Digifort Release Notes

Version 7.3.0.2

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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.



2 Version 7.3.0.2

Release date: August 04, 2020

2.1 Fixes

- When dragging a group of cameras that contain disabled cameras onto the monitoring screen, disabled cameras were being added even if the client was configured to not display disabled cameras in the object list
- Fixed a performance issue for 60FPS video playback
- Fixed an issue with Pelco drivers where old devices no longer work
- Fixed decoding of G.711 and G.726 that could fail on some devices
- OpenALPR vehicle classifier was not working
- Fixed a performance bottleneck issue in the API to generate live JPEG when the camera was set to 30 FPS and several users were accessing the command at the same time
- The design of some system reports has been changed to maintain the same visual identity as the others
- A day's video play was not showing the last 30 minutes of the period
- The alarm popup might not open in rare cases where objects from two or more servers with the same name generate the same event
- Fixed an issue with Axis edge recording drivers
- Fixed an issue where server edge analytic events were not being displayed for selection for recording by event
- Fixed some API issues
- Fixed translation issues
- When creating a camera using the Hebrew Admin Client, the media profile association was wrong
- General fixes in Media, PTZ, Edge Recording, Edge Analytics, LPR Edge and Events Drivers



3 Version 7.3.0.1

Release date: May 05, 2020

3.1 Fixes

• Fixed an issue in the analytics charts that could generate inconsistent results



4 Version 7.3.0.0

Release date: May the 4th (be with you), 2020

4.1 New features and improvements

4.1.1 Object Links

Professional, Enterprise

The new Object Links function provides a revolutionary new way to navigate between the system's cameras, facilitating and speeding up the operation of the system.

Object links allow you to create virtual links between different cameras and also to create event triggers overlaid on camera images.

The image below shows an example of using object links. Each camera on display has a link to other cameras in the image. By clicking on the link (represented here by semi-transparent arrows), the associated camera will be loaded, allowing quick navigation between cameras, for example, when following a person who is moving between the cameras.

It is also possible to associate events (And several other types of objects) in the images, such as Global Events that can be used to trigger I/O outputs to open doors and gates. In the image below, cameras 01 and 03 have buttons to physically open the gates.



Object links can also be used during video playback, making it an indispensable tool for analyzing recorded incidents.

In the Media Player, only links to cameras will be displayed.



Object links can be configured in the Zones or lcons format:



A zone is represented by a semi-transparent polygon in the image, which can be added for example in the outline of a door or gate, providing a visual representation that if the operator clicks on this gate, he will be able to see the image of the camera that is on the other side, or you can also open it.

The image below shows a white area, which is associated with a door, when you click on the door, the camera inside the room will be displayed.



Links can also be in the form of icons superimposed on the image. When creating a link with an icon, an editor will be displayed with several categories of icons that can be chosen to better represent the associated action.



Setting up the links is very easy. The link editor is found under the "Object Links" option in the camera's register. To create a link just drag and drop the desired object from the list of objects and the option to select the type of link will be displayed (zone or icon).

Close all	Object links	
Presets	Links to cameras and objects	
PTZ Patrol		
Auxiliary		
Joystick		
Menu control		
I/O		Cameras
Input		🗸 🗁 Teste
Output		> Client
Events		> ··· testew21
Communication		02 (People Co
Recording		05 (Entrada C
Motion detection		>== 06 (Recepção)
Audio level detection		<pre></pre>
Manual events	and a second	Size
Device events		
Privacy		
Privacy mask		Change Icon
Privacy mode		Modify Link
Advanced		
Object links		Check invalid links
Device settings	(Camera) 01	Connected (Local)

The links can be configured for any visual object in the system, any event (Global and Manual), camera presets and public views, providing great flexibility to the feature:



The Surveillance Client has several options to optimize the use of object links:



It is possible to define the transparency value of the links (with different values for zones and icons), configure the links to hide automatically and configure the actions when clicking on the links.

The system provides 3 types of actions when clicking on the links:

- Replace current object When executing the link, the current object on screen will be replaced by the link object
- Add object in empty space When executing the link, the linked object will be added to the next empty space on the screen (And a popup can be opened if there are no more empty spaces available)
- Open a popup with object A popup will open showing the linked object

You can configure how each action will be performed, with:

- Click
- Shift + Click
- Ctrl + Shift + Clique

It is also possible to drag and drop a link from a camera to a space on the screen, so the linked object will be added to the selected space. If the selected space is already filled by another object, it will be replaced by the new dragged object.

All of these actions can also be performed in the Media Player, making the evidence review process very practical and quick.

To see this new feature in action visit the videos available on our YouTube channel: <u>http://www.youtube.com/DigifortChannel</u>

https://www.youtube.com/playlist?list=PLFIhAF6oQd_qjUWb9Ri7XV955EhxweWgf

4.1.1.1 Sequence Export

Professional, Enterprise

The object links provide an excellent tool for navigation between cameras, however, to complete the cycle, we developed a new feature called Sequence Export, which can also be understood as "Suspect Tracking".

During video playback, it is possible to switch cameras with links, for example to follow a suspect between cameras. The sequence export allows the export of video together with the actions of switching cameras, that is, it is possible to create an export where the exported video player will automatically change the cameras, following the actions created by the operator during the export.

To create a sequence export, simply position the video at the beginning, select "Sequence Export" and click the "Start" button. From now on, all actions (changing cameras and views/styles) will be recorded, so now you can click on "Play" and change the cameras as needed. At the end of the session, just click "Stop" and the "Export" button will be enabled, and the export of the sequence can be completed.



With this, it is possible to create an exported sequence, where the Media Player will automatically switch between cameras, following the exact moment when the operator switched between cameras during the export session:



When opening the Media Player exported from a Sequence Export, the user will have the option to "Start Sequence", which will display the video in the way it was configured to be viewed, changing between

cameras automatically, or it can also start "Normal" where all the cameras that were part of the export will be displayed.

🍙 Digifort - Media Player	⊗
(algifort)	Ver. 7.3.0.0 ENTERPRISE Dev 8
Company name:	Resizing
Digifort - IP Surveillance System	Keep aspect ratio
Resposible:	Eill whole image area
admin (System administration account)	
Media time:	Billinear resizing
1/20/2020 3:22:03 PM - 1/20/2020 3:22:10 PM	
Description:	-Video Decoder
	Multi-threading for software decoding
	Use NVidia hardware decoding
Start Sequence Start Norm	nal Close

The sequence export does not necessarily need the object links configured, as it will also export if the cameras are switched manually, by dragging / dropping objects from the list.

NOTE: This feature will export all images from all cameras that are part of the sequence during the entire period of the sequence.

To see this new feature in action visit the videos available on our YouTube channel: <u>http://</u>www.youtube.com/DigifortChannel

https://www.youtube.com/watch? v=x1Ge6XsXDI0&list=PLFIhAF6oQd_qNQzD2TeE1Ph4VAxu89WNv&index=7&t=0s

4.1.2 Operational Maps

Professional, Enterprise

This is a powerful new feature that, through integration with Google Maps, allows the creation of navigation maps and event maps.

The navigation maps provide an overview with the geo-positioning of all the cameras in the system (which have geo-positioning enabled) and will allow access to these cameras through icons referenced on the map. If the Surveillance Client is connected to multiple servers, the operational map will concentrate and display objects from all servers automatically.

Event maps provide, in real time, the position of the event (if it is geo-referenced) on the map, when it occurs, creating a powerful visualization and navigation interface that offers a detailed view of the locations where events are taking place and allows the operator to access cameras close to an event, thereby speeding up response to the event.

Maps can be registered and configured to display a region of the globe automatically when placed on screen, thus allowing the creation of maps for different regions.

Event maps can also be configured to filter and display events from only a few categories and events can also be filtered by geo-location, that is, only events from a specific region will be populated on the map.

To see this new feature in action visit the videos available on our YouTube channel: <u>http://</u>www.youtube.com/DigifortChannel

https://www.youtube.com/playlist?list=PLFIhAF6oQd_op7kOm-gULjQj-JSK0qGDE

To use this feature, you will need to acquire a Google Maps JavaScript key. The station running the Surveillance Client also needs to have access to the internet to be able to work with the maps.



4.1.3 Camera Groups

All editions

The system now allows the creation of Camera Groups for better organization of objects.

Camera Groups can be configured on the Camera Registration screen. In the Administration Client we have a separate list for registering and managing groups, where the user can select multiple groups to filter the list of cameras. The group filter will also work on the camera status screen.

Camera Groups can also be synchronized between servers using the Master / Slave function.

In the Surveillance Client, the groups will be part of the list of objects and the cameras belonging to the groups will be added below them.

The Surveillance Client offers great flexibility to work with groups:

- You can drag and drop a group on the screen and the cameras in that group will be added to the monitoring.
- To add the cameras from the group and all the cameras from all the subgroups just press and hold the Shift button while dragging and dropping the desired group.
- You can drag and drop a group into the media player to play the group's cameras. To add the cameras of the subgroups just hold the Shift key while dragging and dropping.
- With the right mouse button on the group it is possible to playback all the cameras in the group and, if desired, the cameras of all subgroups as well.
- With the right mouse button on the group it is possible to send all cameras in the group to the virtual matrix, and if desired, the cameras of all subgroups as well.



To see this new feature in action visit the videos available on our YouTube channel: <u>http://</u><u>www.youtube.com/DigifortChannel</u>

https://www.youtube.com/watch?v=laNEKPyzdL0&list=PLFIhAF6oQd_rJjV3wEWHB8f0ZuzruvrOS

4.1.4 Protection against deleting recordings

Professional, Enterprise

The system now allows you to create locks against the natural exclusion of recordings, that is, the protected recordings of a period and specified cameras will not be deleted during the recycling of recordings as long as the lock exists.

To create a new recording lock just create a new bookmark with the desired period and select the option "Protect recordings against deletion" and a new protection record will be created for the cameras specified in the bookmark and the desired period. By default, the locking of recordings will be perpetual, unless the option "Add expiration date" is selected, in which case the locking will be deleted on the specified date and consequently the recordings will re-enter the recording recycling and will be deleted normally during maintenance of the videos.

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For added protection, the recording lock system, instead of preventing a recording file from being erased from the main disk, will copy the protected files to another secure folder (which may be on another disk drive) configured in the "Recordings" tab in the system options in the Administration Client. The file copy occurs only during the recycling process, that is, instead of deleting the file, the system will move the file to the protected folder, which prevents duplication of the recordings as the copy will only occur if the protected file is the oldest on the disk. This allows the primary recording disks not to be occupied by protected recordings that exceed the normal retention period, freeing up space for new recordings, while still providing record protection.

The playback of blocked videos (after being moved to the new folder) will be completely transparent to the user.

The system recording files are generated every 30 minutes of video, if a small block of time, for example 2 minutes, is locked, the entire 30 minute file will be protected. If the lock extends over multiple files, all files will be locked.

