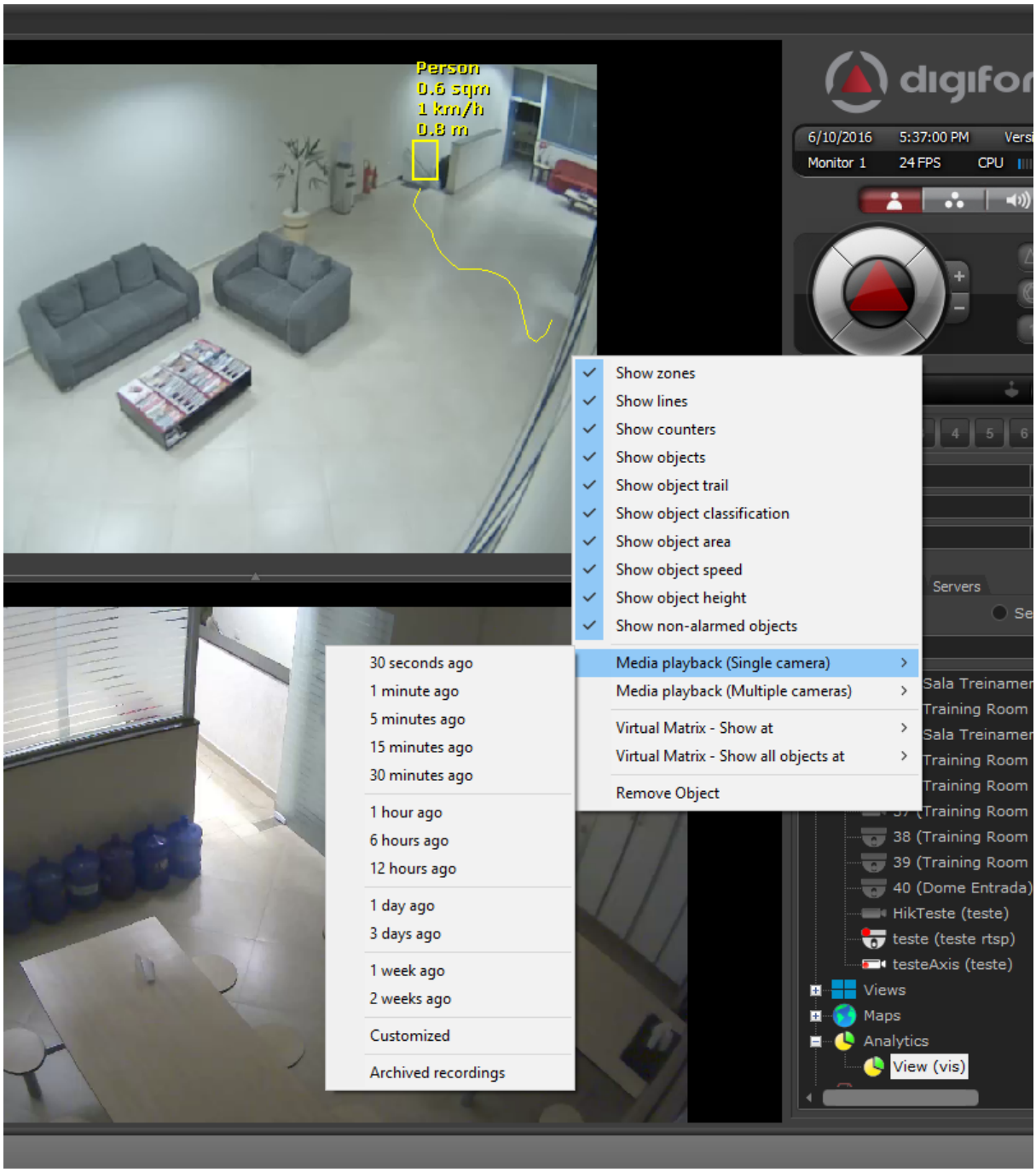


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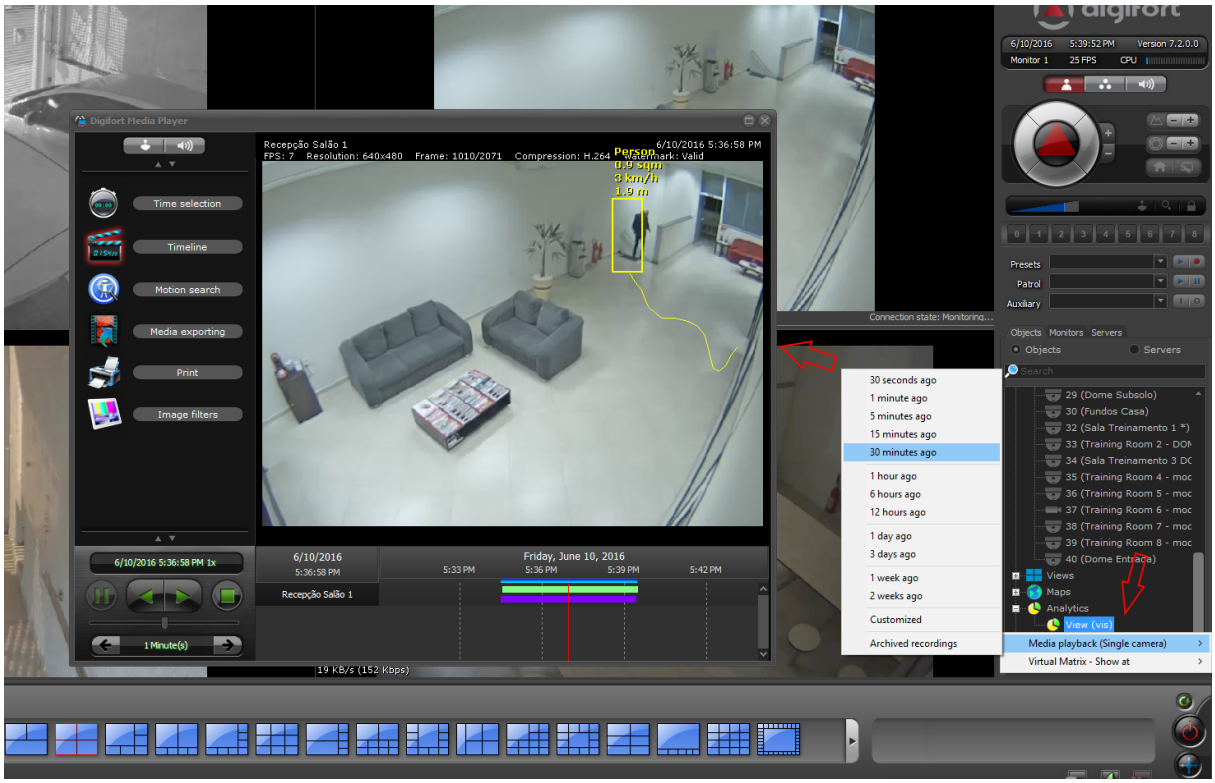


## 2.1.14 Alert e-mails with link to playback

The event action to send e-mails now allows attaching a script file that upon execution will open Surveillance Client and playback the video from cameras whose images were selected to be attached to the e-mail.

This feature will only work for the desktop version of Surveillance Client. In case the e-mail is open in a mobile device such as Apple or Android, the script file will not work.

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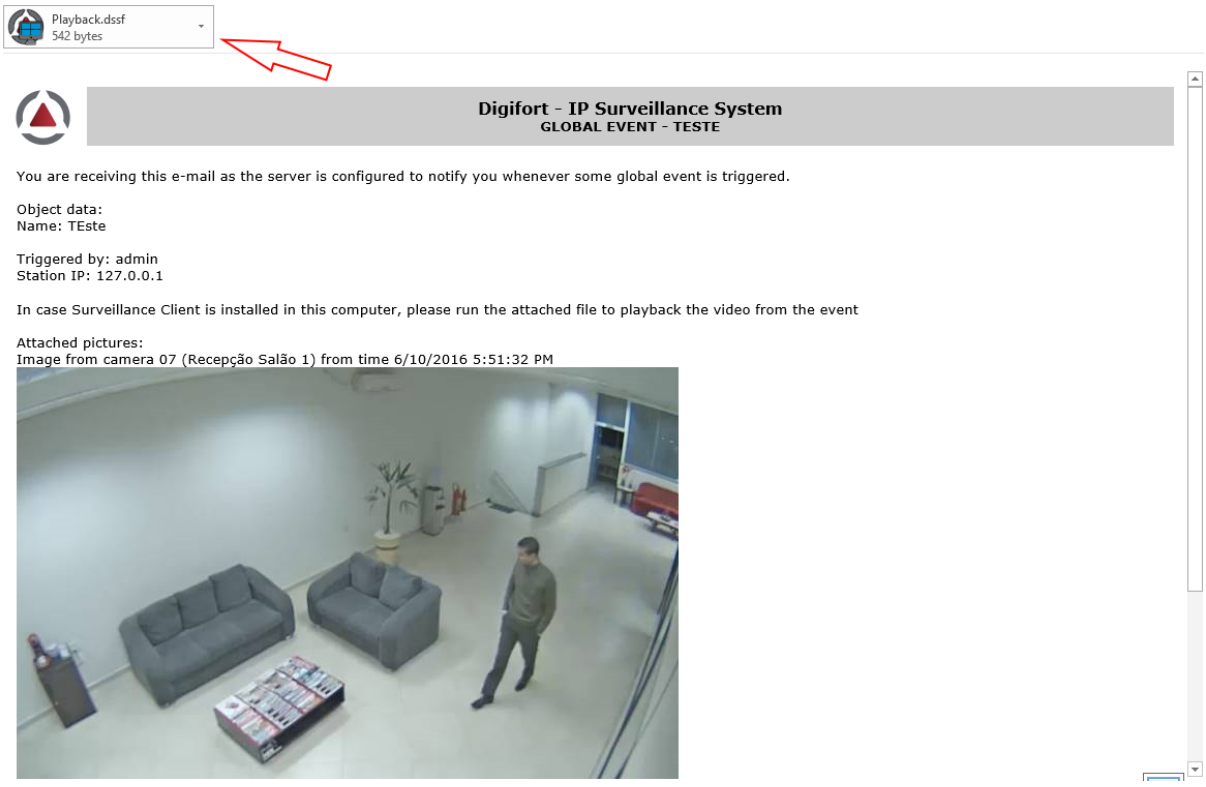


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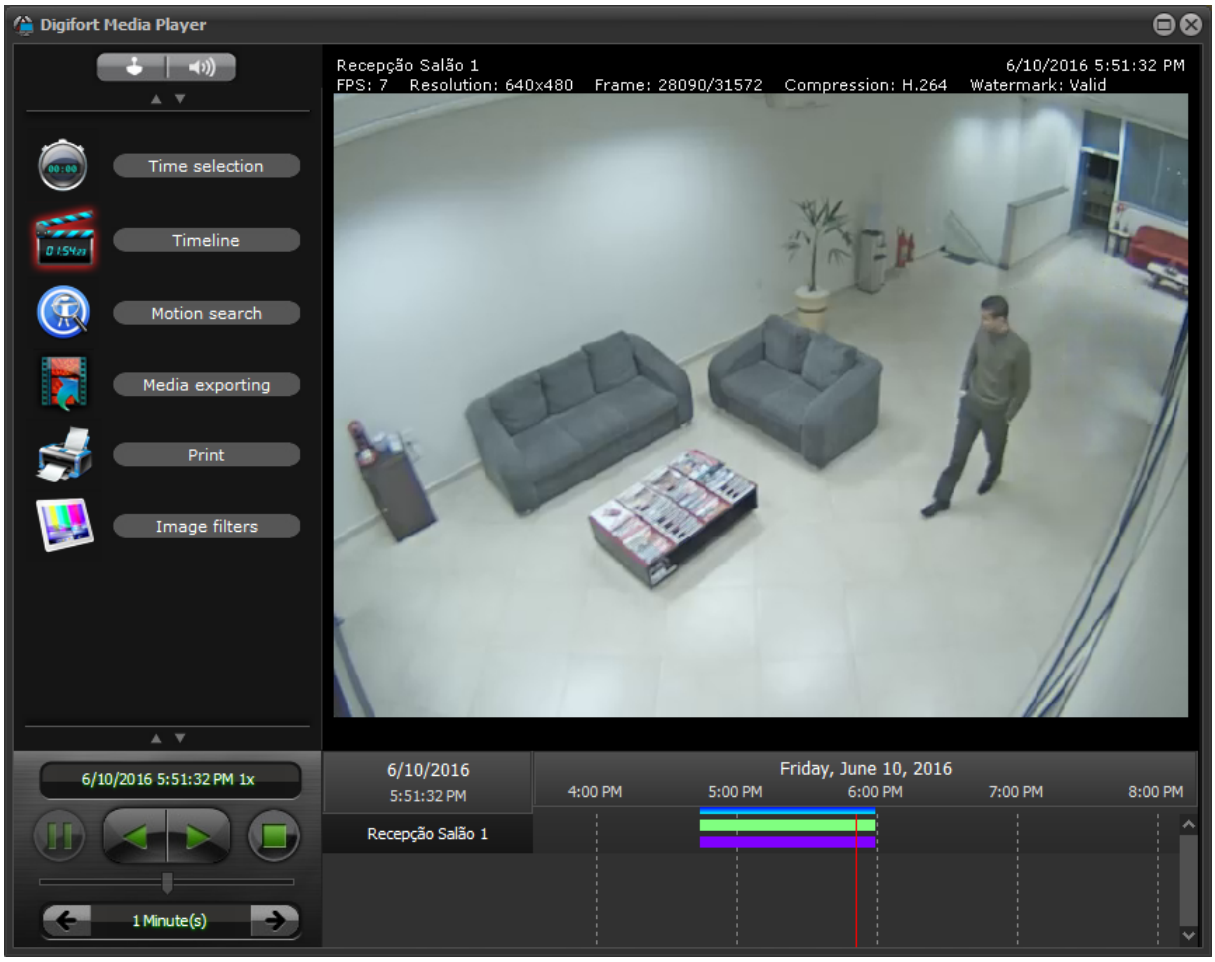


## 2.1.15 Alert e-mails with embedded analytics metadata

The system now allows the user to select an Analytics Configuration to send camera images in the event action to send e-mails. When an Analytics Configuration is selected, the system will send the e-mail with the camera image embedded with analytics objects metadata. Check below an example of a real e-mail that was sent:

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**Digifort - IP Surveillance System**
**GLOBAL EVENT - TESTE**

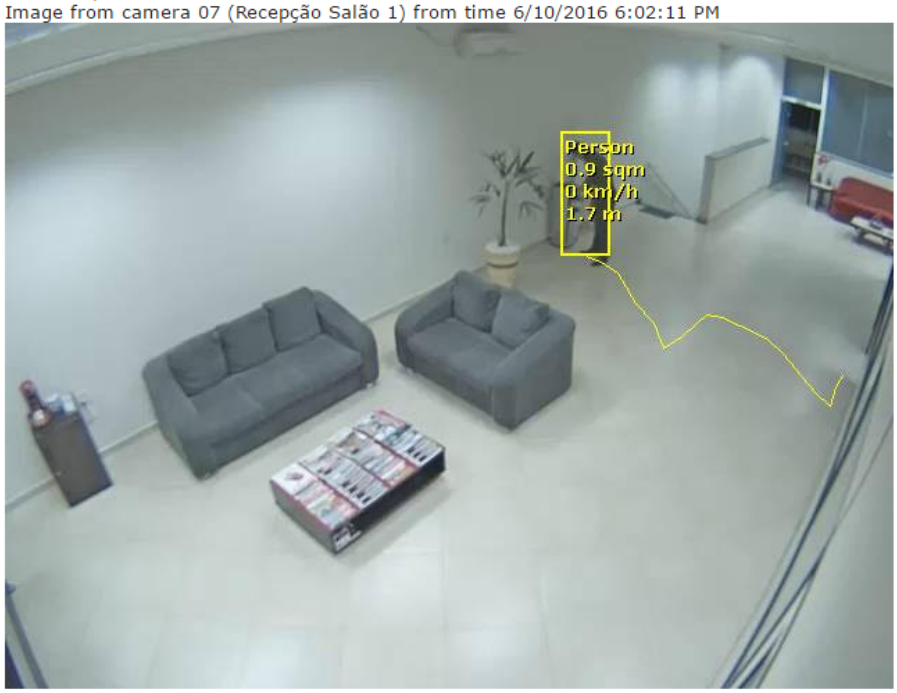
You are receiving this e-mail as the server is configured to notify you whenever some global event is triggered.

Object data:
Name: TEste

Triggered by: admin
Station IP: 127.0.0.1

In case Surveillance Client is installed in this computer, please run the attached file to playback the video from the event

Attached pictures:
Image from camera 07 (Recepção Salão 1) from time 6/10/2016 6:02:11 PM




The settings of sending alert e-mails now allows the selection of both cameras and analytics objects:

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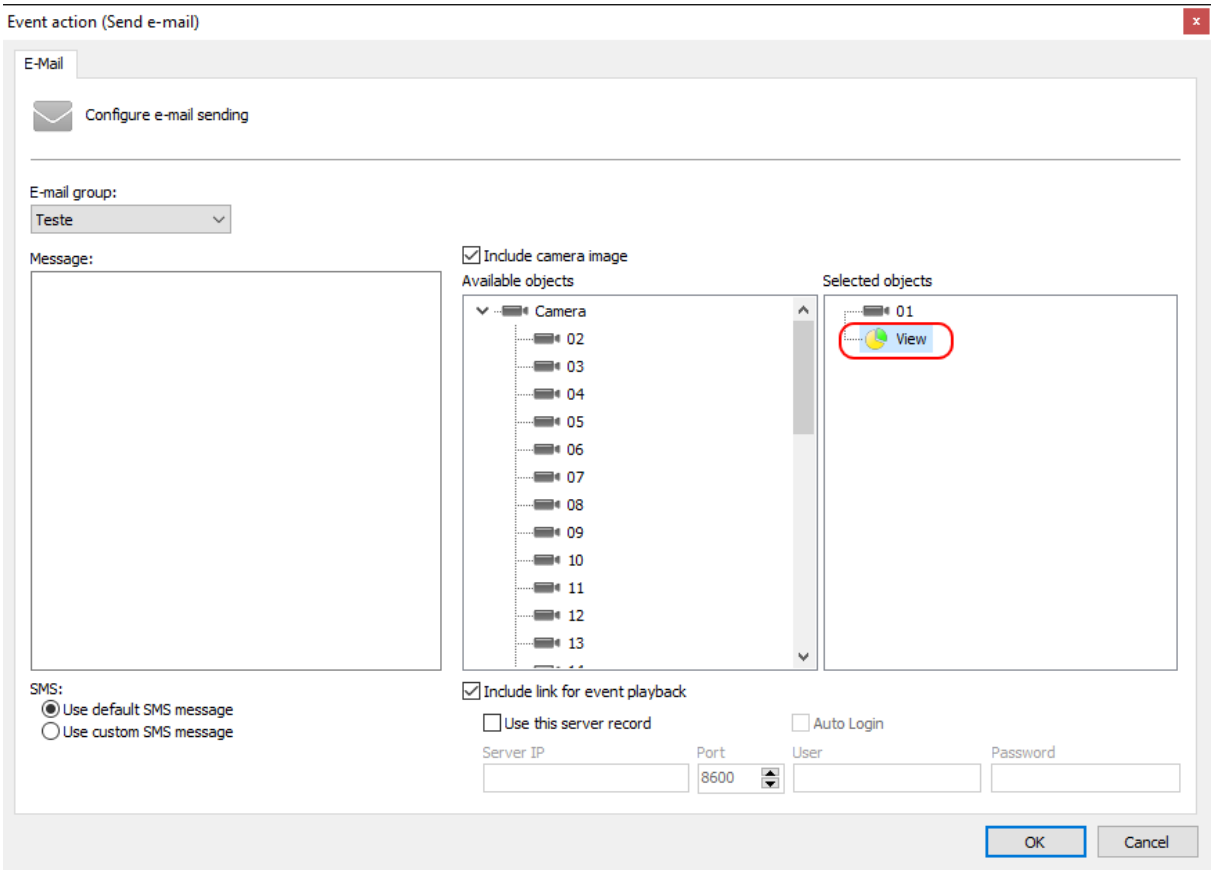


## 2.1.16 Turbo exporting

The export mode option "turbo" was removed and now will always be used by default, i.e., exporting will always be at the highest possible speed

## 2.1.17 Instant update on timeline move

By moving the timeline in media player, by default the image update will only occur 500ms after the user stops moving it. A new option for instant update was added, with this option the image will be updated instantly by moving the timeline, which allows a quick view of events that occurred at different times by just quickly dragging the timeline (For this feature to work properly the client must be on a high performance local network).

This option will also change the behavior of the timeline by adding a drag-and-drop effect where the timeline will continue to move according to the force of movement.

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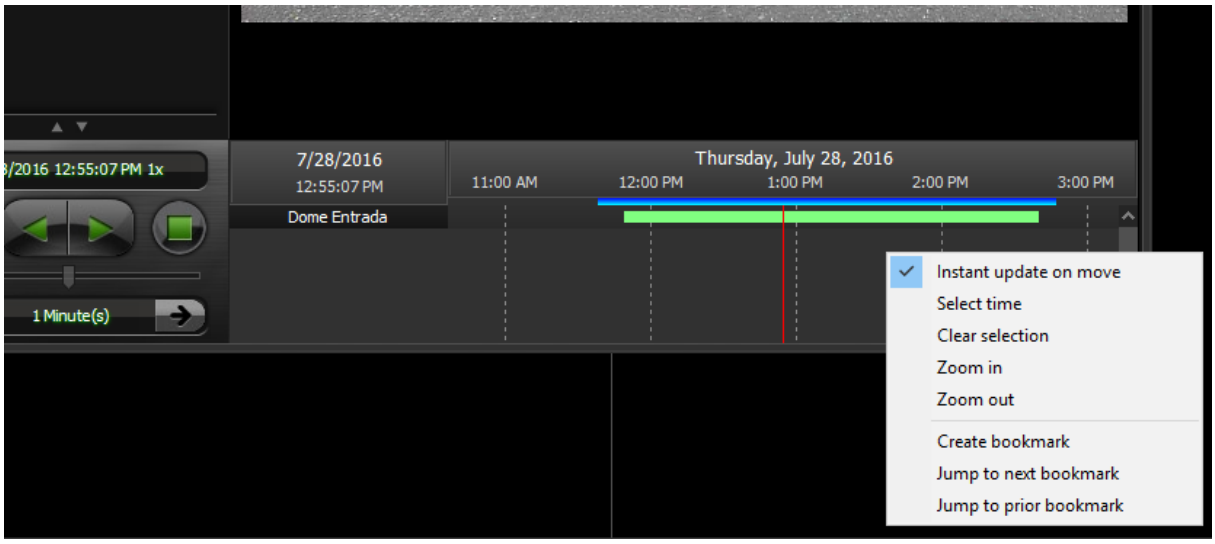


## 2.1.18 Integration with Video Synopsis module

Video Synopsis module will now run inside Surveillance Client, facilitating its operation.