Add bookmark						8
• Objects	Servers	Title			Color Red	-
Search		Start date 1/15/2020	17:27:13	End date	▼ 17:27:1	.3
		Duration Days 0	Hours	Minutes 0	Seconds	;
		Observations				
		Protect recordi	ngs against deletior on Date (Delete aft	er this date)		
Add cameras	Delete cameras	1/15/2020	-			
				C	ж	Cancel

Adding new write protection via bookmark:

Search for protected videos with report and quick access for playback:

	Recording Protection					
						Manage filters
	Initial Date	Final Date	Expiration	Description	Camera	User
	1/1/2020 10:15:36 PM	1/2/2020 12:25:12 AM		Car crash	40	admin
	1/14/2020 8:08:24 PM	1/14/2020 9:56:24 PM		Robbery	40	admin
	Search				Report	Video
						Close
Se	arch Complete				Total Record	is: 2 //

Directory configuration of protected recordings in the system settings in the Administration Client:

Recording Protection	
Storage Directory of Protected Recordings	
E:\Recordings\Lock\	

4.1.5 Web browser built into the Surveillance Client

Standard, Professional, Enterprise

The Surveillance Client now has a built-in web browser. Through the new "Web Page" objects, registered through the Administration Client, it is possible to add pre-configured links to web pages or web systems that can be accessed by the system operators.

Examples of using the integrated browser:

- Integrate third-party web systems into the same camera management interface. Systems such as
 access controls, alarm controls, face recognition, among others, can now be opened and operated
 through the Surveillance Client
- Display dashboards on a video wall or operator stations
- Access predefined sites
- Free navigation

The pages can be registered in the Administration Client through the registration of Web Pages. The Web Page objects have access rights by user and user group, allowing full control of access rights.

Name	Description
C2P	C2P Integration
Digifort	Digifort website
New	
SAFR SAFR	Face Recognition
💷 Video Synopsis	Video Synopsis Interface

In the Surveillance Client, the operator will have access to the web pages he is entitled to through the list of objects:



The browser associated with the pre-registered pages will not provide the address bar, preventing the operator from accessing any website or page other than the specified page, however, it is possible to show the address bar for free browsing by creating a web page object with blank address, in this case, when the operator places this object on screen, the browser will provide the address bar for navigation.

We use the Chromium browser by default, which is already embedded in the Surveillance Client, but it is possible to use the native Windows Internet Explorer 11 by changing the browser option in the Surveillance Client options.



To see this new feature in action visit the videos available on our YouTube channel: <u>http://</u>www.youtube.com/DigifortChannel

https://www.youtube.com/watch?v=ni8wkDQYOel&list=PLFlhAF6oQd_rJjV3wEWHB8f0ZuzruvrOS

4.1.6 Video decoding via NVidia GPU

All editions

For higher system performance, it is now possible to use video decoding acceleration through NVidia cards.

Video decoding via the NVidia GPU will dramatically reduce the monitoring station's CPU usage, allowing for a larger number of cameras to decode in parallel.

We recommend using at least 1 video card of the Pascal architecture (At least one GTX 1060).

For more information on NVidia video card compatibility visit this link: <u>https://developer.nvidia.com/video-encode-decode-gpu-support-matrix#Decoder</u>

Decoding via the NVidia GPU is only available on the 64bit Surveillance Client (Surveillance64.exe) and requires the installation of the official NVidia drivers: <u>https://www.nvidia.com/Download/index.aspx?</u> lang=en-us It is possible to use 2 or more video cards for decoding, and the system will balance the decoding load between the available NVidia video cards.

The system also implements a video card resource monitor, where it will constantly evaluate GPU usage and GPU memory usage. If the GPU or memory usage is above the configured limit, the system will start offloading and decoding via CPU (Software) will be used.

Currently the video decoding option via the NVidia GPU is only available in the Surveillance Client and the native exported Player, and is not available for use on the server.

Each camera instance being decoded (Regardless of the resolution used) will use about 200 ~ 250MB of GPU memory.



4.1.7 Field of View of Cameras on Synoptic Map

Standard, Professional, Enterprise

The synoptic map system now allows the visual representation of a field of view of the cameras to be displayed. It is possible to configure the field of view for any camera on the synoptic map.

The field of view feature is only available for Synoptic Maps and is not available for Operational Maps.

A.
line Map registration — 🗆 🗙
Map View Rights
Maps manager
Name Map Description 1853 Latitude 26.358229 Longitude 60.247513 10 Activate map Activate map
Toolbar Text format
Fill color Size Zayer Options Field of View
□ White > 8 □ Italic Calibrate Live Field of View □ Italic □ Italic Minimum Zoom Angle Maximum Zoom Angle
Add Image Add Text Show text
Check invalid links Distance Minimum zoom Distance Maximum Zoom Distance
Image: Comparison of the second secon
OK Cancel
onnected (Local)

To see this new feature in action visit the videos available on our YouTube channel: <u>http://</u>www.youtube.com/DigifortChannel

https://www.youtube.com/watch?v=pEwgc12a8zE&list=PLFIhAF6oQd_rJjV3wEWHB8f0ZuzruvrOS

4.1.8 Real-time feedback of PTZ position on synoptic map

Standard, Professional, Enterprise

The synoptic map system now allows real-time representation of the current position of the PTZ camera.

NOTE: This feature is currently only available for a very limited number of cameras.

When configuring the objects on the synoptic map, just activate the "Live Feedback" function (if available) and calibrate the initial position (Current position), so the system will have this position as a reference based on its current coordinates.

The PAN position will be represented by rotating the camera on the map:

Layer Options	Field of View		
Fixed car	mera	~	ive Feedback Activate Live Feedback
Size 48x48	Color	~	Calibrate Initial Position

The system also allows an approximate live representation of the current field of view (Zoom), simply setting the minimum angle and distances (When the camera is at minimum zoom) and maximum angle and distances (When the camera is at maximum zoom)





To see this new feature in action visit the videos available on our YouTube channel: <u>http://</u>www.youtube.com/DigifortChannel

https://www.youtube.com/watch?v=RoscPmmiZbk&list=PLFlhAF6oQd_rJjV3wEWHB8f0ZuzruvrOS

4.1.9 Cameras Events

30

Standard, Professional, Enterprise

The system now implements a new architecture for custom camera events. Some devices have events that do not fit into any pre-defined category of the system, so we created this architecture to be able to support different types of camera events.

For example, integrated Intercomm devices will provide the "Intercomm call button" event that will be triggered when someone rings the equipment bell, and you can configure event actions associated with these custom events.

amera registration (Axis)			
Close all		Device events	
Presets	^	Tevice event settings	
PTZ Patrol			
Auxiliary		Activate the processing of device events	
Joystick		☐ Intercom call button	
Menu control			
∀ I/O			
Input			
Output			
Communication			
Recording	_		
Motion detection			
Audio level detection			
Manual events			
Device events			
Privacy mask		Selected event settings	
Privacy mode		Event re-triggering time	
		10 Seconds	
Object links		Event actions	
Device settings			
		OK Canal	
	~	UK Cancel	

The new device event architecture also natively integrates motion detection events. The device motion detection event will be integrated transparently, and will not appear in the event list, but you will have the option to select "Use device motion detection" on the camera's motion sensor configuration screen. This will cause the system to use the device's motion detection events instead of the motion sensor via software, saving server CPU processing.

Camera registration (Axis)		
Close all		Motion detection
Seneral	î	Rotion detection settings
Lens		O Use software motion detection
Audio		Decode and use only I-Frames for motion detection Use an alternate media profile for motion detection
Image filters		Recording V
Media profiles		Configure sensor
Recording		Use device motion detection
Live view		Use motion detection by external notification only
Settings		Motion detection end interval
Edge recording		
Metadata		Auto Deactivate
Archiving		Deactivate on preset
℅ Rights		Rearm time
Users		3 Seconds
Settings		
Presets		
PTZ Patrol		
Auxiliary		
Joystick	~	OK Cancel

Some DVRs / NVRs integrated into the system even provide events that can be triggered in the event of a disk failure or loss of the analog signal:

Activate the processing of device events			
Device disk failure			
🗹 Video Loss			

As with most camera configurations, you can also configure actions for multiple camera events (which share the same event driver) simultaneously:



Tip: You can select all cameras that have the same event driver as the selected camera using the shortcut CTRL + E, so you can change all of them simultaneously.

4.1.10 Advanced Device Settings

Standard, Professional, Enterprise

With the new Advanced Device Settings feature, you can configure camera parameters (usually streaming parameters) and apply the settings to multiple cameras simultaneously.

The vast majority of camera manufacturers do not allow dynamic image streaming, which allows VMS to request images in a certain configuration (Resolution, Frame Rate, Bitrate, etc.) dynamically, that is, these settings are fixed on the camera and the VMS can only request a pre-configured stream.

To facilitate the configuration of the cameras, we have developed an advanced configuration feature, where the system can manipulate these fixed camera configurations through the Administration Client interface, without having to open the browser and configure the cameras manually. The best thing about this feature is that you can apply the desired changes (such as resolution, bitrate, codec ...) to several cameras at the same time (as long as they are from the same manufacturer and have the same

configuration driver).

The advanced settings can be accessed through the "Device Settings" menu in the camera registration (For individual change):

Object links			
Device settings			

Or it can be accessed through the selection of multiple cameras and the option "Advanced device settings" with the right click of the mouse on the selected cameras:

Name	Description	Firmware	Address	Port
📟 Cam 01	Monitoring camera 1	0.50	10.1.39.228	80
Cam 02	Monitoring camera 2	0.50		443
	Activate camera			
	Deactivate camera			
	Duplicate			
	Recording schedule			
	I/O Scheduling			
	Alarm buffer			
	Snapshot buffer			
	Connection	>		
	Events	>		
	PTZ	>		
	Disk limit			
	Recording Directory			
	Archiving			
	Recording type			
	Edge recording			
	Metadata recording			
	Motion detection			
	Privacy mode			
	Relay			
	Advanced device settings			
	Media profiles	>		
	Grant rights			
	Deny rights			

The camera settings will be downloaded (Only image, audio and streaming settings can be configured)

and you can change the desired parameters.

In the upper combo you can choose a reference camera (from which the system will download the settings and display) and when saving the settings, the system will only save the changed parameters (which are identified through the selected checkbox next to the changed option) : Advanced device settings

Advanced device settings		
Source device for settings Cam 01 Cam 01 Cam 02 Cam Camera setup 	 Encoding type H264 Resolution 1920x1080 Frame rate (1 - 50) 25 Compression level (1 - 10) 10 Bitrate (256 - 30720) 6144 Bitrate control VBR Encoding priority FrameRate GOV length (1 - 240) 13 Entropy Coding CABAC 	
Reload		Save
omplete		

The system will then save the changed parameters for all cameras:

Saving device settings		
General status		Details
Device	Status	Details
Cam 01	Parameters saved successfully	(Cam 01) Saved: videoprofile&Channel=0&Profile=1&Resolution=1280x720
Cam 02	Parameters saved successfully	(Cam 01) Parameters saved successfully
		(Cam 02) Saved: videoprofile&Channel=0&Profile=1&Resolution=1280x720
		(Cam 02) Parameters saved successfully
		Advanced device settings X
		Parameters saved successfully
		ОК
		Close

If any configuration fails to save, the system will inform you with an error message, however it will try to save all changed settings. A setting can fail to be changed if the camera does not support the parameter (When a parameter is being recorded on multiple cameras at the same time):

eneral status		Details
Device	Status	Details
Cam 01	Parameters saved successfully	(Cam 02) Error saving: videoprofile&Channel=0&Profile=1&EncodingType=H265
Cam 02	Error saving the parameters	Cam 02) Error saving the parameters
		(Cam 01) Saved: videoprofile&Channel=0&Profile=1&EncodingType=H265
		(Cam 01) Parameters saved successfully
		Advanced device settings X
		Some parameters failed to save
		ОК
		Close

Tip: You can select all cameras that have the same configuration driver as the selected camera using the shortcut CTRL + S, so you can change all of them simultaneously.