## 2.1.19 Printing playback images

The playback image print report will now always resize the images, maintaining the original scale, to fill the report space.

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# Digifort - IP Surveillance System

**Security image report**

| Image details | |
|---|---|
| Camera | 40 (Dome Entrada) |
| Date and time of capture | 1/10/2017 7:05:55 AM |
| Operator name | eric (Eric Fleming Bonilha) |
| Date and time of printing | 1/10/2017 2:34:24 PM |

**Operator notes**

Authentication code

C67A-04C0-D59B-5443-119F-C87A-8454-3AFB

Digifort - IP Surveillance System

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## 2.1.20 Privacy Mask with blur

The Privacy Mask feature now allows blurring areas of image option instead of a black rectangle covering the area.

## 2.1.21 Easy registration of multi-channel devices

A new option to automatically register multiple channels of a multi-channel device such as DVR, NVR of multi-lenses camera was created.

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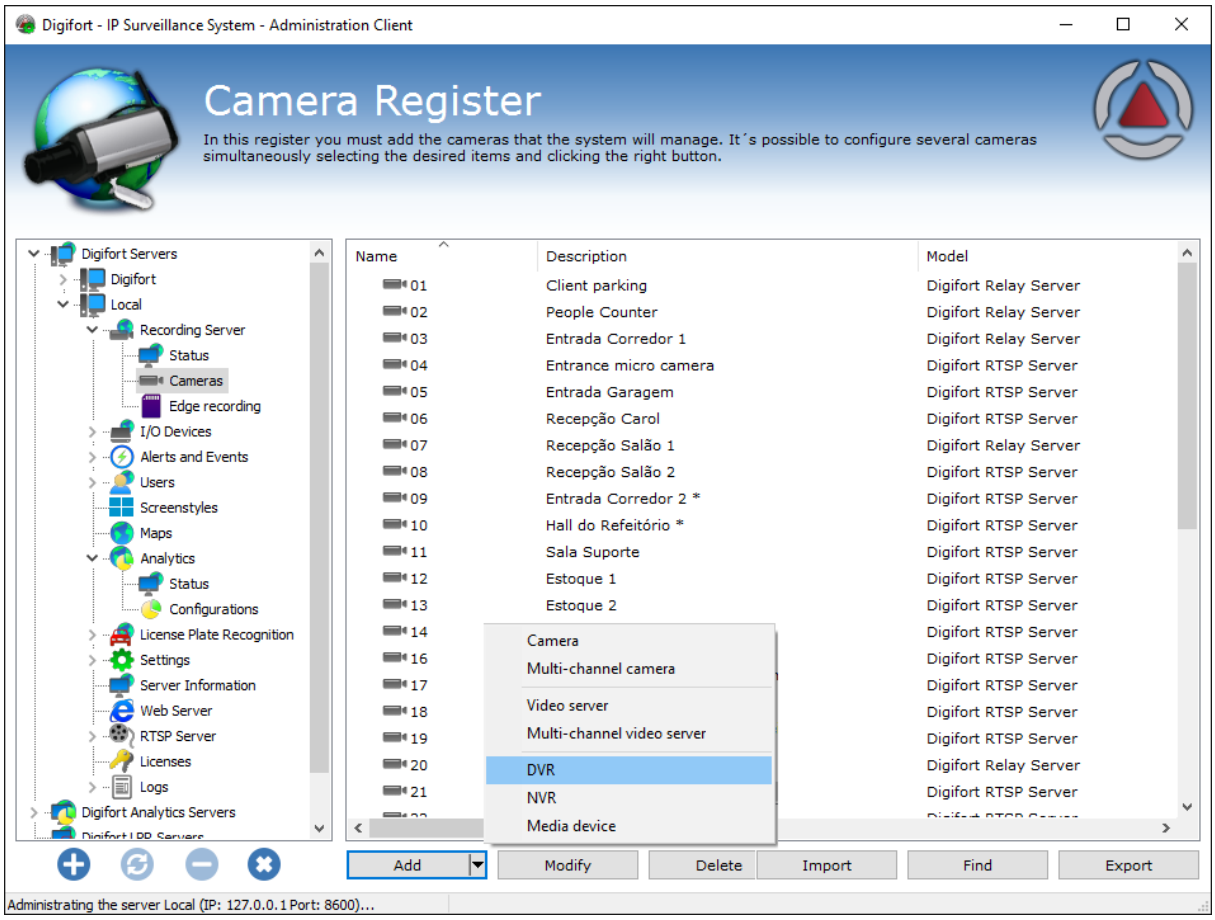


A new option in the button to add new devices now allow the selection of multiple types of devices such as DVR, NVR and multi-channel cameras. When one of these options is selected, the system will filter the device database and will only display the devices matching the desired type in the screen to register the device as a way to ease the selection of device model.

During the registering of a multi-channel device, some tabs will not be available (Tabs that are strict specific to each channel), e a new tab named "Channels" will be displayed to allow the individual naming of each device channel. An auto-naming tool is also provided in this screen, to help naming multiple channels.

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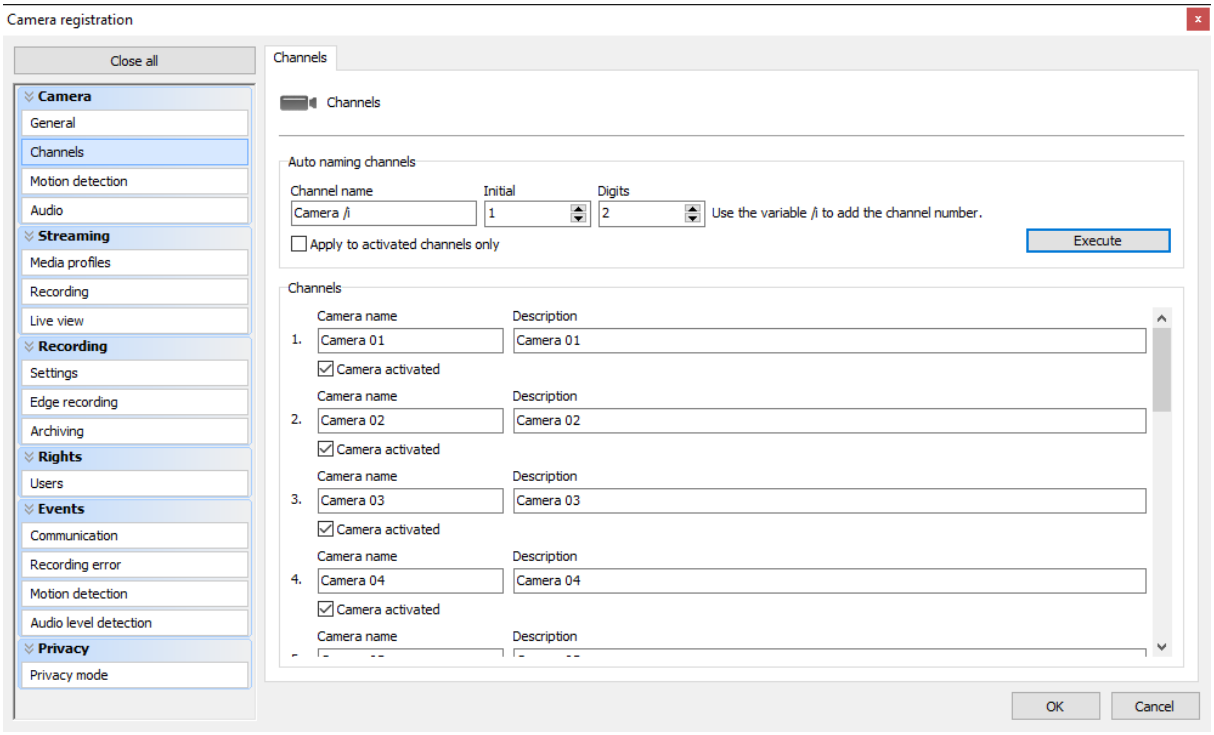


All settings configured during the registration of multiple channels will be applied to all registered channels. Specific settings such as PTZ or I/O will have to be later adjusted to each registered channel.

## 2.1.22 Image preview on camera registration

In the camera registration screen it is now possible to preview the image of a media profile without opening camera registration, by using its context menu:

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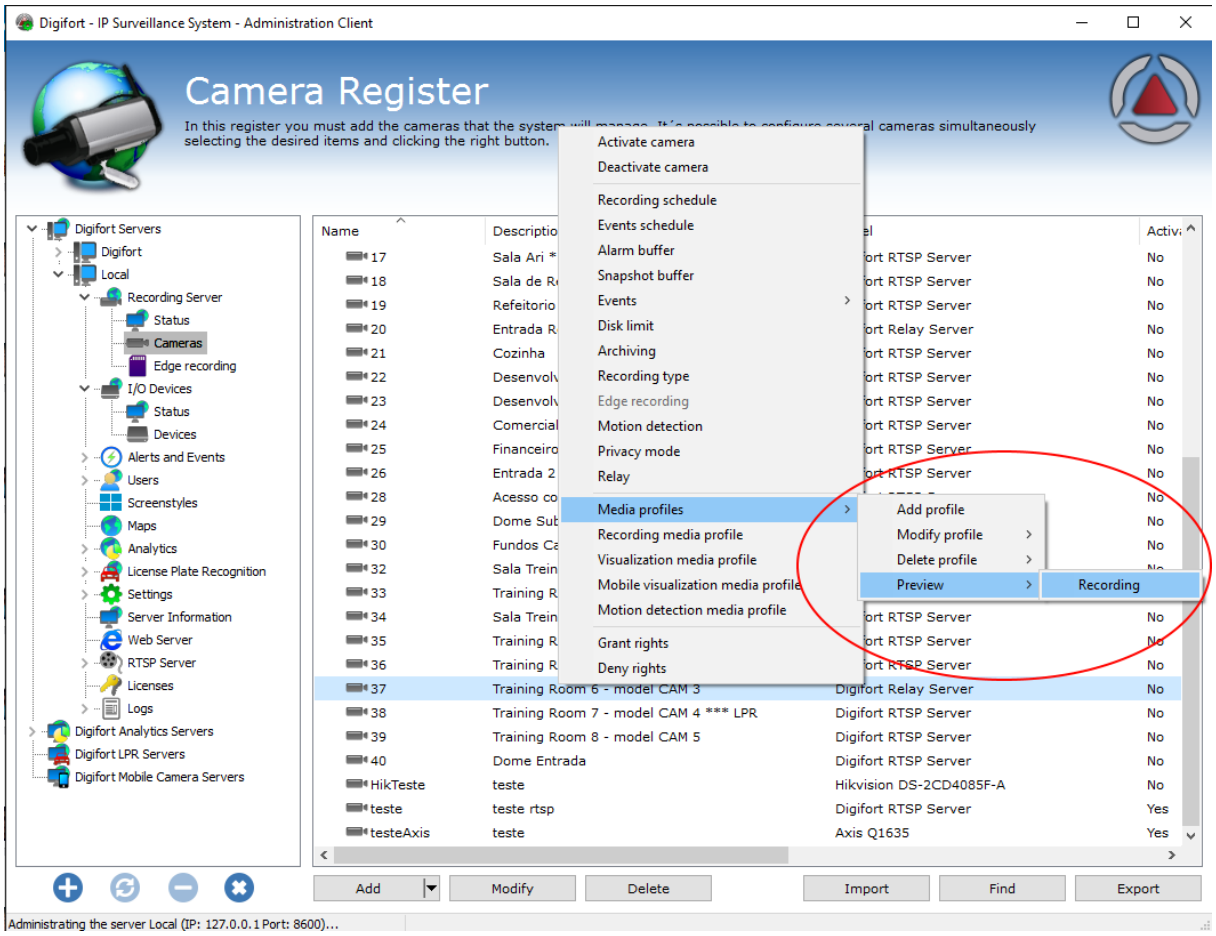


## 2.1.23 Customized positioning of alarm screens

It is now possible to customize how the alarm windows are organized on a monitor in the Surveillance Client, previously the windows were automatically positioned.

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## 2.1.24 Displaying the name of objects on virtual monitor

When sending an object to the Virtual Matrix the system will now display the name of the objects currently being displayed on the selected monitor of the matrix

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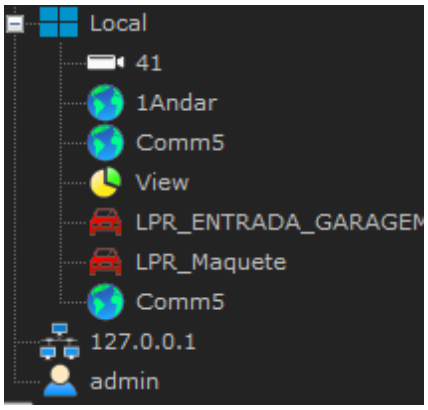
## 2.1.25 Status of objects in the list of virtual matrix monitors

The Virtual Matrix monitor list in the Surveillance Client will now display the list of objects being displayed on the monitor




## 2.1.26 Object selection on media player

Media Player now allows searching by name of objects for playback.

The selection of views will now also follow the configuration of the Surveillance Client to display the views only from the selected layout or all views.

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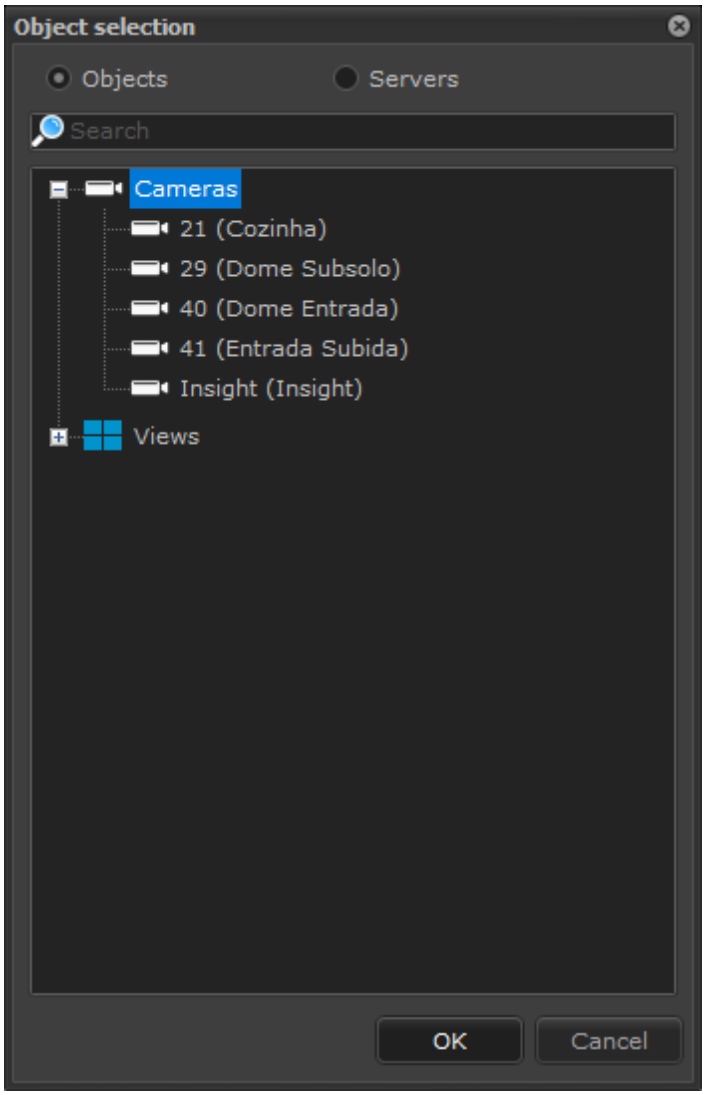
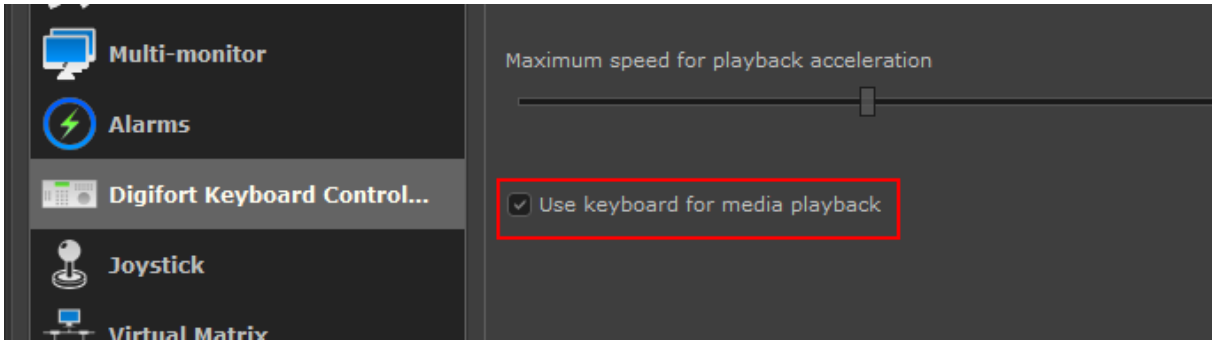



## 2.1.27 Disable the use of keyboard controller for playback

The Surveillance Client now allows you to disable the use of the Digifort keyboard controller for media playback. When the media player is opened the keyboard controller will continue to work for the selected live camera, sending PTZ controls to this camera instead of controlling the media player.

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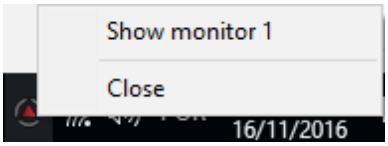
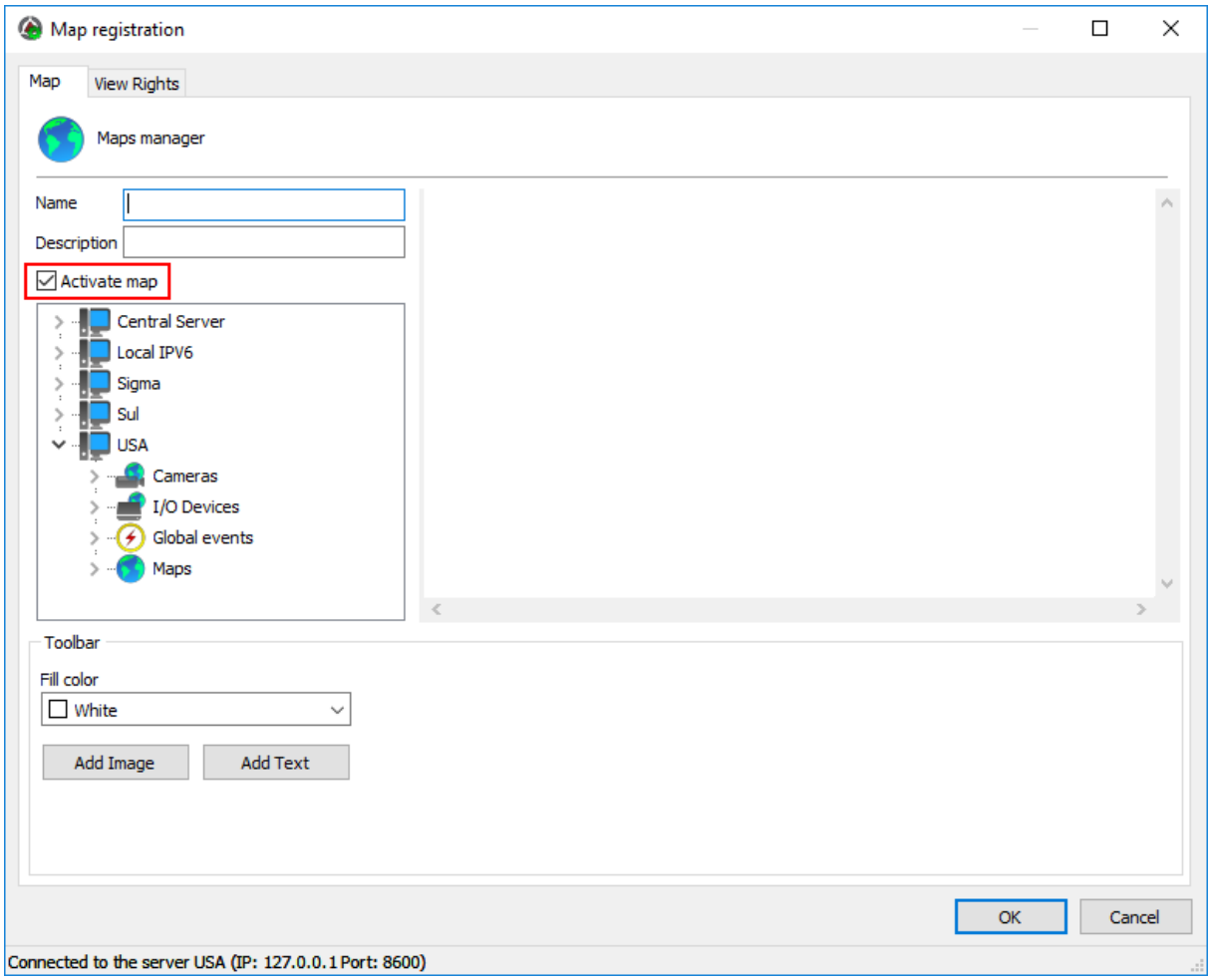
## 2.1.28 Close minimized Surveillance Client

Added option to close Surveillance Client when it is minimized in System Tray




## 2.1.29 Activation or Deactivation of maps

The system now allows deactivating (or activating) maps.




## 2.1.30 Event action to activate objects

The event action to enable / disable objects now allows you to control maps, global events, and scheduled events.