To see this new feature in action visit the videos available on our YouTube channel: <u>http://</u>www.youtube.com/DigifortChannel

https://www.youtube.com/watch?v=tNCTZjVaBXg&list=PLFIhAF6oQd_rJjV3wEWHB8f0ZuzruvrOS

4.1.11 Edge Video Playback

36

Professional, Enterprise

The new Edge Video Playback feature allows video playback to be downloaded directly from the device's edge recordings.

This new feature expands the current Edge Recording system (which allows you to download recordings stored on the cameras), with this, it is possible to playback the recordings from any device that has Edge Recording integrated into the system (Check our support page for supported equipment).

It is also possible to play video recorded on supported DVRs / NVRs, thus enabling the use of distributed recording, since it is possible to view the recordings directly from the equipment.

To play the recordings on the edge, just right-click on the image of a camera or item in the list of objects and if the devices support Edge Recording select the option "Media playback on edge", and the submenu of options of playback will be displayed. The system also allows the playback of multiple cameras on the edge, thus allowing the playback of several cameras from a DVR / NVR simultaneously.

	Instant Review Media playback (Single camera) Edge media playback (Single camera) Media playback (Multiple cameras) Edge media playback (Multiple cameras) Video Synopsis	> > > > > >	30 seconds ago 1 minute ago 5 minutes ago 15 minutes ago	
to and	Video Synopsis - New Case		30 minutes ago	
90	Create Bookmark		1 hour ago	
1 miles	Virtual Matrix - Show at Virtual Matrix - Show all objects at	>	12 hours ago	
2	Media profile	>	1 day ago 3 days ago	
inter-	Manual Events Screenshot	>	1 week ago 2 weeks ago	
1	Motion Detection	>	Customized	
	Image Filters		Archived recordings	
100	Freeze Image		Archived recordings	
EL GI	Remove Object			
	and the second			

Video playback will be transparent to the user and all the features of the video player are also available for playing edge video:


To see this new feature in action visit the videos available on our YouTube channel: <u>http://</u><u>www.youtube.com/DigifortChannel</u>

https://www.youtube.com/watch?v=nOW_tVXzrY&list=PLFIhAF6oQd_rJjV3wEWHB8f0ZuzruvrOS

4.1.12 Event Variables

All editions

The new Event Variables feature allows the use of dynamic variable values within event actions.

The value of the Event Variable can be accessed through the reference of the variable name, using a variable name identifier: \$(VARIABLE_NAME)

Each event in the system introduces different types of variables whose values &an be used in event actions.

The following event actions support the use of variables:

- Send Email
- Send Message to the Operator
- Send HTTP Request
- Create Bookmark

In the example below, an email will be sent automatically with data specific to the LPR event that includes the license plate number and the name of the driver if the recognized license plate is marked as stolen:

vent action (Send e-mail)			
E-Mail			
Configure e-mail sending			
E-mail group: Emails V Message:	✓ Include camera image Number of images (1 image per seco 1	nd prior to the event)	
Suspect of robbery Event Name: \$(EVENT_NAME), Camera: \$(CAMERA_NAME), License Plate: \$(LICENSE_PLATE), Driver Name: \$(PLATE_OWNER), Details: \$(PLATE_REMARKS), Lists} \$(PLATE_LISTS)	Available objects	Selected objects	
SMS: © Use default SMS message O Use custom SMS message	Include link for event playback	ort User	Password
			OK Cancel

It can be configured for messages sent to system operators, adding valuable information to the alarm popup:

Event action (Send message) ×
Message
Configure operator message
Message:
Suspect of robbery
Event Name: \$(EVENT_NAME) Camera: \$(CAMERA_NAME) License Plate: \$(LICENSE_PLATE) Name: \$(PLATE_OWNER) Details: \$(PLATE_REMARKS) Lists: \$(PLATE_LISTS)
OK Cancel

In the following example we can create a bookmark with the recognized license plate value, which will be displayed on the video player:

Event action (Creat	e bookmark)		3			
Bookmark						
Configure	bookmark creatior	n options				
Title		Color				
\$(LICENSE_PLATE	E)	Red	~			
Hours	Minutes	Second	ls			
0	0	e 0	•			
Create a bookmar of the event until	k with start date/ti the time of the eve	ime of 0 seconds p ent	prior to the time			
V Camera	a					
)					
A.4	4	Dela	ta			
Au	u	Dele	le			
		OK	Consul			
		OK	Cancel			



To receive the complete document with all system event variables, please contact our support team.

4.1.13 Comprehensive Audit

All editions

Auditing user actions now has much more details about changes to the system. Any changes made to any object will now be recorded in the audit log details. For example, if a user changes a camera's recording directory, or the configured retention time, this information will be detailed in the audit log, including the old values **a**nd the new values.

Comprehensive Auditing is applied to all system objects, including server configurations, thus making the audit tool super powerful for recording and identifying user actions on the system.

Critical fields such as password or binary fields (or data storage containers) that cannot be displayed in text will only be referred to as "changed" but their values **W**ill not be displayed, such as "Lens.Data" in the image below, where it has no value **B**ecause it is a field stored in binary format.

egory							
r action							
Modified Camera 01 User action Complement General.Directory: E:\Recordings\01\-> E:\Recordings\01-New\ General.Memo: MAC: 00:12:23:45:67:89 -> This camera was installed for test Lens.Data Lens.LensType: 0 -> 1 MotionDetection.Profile.UseProfile: False -> True							
:go r a							

4.1.14 Multi-server auditing on the Surveillance Client

All editions

The audit search was added in the Surveillance Client (A simpler version is still found in the Administration Client) and allows for audit search on multiple servers, new record filters and option to print the report.

8							M	anage
/14/2020 12:00:00 AM	Constanting (1996)	17.08.08.08		RTSP Server		User action	Camera out of order	
/14/2020 12:00:00 AM							The user does not have permission to login at this t	
/14/2020 12:00:00 AM						Connections to the serv	The user does not have permission to login at this t	
							The user does not have permission to login at this t	
							The user does not have permission to login at this t	
/14/2020 12:00:01 AM							The user does not have permission to login at this t	
/14/2020 12:00:04 AM								
/14/2020 12:00:04 AM								
/14/2020 12:00:05 AM						Connections to the serv	The user does not have permission to login at this t	
/14/2020 12:00:05 AM			Login	Server	1000000	Connections to the serv	The user does not have permission to login at this t	
earch								Repor
								Close



To see this new feature in action visit the videos available on our YouTube channel: <u>http://</u>www.youtube.com/DigifortChannel

https://www.youtube.com/watch?v=fmtiaaFDi_l&list=PLFIhAF6oQd_rJjV3wEWHB8f0ZuzruvrOS

4.1.15 General Surveillance Client interface improvements

4.1.15.1 Main screen design improvements

All editions

The main interface of the Surveillance Client has been modified for better viewing and accessibility.

Main changes:

- The bottom toolbar has been drastically reduced to provide a larger area for viewing objects
- The control bar has been enlarged, now it will occupy the entire space on the side instead of ending at

the same height as the bottom toolbar, providing greater area for viewing the list of objects

- The bookmark controls have been moved to the bottom toolbar
- New main menu. The main menu can be opened via the "Start Button" which is next to the screen style bar. The main menu contains access to all client modules and settings
- The Virtual Keyboard controls, Refresh Connections, Hide Controls, Minimize to Tray and Close have been moved to the main menu
- A memory usage indicator was added
- The object list control has been changed and now has a different design and high performance to display thousands of objects



4.1.15.2 Improvements in the design of filter screens

All editions

The design of the search filter screens (LPR, Analytics, Bookmark, Events, etc.) has been changed. The types of filters will now be presented in a list on the left side, with icons to identify each type of filter and the screens have been standardized with TreeView controls to allow different types of objects to be filtered.



4.1.15.3 Drag and drop from the main list into the Media Player

All editions

It is now possible to drag and drop "live" and objects from the object list to the media player, allowing you to add or change cameras within a running video session.

It is also possible to drag and drop special objects like LPR and Analytics directly to the media player, and the main camera associated with the object will be loaded into the player.



4.1.16 Cybersecurity

4.1.16.1 Record Encryption

All editions

The system now allows encryption of recordings with AES 128 or AES 256 algorithm. With this option all recordings on disk (data at rest) will be encrypted using the encryption key and configured algorithm, adding another layer of protection to the system.

This option will use a little more of the server's processor to perform the recording and also during the video playback, where the recordings will be decrypted.

ecording Encryption	
Activate Recording Encryption	
Method	
AES 256 bit	~
Key	
•••••	

4.1.16.2 Client Communication Encryption (TLS / SSL)

All editions

To add even more security, the system now allows secure communication between the Server and the Clients via SSL / TLS. An SSL certificate will be required for this feature.

This option will use a little more processor from Servers and Clients.

тс	P port for server communication:	
86	500	•
\checkmark	Secure communication via SSL	
	8400	•

4.1.16.3 Communication Encryption with Cameras (TLS / SSL)

All editions

For greater security of communication between the server and the cameras, the system now allows the use of SSL / TLS encryption with supported cameras.

Currently only a few camera brands / models will support this option.

Camera address	Port (80)
192.168.0.1	⇒ 80	•
Secure connection via SSL/TLS (Check con	nection port)	

4.1.16.4 2-Factor Authentication

All editions

For greater security, the system now allows the use of 2-factor authentication using the TOTP (Timebased One-Time Password algorithm).

The user can use any 2FA application compatible with this algorithm (Ex: Google Authenticator).

		-			and the set		
Me	mo	Gr	roups view		Rights View	1	
ACCOUNT	Biopass	Rights	Client	Policies	Ownership identification		
User	account						
er			P	assword	Confirm		
ric							
ser Descrip	tion						
(O	D						
(One-Tir	ne Password)				X		
-14	n 27 in a		Secret				Insert loken
-15	: Hu : r		7ROCGPFIB	Y27ZND6RVJU			Authentication Token
	W''2		Scan the QR	Code in your t	wo-factor authentication		Provide 2-factor authentication token
	c 6345		application o	r enter the pro	vided security key		
		SC 24					
		6.YS-1					Server:
	:Ca	X-5.					Local
8-9 I		6 - 6					Token
	77 R. M	ER PL					
		10 A . I					
		10 K			OK		
							OK Cancel
Account Ex	piration						
Account Ex	piration				\wedge		
Account Ex Never Expires	piration in:				\wedge		
Account Ex Never Expires Monda	piration in: ay , Decembe	r 30, 2019					
Account Ex Never Expires Monda	piration in: ay , Decembe	r 30,2019			A		
Account Ex Never Expires Monda Authentica	piration in: ay , Decembe	r 30,2019					
Account Ex Never Expires Monda Authentica Method	piration in: ay , Decembe	r 30,2019					
Account Ex Never Expires Monda Authentica Method Username	piration in: ay , Decembe tion and password	r 30, 2019			~		
Account Ex Never Expires Mond: Authentical Method Username	piration in: ay , Decembe tion and password	r 30, 2019			~ ~		
Account Ex Never Expires Mond Authentica Method Username OTP (Or	piration in: ay , Decembe tion and password ne-Time Passwo	r 30, 2019 rd)			× Key		

4.1.16.5 Force use of Strong Password

All editions

The system now allows users to use a strong password. A strong password must contain at least 8 characters and 3 of 4 characteristics below:

- Contain at least 1 lowercase character
- Contain at least 1 uppercase character
- Contain at least 1 number
- Contain at least 1 symbol

When activating the option to force use of strong password, new users can only be registered with strong password. The system also allows you to force a weak password change (if the user is currently using a weak password) at the user's next login via the Surveillance Client or Administration Client.