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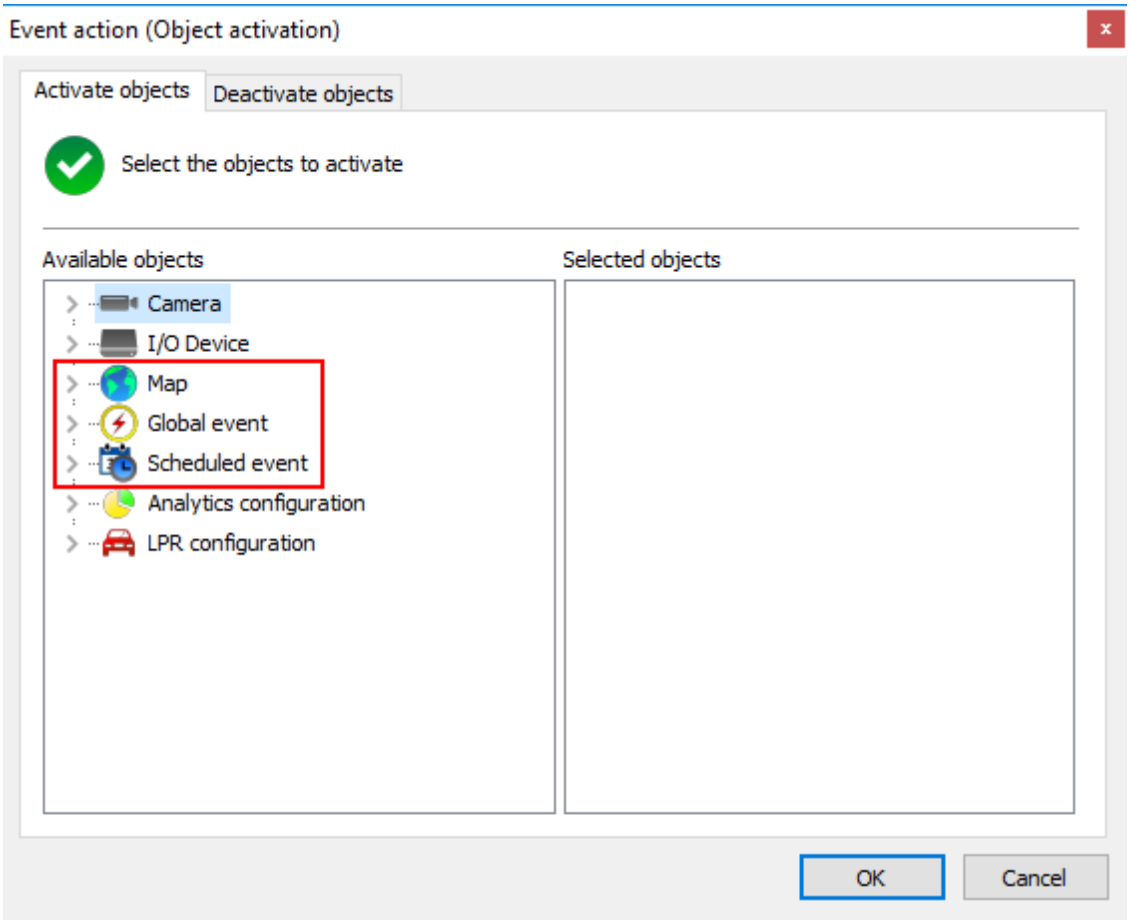
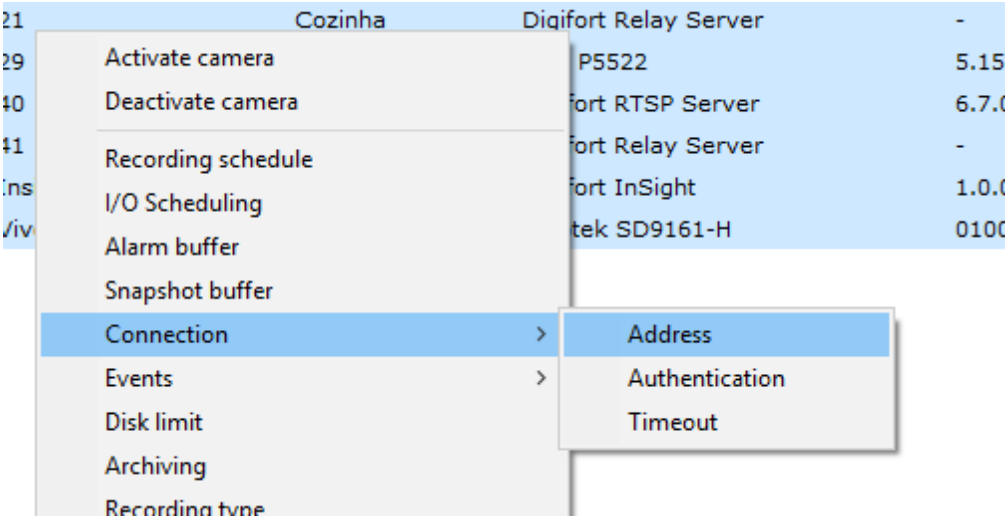



## 2.1.31 Changing connection data for multiple cameras

The Administration Client now allows you to change the connection data (Address, Authentication and Timeout) of multiple cameras simultaneously.

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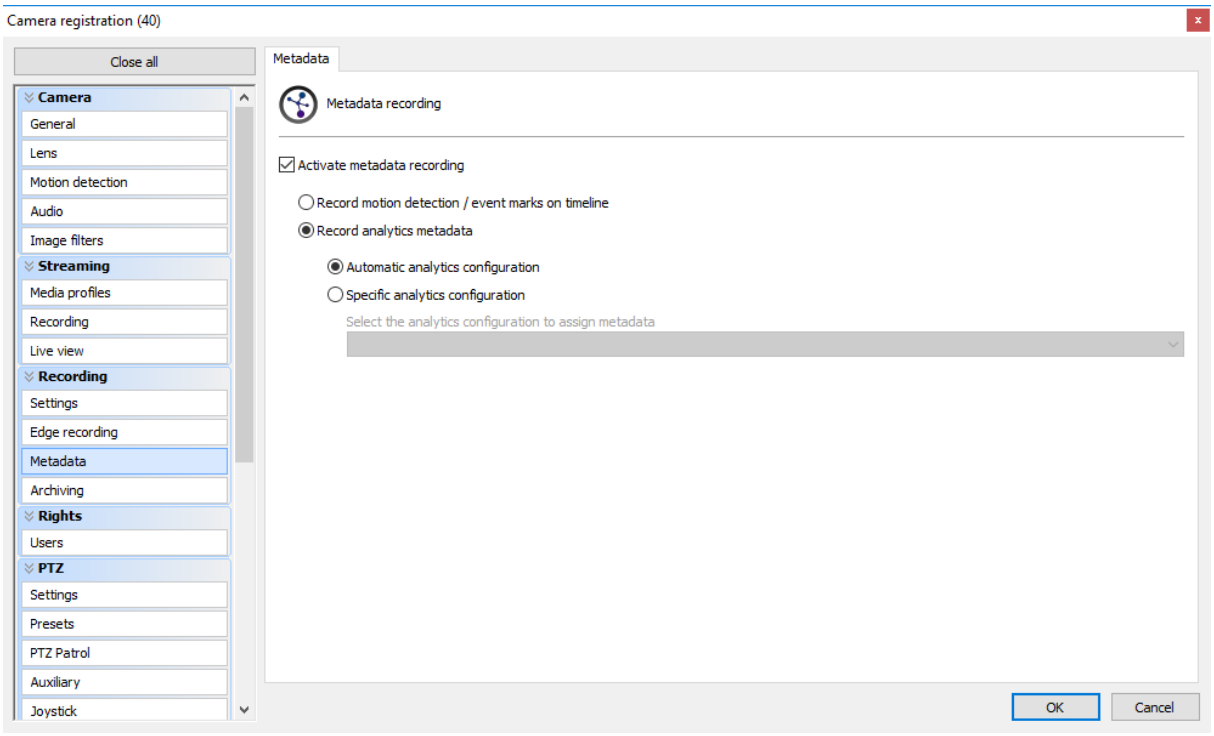
## 2.1.32 Automatic recording of metadata for analytics

The system now allows the recording of automatic analytics metadata, where the system will record the first analytics configuration that is in operation associated with the camera. This enables the recording of analytics metadata for PTZ cameras with different analytics settings in different presets.




## 2.1.33 Add multiple presets to patrol

It is now possible to add multiple presets simultaneously to a PTZ Patrol profile through the Administration Client. Previously the presets should be added individually.

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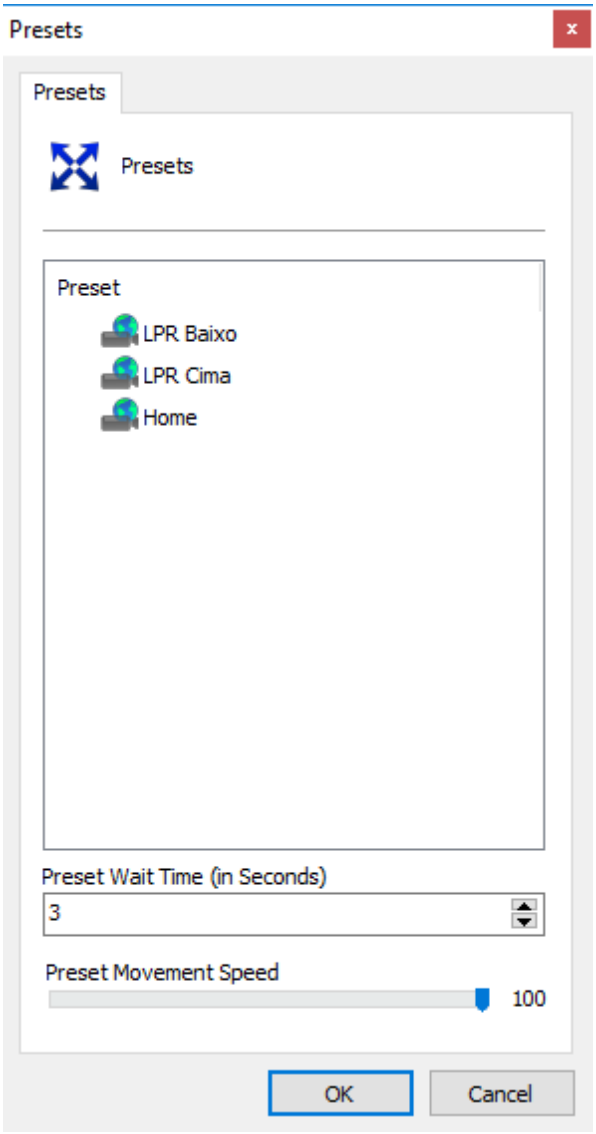


## 2.1.34 Recorded days in system report

The periodic server report will now include the amount of days recorded and estimated recording of each camera system.

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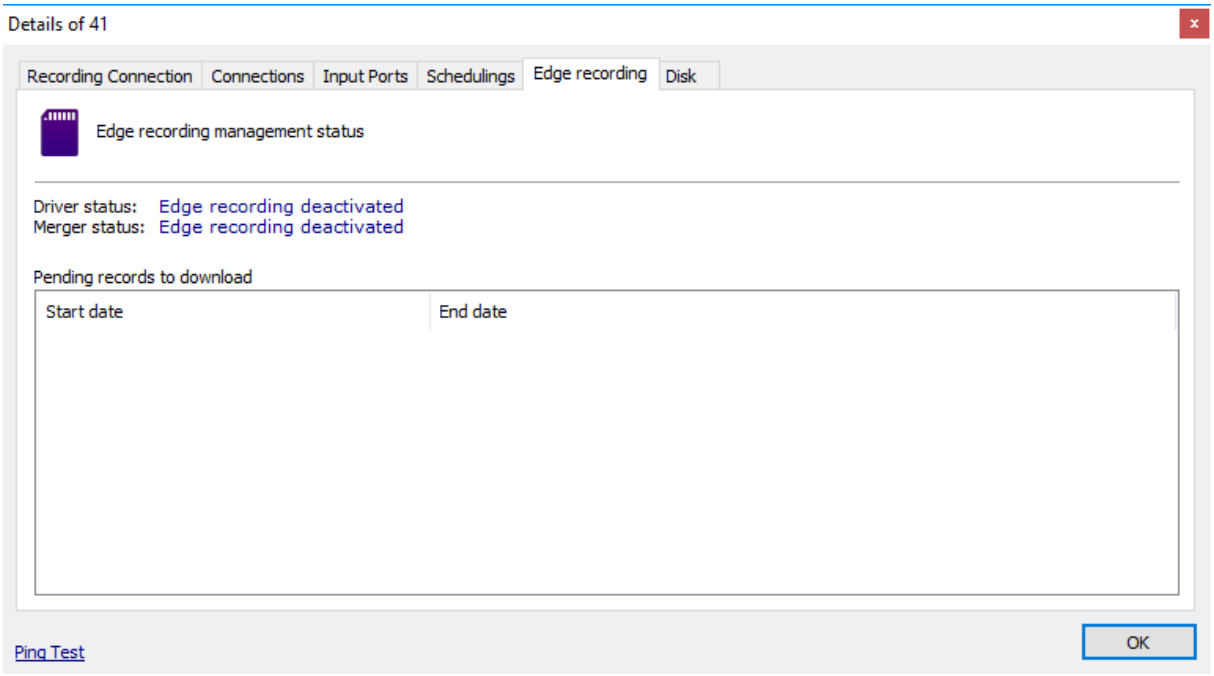
Camera: 40
Description: Dome Entrada
Active Time: 0 Hour(s), 2 Minute(s) and 34 Second(s)
Recorded video frames: 4356
Recorded audio frames: 0
Limit: 132,874 MB
Recorded days: 10 Day(s) and 21.1 Hour(s)
Recording estimative: 359 Day(s) and 22.8 Hour(s)
Bytes written: 1,862,729 Bytes - 1 MB
Used disk space: 4,211,228,635 Bytes - 4,016 MB

Camera: 41
Description: Entrada Subida
Active Time: 0 Hour(s), 2 Minute(s) and 34 Second(s)
Recorded video frames: 1073
Recorded audio frames: 0
Limit: 49,247 MB
Recorded days: 10 Day(s) and 21.1 Hour(s)
Recording estimative: 360 Day(s) and 1.4 Hour(s)
Bytes written: 1,810,648 Bytes - 1 MB
Used disk space: 1,560,851,905 Bytes - 1,488 MB

### 2.1.35 Remove multiple edge recording jobs from a camera

It is now possible to remove multiple edge recording jobs simultaneously through the Administration Client.




### 2.1.36 License expiration field

Added a field for viewing the license expiration in the license manager of the administration client.

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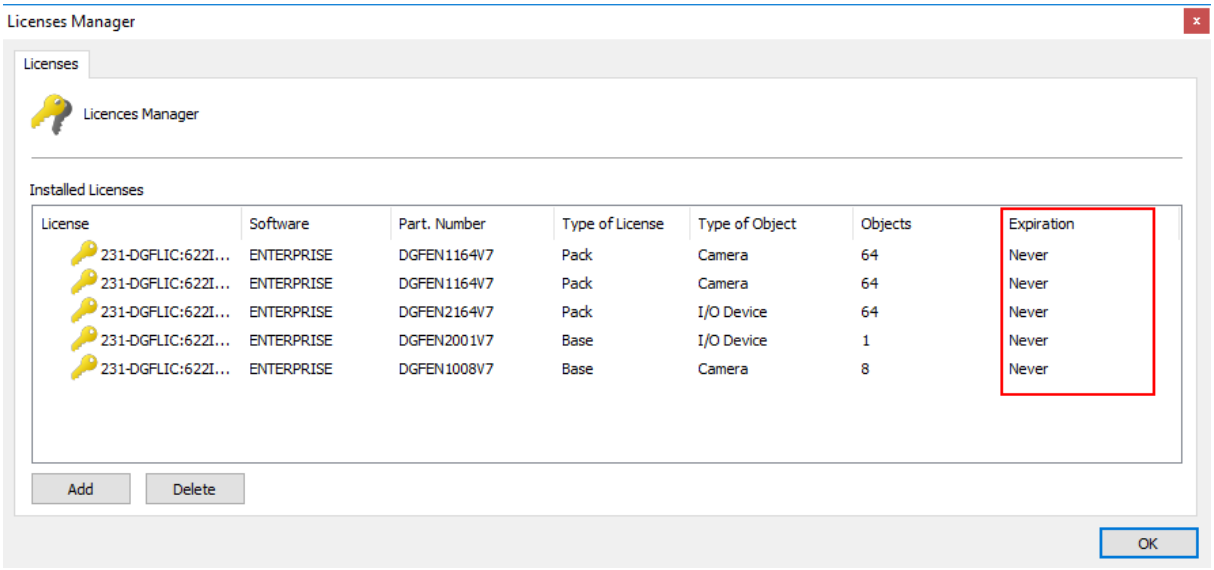


## 2.1.37 New LPR engine

A new LPR engine (Neural Labs) was added to the system. This is an alternative to the Carmen engine and has excellent performance and quality recognition.

## 2.1.38 New Surveillance Client restrictions

Added two (2) new restrictions for Surveillance Client usage per user or group of users:

**Hide system operating controls:** This option will cause the Surveillance Client to operate in "full screen" mode, ie the camera view matrix will be expanded and the user will not have access to any operation control, getting restricted to the camera preview screen.

**Disable context menus:** This option will disable the use of menus accessible via the right mouse button, further blocking the operator access to the system.

Together, these two options can be used to completely block the operator access to any operation except viewing live cameras.

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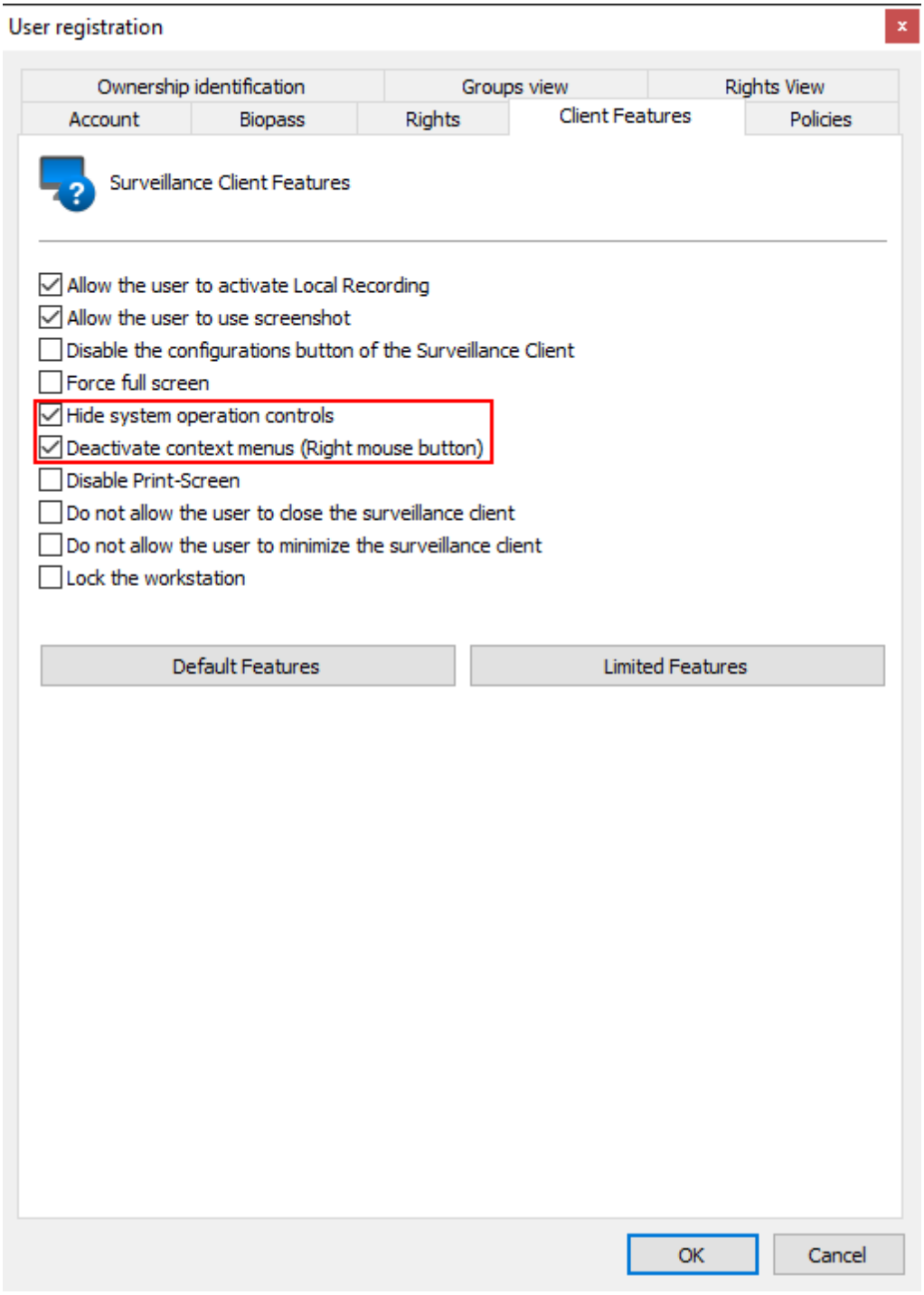


## 2.1.39 Event to cancel a timer

The timer event is now more flexible and can be canceled by another event before its trigger occurs, allowing such operations as "door open too long" to trigger an alarm if a door has been left open

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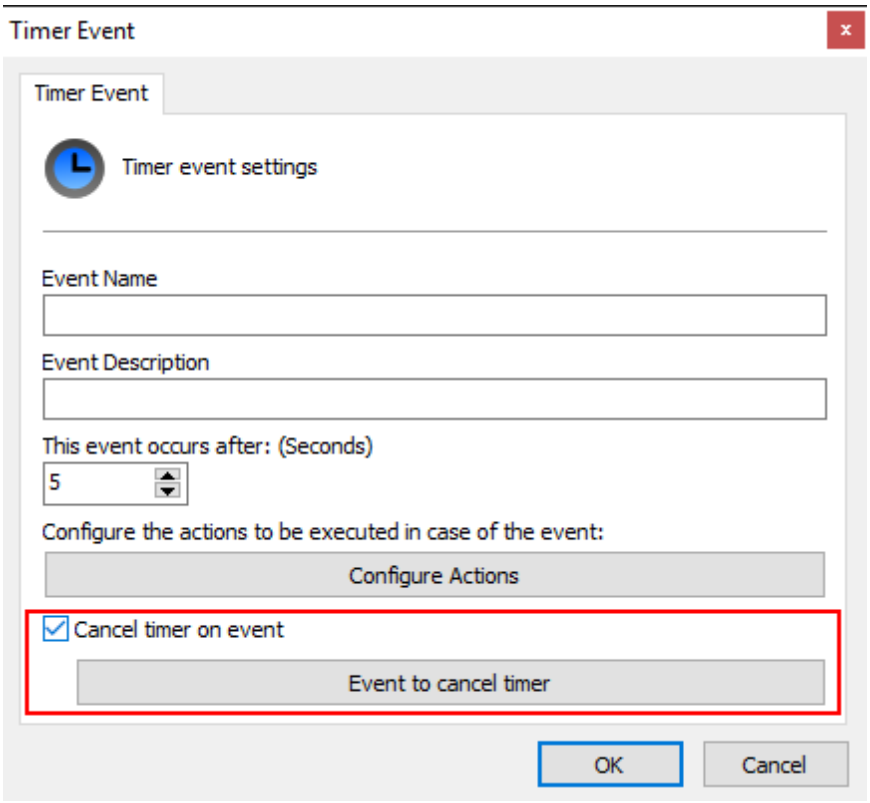


## 2.1.40 Surveillance Client operation buffer

Some operations on the Surveillance Client will generate a temporary buffer on the computer to speed up its performance.