The use of strong password applies only to native users of the system and not to LDAP / Active Directory users, where the strong password requirement must be applied directly at the domain controller.

Security
Force the use of strong passwords for users
Force user to change weak password at next login

The password must contain 8 or more characters and 3 of the 4 characteristics below: - Have at least 1 uppercase letter - Have at least 1 lowercase letter - Have at least 1 number - Have at least 1 number - Have at least 1 symbol

4.1.16.6 Weak password warning

All editions

The system will now issue a weak password alert when the user accesses the server through the Administration Client with a password that does not reach the minimum security levels.

Attention		Х
	Your user password is too weak and should be changed for system security.	
	The password must contain 8 or more characters and 3 of the 4 characteristics below: - Have at least 1 uppercase letter - Have at least 1 lowercase letter - Have at least 1 number - Have at least 1 symbol	
	ОК]

4.1.16.7 RTSP with TLS / SSL

All editions

The system's RTSP Server now also supports TLS / SSL on port 322

4.1.16.8 Password for Mobile Camera devices

All editions

The Digifort Mobile Camera Pro app server that allows you to send live video from an Android / iOS mobile device to the Digifort server now allows you to define a password for each registered mobile device. This password must be provided within the app's settings and the app will only start streaming to the server if the provided password is correct. This prevents unauthorized people from streaming live video to the server.

M	lobile de	vice registration		x
	General			
		Mobile device registration		
	Name			
	Descript	tion		
	Passwor	rd		
	Activ	vate		
			ОК	Cancel

4.1.16.9 Multicast with SRTP

All editions

When the Surveillance Client connects to the server using SSL / TLS, the multicast media transmission to the client (if configured for multicast video transmission) will also be encrypted using the SRTP protocol.

4.1.17 Camera Status Screen

All editions

The design of the camera status screen has been extensively modified to provide more information. The screen is now unique (no longer contains the General and Status tabs) and has a powerful dashboard with an excellent status summary.

The new dashboard in the right corner of the screen replaces the previous design where 2 tabs (General and Details) were needed, and has all the information that was previously displayed on the "General" tab.

New information on the number of cameras recording has been added to the dashboard. This number will count all cameras configured to record (Continuous, By Motion or By Event) that are currently in operation. The camera will count towards this value even if it is not currently recording to disk (such as when configured to record by motion or event).

New recording rate information per disk unit has also been added to the dashboard. The system will now inform the recording rate (In MB/s and Mbits/s) of each disk unit and with this it is possible to check in detail the usage of recording band for each disk unit and diagnose possible problems of overload and unbalance.

The dashboard also implements information about the number of cameras configured to record and the number of cameras currently writing to disk.

The new status screen also allows the selection of custom columns with new information to be displayed

in the list (by right clicking on the list header) and sorting by any column in the list and it is also possible to export the current data to a file. CSV.

With the new Camera Groups feature, when selecting a group (or multiple groups), the records will be filtered to display only the cameras in the selected groups.

Opigifort - IP Surveillance System - Administration	ition Client							– ø ×
Server The recording server	Monitoring ver status supplies detailed information	about the functioning of the camera	is registered in the system	, such as active time, used netw	iork bandwidth, status of the alarr	m input ports, schedulings and disk usage.		
Y - 💭 Digfort	(All objects)	Name	Working	Address	Description	Bitrate	^	. 95
V - I Digifort		01	Yes			12.52 mbits/s		
 Recording Server 	Y - ist Floor	= *02	Yes			2.38 mbits/s		Total
- Status	Development	= *03	Yes			1.32 mbits/s		. 63
	Ground Floor	9 *04	Yes			204.57 kbits/s		
Edge recording	Dining hallKitchen	mm+ 05	Yes			172.00 kbits/s		Activated
> - met I/O Devices	Latam	*** 06	Yes			1.79 mbits/s		. 32
> - (Alerts and Events	Lobby	107	Yes			1.80 mbits/s		
> Z Users	Support	68 *08	Yes			1.74 mbits/s		Deactivated
Screenstyles	Home	99	Yes			293.29 kbits/s		. 57
Maps	Generator	mm* 10	Yes			476.97 kbits/s		
Coperational Maps	Technics	HE 11	Yes			1000.90 kbits/s		Working
License Diste Dessention	PR Indemoved	1 2	Yes			366.69 kbits/s		. 6
Web Paper	Training Room	= •13	Yes			673.43 kbits/s		
Setting		me 14	Yes			470.45 kbits/s		Not Working
Server Information		MM# 15	Yes			13.50 mbits/s		. 58
- A Web Server		16	Yes			967.60 kbits/s		
> (RTSP Server		= 17	Yes			2.74 mbits/s		Recording
- A Licenses		18 *18	Yes			4.32 mbits/s	60	1238
> - m Logs		m * 19	Yes			322.23 kbits/s	Ψ	1230
> -		20	Yes			915.16 kbits/s		Total FPS
> -		11 21	Yes			877.20 kbits/s	- 60	620
		22	Yes			1.71 mbits/s	Ψ	020
> Analytics		= *23	Yes			1.75 mbits/s		Recorded FPS
>- 🔚 UPR		m *24	Yes			1.08 mbits/s		0
> - Mobile Camera		mm+ 25	Yes			1.46 mbits/s	8	•
		*** 26	Yes			12.30 mbits/s		Highest recording buffer
		1 27	Yes			1.63 mbits/s		179 37 mbits/s
		= *28	Yes			1.91 mbits/s	· · · · · · · · · · · · · · · · · · ·	22.42 MB/s
		11 29	Yes			70.31 kbits/s		Total received data rate
		*** 30	Yes			977.21 kbits/s		11 48 MB/s
		3 2	Yes			135.47 kbits/s		91.84 mbits/s
		= 33	Yes			4.76 mbits/s		Total recording rate
		= *35	Yes			0 bits/s		11.48 MB/s
		*** 36	Yes			0 bits/s	8	91.84 mbits/s
		mm* 37	Yes			147.67 kbits/s	X:	2.41% Free
		==*38	Yes			0 bits/s		
		= 39	Yes			1.90 mbits/s	~	
		Show deactivated camera	s					
U 🙂 🙂 🖯		Show Dashboard					Export	
	Minth Development of the							

To see this new feature in action visit the videos available on our YouTube channel: <u>http://</u>www.youtube.com/DigifortChannel

https://www.youtube.com/watch?v=NQrCZ588Txc&list=PLFIhAF6oQd_rJjV3wEWHB8f0ZuzruvrOS

4.1.18 Status screens with extended columns

All editions

The Administration Client status screens now also allow the selection of extended columns for further status information on objects.

To select extended columns in the status screens, just right-click on the header of a list of object statuses and click on the "Select columns" option

The new status lists also allow the ordering of the records through any desired column, simply clicking on the column name to perform the ordering of the records.

Working	A.J.J
Ves	Select columns
ies	

Select columns		x
Select the columns to be displayed		
Description Activated Model Active Time Inactive Time Recorded Video Frames Recorded Audio Frames Recorded Bytes FPS Bitrate Recording Bitrate Device Events Status Edge Recording Engine Status Edge Recording Merge Status Recording days Estimated Recording Days Disk Limit Used Disk Recording Buffer		
	OK	Cancel

The status screens that support this feature are:

- Camera Status
- I/O Device Status
- Analytics Configuration Status
- LPR Configuration Status
- Failover Status

4.1.19 Exporting data from status screens

All editions

The Administration Client object status screens now allow you to export the data to a .CSV file.

All status screens now have a button named "Export" and the data will be exported including all selected columns.

Name	Working
01	Yes
<	>
☐ Show deactivated cameras ☑ Show Dashboard	Export

Screens with export button support:

- Camera Status
- I/O Device Status
- Analytics Configurations Status
- LPR Configurations Status
- Failover status
- Master / Slave connections
- Scheduled Events Status
- User Connection Status
- RTSP Connections Status
- Edge Recording Log

4.1.20 Event Action to send snapshots

Standard, Professional, Enterprise

A new Event Action was added to allow the display of snapshots from the moment the event was triggered, adding much more flexibility to alarm popups that only supported live objects.

The system also allows you to choose the number of images (1 image per second for each second before the event, including the image of the moment of the event) to be displayed in the alarm popup.

This function is particularly useful in combination with LPR Events, Analytics, Face Recognition, among other alarms, where the image of the moment of the event is necessary and not just the live video.

ns	Event Action (Show Snapshot)		
Configure event actions	Show Snapshots		
valable actions valable actions Send e-mail to a group of contacts Show objects to operator. The objects will be displayed in the same population of the same p	Scheduling Receivers" to speofy	vs snapshots from the event shot buffering must be enabled on selected coneras (1) mage per second before event) Selected objects V	
Configure receivers			_

4.1.21 Event Action to send audio to cameras

Standard, Professional, Enterprise

A new Event Action has been added to allow the sending of pre-recorded audio files to be played through the audio output of one or more cameras simultaneously.

With this feature, it is possible to configure personalized alarm messages (or use the alarms already provided with the system) to play in speakers connected to cameras in the event of an event or alarm, becoming a very useful tool for installations with alarms.

rent actions				8	
Actions				Eve	Event Action (Send Audio Clip)
Configure event actions				5	Send Audio Clip
Available actions Send e-mail to a group of contacts Send e-mail to a group of contacts Sense of the sense	targeted to a notification	Selected actions	on selected devices		Select an audo dip stored on the server Alkern03.wav Add File Concor Image: Selected objects Available objects Selected objects
Configure receivers					
			OK Cance		UK Cande

4.1.22 Event Action for HTTPS call

Professional, Enterprise

The Event Action of sending HTTP command now also supports HTTPS.

	Version 7.3.0.0
	L
Event action (HTTP Request)	Ī
HTTP Request	
Configure HTTP request	
Request type:	
UKL: https://192.168.1.1:443/Alarm?AlarmTest	
User:	
admin	
Password:	
••••	
Data:	
Test HTTP command test will be performed locally (Through the Administration Client)	
Test	
OK Cancel	

55

4.1.23 Send link for mobile playback in alert emails

All editions

Alert emails that include images from cameras will now include a "DeepLink" in the body in the email, where if the email is being viewed via an Android or iOS mobile device it will allow video playback of the event (By pressing the link) through the Mobile Client (If installed).



Digifort - IP Surveillance System MOTION DETECTION - 01

You are receiving this e-mail as the server is configured to notify you whenever there is motion in the recording of some camera.

Object data: Name: 01



Event data: Date: 1/20/2020 Hour: 6:36:08 PM

This e-

all was sent to:

4.1.24 Custom alert sounds

All editions

The system now allows the use of customized files of alert sounds to be played in the Surveillance Client.

A new alert audio playback time option has also been added to allow you to choose between Time and Loop.

Digifort - IP Surveillance System

Event action (Play sound)		×
Alert sound		
Configure alert sound	I	
Select an audio clip stored on Alarm01.wav	the server	Add File
Time (Seconds)	Time (Seconds)	
CLoop	5	
		OK Cancel

4.1.25 Centralized Surveillance Client configuration

Enterprise

The system now allows you to apply specific settings (or all) to the Surveillance Client according to the user login. You can adjust settings by user and user group.