Video playback for example will temporarily write to disk all the images received for quick access if the operator wishes to re-watch portions already downloaded, with this the client will not need to download the image again, saving server and network resources. After playback is complete, these temporary files will be deleted.

Downloaded maps are saved so it will not downloaded again in the future, saving time and bandwidth during the connection process with the server.

This feature was already available in the system in previous versions, but the buffer was written in the installation folder of Surveillance Client that by default is the Program Files and the system can not write to a subfolder unless running in Administrator Mode, rendering the feature useless. To improve this behavior the buffer will now be recorded to a temporary subfolder %TEMP%\Digifort allowing proper use by the system and improving its performance.

## 2.1.41 New licenses summary screen

A new licenses summary screen was developed to improve the visualization of available and used licenses per object type:

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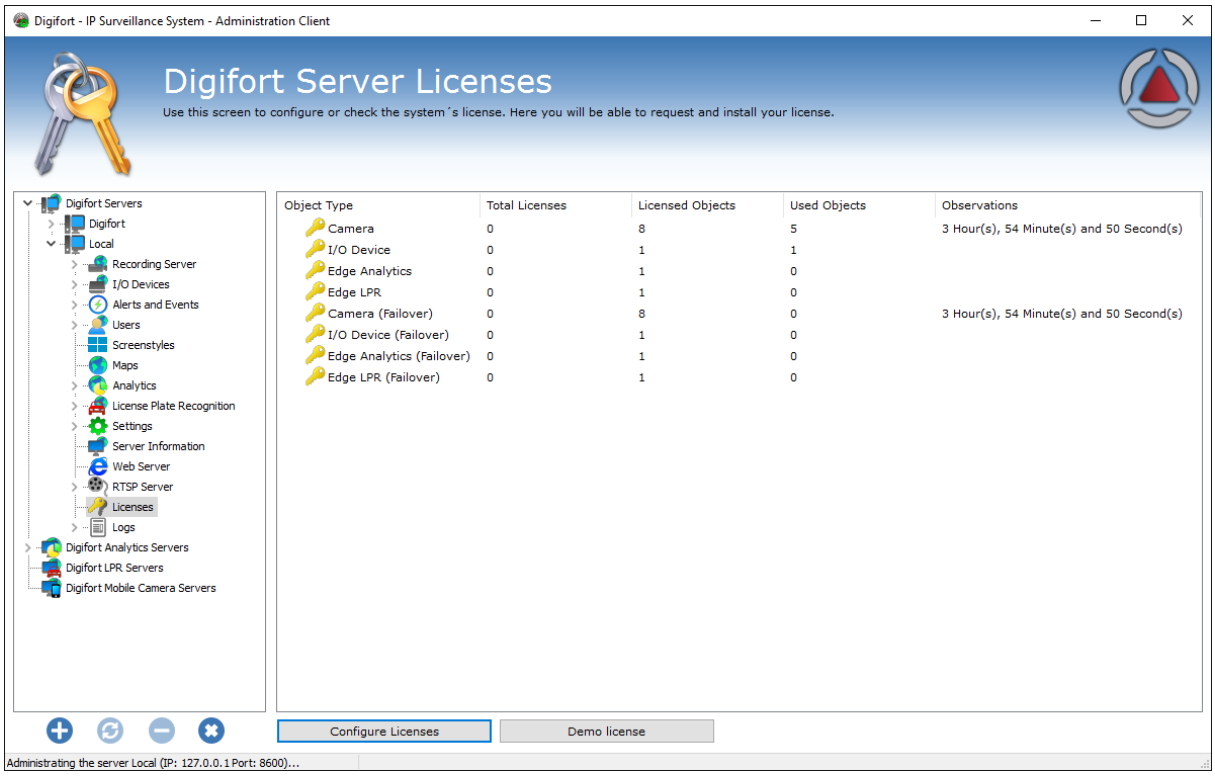


## 2.1.42 Verification of offline devices

For cameras configured to not record or record upon events, the system was not able to check if it was working or not due to the fact that no connection was established to the device. A new verification routine was added for this specific scenario. In this new method, the system will check if the camera is working in an interval of 1 to 3 minutes, if the camera does not reply to the request, the system will consider that it is not working.

## 2.1.43 Audio recording on motion detection

The behavior of audio recording when camera is configured to record by motion detection was changed. Previously the system would record the audio track continuously, regardless of motion being detected or not, now the system will record audio only when motion is detected, keeping both audio and video tracks synchronized.

## 2.1.44 Pre-registered PTZ auxiliary

Some PTZ cameras provides auxiliary commands to access some specific functions. For this cameras the system will now provide a pre-registered list of auxiliary commands that are natively supported by the driver.

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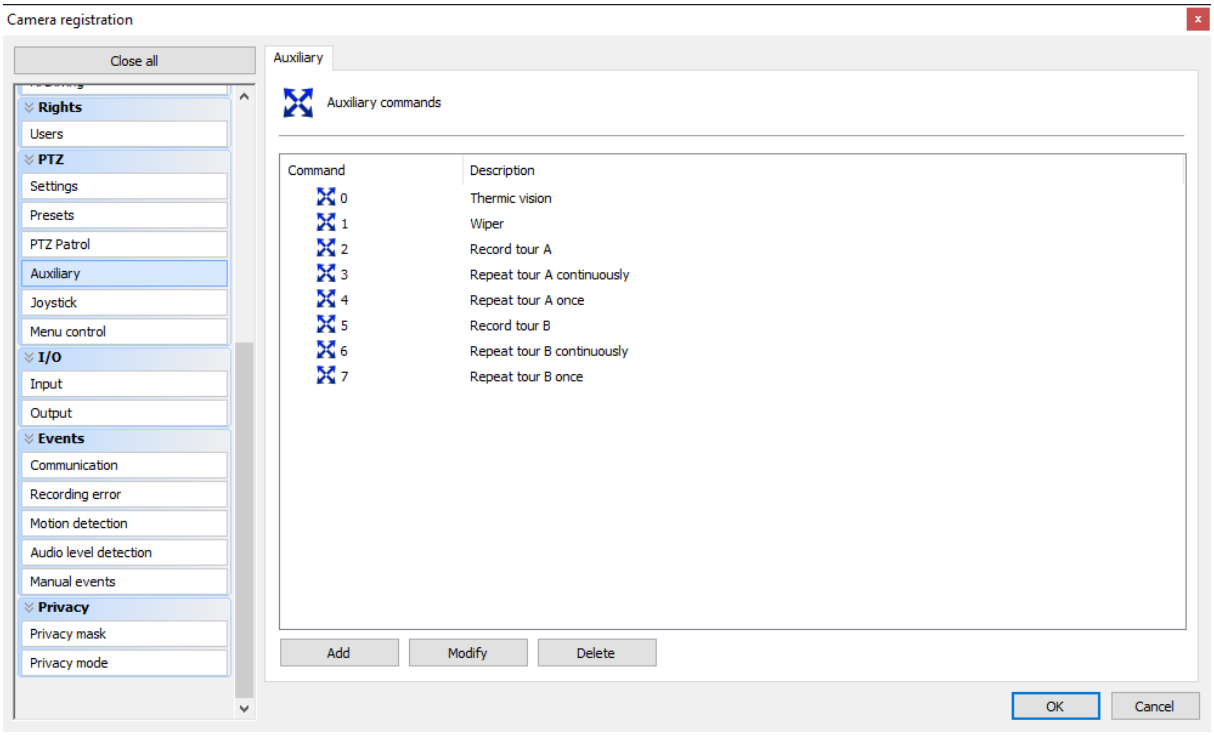


## 2.1.45 Improvements to RTSP Server

- A new internal media buffer was implemented in the RTSP Server to improve the transmission of media in connections slower than the original camera bitrate
- Transmission of MJPEG over RTSP now uses less server memory

## 2.1.46 Improvements to recording and timeline reading

The reading of media recordings and timeline during a media playback was extremely optimized. A new data caching system was implemented which prevents multiple accesses to the disk, drastically increasing the recording reading performance, timeline loading time and significantly decreasing the workload of the storage HDs during the process of media playback.

During the tests of the new implementation, in a media playback of 16 cameras recording at 30 FPS with audio, the system would require about 2400 I/Os per second for data reading, now this value was reduced to 32 I/Os at each 20 to 30 seconds depending on the size of recorded data.

The playback process will no longer affect the performance of recordings (When using low-performance storage).

## 2.1.47 Better audio control in playback

As the control for live audio, now the audio control of media player also provides the option for "Auto-select"

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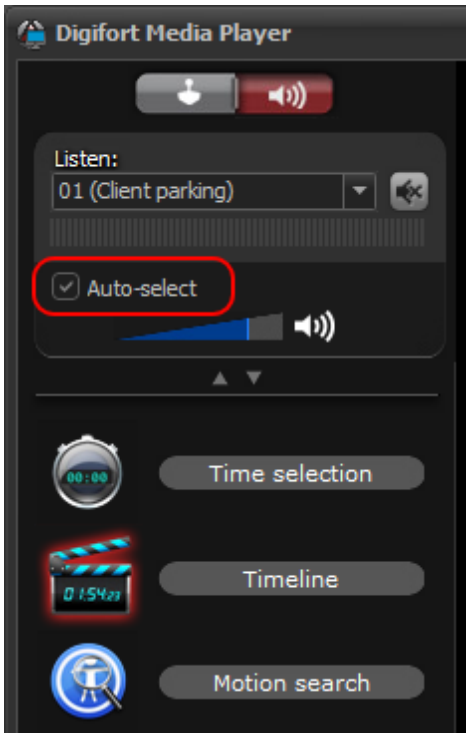


## 2.1.48 Playback time in audit records

The record for media playback in system audit will now inform the initial and final date/time of the media session. With this information it is now possible to identify exactly the period of time of which an operator visualized the recordings.

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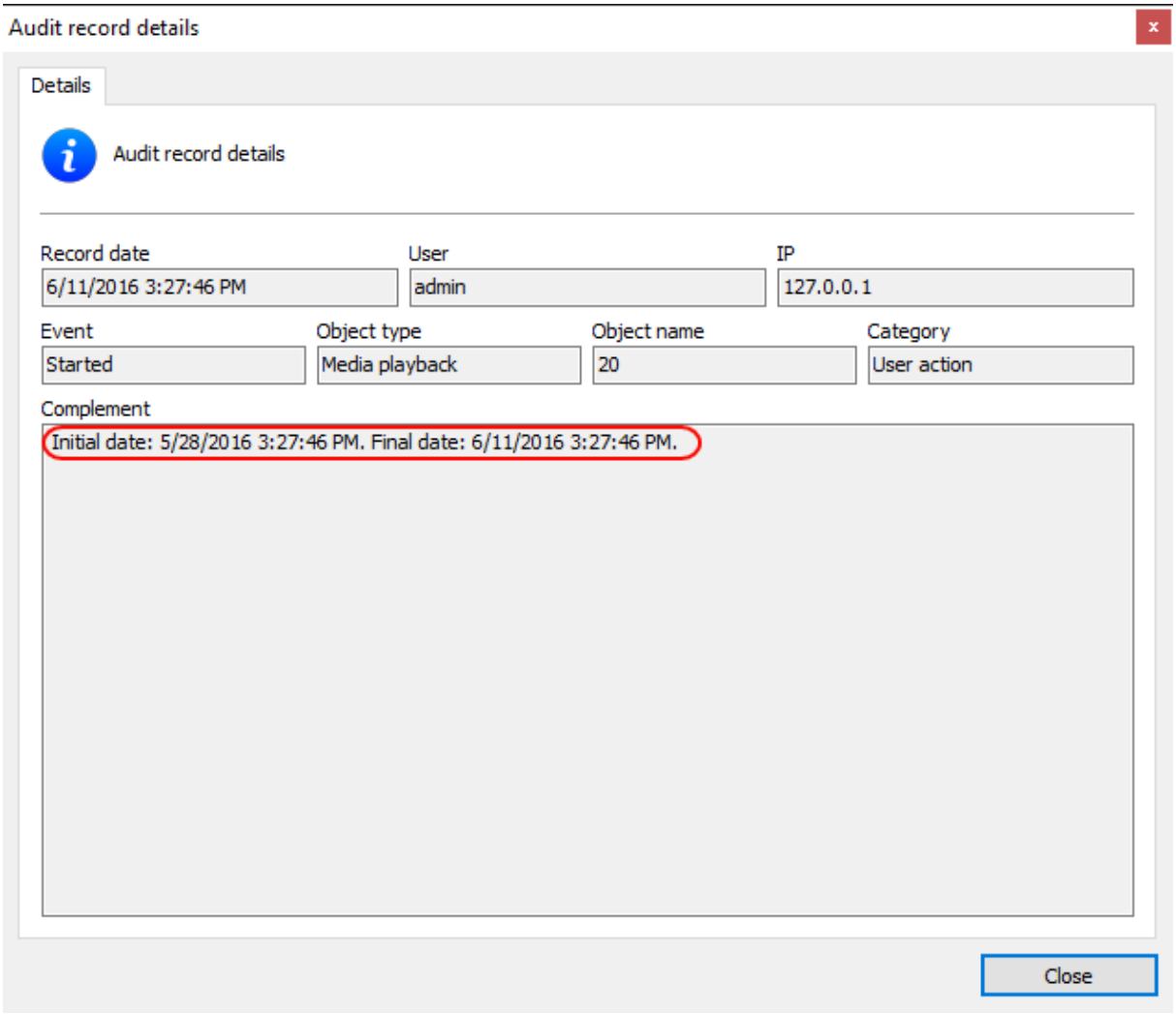


## 2.1.49 Better management of server connections in Surveillance Client

The management of Digifort server connections in Surveillance client was improved.

Previously, when a connection to the server was lost, the objects from this server was removed from Surveillance Client and a screen refresh was performance, causing a "flicker" to the user. This effect could be more evident in installations where the Surveillance Client would have to connect to multiple remote servers with bad internet connection.

Now, in case of communication failure, the system by default will no longer remove the objects of this server from the screen and will no longer refresh. When the connection is re-established, the objects on screen will be updated (only the objects of the affected server) and this will provide a much better experience to the operator.

## 2.1.50 Failover operation option

A new option to activate the operation with Failover servers was added to Surveillance Client. Activate this option in case Surveillance Client has to connect to a Failover server. This option will reactivate the old system behavior in case of communication failure to the server (usually due to server failure), the system will remove the objects of this server from the client so it can load the correlated objects from

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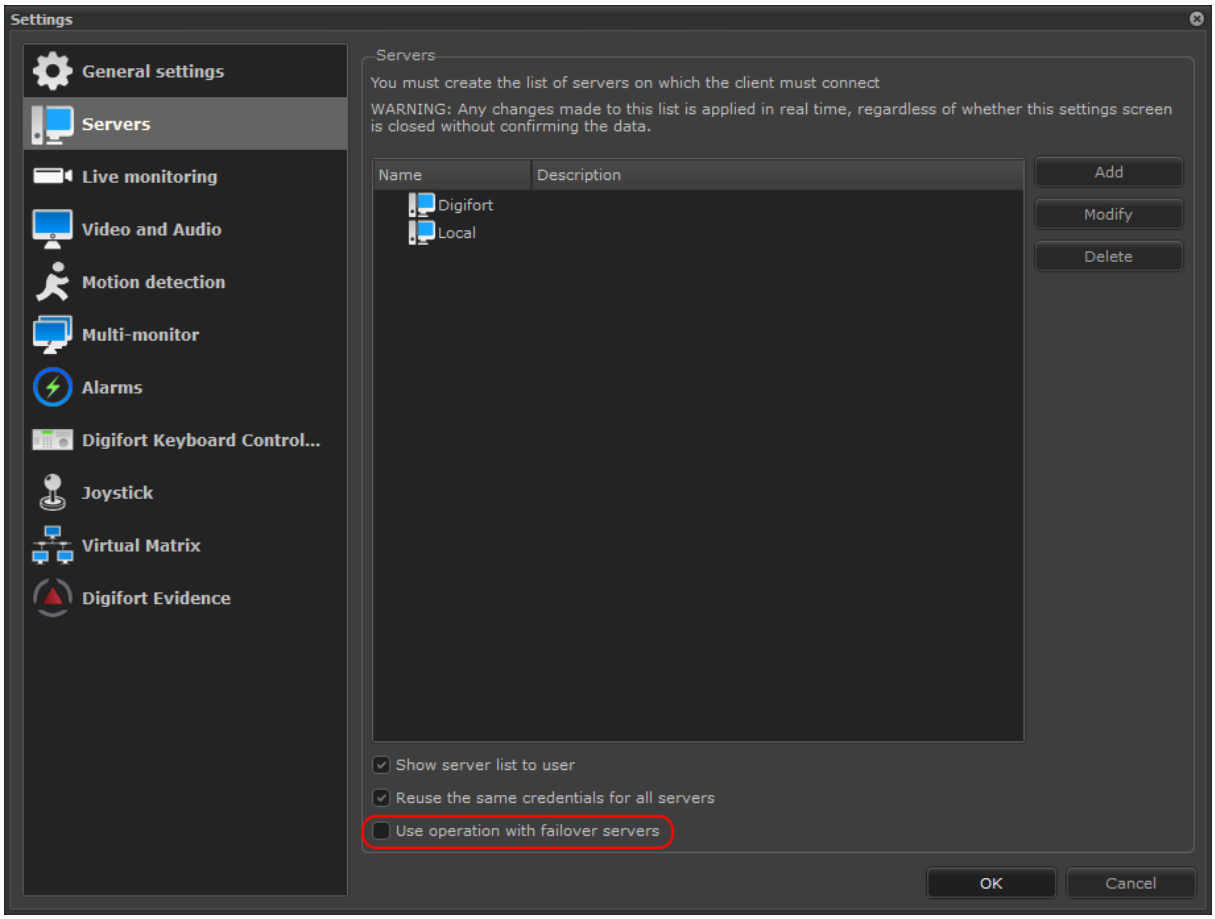
Failover server, assuring a smooth transition to the new server in case of system failure.




## 2.1.51 Send multiple objects to Virtual Matrix

This new option of Virtual Matrix allows sending all objects on the screen along with its configurations (Current media profile, zoom position, 360 lens position, image filter and motion detection).

This option is available only for current objects on screen. Upon clicking with the right button of the mouse on any object (or on an empty screen) the option to "Show all objects at" will be provided. The view should **not** be saved for this option to be used.

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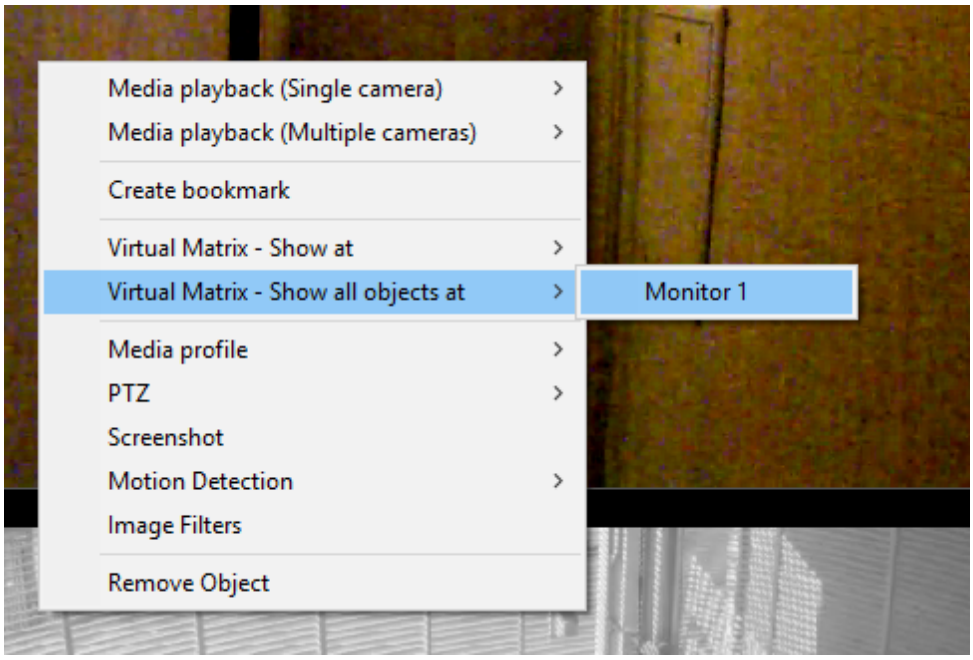
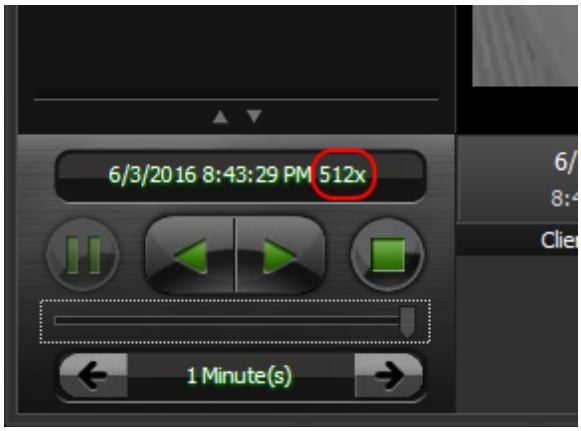



## 2.1.52 Media exporting with camera description

Upon exporting videos in native format, now the camera description will also be included (not only its name).