In the user registration, or in the registration of user groups, a new Client Settings option will be displayed:

Me	mo	(Groups view		Rights View
Account	Biopass	Rights	Client	Policies	Ownership identification
Surv	veillance Client F	eatures			
Allow the Allow the Disable t Force ful Hide syst Deactiva Disable P Do not al	user to activat user to use scr e configuration screen em operation co te context men rint-Screen low the user to low the user to	e Local Recor eenshot is button of t ontrols us (Right mou close the sur minimize the	rding he Surveillanc use button) veillance dien surveillance d	e Client t	
JLock the	Default Fea	tures		Limi	ited Features
Disconr Inactivi 1	ty Time	oon inactivity s			
Language Change Portug	e default dient li uês (Brasil)	anguage			~
Client Sett	ings inherited group ustomized setti	settings ngs to Survei	lance Client		
			Settings Ed	litor	

The editor allows you to adjust the settings and values that will be applied to the Surveillance Client when the user logs in to the server.

The values follow the format of .INI files:

Settings Editor				
tings				
ungs				
Client Settinas Edita	r			
*				
General]				
efaultExportingPat	h=c:\temp			
ontrolBarPosition=	-1			
ocalRecordingForma	t=0			
HWDecoding]				
ntel_Activate=0				
Analvtics]				
etaRenderOptionLir	es=0			
etaRenderOptionZor	es=1			
				>
				>
				>

This is a way to force default settings for multiple Surveillance Clients in a centralized manner, facilitating the distribution and configuration of workstations, since their options can be changed in the user profile.

Configuration values @an be exported via the Surveillance Client settings export screen:



You can change any configuration value and apply it to the client through this editor. Use a settings file exported from the Surveillance Client as a reference for setting values to be added to the editor.

4.1.26 Centralized registration of servers in Surveillance Client

All editions

In installations with multiple servers, registering the servers at the monitoring stations can become a very complex job, and when there is an IP change or server addition, all clients must be changed.

To facilitate the registration of servers in Surveillance Clients, the system now allows the specification of a file (of a folder shared on the network) from where the Surveillance Client will load the registration of servers.

To use this feature, it is first necessary to define a file called Script.ini and save it in the Surveillance Client installation folder. This file will contain the server file path:

60



When the Surveillance Client opens, this file (if any) will be consulted and the system will try to open the referenced script file (which preference should be on a shared network drive, where all clients have access. You can also specify a URL for a file stored on a web server), if the file is located and opened successfully, the system will load the list of servers registered in this file.

With this method, when there is a server change (For example a new server or changed IP address), just change this central file and all clients will receive the update the next time they are loaded.

The file with the server definitions follows the format of the Surveillance Client script file:

ScriptSample.dssf - Notepad	-		×
Eile Edit Format View Help			
<digifortsurveillancescript version="1.0"></digifortsurveillancescript>			^
<pre><!---Add the servers (Optional)--> <!---Add the servers (Optional)--> <!---Add the servers (Optional)--> <!-----> <!--</th--><th>"" AutoConnect="True" AutoLogin="Fr</th><th>alse" /></th><th></th></pre>	"" AutoConnect="True" AutoLogin="Fr	alse" />	
Victory (2010)	1009/		~

An example script to load 3 servers:

Script.dssf - Notepad	-	×
Eile Edit Fgrmat View Help		
<digifortsurveillancescript version="1.0"></digifortsurveillancescript>		~
<servers exclusive="True"></servers>		
<pre><Server Name="Server1" Address="192.168.1.1" Port="8600" ConnectionMode="Internal" MediaReceiveMode="Unicast" Username="" Password="" AutoConnect="True" AutoLogin="False</pre></pre>	• />	
<Server Name="Server2" Address="192.168.1.2" Port="8600" ConnectionMode="Internal" MediaReceiveMode="Unicast" Username="" Password="" AutoConnect="True" AutoLogin="False</td> <td>• /></td> <td></td>	• />	
<Server Name="Server3" Address="192.168.1.3" Port="8600" ConnectionMode="Internal" MediaReceiveMode="Unicast" Username="" Password="" AutoConnect="True" AutoLogin="False</td> <td>• /></td> <td></td>	• />	

4.1.27 Instant Review

All editions

The new Instant Review function provides a quick way to playback a video with a pre-configured time period. This option is very useful for environments where quick viewing of events is necessary, such as in Casinos where the instant review of a fact is necessary.

Through clicking with the right mouse button on the camera or the list of cameras, the context popup will be displayed and the first option will be Instant Review, allowing quick access to the event.

It is also possible to start the instant review via F4 shortcut.

You can configure the time that the Instant Review will play:

· Last 5 seconds

- Last 10 seconds
- Last 15 seconds
- Last 20 seconds

And also a special "Instant Review with Backward Playback" option. This is becoming a fundamental tool for Casinos, since the playback will start at the current moment and will play the video backwards, allowing the visualization of a fact that occurred in a few moments.

Search	
🖃 🚍 Cameras	^
🗄 📩 1st Floor	
🗄 🧮 🤠 Ground Floor	
Home	
🗄 🚞 Underground	
Instant Review	
Media playback (Single camera)	>
Edge media playback (Single camera)	>
Virtual Matrix - Show at	>



To see this new feature in action visit the videos available on our YouTube channel: <u>http://</u>www.youtube.com/DigifortChannel

https://www.youtube.com/watch?v=o1wzJsFxsp8&list=PLFIhAF6oQd_rJjV3wEWHB8f0ZuzruvrOS

4.1.28 Virtual I/O

Standard, Professional, Enterprise

The new Virtual I/O Port feature can be used for advanced integrations between physical I/O inputs and software events.

Virtual I/O ports can be defined for I/O Devices or Camera I/O:

I/O Device	
General I/O Events Scheduling	
I/O device general data	
Name Description	
Virtual Ports ×	
Mā Virtual Ports Cc	Ltda
Mg Virtual Ports	Firmware
Int Virtual ports	Virtual Ports
Co Initial state Open ~	User Password
La' OK Cancel	Ŷ
Activate device	
	OK Cancel

With virtual I/O it is possible to combine one or more physical alarm inputs with one or more virtual I/O ports, with this it is possible to define for example that for an event to occur it is necessary that the alarm input is triggered (through physical input) and a software event occurs (for example an analytics, or an LPR event) and change the status of the virtual port

In the example below, we are specifying that the input event "Trigger alarm" will occur when port 1 of the device is closed and virtual port 1 is closed. Port 1 of the device will be closed through a dry contact (for example connected to a door, a motion sensor, temperature, etc.) and virtual door 1 will be activated through the analytics.

Alarm Input Events ×
Input Events
Alarm Input Events
Event Name
Trigger alarm
Event Description
Trigger alarm when port 1 is short and analytics detected a person
Latitude Longitude
0.000000
The event will occurs when:
Event The input port 1 is short The virtual port 1 is short
Add Modify Delete
Schedule when this event will be recognized:
Scheduling
Configure the actions to execute on event:
Configure Actions
OK Cancel

To activate the virtual port, you need to create an exit script that activates the port:

Output Actions	x			
Output Action				
Output Action				
Action Name				
Set virtual port				
Action Description				
Activate and Deactivate Virtual	Port			
Output Script				
Action	Parameter 1			
🏺 Activate	Virtual Port: 1			
🏺 Pause	5000 MS			
Deactivate Virtual Port: 1				
	¥			
Add Modify	Delete			
	OK Cancel			

And this script can be called by any system event, such as an analytics presence detection:

vent action (Activate output action)	2
Outputs	
Select the output actions to be execu	uted
V	Select the action
Teste	
Device	Action
Teste	Set virtual port
	OK Cancel

Virtual I/O is an excellent tool that can be explored to create complex automation and alarm scenarios combining logical and physical events. As it is a complex feature, if you have difficulty configuring it, please contact our support team and we will help you succeed.

4.1.29 Records Filter in the Administration Client

All editions

The Administration Client now has a search field (Filter) of records on all screens for registering objects such as cameras, I/O devices, users, registration of license plates, etc ...

This option greatly facilitates the administration of systems with many objects as it allows you to filter the objects by name or description.

Client parking		
Name	Description	General Memo
01	Client parking 1	This camera was installed for test

Some screens such as the registration plate also allow you to filter the records through the name of the owner or observations.

	🔎 digi					
Name Owner		Observations	Expiration			
DIQ6939 Digifort IP	Surveillance System	Digifort Business Car	No			
IMB2470 Digifort		Estação móvel de mo	No			
LJT6737 Digifort		Placa de testes	No			

4.1.30 GPS Coordinates and Audio Output for Mobile Camera Pro

Standard, Professional, Enterprise

The system now supports receiving the GPS position of Mobile Camera Pro devices, as well as bidirectional audio with Mobile Camera Pro.

NOTE: The Mobile Camera Pro app with these features is not yet available and will be updated after the final version 7.3 is released

4.1.31 Default analytics rendering options

Standard, Professional, Enterprise

You can now configure the default rendering options for analytics metadata. When an analytics object is added on screen (In the Surveillance Client), the options defined in these settings will be used by default. The user can also change the options for each object manually through the context menu by right-clicking on the analytics object.

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4.1.32 Master / Slave Synchronization Options

Professional, Enterprise

The system now allows the choice of which items will be synchronized between the Master / Slave servers

O Master server			
Slave server			
Master server address			
192.168.0.1	: 86	500	-
Master server admin password			
Items for synchronization			
✓ User			
✓ Screenstyle			
Alert contact			
🗹 Camera Group			
☑ License Plate			

4.1.33 User selection for Privacy Mask

All editions

The Privacy Mask can now be applied conditionally to specific users / groups of users.



4.1.34 Disconnect user due to inactivity

All editions

The system now allows you to configure a disconnect time due to inactivity for users / user groups. This function, when activated, will disconnect a user from the Surveillance Client if he has been inactive for longer than the configured limit.

Me	mo	0	Groups view		Rights View			
Account	Biopass	Rights	Client	Policies	Ownership identification			
Surveillance Client Features								
Allow the Allow the Disable th Force full Hide syste Deactivat Disable Pr Do not allo	user to activat user to use scr e configuration screen em operation co e context menu int-Screen ow the user to ow the user to	e Local Recor reenshot ns button of t ontrols us (Right mou close the sur minimize the	ding he Surveillanc ise button) veillance dien: surveillance d	e Client t				
Lock the v	vorkstation Default Fea	tures		Lim	ited Features			
Disconne Inactivity Inactivit	etection ect the user up y Time Minute	oon inactivity es						
anguage	default dient la	anguage						
Change Portugi	uês (Brasil)				~			
Client Settir	uês (Brasil) ngs nherited group ustomized setti	settings ngs to Surveil	lance Client		~			
Client Settir	uês (Brasil) ngs nherited group ustomized setti	settings ngs to Surveil	lance Client Settings Ed	itor	~			

When inactivity is detected, a message with a count of 60 seconds will be displayed to the user, he must then move the mouse, activate the keyboard or joystick to cancel the disconnection.



4.1.35 Google Maps event location in event search

Standard, Professional, Enterprise

Event Log in the Surveillance Client can now display the location of the event on a mini map.