## 2.1.53 Improved accelerated playback

The accelerated media playback was greatly improved to allow a higher refresh rate of images. Previously the system would only show 2 frames per second in an accelerated playback. The playback experience should be much better for the user now.




## 2.1.54 Recording error rearm time

To prevent the system to trigger multiple recording error events (In case of recording errors), the system was configured to trigger only 1 alert event per hour in case the error persists.

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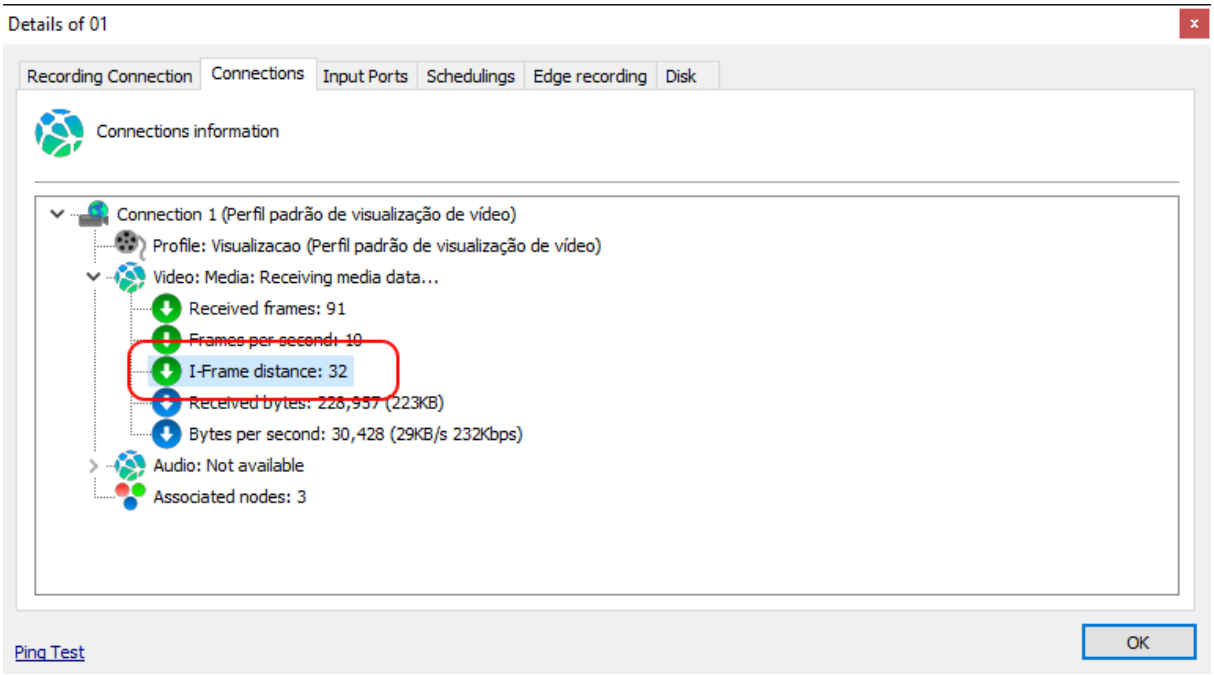
## 2.1.55 I-Frame distance information

The system will now inform the distance of I-Frames in H.264 and MPEG-4 videos. This information is extremely relevant because it directly affects the behavior of the cameras, as for example the delay time for an image to start displaying in the Surveillance Client.

This information will be available in Administration Client, under stream status:




It will also be available in Surveillance Client, on all camera images:

## 2.1.56 Master / Slave Admin password

In the Master / Slave architecture, the password of admin user must be configured in all slave servers so they can properly connect to master server. Now upon modification of admin password in master server, it will be automatically changed in the settings of all slave servers, so no communication error will happen.

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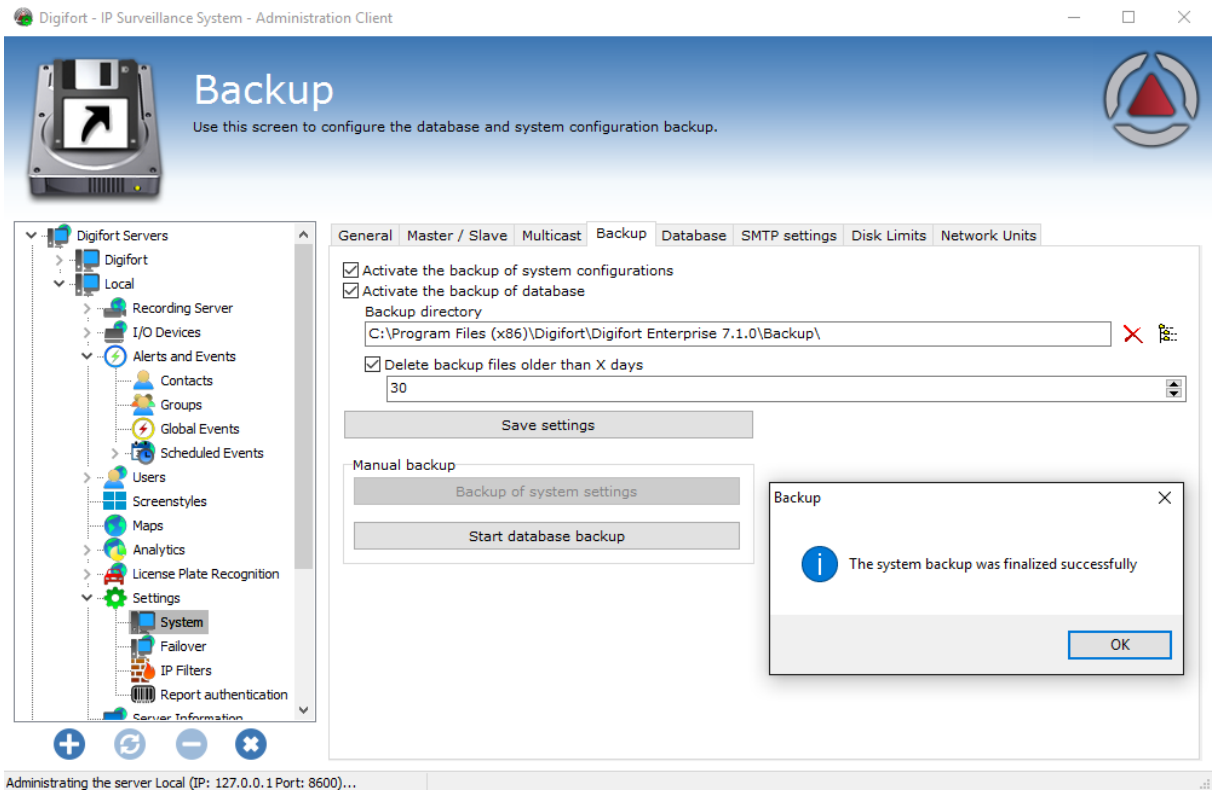
## 2.1.57 Backup finished message

The system will now show a message when the backup of system settings is finalized. Previously a message was displayed at the beginning of the process.




## 2.1.58 Organized disk charts

The disk usage charges are now sorted alphabetically.

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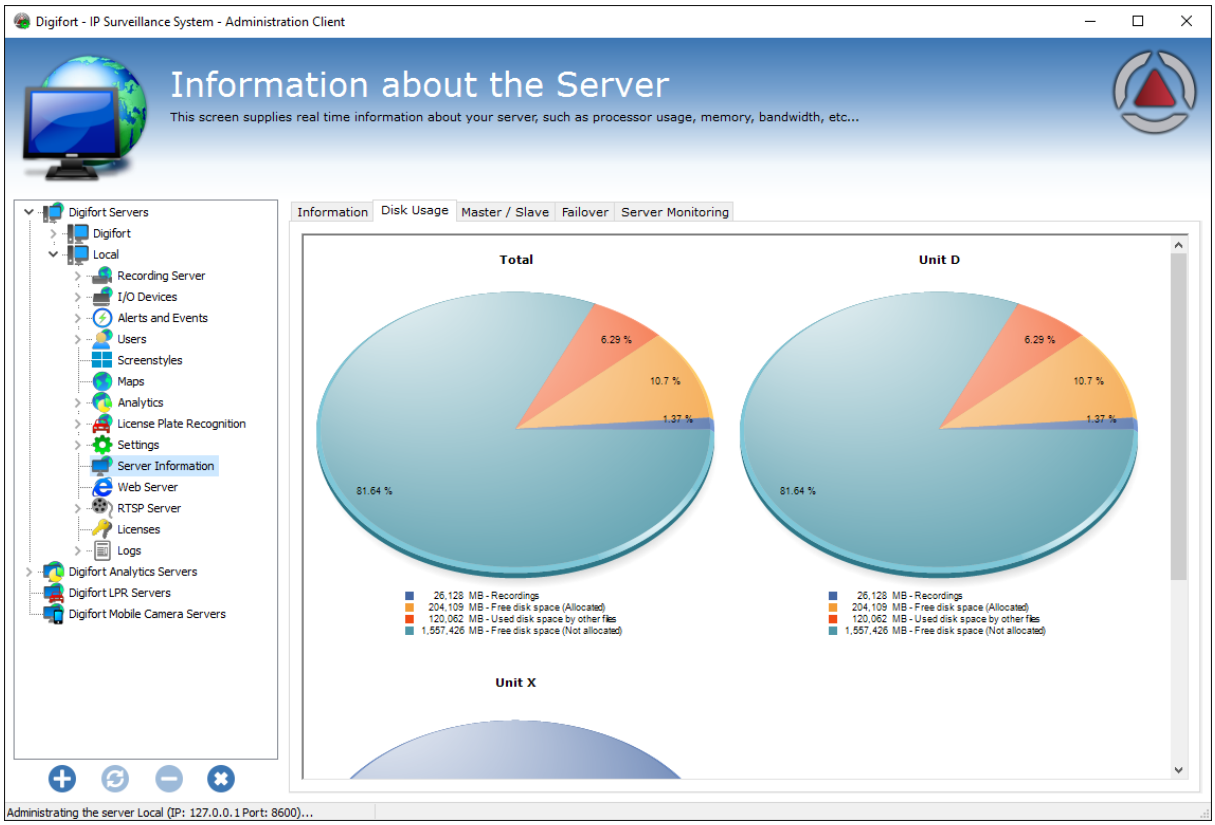


## 2.1.59 Better management of media profiles

The Administration Client now allows for a better management to add, modify or delete media profiles from multiple selected cameras simultaneously.

Previously it was only possible to modify or delete media profiles that were common to all selected cameras. Example: Camera 01 had profiles "Recoridng" and "Visualization" and Camera 02 has profiles "Recording" and "Internet", in this case, only the media profile "Recording" could be changed simultaneously for both cameras.

With the new improvements, any profile can be changes, new profiles can be added, and any profile can be deleted.

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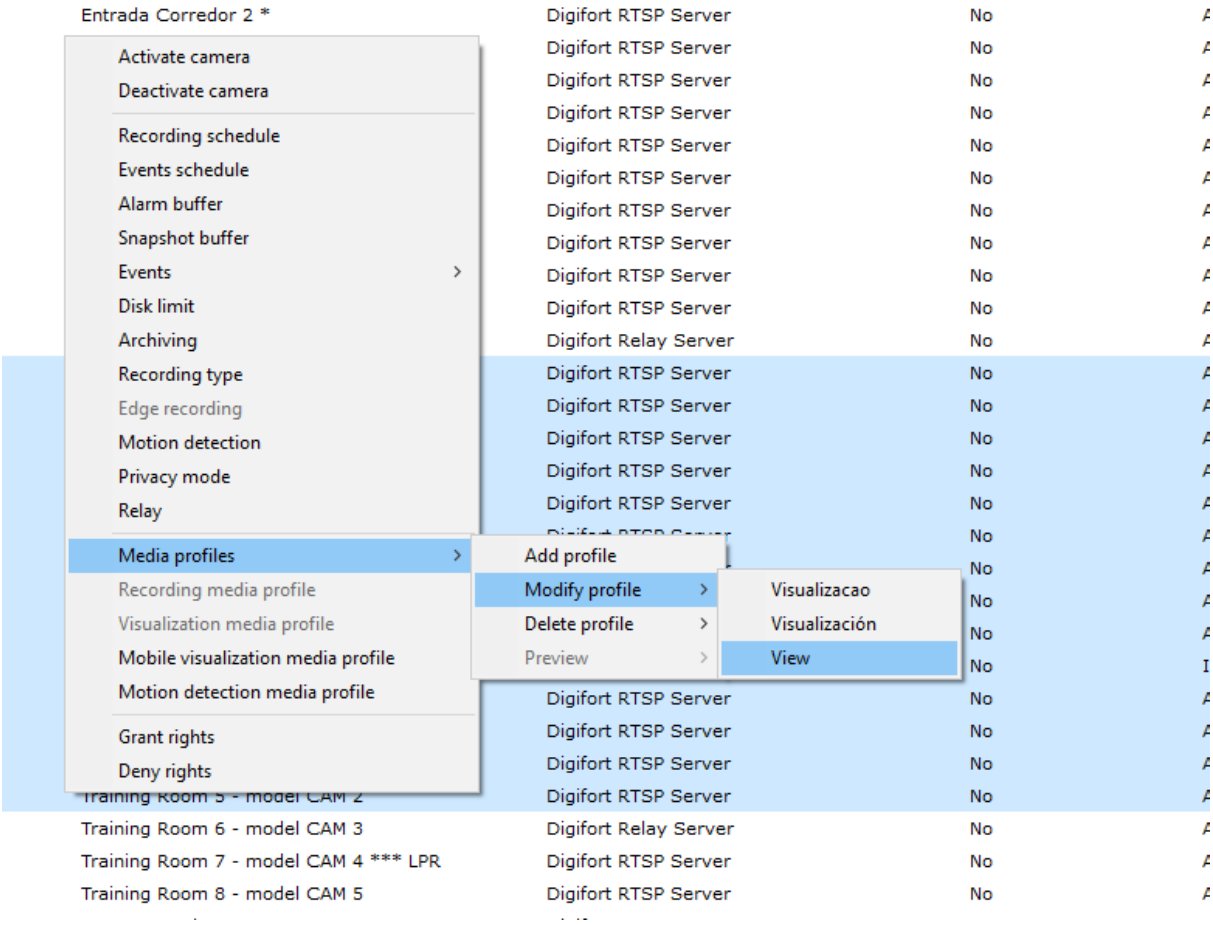


When a new profile is added, if it already exist in any selected camera, a warning message will be displayed and old profiles will be replaced by the new one.

When a profile is modified or deleted, only cameras containing those profiles will be modified, the rest of the selected cameras will remain unchanged.

## 2.1.60 Possibility to delete multiple objects

The Administration Client now allows deleting multiple selected objects simultaneously from any list of objects in the system such as cameras, users, I/O devices, maps and others.

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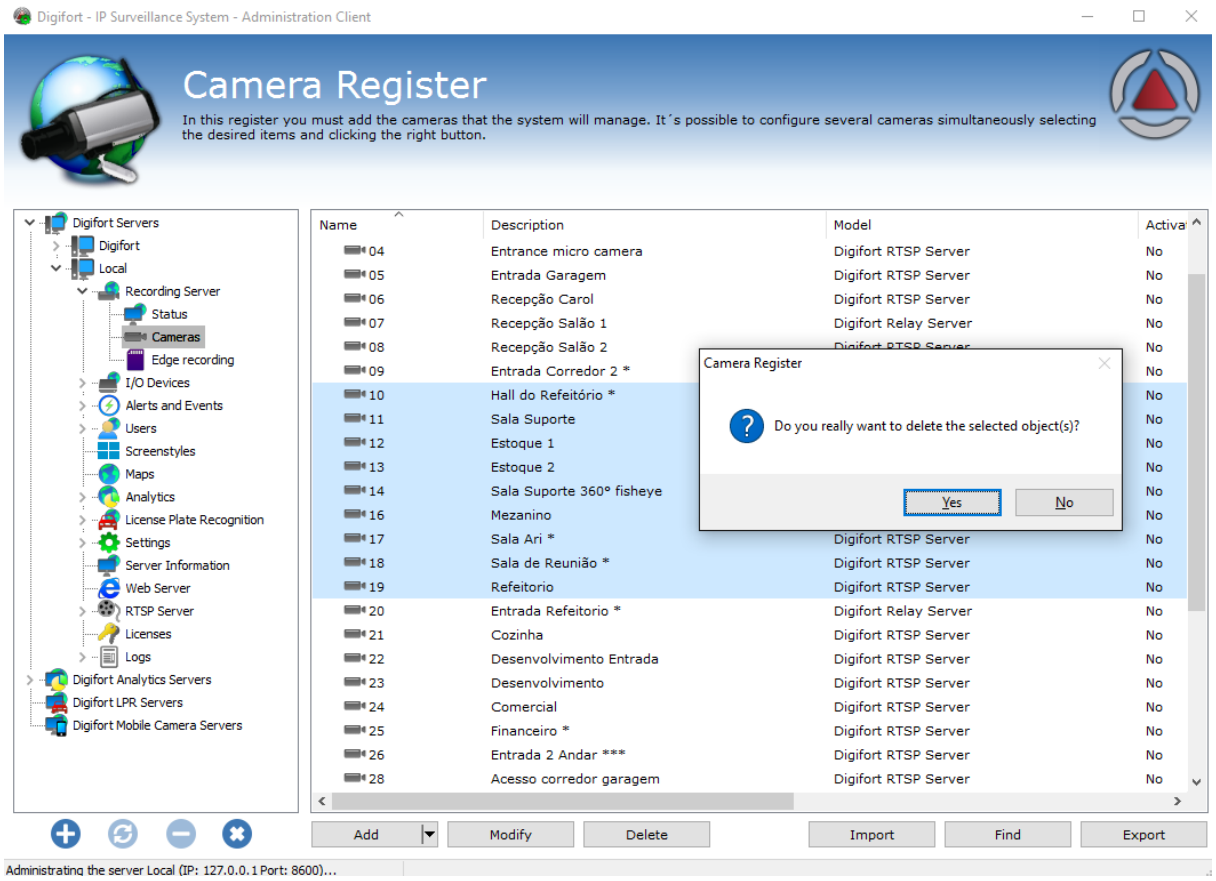
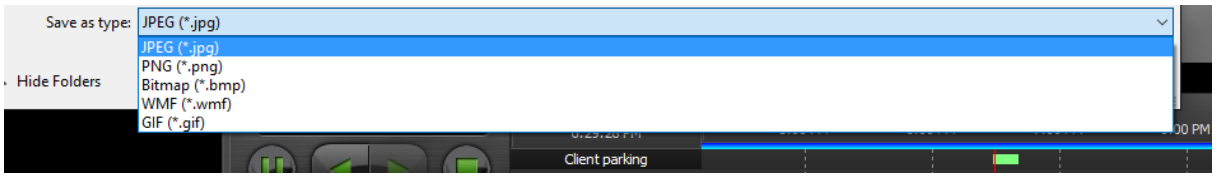



## 2.1.61 New snapshot formats

The Surveillance Client now supports additional formats to save snapshots: JPEG, PNG, Bitmap, WMF e GIF.




## 2.1.62 Ping test for I/O devices

The Administration Client now allows the execution of a ping test with I/O devices from registration and status screen.