👔 Event log						•
Search Reports						
					1	<u>Manage filters</u>
	Event type			Event duration		^
4/3/2020 1:13:08 PM	Motion Detection					
4/3/2020 1:13:19 PM	Motion Detection					
4/3/2020 1:13:38 PM	Motion Detection					
4/3/2020 1:14:07 PM	Motion Detection					
4/3/2020 1:14:17 PM	Motion Detection					
4/3/2020 1:14:28 PM	Motion Detection	40				
4/3/2020 1:14:51 PM	Motion Detection					
4/3/2020 1:15:26 PM	Motion Detection	40				
4/3/2020 1:15:59 PM	Motion Detection					
4/3/2020 1:16:11 PM	Motion Detection					
4/3/2020 1:16:21 PM	Motion Detection					
4/3/2020 1:16:48 PM	Motion Detection					
4/3/2020 1-17-19 PM	Motion Detection					
Search						Print
		Details of	the selected record			
■ ■ Motion Detection 31 Date: 4/3/202 ■ Camera: 40	0 1:15:26 PM	— 🛐 No action was tal	ken for the selected even		App Data 2160 m	A Automotive Second
				Show ev	ent on map	Video
						Close
Search complete					Total records: 311	

4.1.36 Records search will apply user rights

All editions

Searching for event, analytics, LPR and bookmark records in the Surveillance Client will now only return records of objects that the logged user has access to. Previously, when searching the event log, for example, all records of all objects were returned to the user, regardless of whether the user had access rights to the objects.

Some records such as Scheduled Events, Failover and I/O Device Events will be presented to all users as these objects do not have user rights.

4.1.37 Freeze live camera image

All editions

It is now possible to freeze the image from a live camera in the Surveillance Client by simply rightclicking on the image and selecting "Freeze Image"



4.1.38 Importing objects with a specific user

All editions

When importing objects from another server, the system now allows you to specify a user account to be used to import the objects. Previously it was necessary to specify the password for the Admin user.
port objects Import			
Import obje	ects from a remote server		
Server address: 192.168.0.1			 Port 8600
User user1		Password	
		Search	
Object	Туре	Description	

4.1.39 Recording Restore event

All editions

The cameras now have the "Recording Restore" event, which will be triggered when the camera successfully records again after a Recording Failure.

Close all		Recording	
Presets	^	Recording Events	
PTZ Patrol			
Auxiliary		If camera recording fails, the system can trigger various event actions.	
loystick			
1enu control		✓ Activate Recording Failure Event	
1/0		3600	
input			
Dutput		Event Actions	
Events		If comers recording rations to permit the system can bringer uprious quest actions	
Communication			
Recording		Activate Recording Restore Event	
Motion detection		Event Actions	
Audio level detection			
Manual events			
Device events			
Privacy			
Privacy mask			
Privacy mode			
Advanced			
Object links			
Device settings			

4.1.40 Server health monitoring event

All editions

The system now allows the configuration of server health monitoring events. With these events it is possible to monitor the CPU and memory usage of the system and trigger events in case of abnormality.

CPU monitoring will monitor the server's global CPU (and not just the system server process). It is possible to configure a usage limit and a time limit, where if the global CPU usage is above the limit configured for the specified time, then the event will be generated. A normal condition restore event (Below the threshold) can be triggered when CPU usage returns below the threshold.

RAM monitoring will monitor only the memory usage by the system server process (Server.exe). It is possible to configure a limit for memory usage by the server, where if the usage is above the configured limit, then the event will be generated. A normal condition restore event (Below the threshold) can be triggered when RAM usage returns below the threshold.



4.1.41 Option to manage disk space from deactivated cameras

All editions

The recording system now has the option of managing the disk space used by disabled cameras. Previously, if the camera was disabled, the recordings were not erased during recording recycling. With this option enabled, all disabled cameras will also enter the recording recycle and their recordings will be deleted according to the retention time. This option is important for failover servers (where cameras are usually disabled) and compliance with GDPR data protection laws that define the maximum image retention period.

General	Recordings	Master / Slave	Multicast	Backup	Database	SMTP settings	Disk Limits 🔹 🕨
Percenta	age of free sp	ace that the syst	tem must n	naintain w	vhen perforr	ming the record	ings
							5%
I.	1	1	ī	1	1		I.
🗌 Mana	ge used disk	space by deactiv	vated came	ras			
Use f	iles cache for	quick server sta	rtup				

4.1.42 Reuse login credentials on the Administration Client

All editions

To make managing multiple servers easier, the Administration Client will now reuse login credentials for all servers. If the login is successful on one server, when connecting to another server, these same credentials will be used automatically, facilitating the administration process since it will not be necessary to enter the login credentials for all servers. An exception is if 2-factor authentication is enabled, then it will be necessary to provide the 2-factor key at each login.

4.1.43 Active Directory User Synchronization

Professional, Enterprise

The server now allows users imported from Active Directory to be synchronized with the domain, that is, if the user is deleted from the domain, it will also be deleted from the system.

Active Directory
Keep imported Active Directory users synchronized
User for domain authentication
Password for domain authentication
Synchronization Interval

4.1.44 Camera Duplication

All editions

The Administration Client now allows you to duplicate the configurations of a camera to facilitate the registration of similar cameras with the same configurations.

This feature can also be used to create and maintain configuration templates.



4.1.45 General camera notes field

All editions

A new field for general camera notes has been added.

This field is free text and can be used to store any information relevant to the camera.

The field can also be displayed in the camera list through the extended columns and exported along with export of the camera list.

Camera registration									
Close all		General							
⊗ Camera	^	General camera settings							
General		Concrete camero sectariga							
Lens		Camera name	Camera d	escription					
Motion detection									
Audio		Manufacturer							
Image filters		3S Vision		ET Tech Inc.					
Streaming		Camera model			Firmware				
Media profiles		N1071		~	1.01 or greater		~		
Recording		Camera address		Port (80)	User	Password		Preferred transport	
Live view			⇒	80			æ	Auto	~
		Secure connection via SSL/TLS	(Check connectio	n port)					
Settings		Camera shortcut				Latitude		Longitude	
Edge recording						0.000000		0.000000	Ŷ
Metadata		Recording directory						Connection timeout (ms)	
Archiving								30000	-
℅ Rights		General Memo							
Users									
⇒ PTZ									
Settings									
Presets									\sim
PTZ Patrol		Activate camera							
Auxiliary									
Joystick	¥							OK Ca	ancel

4.1.46 General user notes field

All editions

A new field for general user notes has been added.

This field is free text and can be used to store any information relevant to the user.

The field can also be displayed in the user list through the extended columns and exported along with exporting the user list.

User registration					x
Account Biopass Memo	Rights G	Client roups view	Policies	Ownership id Rights Vie	entification ew
General Memo					
					^
					~
-			[ОК	Cancel

4.1.47 Archiving Scheduling

Professional, Enterprise

The archiving system now allows you to set up an operation schedule to determine when archiving will run.

The archiving system is an ongoing process, however it will only work during the scheduled period.

In addition, it is now also possible to configure how many days of recordings that the archiving will copy during its processing (Previously the archiving only copied the previous day).

Camera registration (01)	
Close all	Archiving
⊗ Camera General	Archiving system
Lens	□ Artivista suchiving for this sensors
Motion detection	Root archiving directory
Audio	E:\Archiving
Image filters	Keep the recordings in archiving directory for X day(s). X =
Streaming	60
Media profiles	Number of days to synchronize on archiving
Recording	1
Live view	Operation Schedule
	Archiving system alerts
Settings	Send alert in case of recording error
Edge recording	Send alert when the archiving is complete
Metadata	Alert group
Archiving	grupo 🗸
℅ Rights	
Users	
⊗ PTZ	
Settings	
Presets	
PTZ Patrol	
Auxiliary	
Joystick	✓ OK Cancel

4.1.48 Keep objects on screen when changing the layout

All editions

The Surveillance Client now has a new option to keep objects on screen when changing the layout, however, if the option "Remember the last selected view when changing layouts" is selected, then this option will have no effect.

_General		
Remember the last sele	cted view on system startup	
Remember the last sele	cted view when changing lay	puts
Keep objects on screen	when changing the layout	
Automatically open Surv	eillance Client during Operat	ing System startup
🔲 Hide toolbar on startup		
-Controls bar	_Toolbar	Screen
🔍 Left	🔍 Тор	Windowed
Right	Bottom	Full screen

4.1.49 Summary of Event Actions

All editions

It is now possible to view a summary of the actions configured for events. A new column called "Event Actions" is now available and will display all active actions for the event.

The event action summary has been added for:

- Global Events
- Manual Events
- Scheduled Events
- LPR Events

Name	Description	Latitude	Event Actions
🕢 Desativar		0.000000	(Activate or deactivate system objects)
🕢 Ativar		0.000000	(Activate or deactivate system objects)
🕢 Edge	Edge Recording	0.000000	(Download device recordings)
🕢 Teste Audio		0.000000	(Play alarm sound)
🕢 Teste 1		26.358269	(Play alarm sound), (Play audio clip)
🕢 Teste Audio1		0.000000	(Play audio clip)
🕢 Teste	tete	0.000000	(Show objects)

4.1.50 Disclaimer Message

All editions

The system now allows the display of a personalized legal notice message (Disclaimer) when opening the Surveillance Client or Administration Client. The user must click on "I Agree" to be able to use the system, otherwise the client will be closed.

To add a personalized legal warning message just add a file called "Disclaimer.htm" in the clients' installation folder.



4.1.51 Image and decoder options in the exported Player

All editions

The video media player exported in the native format now provides options for playing video:

- Resizing Options Allows you to configure the type of image resizing for better viewing
- Video Decoder Allows you to choose multi-threading options for decoder via software (For higher performance) and decoding via NVidia GPU (Only in Player64.exe)



4.1.52 PTZ usage schedule

All editions

The system now allows the configuration of a PTZ Use Schedule. The usage schedule defines the days and times when the system operators (with PTZ control rights) can move the configured camera.

For greater flexibility, the system also allows the configuration of a User Exclusion List, where the users or groups of users present in this list will not be part of the schedule and will be able to control the PTZ of the camera at any time.

Camera registration (01)	
Close all	Settings
Streaming	
Media profiles	P12 Control parameters
Recording	
Live view	Enable the PTZ controls for this camera
	Use device embedded PTZ control
Settings	Use the device COM port to control PTZ directly
Edge recording	Bosch OSRD 0
Metadata	Device COM port
Archiving	1
	PTZ usage
Users	PTZ usage time (If not used for more then X seconds, the system will notify the PTZ is no longer in use)
♦ PTZ	50 Seconds Exercised of the last user to use the PTZ
Settings	
Presets	PTZ lock
PTZ Patrol	Unlock the camera, if locked
Auxiliary	120 🖹 Seconds
Joystick	Unlock the camera when deselected
Menu control	Operation Scheduling
∀ I/O	The operation schedule allows you to configure when system operators can use the PTZ of this camera
Input	Attention: Scheduling will only be respected for viewing through RELAY
Output	Operation Scheduling Excluded Users from Schedule
Communication	V OK Cancel

4.1.53 Bookmarks Report

Professional, Enterprise

The Surveillance Client's Bookmarks search system now allows the printing of a Bookmarks Report

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🍙 Boo	kmarks						8
D	ate O						<u>Manage filters</u>
		Start date	End date	Observations		Recording	Protection 🔺
	VCA Detection	1/13/2020 2:50:37 AM	1/13/2020 2:50:40 AM		30, 29, 62		•
	Loitering	1/13/2020 7:20:32 AM	1/13/2020 7:20:39 AM		07		
	Social Gate Left Open	1/13/2020 7:54:14 AM	1/13/2020 7:54:14 AM		41, 03, 40, 04, 09		
	Intrusion Detected back	1/13/2020 7:59:15 AM	1/13/2020 7:59:18 AM				
	Intrusion Detected back	1/13/2020 7:59:22 AM	1/13/2020 7:59:25 AM				
-	Loitering	1/13/2020 8:00:41 AM	1/13/2020 8:00:48 AM				
	Intrusion Detected back	1/13/2020 8:08:04 AM	1/13/2020 8:08:07 AM				
-	Intrusion Detected back	1/13/2020 8:08:58 AM	1/13/2020 8:09:01 AM				
	Loitering	1/13/2020 8:18:02 AM	1/13/2020 8:18:09 AM				
-	Loitering	1/13/2020 8:18:59 AM	1/13/2020 8:19:06 AM				
-		1/13/2020 8:19:25 AM	1/13/2020 8:19:25 AM				
-	Intrusion Detected back	1/13/2020 8:22:59 AM	1/13/2020 8:23:02 AM				
-	Loitering	1/13/2020 8:28:16 AM	1/13/2020 8:28:23 AM				
	LPR-Digifort-Employee	1/13/2020 8:45:28 AM	1/13/2020 8:45:28 AM		29, 28		
	Intrusion Detected back	1/13/2020 8:58:32 AM	1/13/2020 8:58:35 AM				
- 1	VCA Detection	1/13/2020 8:58:42 AM	1/13/2020 8:58:45 AM		30, 29, 62		
-	Loitering	1/13/2020 9:00:02 AM	1/13/2020 9:00:09 AM				
- 1	VCA Detection	1/13/2020 9:02:45 AM	1/13/2020 9:02:48 AM		30, 29, 62		
	Garage	1/13/2020 9:02:52 AM	1/13/2020 9:02:52 AM				
-	VCA Detection	1/13/2020 9:03:19 AM	1/13/2020 9:03:22 AM		30, 29, 62		
	Garage	1/13/2020 9:03:20 AM	1/13/2020 9:03:20 AM				
-	VCA Detection	1/13/2020 9:03:29 AM	1/13/2020 9:03:32 AM		30, 29, 62		
	Intrusion Detected back	1/13/2020 9:03:30 AM	1/13/2020 9:03:33 AM				
-	Intrusion Detected back	1/13/2020 9:06:50 AM	1/13/2020 9:06:53 AM				
-	Loitering	1/13/2020 9:08:00 AM	1/13/2020 9:08:07 AM				
		1/13/2020 9·12·24 AM	1/13/2020 9·12·24 AM				▶
	Search					Print	Video
							Close
	complete					Total records: 108	lie

			Q Q + -	100%	•
		BO	OKMARKS LIST		
Poolmark e ol or					
Initial date	Final date	Title	Camera	User	Recording Protection
1/13/2020 1:25:38 PM	1/13/2020 1:25:40 PM	Intrusion Detected	02, 04, 09		
					Group total 1
					Group total: 1
Poolemark color					
Initial date	Final date	Title	Camera	User	Recording Protection
1/13/2020 7:54:15 AM	1/13/2020 7:54:15 AM	Social Gate Left Open	41, 03, 40, 04, 09		
					Group total 4
					Group total. I
Bookmark color					
Initial date	Final date	Title	Camera	User	Recording Protection
1/13/2020 11:51:49 A	M 1/13/2020 11:51:52 AM	Intrusion Detected back door	61, 29		
1/13/2020 11:09:04 A	M 1/13/2020 11:09:07 AM	Intrusion Detected back door	61, 29		
1/13/2020 12:26:21 F	M 1/13/2020 12:26:24 PM	Intrusion Detected back door	61, 29		
1/13/2020 12:03:06 F	M 1/13/2020 12:03:09 PM	Intrusion Detected back door	61, 29		
1/13/2020 12:02:48 F	M 1/13/2020 12:02:51 PM	Intrusion Detected back door	61, 29		
1/13/2020 10:53:07 A	M 1/13/2020 10:53:10 AM	Intrusion Detected back door	61, 29		
1/13/2020 9:59:31 AM	1 1/13/2020 9:59:34 AM	Intrusion Detected back door	61, 29		
1/13/2020 9:28:43 AM	1 1/13/2020 9:28:48 AM	Intrusion Detected back door	61, 29		
with and in a string of a state					Disident ID Descrillance Control
uniendcation code					Dignort - IP surveillance system
					Page 1/7

4.1.54 Option for standard zoom of the player timeline

All editions

The Surveillance Client now allows you to configure the default zoom of the video player's timeline, so when a video playback starts, the timeline will open with the zoom specified in the settings.

_Med Init	lia Play tial Tim	er Optio	ons oom					1	hour
						-y-		' Default	•

4.1.55 Local recording in MP4

All editions

The Surveillance Client now allows local emergency recording to be saved in MP4 format, now providing 2 formats: Native and MP4. The ActiveX preview control also supports local recording in MP4.



4.1.56 New Virtual Matrix right

Standard, Professional, Enterprise

The Virtual Matrix Use right has now been divided into 2 rights:

- Allow the Use of the Virtual Matrix Right that allows the operator to send objects to the Virtual Matrix monitors (Right that already exists).
- Allow Joining the Virtual Matrix Right that allows the operator to share the monitors of his workstation with the Virtual Matrix, expanding the Matrix (New Right).

Virtual Matrix	
Allow the use of Virtual Matrix Allow Joining the Virtual Matrix	

4.1.57 New right to Delete Bookmark

Professional, Enterprise

The system now has a new right to allow the user to delete Bookmarks. By default, the user who created a particular Bookmark already has the right to delete their Bookmark, this new right provides the possibility for a user to delete any Bookmark created by any user.

Bookmark	
Create bookmarks	
Remove Bookmarks	
Bookmarks visualization	

4.1.58 JPEG export with Frame Rate limit

All editions

The Media Player in the Surveillance Client now allows you to limit the frequency of the images exported in JPEG, that is, from the recorded video it is possible to export, for example, 1 JPEG per Second, or 1 JPEG per Minute of video instead of exporting all images.

This feature is especially useful for the creation of "accelerated construction" videos, where the same location is recorded for months and a final video is generated with a condensate of all months being shown in a few minutes or seconds. This tool, however, provides only the JPEG images exported at the desired frequency and not an MP4 or AVI video.

JPEG exporting options	Э
Options	
Quality	
Resize video	
Width Height Guide (Reference only)	
640 😂 480 😂 VGA 🔽	
✓ Keep aspect ratio	
Limit the frequency of exported images	
Eramo Data Matria	
OK Cancel	

4.1.59 Special I/O driver for PING

Standard, Professional, Enterprise

A special "I/O Device" driver has been created for monitoring hosts via PING.

Through the "Generic Ping" model in the I/O Devices register, it is possible to monitor any IP or host (for equipment monitoring, for example) and configure alarms and events when the host goes offline. It is also possible to add the status of the hosts on a Synoptic Map.

The driver has 1 input port, and this port will reflect the ping status. If the door is CLOSED, the host is functioning, if the door is OPEN, the host is not accessible.

The "host not working" alarm can be configured through the Alarm Input Events (Using Port 1) or also through the Communication Failure and Communication Restored events in the "I/O Device" register.

O Device (Ping Digifort)				x
General I/O Events S	cheduling			
I/O device general d	lata			
Name	Description			
Ping Digifort	www.digifort.com			
Manufacturer Generic ~	Generic			
Model		Firmware		
Ping	~	1.0		\sim
Inputs O	utputs			
1 0			Virtual Ports	
Connection address	Port	User	Password	_
www.digifort.com	⇒ 80 🚔			
Latitude	Longitude			
0.000000	0.000000	?		
Activate device				
			OK Canc	el

The image below exemplifies a simple use in the Synoptic Map to display the status of several hosts, in which case Site 1 is accessible and Site 2 is not accessible.

3 🛨 🗖 🦳 💬 🥸 zoom — 🕖 —	Ping map Ping map
	^
Site 1 Site 2	
<	>

4.1.60 Special I/O driver for TCP Connection Test

Standard, Professional, Enterprise

A special "I/O Device" driver has been created for monitoring hosts via TCP Connection.

Through the "Generic TCP Connection Test" model in the I/O Devices register, it is possible to monitor any TCP port (for monitoring equipment or services, for example) and configure alarms and events when the host goes offline. It is also possible to add the status of the hosts on a Synoptic Map.

The driver has 1 input port, and this port will reflect the status of the TCP Connection. If the door is CLOSED, the host is functioning, if the door is OPEN, the host is not accessible.

The out-of-order host alarm can be configured through the Alarm Input Events (Using Port 1) or also through the Communication Failure and Communication Restoration events in the "I/O Device" Register.

O Device (TCP 1)				x
General I/O Events	Scheduling			
I/O device genera	al data			
Name	Description			
TCP 1	TCP connection test			
Manufacturer				
Generic	✓ Generic			
Model		Firmware		
TCP Connection Test	~	1.0		\sim
Inputs	Outputs			
1	0		Virtual Ports	
Connection address	Port (80)	User	Password	
192.168.0.1	⇒ 8610 🚖			
Latitude	Longitude			
0.000000	0.000000	?		
Activate device				
			OK (Cancel

The image below exemplifies a simple use in the Synoptic Map to display the status of several hosts, in which case Site 1 is accessible and Site 2 is not accessible.



4.1.61 Changing the recording directory of multiple cameras

All editions

The Administration Client now allows changing the root directory for recording multiple cameras simultaneously. To change the recording directory just select the cameras, right-click on the camera list and select "Recording Directory" from the popup context menu.

The system allows you to define a "Root" directory that will be used as the basis for all cameras. The name of the last subdirectory (usually the name of the camera) will be kept. For example, if the camera is currently being recorded in "E:\Recordings\01" and you want to change it to "E:\NewRecordings", the system will change the directory of this specific camera to "E:\NewRecordings\01", and so on for all selected cameras.

It is important to note that changing the directory will not move recordings from old directories to new ones, this procedure must be done manually, with the server service stopped.

Name	Recording directory	
= •01	E:\Recordings\01\	
0 2	E:\Recordings\02\	
0 3	E:\Recordings\03\	
0 4	E:\Recordings\04\	
0 5	E:\Recordings\05\	
06	E:\Recordings\06\	
Recording Directory Se Recording Directory	ettings ×	н 1
Recording Di	rectory Settings	i2 ht∖ -
In case multiple came in all cameras by usir	eras are selected, the directory will be changed ng the last sub-directory name.	е∖ г
Recording Directory	 _	\ \ :o
	OK Cancel	ew\ >t

4.1.62 New bulk configuration options for cameras

All editions

Registering cameras in the Administration Client now provides new options for mass configuration of cameras:

- Change recording directory
- PTZ Options: Enable / Disable, Operation Schedule, Usage Notification, Auto Unlock

Name	^	Description		Recording direct	tory
		Client parking 1		E:\Recordings\0	1\
-	Activate camera	People Counter Teste (01)	E:\Recordings\0	2\	
-	Deactivate camera	Entrada Corredor 1		E:\Recordings\0	3\
-	Duplicate	Entrance micro camera		E:\Recordings\0	4\
	Recording schedule	Entrada Garagem		E:\Recordings\0	5\
-	VO Schaduling	Recepção		E:\Recordings\0	6\
-	1/O Scheduling	Axisw		E:\Recordings\Axis\ E:\Recordings\Axis H	
-	Alarm buffer	Axis Horn			
-	Snapshot buffer	Axis2		E:\Recordings\A	xis2\
-	Connection >	Axis H265		E:\Recordings\A	xisH2
-	Events >	Digifart Insight	1	E:\Recordings\I	nsight\
-	PTZ >	Activate / Deactivate control		E-\Decordings\L	PR C
-	Disk limit	Operation Scheduling >	Schedul	ing	W1\
-	Recording Directory	Usage notification	Exclude	d Users 💦	1obile\
-	Archiving	Auto unlock		E:\Recordings\V	LC T
-	Recording type	teste		E:\Recordings\T	'este∖
-	Edge recording	Teste		E:\Recordings\L	ocal\
-	Metadata recording	teste		E:\Recordings\J	FL-Co
-	Motion detection	Uniview		E:\Recordings\U	Iniview\
-	Privacy mode	videotec		E:\Recordings\V	/ideot
	Relay				
	Advanced device settings				
	Media profiles >				
	Grant rights				
	Deny rights				

• Change the video profile when selecting the camera in the Surveillance Client:

Advanced device settings			
Media profiles	>	Media profiles list	>
Grant rights Deny rights		Recording media profile Visualization media profile Mobile visualization media profile	
		Motion detection media profile	
		Change media profile on camera selection on client	

4.1.63 Changing the user type of multiple users

Professional, Enterprise

It is now possible to change the type of user account (Between Native and Active Directory) for multiple users selected in the Administration Client's user registry.