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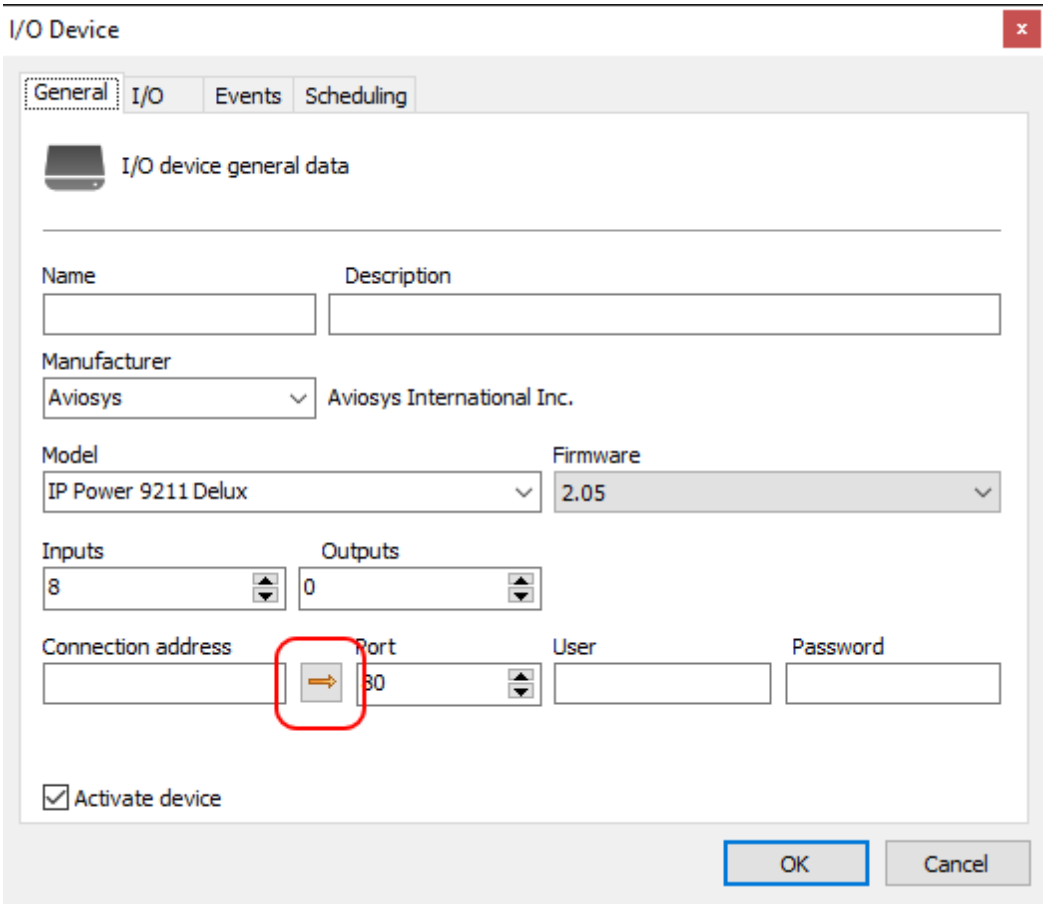


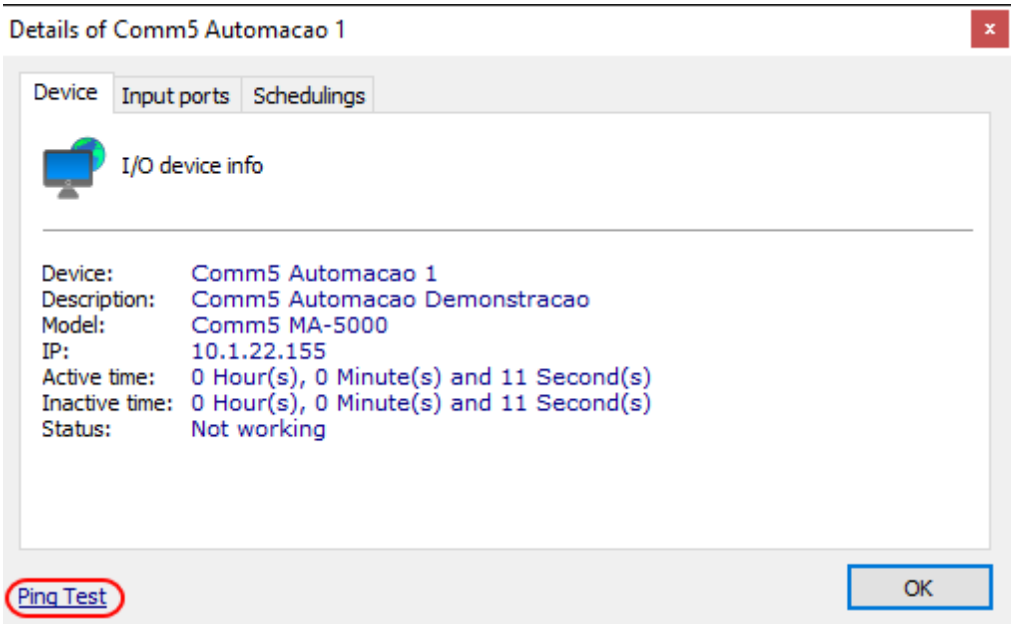


## 2.1.63 Open field to type device model name

The Administration Client now provides an open field for "Manufacturer" and "Device model". This will ease the registration of new devices allowing the user to type only part of the model name which will

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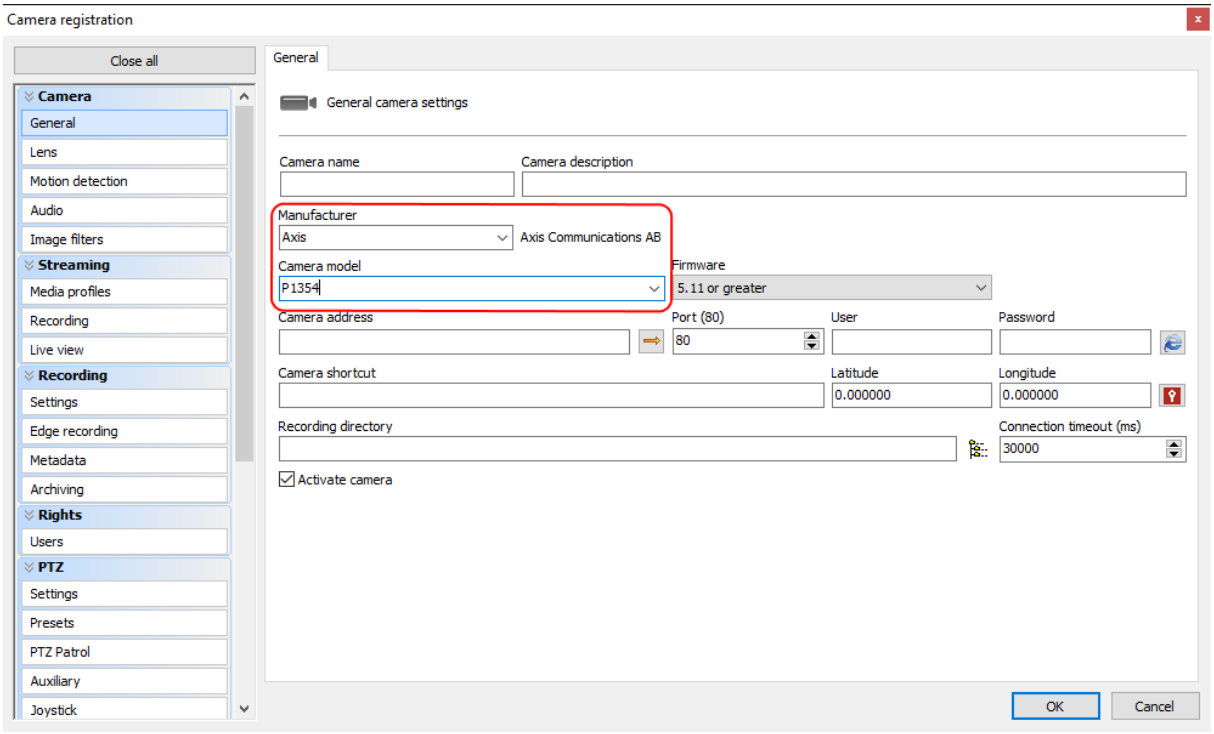
cause a look-up and system will auto-complete the field with the matching closest device name. Additionally the manufacturer name was removed as prefix from the "Model" field to allow the typing of model device.

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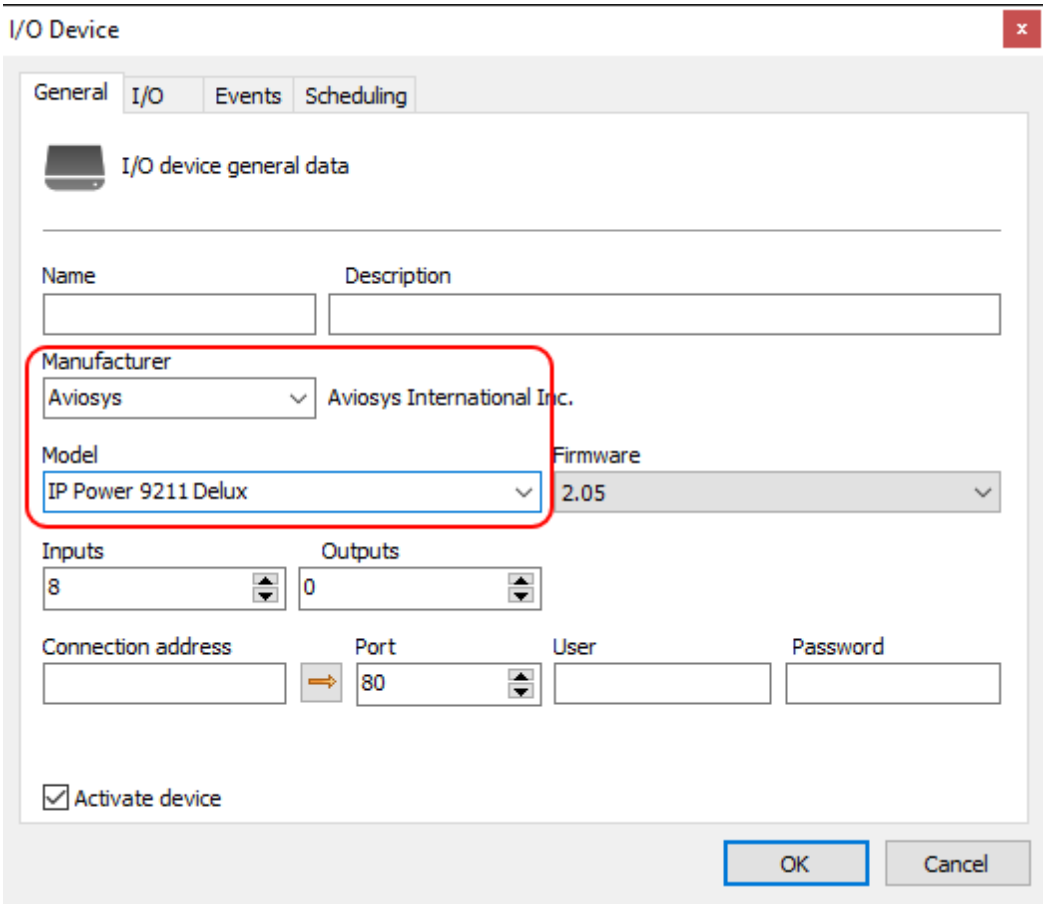


## 2.1.64 Edge recording download control

The system will now only start downloading edge recorded videos that are at least 10 minutes old. For example, if the server clock is 14:00 and a video from 13:30 to 14:00 should be downloaded from the camera, the system will only start its download at 14:10. This "delay" was introduced due to the fact that some cameras need extra time to "finalize" its current recordings.

## 2.1.65 Searching for devices with IP Range

The tool to search for network devices now allows the results to be filtered to a given range of IPs.

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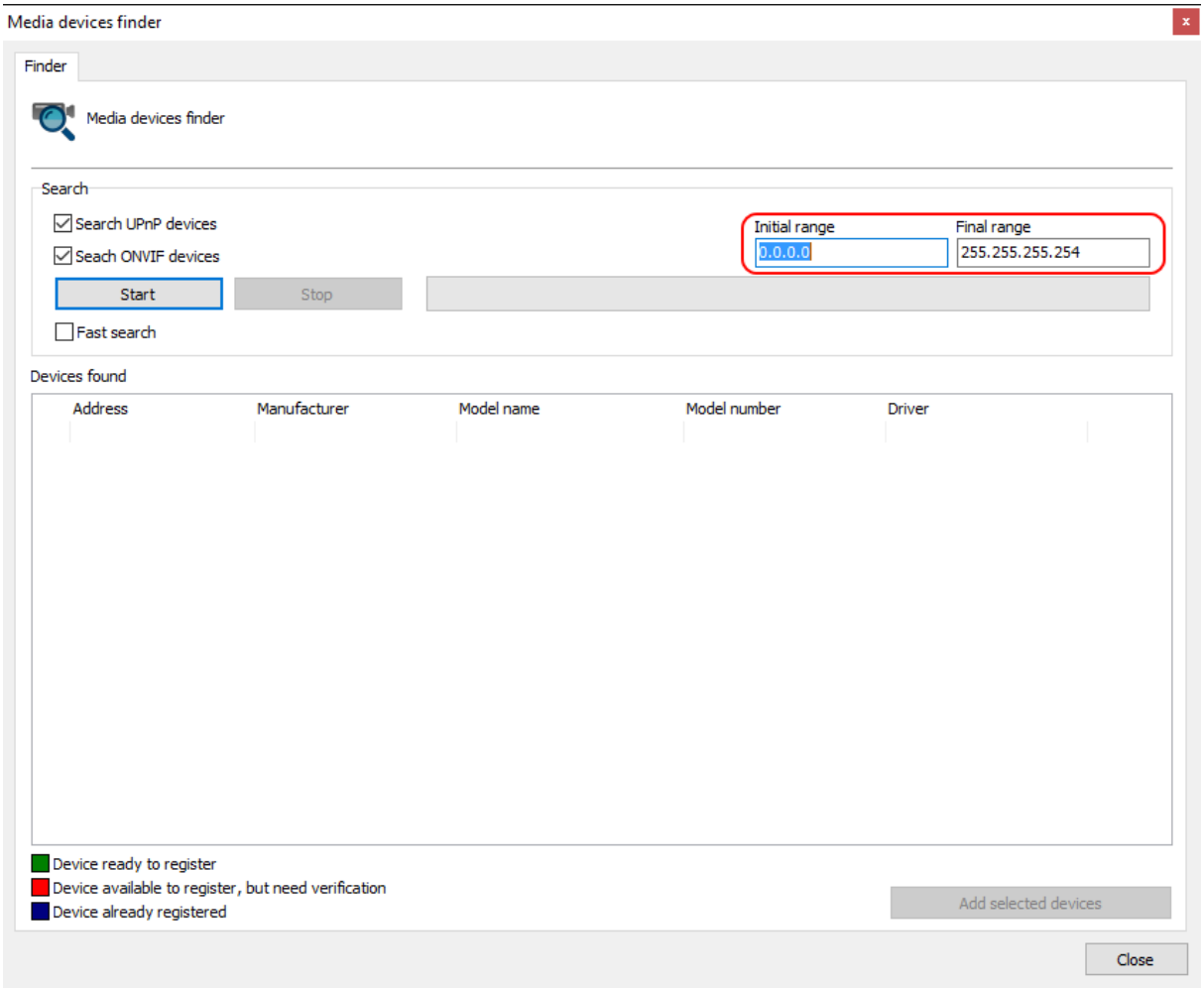


## 2.1.66 Better performance for objets list

The objects list in Surveillance Client was improved for better performance and behavior.

## 2.1.67 Configuration data in registry (64bit)

When the server is running in 64bit operating system, the system configuration data was stored inside a special compatibility key named Wow6432Node, now with the new 64bit version, the configuration data will be moved to the regular 64bit key in windows registry, both 32bits and 64bits version will access the same configuration data. This change also allows the system configuration backup to generate only 1 backup file, instead of generating a 32bit and 64bit versions of the backup as previously.

Warning: With this change, a system downgrade will not be possible because the settings will be moved to another registry key. Before updating to 7.2 backup your system settings using Administration Client, and in case a downgrade is required use the backup file to return the settings of the older version.

## 2.1.68 New audio codecs

The library for G.711 and G.726 was updated to provide better performance, compatibility and audio quality.

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### 2.1.69 Improvements to database connection

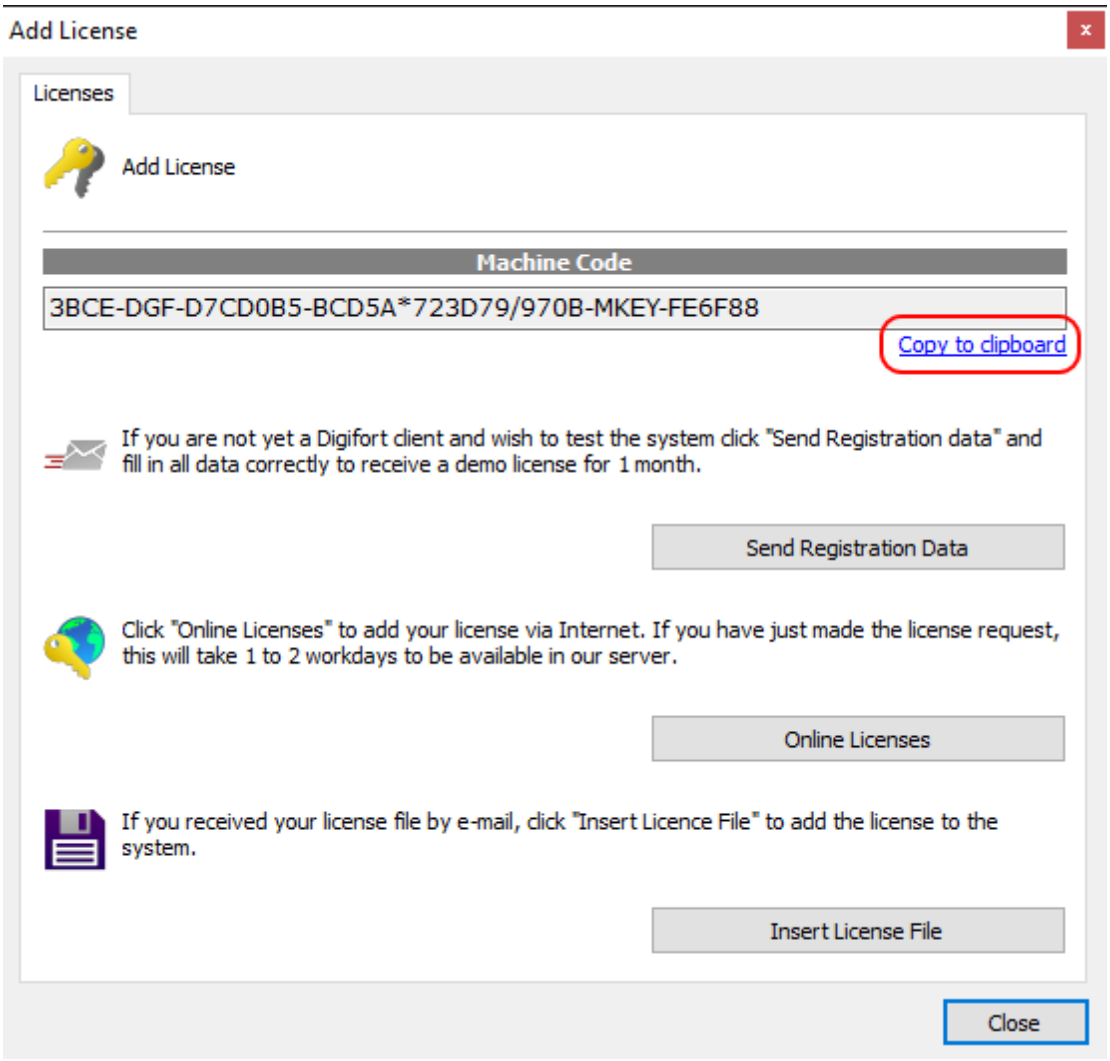
The connection with the system database was improved and should be more stable now. In case of any database communication error, the system will log an error and will send a message to Administration Client only. Surveillance Client will no longer receive any database error messages.

### 2.1.70 Playback with DGF-KB1000 keyboard improved

The playback controls with DGF-KB1000 were improved.

### 2.1.71 Copy machine code to the clipboard

A new option to copy the machine code to the clipboard was added to the licensing screen. Additionally the version and edition of the system is also copied.




### 2.1.72 Timeline zoom animation

The zoom operations on media player timeline will now display a transition animation to provide a more user-friendly interface.

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### 2.1.73 Improvements to ONVIF driver

- Updated compatibility with protocol version 2.5
- Added support to continuous movement of PTZ cameras with implementation older than version 2.0
- Improved the stability and performance of the communication driver

### 2.1.74 Improvements to Axis PTZ driver

The PTZ driver of Axis video servers was improved to use a new method to transmit PTZ commands for analog cameras using plain TCP.

### 2.1.75 Digifort RTSP driver audio output

The communication driver "RTSP Digifort" that is used to create interconnection between Digifort servers now supports audio output.

### 2.1.76 Barco video wall integration improvements

Camera description will now be displayed as a decorator in Barco video wall and will also be displayed on side-bar.

Barco video wall integration now requires an integration license.

### 2.1.77 Quick Support

A new quick support tool was added to the release. This tool will allow the remote access from Digifort technicians to help customers with problems or optimizations in an easy, fast and secure way.

### 2.1.78 New features to Standard edition

The following pre-existent features in superior editions were added to Standard edition:

- Support to Edge Analytics (Executed in the camera)
- Support to Edge LPR (Executed in the camera)

## 2.2 New supported devices

### 2.2.1 Media Devices

3M P372
3M P392
3S Security N5014C
3S Security N6030
3S Security N6050
3S Security N6092
3S Security N9052
Abus AbusTVIP92500
Abus TVIP92100
Abus TVIP92300
Abus TVIP92600
Abus TVIP92610
Abus TVIP92700
ACTi E23B
ACTi GNR-3000
ACTi I71
ACTi I94

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ADBrasil ADH 4120 AX
ADS BLD-450
ADS BLD-460
AGNI MB-51P5
AGNI MB-51P6
AGNI MB-51P7
AGNI MB-51PE
AGNI MB-51PF
AGNI MB-51PL
AGNI MB-51PM
AGNI MB-51PN
AGNI MB-51Q6
AGNI MB-51Q7
AGNI MB-51QE
AGNI MB-51QF
AGNI MB-51QH
AGNI MB-51QJ
AGNI MB-51QL
AGNI MB-51QM
AGNI MB-51QN
AGNI MB-51X1
AGNI MB-51X5
AGNI MB-51X6
AGNI MB-51X7
AGNI MB-51XF
AGNI MB-51XJ
AGNI MB-51XL
AGNI MB-51XM
AGNI MB-51XN
AGNI MB-51Z5
AGNI MB-51Z6
AGNI MB-51Z7
AGNI MB-51ZD
AGNI MB-51ZF
AGNI MB-51ZM
AGNI MB-51ZN
AGNI Q2V6-6
AGNI Q2V6-N
AGNI X0SB-6
AGNI X0SG-5
AGNI Z4SA-6
AirLive BU-3028
AirLive BU-3028-IVS
AirLive FE-201DM
AirLive FE-501DM
AirLive FE-501OD
Alive AL-DVR3004
Alive AL-DVR3016S
Alive AL-HVR-5104-M
Alive AL-HVR-5208-N
Alive AL-HVR-5216-N
Antrica ANT-35000
Arecont AV3195DN

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ARH SmartCam
AvGlobal IPAV282BA6-F36I36BR
AvGlobal IPAV313BA6-F36I36W
AvGlobal IPAV4BF75-V28I42WE
AvGlobal NVR-GV32FHD
Axis A8105-E
Axis C1004
Axis C2005
Axis C3003-E
Axis M1145-LW
Axis M1165-LW
Axis M3044-WV
Axis M3045-WV
Axis M3046-V
Axis M3104-L
Axis M3104-LVE
Axis M3105-L
Axis M3105-LVE
Axis M3106-L
Axis M3106-LVE
Axis P12-MkII
Axis P1365 MkII
Axis P1435-LE
Axis P3225-LV MkII
Axis P3707-PE
Axis P5624-E MkII
Axis P5635E MkII
Axis P8221
Axis Q1615 Mk II
Axis Q1615-E Mk II
Axis Q1775
Axis Q3505-VE MKII
Axis Q3615-VE
Axis Q3617-VE
Axis Q3708-PVE
Axis Q6052
Axis Q6052-E
Axis Q6054
Axis Q6054-E
Axis Q6055
Axis Q6055-E
Axis Q6128-E
Axis XF40-Q1765
Axis XP40-Q1765
Bosch AutoDome IP 5000 IR
Bosch AutoDome IP StarLight 7000 HD
Bosch Dinion Bullet 4000 HD
Bosch Dinion NBN-832V-IP
Bosch FlexiDome IP5000
Bosch FlexiDome IP7000VR
Bosch MIC 612
Bosch MIC IP Dynamic 7000 HD
Bosch NDN-40012-V3

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Bosch NDN-50051-A3
Bosch NEZ-4112-PPCW4
Bosch NEZ-4212-PPCW4
Bosch NEZ-5230-PPCW4
Bosch NIN-50022-V3
Bosch NPC-20012-F2L
Bosch VOT 320V
Brickcom FB-200Ne
Brickcom FB-200Np
Brickcom FB-300Ne Star
Brickcom FB-300Np Star
Brickcom FB-H200Np
Brickcom FD-200Np V6
Brickcom FD-201Nf V6
Brickcom FD-202Ne V6
Brickcom FD-300Np Star
Brickcom FD-301Nf Star
Brickcom FD-302Ne Star
Brickcom GOB-300Np Star
Brickcom GOB-300Np Star-Lte
Brickcom MD-200Np V6
Brickcom MD-300Np Star
Brickcom MD-300Np-360 Star
Brickcom MD-H600Np-360-DN
Brickcom OB-200Nf V6
Brickcom OB-200Np-LR
Brickcom OB-202Ne V6
Brickcom OB-300Nf Star
Brickcom OB-300Np Star
Brickcom OB-302Ne Star
Brickcom OB-500Ap V6
Brickcom OB-E200Nf
Brickcom OB-H200Np
Brickcom OSD-200NP 30X
Brickcom VD-200Np V6
Brickcom VD-201Nf V6
Brickcom VD-202Ne V6
Brickcom VD-300Np Star
Brickcom VD-301Nf Star
Brickcom VD-302Ne Star
Brickcom VD-E200Nf
Brickcom VD-H200Np
Brickcom WMB-300Ap V6
Brickcom WMB-300ApAC
Brickcom WOB-300Np Star
Bycon BCBN S0361060IR-6M
Bycon BFYN-S01620IR-6M
Bycon BSA-H1616
Bycon BSA-H1616PR
Bycon BSA-H1632PR
Bycon BSDN-G22HD100IR
Bycon STD-H0404NVR
Bycon STD-H1600TVi

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Canon VB-H630D
Canon VB-H730F
Canon VB-M40
Canon VB-M620D
Canon VB-M640VE
Canon VB-M720F
Canon VB-M741LE
Canon VB-R11
Canon VB-S31
Centrium ADSR20H130C
Centrium APM4E10H200C
Centrium APM7B22H200C
Centrium AVHN20H130C
Centrium AVZM40E200C
Cisco CIVS IPC-2830
Cisco CIVS IPC-2835
Cisco CIVS IPC-6930
Citrox CX-NVR02
Clear CL1348
Clebo FD20
Clebo IPE 1100M
CNB MPC1070PN
CNB NB25-7MH
CNB NB25-7MHR
CNB NP24-8P30RW
CNB NS21-0MH
ControlBR CBR-ST04H
ControlBR CBR-ST08H
ControlBR CBR-ST16H
CS Eletronica DVR2108HWI-H
CS Eletronica DVR2116HVI
Cynix HIR-XN30WL
Dahua DHI-HCVR4104C-S2
Dahua DHI-HCVR4104HE-S2
Dahua DHI-HCVR4104HS-S2
Dahua DHI-HCVR4108C-S2
Dahua DHI-HCVR4108HE-S2
Dahua DHI-HCVR4108HS-S2
Dahua DHI-HCVR4116HE-S2
Dahua DHI-HCVR4116HS-S2
Dahua DHI-HCVR4204A-S2
Dahua DHI-HCVR4208A-S2
Dahua DHI-HCVR4216AN-S2
Dahua DHI-HCVR4216A-S2
Dahua DHI-HCVR4404L-S2
Dahua DHI-HCVR4408L-S2
Dahua DHI-HCVR4416L-S2
Dahua DHI-HCVR4804S-S2
Dahua DHI-HCVR4808S-S2
Dahua DHI-HCVR4816S-S2
Dahua DHI-HCVR5104C-S2
Dahua DHI-HCVR5104HE-S2
Dahua DHI-HCVR5104H-S2

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Dahua DHI-HCVR5108C-S2
Dahua DHI-HCVR5108HE-S2
Dahua DHI-HCVR5108H-S2
Dahua DHI-HCVR5116HE-S2
Dahua DHI-HCVR5116H-S2
Dahua DHI-HCVR5204A-S2
Dahua DHI-HCVR5208A-S2
Dahua DHI-HCVR5216AN-S2
Dahua DHI-HCVR5216A-S2
Dahua DHI-HCVR7104C-S2
Dahua DHI-HCVR7104HE-S2
Dahua DHI-HCVR7104H-S2
Dahua DHI-HCVR7108HE-S2
Dahua DHI-HCVR7108H-S2
Dahua DHI-HCVR7204A-S2
Dahua DHI-HCVR7208A-S2
Dahua DH-IPC-C10
Dahua DH-IPC-HDW4421E
Dahua DH-IPC-KW12
Dahua DH-NVR608-32-4K
Dahua DH-SC65F23
Dahua DH-SD22204T-GN
Dahua DH-SD29204S-GN
Dahua DH-SD29204S-GN-W
Dahua DH-SD40212T-HN
Dahua DH-SD42212T-HN
Dahua DH-SD42C212T-HN
Dahua DH-SD50120T-HN
Dahua DH-SD50220T-HN
Dahua DH-SD50230T-HN
Dahua DH-SD50430U-HN
Dahua DH-SD52C120T-HN
Dahua DH-SD52C220T-HN
Dahua DH-SD52C230T-HN
Dahua DH-SD52C430U-HN
Dahua DH-SD59120T-HN
Dahua DH-SD59220T-HN
Dahua DH-SD59230T-HN
Dahua DH-SD59430U-HN
Dahua DH-SD6A230-HNI
Dahua DH-SD6AE230F-HNI
Dahua DH-SD6AE530U-HN
Dahua DH-SD6AL230F-HNI
Dahua DH-SD6AL230FN-HNI-IR
Dahua DH-SD6AL240-HNI
Dahua DH-SD6C120T-HN
Dahua DH-SD6C220T-HN
Dahua DH-SD6C230S-HN
Dahua DH-SD6C230T-HN
Dahua DH-SD6C430U-HN
Dahua HCVR5116H-S2
Dahua HCVR5216AN-S2
Dahua HCVR5424L-S2

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Dahua HCVR5432L-S2
Dahua HCVR5824S-S2
Dahua HCVR5832S-S2
Dahua HCVR7404L
Dahua HCVR7408L
Dahua HCVR7416L
Dahua HCVR7804S
Dahua HCVR7808S
Dahua HCVR7816S
Dahua IPC-EB5400
Dahua IPC-EB5500
Dahua IPC-EBW81200
Dahua IPC-HDB4231C-AS
Dahua IPC-HDB4431C-AS
Dahua IPC-HDBW1320E
Dahua IPC-HDBW2300R-Z
Dahua IPC-HDBW2320RN-ZS
Dahua IPC-HDBW4231E-AS
Dahua IPC-HDBW4231F-AS
Dahua IPC-HDBW4421EP-AS
Dahua IPC-HDBW4431E-AS
Dahua IPC-HDBW4431F-AS
Dahua IPC-HDBW4830E-AS
Dahua IPC-HDBW5231E-Z
Dahua IPC-HDBW5231R-Z
Dahua IPC-HDBW5421E-Z
Dahua IPC-HDBW5431E-Z
Dahua IPC-HDBW5431R-Z
Dahua IPC-HDBW5830E-Z
Dahua IPC-HDBW5830R-Z
Dahua IPC-HDW1320SN
Dahua IPC-HDW4231EM-AS
Dahua IPC-HDW4231M
Dahua IPC-HDW4431EM-AS
Dahua IPC-HDW4431M
Dahua IPC-HDW4830EM-AS
Dahua IPC-HDW5231R-Z
Dahua IPC-HDW5431R-Z
Dahua IPC-HDW5830R-Z
Dahua IPC-HF5231E
Dahua IPC-HF5431E
Dahua IPC-HFW1320S
Dahua IPC-HFW2300R-Z
Dahua IPC-HFW4231B-AS
Dahua IPC-HFW4231D-AS
Dahua IPC-HFW4231E-S
Dahua IPC-HFW4231S
Dahua IPC-HFW4431B-AS
Dahua IPC-HFW4431D-AS
Dahua IPC-HFW4431E-S
Dahua IPC-HFW4431S
Dahua IPC-HFW4830E-S
Dahua IPC-HFW5231E-Z

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Dahua IPC-HFW5421EN-Z
Dahua IPC-HFW5431E-Z
Dahua IPC-HFW5830E-Z
Dahua IPC-HFW8331E-Z
Dahua SD-29204SN-GN
Dahua SD50430U-HN
Dahua SD52C430U-HN
Dahua SD59430U-HN
Dahua SD-65230-HNI
Dahua SD6AE530U-HN
Dahua SD6C430U-HN
DivioTec NBF232P
DivioTec NBF233U
DivioTec NBF331
DivioTec NBR123
DivioTec NBR124
DivioTec NBR222PV
DivioTec NBR224P
DivioTec NBR225P
DivioTec NBR226PV
DivioTec NBR321
DivioTec NBR325P
DivioTec NBR326P
DivioTec NDF341
DivioTec NDF342
DivioTec NDF343P
DivioTec NDM361
DivioTec NDR153
DivioTec NDR154
DivioTec NDR252P
DivioTec NDR255P
DivioTec NDR351
DivioTec NDR352P
DivioTec TBR720
DivioTec TBR721
DivioTec TBR722
DivioTec TDR751
DSS DFH-3016E
DSS DFH-6008E
DSS DS-099
Dynacolor D5BEE-16
Dynacolor P2SA-6
Dynacolor P2SA-E
Dynacolor P2SA-F
Dynacolor P2SA-M
Dynacolor P2SA-N
Dynacolor P2SD-6
Dynacolor P2SD-E
Dynacolor P2SD-F
Dynacolor P2SD-L
Dynacolor P2SD-M
Dynacolor P2SD-N
Dynacolor P2V6-6

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Dynacolor P2V6-E
Dynacolor P2V6-F
Dynacolor P2V6-L
Dynacolor P2V6-M
Dynacolor P2V6-N
Dynacolor Q2SH-6
Dynacolor Q2SH-E
Dynacolor Q2SH-F
Dynacolor Q2SH-J
Dynacolor Q2SH-L
Dynacolor Q2SH-M
Dynacolor Q2SH-N
Dynacolor Q2V6-6
Dynacolor Q2V6-E
Dynacolor Q2V6-F
Dynacolor Q2V6-J
Dynacolor Q2V6-L
Dynacolor Q2V6-M
Dynacolor Q2V6-N
Dynacolor X0SB-5
Dynacolor X0SB-6
Dynacolor X0SB-F
Dynacolor X0SB-J
Dynacolor X0SB-L
Dynacolor X0SB-M
Dynacolor X0SB-N
Dynacolor X0SG-5
Dynacolor X0SG-6
Dynacolor X0SG-F
Dynacolor X0SG-J
Dynacolor X0SG-L
Dynacolor X0SG-M
Dynacolor X0SG-N
Dynacolor Z4SA-5
Dynacolor Z4SA-6
Dynacolor Z4SA-D
Dynacolor Z4SA-F
Dynacolor Z4SA-M
Dynacolor Z4SF-5
Dynacolor Z4SF-6
Dynacolor Z4SF-D
Dynacolor Z4SF-F
Dynacolor Z4SF-M
Elbex EIF3502HD
Elgin AHD-L 960H
FerTec FTD-3416TF-C
Flir DNR208P1
GEOip GV-32CH
Gerp IP NBVELM2M-2.8A12
Gerp IP NBVELM4M-2.8A12
Gerp IP NDVLM2MCM-2.8A12
Gerp IP NMBE2M-3.6
Gerp IP NMDE2M-2.8

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Gerp IP NMDX2M-2.8
Giga GS16960MAX
Giga GS16HD
Golbong 2211
Golbong 2211-54
Golbong 2220
Golbong 2221
Golbong 2251
Golbong 2251-12
Golbong 2255
Golbong 2260-23
Golbong 2260-30
Golbong 2260-45
Golbong 2260-73
Golbong 2291
Golbong 2296
Golbong 2369-23
Golbong 2369-30
Golbong 2369-45
Golbong 2369-73
Golbong 2371
Golbong 2371-12
Golbong 2375
Golbong 2545
Golbong 2545-15
Golbong 2545-30
Golbong 2545-32
Golbong 2546
Golbong 2546-32
Golbong 2643-48
Golbong 2645-48
Golbong 2646-48
Golbong 2650-48
Golbong 2652-48
Golbong 2654-48
Golbong 2654-55
Golbong 2676-21
Golbong 2676-23
Golbong 2676-64
Golbong 2679-21
Golbong 2679-23
Golbong 2679-30
Golbong 2679-64
Golbong 2816-18
Golbong 2816-30
Golbong 2818-18
Golbong 2818-30
Golbong 3025-45
Golbong 3025-68
Golbong 3025-83
Golbong 3030-47
Golbong 3031
Golbong 3044

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Golbong 3045-36
Golbong 3045-75
Golbong 3550-28
Golbong 3554
Golbong 3555
Golbong 3556-30
Golbong 3556-53
Golbong 3566
Golbong 3572
Golbong GB-HD9624
Grandstream GXV3611IR HD
Grandstream GXV3674FHD-VF
Gravo GIB-2AF/20
Gravo GIB-2AVF/60
Gravo GID-2AVF/20
Gravo GIS-2M22X120
Greatek GHVR-332NS
Greatek GHVR-504NS
Greatek GHVR-508NS
Greatek GHVR-516NS
Greatek GTK-DVR-04H
Greatek GTK-DVR-08H
Greatek GTK-HVR-04N
Greatek GTK-HVR-08N
Greatek GTK-HVR-16N
Greatek SEGI-2033
Hikvision DS-2CD2042WD-I
Hikvision DS-2CD2042WD-I(W)(S)
Hikvision DS-2CD2142FWD-I
Hikvision DS-2CD2622FWD-I(Z)(S)
Hikvision DS-2CD2942F-IWS
Hikvision DS-2CD4025FWD-AP
Hikvision DS-2CD4026FWD-AP
Hikvision DS-2CD4085F-P
Hikvision DS-2CD40C5F-AP
Hikvision DS-2CD4165F-IZ
Hikvision DS-2CD4185F-IZ
Hikvision DS-2CD4565F-IZH
Hikvision DS-2CD4585F-IZH
Hikvision DS-2CD4665F-IZHS
Hikvision DS-2CD4685F-IZHS
Hikvision DS-2CD4A25FWD
Hikvision DS-2CD4A25FWD-IZ
Hikvision DS-2CD4A26FWD
Hikvision DS-2CD4A26FWD-IZ
Hikvision DS-2CD4A85F-IZHS
Hikvision DS-2CD6332FWD-IVS
Hikvision DS-2CD63C2F-IWS
Hikvision DS-2CD6986F-H
Hikvision DS-2DE4220IW-D
Hikvision DS-2DE5220W-AE
Hikvision DS-2DE5230W-AE
Hikvision DS-2DF6223-AEL

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Hikvision DS-2DF6236-AEL
Hikvision DS-2DP0818Z-D
Hikvision DS-2DP1636Z-D
Hikvision DS-2DY9187-AI8
Hikvision DS-6708HWI
Hikvision DS-6716HWI
Hikvision DS-7204HI-SL
Hikvision DS-7208HGHI-SH
Hikvision DS-7216HGHI-F1
Hikvision DS-7216HVI-SH
Hikvision DS-7224HVI-ST
Hikvision DS-7332H6H1-SH
Hikvision DS-M5504HM-GW
Hikvision Generic Model
Hikvision VMI-DVR-3216-SV
Honeywell HIDC-1600TV
Illustra ADCi210-D011
Illustra ADCi210-D013
Illustra ADCi210-D021
Illustra ADCi210-D023
Illustra ADCi210-D111
Illustra ADCi210-D113
Illustra ADCi210-D121
Illustra ADCi210-D123
Illustra IES01B1BNWIY
Illustra IES01CFACWSY
Illustra IES01CFBCWIY
Illustra IES01D1OCWIY
Illustra IES01MFBNWIY
Illustra IES02B1BNWIY
Illustra IES02CFACWSY
Illustra IES02CFBCWIY
Illustra IES02D1OCWIY
Illustra IES02MFBNWIY
Illustra IPL02B2BNWIY
Illustra IPS03D2ICBIT
Illustra IPS03D2ICBTT
Illustra IPS03D2ICWIT
Illustra IPS03D2ICWTT
Illustra IPS03D2ISBIT
Illustra IPS03D2ISBTT
Illustra IPS03D2ISWIT
Illustra IPS03D2ISWTT
Illustra IPS03D2OCBIT
Illustra IPS03D2OCBTT
Illustra IPS03D2OCWIT
Illustra IPS03D2OCWTT
Illustra IPS03D2OSBIT
Illustra IPS03D2OSBTT
Illustra IPS03D2OSWIT
Illustra IPS03D2OSWTT
Illustra IPS03D3ICBIT
Illustra IPS03D3ICBTT

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Illustra IPS03D3ICWIT
Illustra IPS03D3ICWTT
Illustra IPS03D3ISBIT
Illustra IPS03D3ISBTT
Illustra IPS03D3ISWIT
Illustra IPS03D3ISWTT
Illustra IPS05D2ICBIY
Illustra IPS05D2ICBTY
Illustra IPS05D2ICWIY
Illustra IPS05D2ICWTY
Illustra IPS05D2ISBIY
Illustra IPS05D2ISBTY
Illustra IPS05D2ISWIY
Illustra IPS05D2ISWTY
Illustra IPS05D2OCBIY
Illustra IPS05D2OCBTY
Illustra IPS05D2OCWIY
Illustra IPS05D2OCWTY
Illustra IPS05D2OSBIY
Illustra IPS05D2OSBTY
Illustra IPS05D2OSWIY
Illustra IPS05D2OSWTY
Illustra IPS05D3ICBIY
Illustra IPS05D3ICBTY
Illustra IPS05D3ICWIY
Illustra IPS05D3ICWTY
Illustra IPS05D3ISBIY
Illustra IPS05D3ISBTY
Illustra IPS05D3ISWIY
Illustra IPS05D3ISWTY
Intelbras CVD-1004
Intelbras HDCVI1004-G2
Intelbras HDCVI1008-G2
Intelbras HDCVI1016-G2
Intelbras HDCVI1032
Intelbras HDCVI3016
Intelbras HDCVI5032-H
Intelbras NVD3000
Intelbras NVD3000-P
Intelbras NVD-7032
Intelbras VIP 1120
Intelbras VIP 5220 SD
Intelbras VIP 5230
Intelbras VIP 5450Z
Intelbras VIP E3250-Z
Intelbras VIP E5230
Intelbras VIP E5230-Z
Intelbras VIP E6400
Intelbras VIP S3020G2
Intelbras VIP S3330G2
Intelbras VIP S-4020-G2
Intelbras VIP S-4320-G2
JFL Alarmes SAD 16

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JFL Alarmes WD3008
JFL Alarmes WD4004
JFL Alarmes WD4008
JFL Alarmes WD4016
JFL Alarmes WD4032
JFL Alarmes WD4116
LevelOne FCS-0051
LevelOne FCS-3083
LevelOne FCS-3092
LevelOne FCS-3093
LevelOne FCS-4042
LevelOne FCS-4043
LevelOne FCS-4102
LevelOne WCS-6050
LG LNU3210R
Linkbee LB-2316ME
LTV DVR-1662-HV
LuxVision ADVR-7008TR-LM
LuxVision ADVR-7016TR-LM
LuxVision LV-DVR-04N
LuxVision LV-DVR-04P
LuxVision LV-DVR-08P
LuxVision LV-DVR-16D
LuxVision LVDVR16i-AHDM
LuxVision LV-DVR-16N
LuxVision LV-DVR-16P
LuxVision LVDVR216-AHDM
LuxVision LV-IPC39B36
Merit Lilin IPD62220ES
Merit Lilin IPR2122ES
Merit Lilin IPR320ESX
Merit Lilin IPR722E
Merit Lilin IPR7922E4/6
Merit Lilin IPS420
Merit Lilin LR6122
Merit Lilin MR8322
Merit Lilin SD2222E
Merit Lilin SR7022
Merit Lilin ZG1232
Messoa NCR376
Messoa NOD316
Messoa SPD983
Messoa UFD706
Milesight MS-C2151-PA
Milesight MS-C2163-FIPNA
Milesight MS-C2163-PNA
Milesight MS-C2173-PNA
Milesight MS-C2181-PA
Milesight MS-C2182-PA
Milesight MS-C2191-PWA
Milesight MS-C2951-PB
Milesight MS-C2962-PB
Milesight MS-C2963-FIPB

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Milesight MS-C2963-PB
Milesight MS-C2972-FIPB
Milesight MS-C2972-FIPMB
Milesight MS-C2973-PB
Milesight MS-C2982-PB
Milesight MS-C3581-PA
Milesight MS-C3586-PA
Milesight MS-C3596-PWA
Milesight MS-C3751-PB
Milesight MS-C3762-FIPB
Milesight MS-C3763-FIPB
Milesight MS-C3763-PB
Milesight MS-C3772-FIPB
Milesight MS-C3772-FIPMB
Milesight MS-C4191
Milesight MS-C4192
Milesight MS-C4451-PB
Milesight MS-C4462-FIPB
Milesight MS-C4463-FIPB
Milesight MS-C4463-PB
Milesight MS-C4472-FIPB
Milesight MS-C4472-FIPMB
Milesight MS-C4473-PB
Milesight MS-C4482-PB
Mobotix C25
Mobotix Q25
MTW VM0415
MTW VM0515
Oncam EVO-05-LCD
Oncam EVO-05-LID
Oncam EVO-05-LJD
Oncam EVO-05-LMD
Oncam EVO-05-LND
Oncam EVO-05-NJD
Oncam EVO-05-NMD
Oncam EVO-05-NND
Oncam EVO-12-LCD
Oncam EVO-12-LID
Oncam EVO-12-LJD
Oncam EVO-12-LMD
Oncam EVO-12-LND
Oncam EVO-12-NCD
Oncam EVO-12-NID
Oncam EVO-12-NJD
Oncam EVO-12-NMD
Oncam EVO-12-NND
Opgal Sii AT V2
Panasonic WV-SW397
Pelco Esprit Full HD ES5230-02N
Pelco Esprit Full HD ES5230-02W
Pelco Esprit Full HD ES5230-05N
Pelco Esprit Full HD ES5230-05W
Pelco Esprit Full HD ES5230-12N

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Pelco Esprit Full HD ES5230-12NP
Pelco Esprit Full HD ES523-012W
Pelco Esprit Full HD ES523-012WP
Pelco Esprit Full HD ES523-015N
Pelco Esprit Full HD ES523-015NP
Pelco Esprit Full HD ES523-015W
Pelco Esprit Full HD ES523-015WP
Pelco EVO-05-LCD
Pelco EVO-05-LJD
Pelco EVO-05-LMD
Pelco EVO-05-LND
Pelco EVO-05-NCD
Pelco EVO-05-NJD
Pelco EVO-05-NMD
Pelco EVO-05-NND
Pelco EVO-12-LCD
Pelco EVO-12-LID
Pelco EVO-12-LJD
Pelco EVO-12-LMD
Pelco EVO-12-LND
Pelco EVO-12-NCD
Pelco EVO-12-NID
Pelco EVO-12-NJD
Pelco EVO-12-NMD
Pelco EVO-12-NND
Pelco NET5501
Pelco NET5504
Pelco NET5508
Pelco Optera IMM12018-E
Pelco Sarix Pro 2 IBP121-1I
Pelco Sarix Pro 2 IBP121-1R
Pelco Sarix Pro 2 IBP122-1I
Pelco Sarix Pro 2 IBP122-1R
Pelco Sarix Pro 2 IBP124-1I
Pelco Sarix Pro 2 IBP124-1R
Pelco Sarix Pro 2 IBP221-1I
Pelco Sarix Pro 2 IBP221-1R
Pelco Sarix Pro 2 IBP222-1I
Pelco Sarix Pro 2 IBP222-1R
Pelco Sarix Pro 2 IBP224-1I
Pelco Sarix Pro 2 IBP224-1R
Pelco Sarix Pro 2 IBP321-1I
Pelco Sarix Pro 2 IBP321-1R
Pelco Sarix Pro 2 IBP322-1I
Pelco Sarix Pro 2 IBP322-1R
Pelco Sarix Pro 2 IBP324-1I
Pelco Sarix Pro 2 IBP324-1R
Pelco Sarix Pro 2 IBP521-1I
Pelco Sarix Pro 2 IBP521-1R
Pelco Sarix Pro 2 IJP121-1IS
Pelco Sarix Pro 2 IJP221-1IS
Pelco Sarix Pro 2 IMP121-1ES
Pelco Sarix Pro 2 IMP121-1IS

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Pelco Sarix Pro 2 IMP121-1RS
Pelco Sarix Pro 2 IMP221-1ES
Pelco Sarix Pro 2 IMP221-1IS
Pelco Sarix Pro 2 IMP221-1RS
Pelco Sarix Pro 2 IMP321-1ES
Pelco Sarix Pro 2 IMP321-1IS
Pelco Sarix Pro 2 IMP321-1RS
Pelco Sarix Pro 2 IMP521-1ES
Pelco Sarix Pro 2 IMP521-1IS
Pelco Sarix Pro 2 IMP521-1RS
Pelco Sarix Pro 2 IWP121-1ES
Pelco Sarix Pro 2 IWP221-1ES
Pelco Spectra Enchanced S6220-EG0
Pelco Spectra Enchanced S6220-EG1
Pelco Spectra Enchanced S6220-ESG0
Pelco Spectra Enchanced S6220-ESG1
Pelco Spectra Enchanced S6220-FW0
Pelco Spectra Enchanced S6220-FW1
Pelco Spectra Enchanced S6220-PB0
Pelco Spectra Enchanced S6220-PB1
Pelco Spectra Enchanced S6220-PG0
Pelco Spectra Enchanced S6220-PG1
Pelco Spectra Enchanced S6220-YB0
Pelco Spectra Enchanced S6220-YB1
Pelco Spectra Enchanced S6230-EG0
Pelco Spectra Enchanced S6230-EG1
Pelco Spectra Enchanced S6230-ESG0
Pelco Spectra Enchanced S6230-ESG1
Pelco Spectra Enchanced S6230-FW0
Pelco Spectra Enchanced S6230-FW1
Pelco Spectra Enchanced S6230-PB0
Pelco Spectra Enchanced S6230-PB1
Pelco Spectra Enchanced S6230-PG0
Pelco Spectra Enchanced S6230-PG1
Pelco Spectra Enchanced S6230-YB0
Pelco Spectra Enchanced S6230-YB1
Pelco Spectra Pro P1220-ESR0
Pelco Spectra Pro P1220-ESR1
Pelco Spectra Pro P1220-FWH0
Pelco Spectra Pro P1220-FWH1
Pelco Spectra Pro P1220-PWH0
Pelco Spectra Pro P1220-PWH1
Pelco Spectra Pro P1220-YSR0
Pelco Spectra Pro P1220-YSR1
Proimage PROI-501-V2
Proimage PROI-502-V2
Proimage PROI-503-V2
Proimage PROI-504-V2
Proimage PROIL-102-V2
Qihan QH-D8416AM
Redvision RV30-1080-IRWL-W-B
Redvision RV30-720-IRWL-W-B
Redvision RVX-IP30IRWLW

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Samsung PND-9080R
Samsung PNF-9010R
Samsung PNF-9010RV
Samsung PNF-9010RVM
Samsung PNM-9020V
Samsung PNM-9080VQ
Samsung PNO-9080R
Samsung PNP-9200RH
Samsung PNV-9080R
Samsung QND-6010R
Samsung QND-6020R
Samsung QND-6030R
Samsung QND-6070R
Samsung QND-7010R
Samsung QND-7020R
Samsung QND-7020RN
Samsung QND-7030R
Samsung QND-7030RN
Samsung QND-7080R
Samsung QNO-6010R
Samsung QNO-6020R
Samsung QNO-6030R
Samsung QNO-6070R
Samsung QNO-7010R
Samsung QNO-7010RN
Samsung QNO-7020R
Samsung QNO-7020RN
Samsung QNO-7030R
Samsung QNO-7030RN
Samsung QNO-7080R
Samsung QNV-6010R
Samsung QNV-6020R
Samsung QNV-6030R
Samsung QNV-6070R
Samsung QNV-7010R
Samsung QNV-7020R
Samsung QNV-7030R
Samsung QNV-7080R
Samsung SNB-3002
Samsung SNB-5004
Samsung SNB-6003
Samsung SNB-6004
Samsung SNB-6004F
Samsung SNB-6005
Samsung SNB-6010B
Samsung SNB-6011
Samsung SNB-6011B
Samsung SNB-7000
Samsung SNB-7001
Samsung SNB-7002
Samsung SNB-7004
Samsung SNB-8000
Samsung SND-3082

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Samsung SND-3082F
Samsung SND-5010
Samsung SND-5061N
Samsung SND-6083
Samsung SND-6084
Samsung SND-6084R
Samsung SND-7011
Samsung SND-7080F
Samsung SND-7082
Samsung SND-7082F
Samsung SND-7084
Samsung SND-7084R
Samsung SND-L5013
Samsung SND-L5083R
Samsung SND-L6012
Samsung SND-L6013
Samsung SND-L6013R
Samsung SND-L6083R
Samsung SNF-7010
Samsung SNO-1080R
Samsung SNO-5084R
Samsung SNO-6084R
Samsung SNO-7080R
Samsung SNO-7084R
Samsung SNO-8081R
Samsung SNO-L5083R
Samsung SNO-L6013R
Samsung SNO-L6083R
Samsung SNP-3120V
Samsung SNP-3120VH
Samsung SNP-5233
Samsung SNP-5233H
Samsung SNP-5300
Samsung SNP-5321
Samsung SNP-5321H
Samsung SNP-5430
Samsung SNP-6201
Samsung SNP-6233
Samsung SNP-6233H
Samsung SNP-6320
Samsung SNP-6320RH
Samsung SNP-6321
Samsung SNP-6321H
Samsung SNP-L5233H
Samsung SNP-L5233N
Samsung SNP-L6233N
Samsung SNP-L6233RH
Samsung SNP-L6233RHN
Samsung SNV-1080
Samsung SNV-3082
Samsung SNV-5084
Samsung SNV-6012M
Samsung SNV-6012MN

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Samsung SNV-6013
Samsung SNV-6084
Samsung SNV-6084R
Samsung SNV-6085R
Samsung SNV-7082
Samsung SNV-7084
Samsung SNV-7084R
Samsung SNV-8080
Samsung SNV-8081R
Samsung SNV-L5083R
Samsung SNV-L6013RP
Samsung SNV-L6014RMN
Samsung SNV-L6083R
Samsung SNZ-6320
Samsung TNO-1050T
Samsung XNB-6000
Samsung XNB-8000
Samsung XND-6010N
Samsung XND-6020R
Samsung XND-6080
Samsung XND-6080P
Samsung XND-6080R
Samsung XND-6080RN
Samsung XND-6080RV
Samsung XND-6080V
Samsung XND-8010R
Samsung XND-8020R
Samsung XND-8030R
Samsung XND-8080R
Samsung XND-8080RN
Samsung XND-8080RV
Samsung XNO-6010R
Samsung XNO-6020R
Samsung XNO-6080R
Samsung XNO-8010R
Samsung XNO-8020R
Samsung XNO-8030R
Samsung XNO-8080R
Samsung XNP-6370RH
Samsung XNV-6010N
Samsung XNV-6020R
Samsung XNV-6080
Samsung XNV-6080N
Samsung XNV-6080R
Samsung XNV-6080RN
Samsung XNV-8010R
Samsung XNV-8020R
Samsung XNV-8030R
Samsung XNV-8080R
Samsung XNV-8080RN
SECO DVR 16C CH
SECO DVR 8C CH
Securicorp SCL-FBX02VF-SL24LDC

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Securicorp SCL-FBX02VF-SL24UDC
Securicorp SCL-MDM02FFIR-PV21D
Securicorp SCL-MDM02FFIR-WD22VDP
Securicorp SCL-OBL02MVIR-SL26UD04X
Securicorp SCL-OBL02MVIR-SL26UD10X
Securicorp SCL-OBL02MVIR-SL26UDZ
Securicorp SCL-OBL02MVIR-WD22PDZ
Securicorp SCL-OBL02VFIR-BE22D
Securicorp SCL-OBL04MVIR-WD42PDZ
Securicorp SCL-OBL04VFIR-WD42PD
Securicorp SCL-SDM02MVIR-DP2230X
Securicorp SCL-SDM03MVIR-WD3533X
Securicorp SCL-VDM02MVIR-WD23VDZ
Securicorp SCL-VDM02VFIR-SV23D
Securicorp SCL-VDM02VFIR-WD23VD
Securicorp SCL-VDM04VFIR-WD43VD
Securicorp SCM-OBL02VFIR-LX99P
Securicorp SCM-SDM020MVIR-5630X
Securicorp SCM-VDM020VFIR-SX25P
Securicorp SCM-VDM02VFIR-LX88P
Securicorp SCP-MDM020FFIR-16AN
Securicorp SCP-OBA020FFAR-12ZN
Securicorp SCP-OBL020VFIR-04CN
Securicorp SCP-OBL020VFIR-46RN
Securicorp SCP-OBL020VFIR-WD04CN
Securicorp SCP-OBL020VFIR-WD46RN
Securicorp SCP-OBL02VFIR-66LN
Securicorp SCP-VDM020VFIR-17BN
Securicorp SCP-VDM020VFIR-20DP
Securicorp SCP-VDM020VFIR-85BN
Securicorp SCP-VDM020VFIR-WD17B
Securicorp SCP-VDM020VFIR-WD17BN
Securicorp SCP-VDM020VFIR-WD20DP
Securicorp SCP-VDM02VFIR-77LN
SG Security Power 16 ch
SG Security SGS3000A
SG Security SGS3004A
SG Security SGS3008A
Siera PRO 9020IP-2MPX
Siera PRO 9020IP-3MPX
Siera PRO 9020IP-5MPX
Siera PRO 9050IP-3MPX
Siera PRO 9050IP-5MPX
Siera PRO 9130IP
Siera SDR 1204HD
Siera SDR 1208HD
Siera SDR 1216-16
Siera SDR 1216HD
Siera SDR 1232HD
Siera SDR 1316HD
Siqura BC1103
Siqura BL1002F4-EI
Siqura BL1103M1-EI

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Siqura CD1002F2-EI
Siqura FD1002V1-EI;
Siqura FD1103M1-EI
Siqura FD1103M1-I
Siqura PD1103Z2-E
Siqura PD1103Z2-EI
Siqura TKH EVE ONE-468076
SkyVision RJ-SK2.0PTZ-26X
Sony SNC-VM772R
Squilla SQL-1510-MBE
Squilla SQL-1510-MDOI
Squilla SQL-1520-BESM
Squilla SQL-1520-DOI
Squilla SQL-1520-PTZ18X
Sunell SN-TPC4200K/F
Surveon CAM2441SC
Surveon CAM3351R4
Surveon CAM3351R6
Surveon CAM6471EZ
TEB TUB Camera
TecVoz DVR-8304B
TecVoz T1-LTVI16
TecVoz T1-SHY16
TecVoz T1STVI04
TecVoz T1-STVI16
TecVoz T1-TVI08c
TecVoz TD2304SS
TecVoz TD2308SS
TecVoz TD-2316ME
TecVoz TD-2316SS
TecVoz TD2416MD
TecVoz TD-9442E2
TecVoz TVZ AHD-1004
TecVoz TVZ AHD-1008
TecVoz TVZ AHD-1016
TecVoz TVZ HF04
TecVoz TVZ HF08
TecVoz TVZ HF16
TecVoz TVZ1004
TecVoz TW-E304
TecVoz TW-E308
TecVoz TW-E316
TecVoz TW-ICB130
TecVoz TW-ICB200
TecVoz TW-ICB400
TecVoz TW-ICB400v
TecVoz TW-IDM100
TecVoz TW-IDM130
TecVoz TW-IDM200
TecVoz TW-IDM400
TecVoz TW-IDM400v
TecVoz TW-ISP300IR
TecVoz TW-P3004

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TecVoz TW-P3008
TecVoz TW-P3016
TecVoz TW-P5032
Trivision NC-336PW
Ubiquiti UVC
Uniview DVS4116
Uniview IPC-2122SR3-PF28-B
Uniview IPC-2122SR3-PF36-B
Uniview IPC-2122SR3-PF40-B
Uniview IPC-2322EBR-DPZ28
Uniview IPC-2322EBR-P
Uniview IPC232E-IR3-PF36-DT
Uniview IPC-252ERA-X22DUG
Uniview IPC-312SR-VPF28
Uniview IPC-322ER3-DVPF28
Uniview IPC-3232ER-DV
Uniview IPC-3232ER-VS
Uniview IPC-3234SR-DV
Uniview IPC-3612ER3-PF28-B
Uniview IPC-6221LR-X20SP
Uniview IPC-6222ER-X30P
Uniview IPC-6222ER-X30P-B
Uniview IPC6242SL-X22
Uniview IPC6252SR-X22U
Uniview IPC-742SR9-PZ30-32G
Vacron VIT-UH825E
Venetian IP51075
Venetian IP-52128
Venetian IP53075
Venetian IP61075
Venetian IP-62350
Venetian IP-62362
Venetian IP63075
Venetian IP-FY6000
Venetian NVR VE-9904
Venetian NVR VE-9908
Venetian NVR VE-9916
Venetian VE-9916
Vid8 VD1648H
VideoTec UCHD1FTAZ00A
VIDO G70HD820AT
VIDO G70HD830
Vivotek FD8166A
Vivotek FD8166A-N
Vivotek FD8167A
Vivotek FD8169A
Vivotek FD816BA-HF2
Vivotek FD816BA-HT
Vivotek FD816B-HF2
Vivotek FD816B-HT
Vivotek FD8182-F2
Vivotek FD8367A
Vivotek FD8367A-V

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Vivotek FD8369A-V
Vivotek FD836BA-HTV
Vivotek FD836BA-HVF2
Vivotek FD836B-HVF2
Vivotek FD8382-ETV
Vivotek FD9171-HT
Vivotek FD9181-HT
Vivotek FD9381-EHTV
Vivotek FD9381-HTV
Vivotek FE8182
Vivotek FE9182-H
Vivotek FE9381-EHV
Vivotek FE9382-EHV
Vivotek IB8369A
Vivotek IB836BA-HF3
Vivotek IB836BA-HT
Vivotek IB9371-HT
Vivotek IB9381-HT
Vivotek IP8166
Vivotek IP9181-H
Vivotek MD8563-EHF2
Vivotek MS8391-EV
Vivotek SD9161-H
Vivotek SD9361-EHL
Vivotek SD9362-EHL
Vivotek SD9364-EHL
Vivotek VC8101
Vumii Sii AT V2
WCA DJ05CW130
WCA LBH30S130
WCA LBH30SL200
WCA LBW60L200
WCA PT7B022S200
WellCom DVS101474

### 2.2.2 I/O Devices

CodBox 8822
Commbox MIO-402
CommVerge COMM4IO
Fiber SenSys FD-322
Fiber SenSys FD-508
Fiber SenSys FD-525R
Optex PIE-1
ST Electronics AgilFence

## 2.3 Fixes

- Fixed a small issue in the management of connections that could cause memory access violation for invalid commands that were sent to the server
- The icons of I/O events (Alarm input) placed on a map would not "trigger" in case of an alarm
- The archiving system was sending 2 e-mails upon finish of the process if audio was being recorded along with video
- During media playback of multiple simultaneous cameras, the timeline of some cameras might not

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load
- Fixed a problem upon importing a list of license plates with empty lines or invalid characters like comma
- Fixed a problem in communication drivers of American Dynamics devices that could cause a failure in communication at each 1 hour and 10 minutes
- Fxied a problem in PTZ drivers of analog cameras that could cause the system to send repeated PTZ commands
- Fixed a profile in RTSP server that could cause decoding error for MJPEG video
- When minimizing a monitor of Surveillance Client it could not appear in System Tray in case multiple instances were open simultaneously in the same monitor when using manual mode
- Fixed an issue with memory management when closing Surveillance Client when a camera was still selected
- Fixed a thread leaking problem on media playback. This problem could create multiple "dead" threads in the server.
- The search of LPR records with advanced AND and OR filters, when applied, was ignoring the date and time filter
- The server could randomly lose licenses due to an error when reading its MAC address
- The bookmark search was repeating the results of records from multiple cameras
- Texts on maps would not be properly displayed when the map object was initially loaded on screen
- Fixed a small problem in HTTP audio output drivers that could lead the system to send plain PCM audio instead of encoded.
- Fixed a multi-thread deadlock issue in the relay system that could cause a total crash of the server.
- Fixed small translation issues
- The system could not read the parameters of an URL without sub-paths. Example: http://10.1.1.1:8055?parameter1=value1
- Fixed a problem in media playback using DGF-KB1000 keyboard that would show an "Invalid time" message during the selection of time range
- Some objects in the map would be deactivated after update to version 7.1
- Under I/O device registration, after adding a new output action script it was required to close the registration screen and open it again so the action would be available for selection on events of the same device
- After minimizing the Surveillance Client, the list of views (from objects list) could vanish
- The saved position of panomorph or fisheye cameras in surveillance views was not being loaded when these views were loaded from inside a timer view
- Fixed a problem that could hang the media playback when playing backwards
- The archiving system would not delete some empty old folders
- Fixed a problem that could cause crash the server during load in case the I/O of a camera was activated and an event with action to send e-mail with images from the camera was triggered
- The status of I/O device ports in Administration Client was starting with 0 instead of 1
- In maps registration, a warning message will be displayed in case the server is not licensed. In some cases this alert message could be hidden behind the editor screen.
- Fixed a problem that was preventing the printing of any report from Surveillance Client in Standard and Explorer editions
- Fixed a problem in ONVIF communication driver that would keep a camera not working after a connection break
- Zoom commands for dewarped images of Vivotek fisheye camears was not working
- Digifort HTTPS server was not working due to SSLv3 authentication. The authentication method was changed to TLS1.2
- During the download of data from recognized license plates in LPR search in Surveillance Client, the screen was not being properly updated
- Fixed a problem in LG communication drivers that could cause a server crash in case multiple cameras using this driver were not working
- Old Pelco models were no long working in version 7.1

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- The editor of audio groups in Surveillance Client was removing old items from the list when new items were being added
- When a camera was deleted from the system through Administration Client, this could cause a negative effect in Surveillance Client in case this camera was being watched, possibly causing the crash of the Surveillance Client
- Upon saving user groups in Administration Client, the maps with rights over the group were not being live-updated
- Fixed a problem with dewarping of Samsung fisheye cameras
- Fixed a problem in the RTSP parser that could lose transmission sync if the camera sent the control character "$" in a session ID
- Fixed a minor ONVIF compatibility issue with Axis cameras
- When exporting JPEG images in Surveillance Client of live or recorded cameras the system will now export to the correct file size
- When thousands of cameras (about 1500) are configured on a single server, the status of cameras above 1500 was not being updated on the Surveillance Client
- Fixed a problem in the RTSP server and RTSP drivers connecting to Digifort server that made it impossible to use media profiles with accented characters
- When the system sent an e-mail in the restore of communication with an equipment, the customized message configured in the event was not sent in the body of the e-mail
- The list of Surveillance Client objects did not allow double-clicking on views with the same name from different layouts (when set to display all views regardless of layout)
- Fixed an issue that could remove the privacy mask when close the camera in the privacy mask setting if the image was not yet displayed
- Fixed a problem that could corrupt unencrypted files after an encrypted exporting
- Fixed a problem of integration with Google Maps that could display script errors
- Fixed an issue with Verint communication drivers that was not doing the interlacing of 4CIF images
- Fixed an issue with positioning of multi-monitors when using full screen mode with multi-monitor in manual mode

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