4.1.64 Fisheye / Panomorth in 64bit

All editions

The Fisheye and Panomorph dewarping libraries have been updated to work on the 64-bit Surveillance Client

4.1.65 API with JSON response

All editions

The system API now supports data return in JSON format.

4.1.66 ONVIF Profile G

All editions

The system now supports ONVIF Profile G with support for Edge Recording and Edge Playback.

4.1.67 ONVIF Profile T

All editions

The system now supports ONVIF Profile T with support for H.265 streaming, device configuration, HTTPS, analytics metadata and bi-directional audio.

4.1.68 Automatic database maintenance

All editions

The system now has automatic database maintenance. Maintenance can be scheduled to run weekly or monthly and set up to recompute indexes and clear old filter records. The recomputation of the indexes is essential to maintain the high performance of the database.

General	Recordings	Master / Slave	Multicast	Backup	Database	SMTP settings	Disk Limits	Network Units	• •
Recom The ta	pute Indexes sk of recomp	uting indexes sho	ould be per	formed p	eriodically to	o improve datab	ase performa	ance.	
Progre	ess (Stopped)								
	Start	Sto	þ						
Last R	un Date: 1/20)/2020 3:25:25 F	M						
Purge Old se	Old Search Fi arch filters ar	ilters re records of dele	eted syster	n objects	that appear	as a filtering op	tion in search	n screens.	
Progre	ss (Stopped)								
	Start	Sto	D						
Last R	un Date: 1/20)/2020 3:25:22 F	M						
Autom Rec Pury Sched Week Moo Tue Sched Sch	atic Maintena compute Index ge Old Search uling ly nday esday ednesday ursday day turday pday	nce Scheduling xes n Filters							
	Save Se	ettings							
* The	scheduled tas	sks will run befor	e the data	base back	up				

4.1.69 Playback block in Privacy Mode

Professional, Enterprise

Privacy Mode, when active, will now also block playback from the blocked camera. Previously only live

view was blocked.

4.1.70 Alignment grid in synoptic map editor

Standard, Professional, Enterprise

The Synoptic Map Editor in the Administration Client now allows you to display an alignment grid for better map design. The grid will be displayed only in the editor and can be adjusted for greater or lesser accuracy.



4.1.71 Status of objects on the synoptic map

Standard, Professional, Enterprise

The device status identifier on the synoptic maps has now been changed to reflect the current recording state.



- Identifies that the device is working and currently writing to disk
- Identifies that the device is working but is not currently writing to disk
- Identifies that the device is out of order

The absence of a status identifier indicates that the device is disabled.

4.1.72 Machine Code with QRCode

All editions

The licensing screen now has a QRCode to facilitate sending the password for servers without Internet access to our licensing team.

Add License
Licenses
Add License
Machine Code
Copy to clipboard
If you are not yet a Digifort client and wish to test the system click "Send Registration data" and fill in all data correctly to receive a demo license for 1 month.
Send Registration Data
Click "Online Licenses" to add your license via Internet. If you have just made the license request, this will take 1 to 2 workdays to be available in our server.
Online Licenses
If you received your license file by e-mail, click "Insert Licence File" to add the license to the system.
Insert License File
Close

4.1.73 Preferred transport option for connecting to cameras

All editions

In the registration of the system cameras, it is now possible to specify the preferred type of transport between the camera and the server:

- Auto Transport used will generally be TCP, unless during the integration of the device the performance was not satisfactory, so the transport will be done by UDP
- TCP Transport will be done by TCP when possible
- UDP Transport will be done by UDP when possible

Preferred transport	
Auto	~
Auto	
TCP	
UDP	
Longitude	

This option is a transport preference and not mandatory, that is, even configuring specifically in TCP or

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UDP, the system will not necessarily follow the configuration, as the device's media driver must support the desired protocol.

4.1.74 Minimum download time for Edge Recording Self Healing

Enterprise

The system now allows the adjustment of the minimum age of the recording to start the download via Edge Recording for "Self Healing" option. This value was pre-fixed at 10 minutes and it was not possible to change it.

When the Edge Recording system has a task (Download a recording), it will wait until the end time of this recording has at least X minutes (configured) to start the download, this is because it has been identified that some cameras need a longer time to close the recording file and if the system tries to download a period when the camera is not yet closed, it will return that there are no recordings.

Example: A task to download a video from 13:00:00 to 14:00:00 from a specific camera will start only at 14:10:00 to provide enough time for the camera to close the recording file.

Advanced		
Minimum	recording age to start download	
10	Minutes	

4.1.75 Improvement in the registration of Timer Views

All editions

The controls for the registration of timer views in the Surveillance Client have been improved to provide the standard list of objects for selecting and filtering objects, facilitating the registration of the views. Previously, a "Combo Box" was used for each type of object, and it was not allowed to filter objects.

Sequencing Views	8
Name of View	Configuration of Views Sequencing
Views	•
Analitico demos	
Objects Servers	
🤎 Search	
🗄 🚍 Cameras	
🗄 💽 Maps	
🗄 🕒 Analytics	
E 🚔 LPR	
⊞ 🛄 Web Page	
🗄 🎽 Operational Maps	
	▲ ● → ■
	Modify Move Up Move Down
Public view	OK Cancel

4.1.76 Option to remove the logo from alert emails

All editions

The system now allows you to remove the logo from the alert emails sent by the server.

This function is particularly useful for integration with systems that receive e-mail and collect alarm images, because when removing the logo, these external systems will extract only the alert images from the cameras, since the logo will not be added to e-mail.

E-mail customizat	ion	
Logo (55x55)	Title	
	Digifort - IP Surveillance System	
	Remove logo image from e-mail	

4.1.77 Sender of alert emails

All editions

The system now allows the configuration of the sender's name for alert emails. Previously the name "Digifort - Alerts" was used in a fixed way.

From (Name):
Digifort - Alerts
From (E-Mail):
digifort@digifort.com

4.1.78 Alarm popup border color

All editions

The Surveillance Client now provides the option for alarm popups to have a red or normal border.



4.1.79 Do not display server alert messages

All editions

The Surveillance Client now provides an option (Accessible in the Server Register) to disable alert messages sent by the server. Messages such as license warning and database alert will not be displayed if this option is enabled.

This option is particularly useful when the Surveillance Client is running on video wall stations, as these stations generally work without human interference and an alert message displayed on these stations would need to be closed manually.

Do not display server alert messages

4.1.80 Camera information in snapshots and export

All editions

The Surveillance Client now provides an option to add (or remove) the camera name, date and time to the exported image. Previously this information was added by default in exported images and in export in AVI / MP4.

For MP4 exporting, even if you activate this option, it may not be added to the final video if the original image to be exported is recorded in H.264, if the original video is in any other format or the option to Transcode to H.264 is activated during export to MP4, then the information will be rendered. This is due to the optimization of export to MP4 where it is not necessary to transcode the original video if it is already in the native H.264 format.



4.1.81 Open folder at the end of export

All editions

At the end of a video export in the Surveillance Client's Media Player, the system will now display a message providing the option to open the exported video folder in Windows Explorer.



4.1.82 Visual Joystick zoom button size

All editions

The size of the Visual Joystick zoom button in the Surveillance Client can now be increased by up to 300% to optimize use on Windows tablets.





4.1.83 MxPEG for Mobotix cameras

All editions

Integrated new MxPEG video codec for Mobotix cameras

4.1.84 Support for P2P services

All editions

The system is now able to access cameras via P2P services from camera manufacturers via the new "Device Cloud Bridge" service with a separate installation package.

Supported P2P services:

- Hikconnect
- IBCloud

4.1.85 Server connection verification time

All editions

The Surveillance Client now allows the specification of the "Ping" interval value between the Client and the Server.

This value is used to verify that the server is still available and functioning, if the server does not respond to the Client's ping message, then the connection will be terminated and restarted.

In case of using Failover servers, use lower values for the client to identify more quickly in case the main server becomes unavailable, so the change to the Failover server will occur faster.

This configuration is found in the server register, in the Surveillance Client settings.



4.1.86 Status of output and virtual ports on the Administration Client

Standard, Professional, Enterprise

It is now possible to view the status of the output I/O ports and virtual ports for Cameras and I/O Devices in the Administration Client.



4.1.87 Import / Export Surveillance Client settings

All editions

The Surveillance Client settings can now be exported and imported from .ini files. With this it is possible to create a configuration template to upload to other monitoring stations. It is also possible to export and import the server list (The server list is treated separately from the settings).



4.1.88 License expiration during business hours

All editions

When the system is running with a temporary license, the license will now expire only during business hours (Between 9:00 am and 4:00 pm, Monday through Thursday). This prevents the system from stopping (due to expired license) at inconvenient times.

Attention: If the license is already expired and the server is restarted after hours (For example, during the weekend), when loading the server again, the licenses will not be loaded.

4.1.89 Exporting audio to MP4 through API

All editions

Exporting video in MP4 format via API now also supports audio.

4.1.90 Timer Views and Screen Style Editor for all editions

All editions

The Timer View and Screen Style Editor features are now available for all editions of the system.

4.1.91 Features added in all editions

All editions

The following features have been added in all editions of the software:

- Advanced Video Playback Search
- PTZ control by USB Joystick
- Recording Schedule
- Motion Detection Event
- Event Action to Show Objects
- Event Action to Call Presets
- Live Motion Detection Filter
- Image Filters
- Image Printing in Video Playback

4.1.92 LPR

4.1.92.1 Plate Trace with Google Maps

Standard, Professional, Enterprise

The LPR records query system in the Surveillance Client now has integration with Google Maps, allowing you to display all the recognition points of a plate on the map, just by registering the GPS position of the LPR cameras.

The screen for plotting the LPR route will display all the points at which the plates informed in the search were found in the specified period and will connect the points through the time, and it is also possible to use the Google Maps route engine and plot a route between the recognized points, however for this feature to work correctly it is necessary that the plate has been recognized in several cameras to generate greater precision of the route.

This is an excellent feature for LPR installations in smart cities.



To see this new feature in action visit the videos available on our YouTube channel: <u>http://</u>www.youtube.com/DigifortChannel

https://www.youtube.com/watch?v=gC7U1GKiRdc&list=PLFlhAF6oQd_rJjV3wEWHB8f0ZuzruvrOS

4.1.92.2 Show plate cropping in results

Standard, Professional, Enterprise

The LPR record viewer (Live and Search) now allows the display of the recognized plate cutout.

In live records, the system allows you to choose between the cropping of the image or the virtual representation of the plate:



List of recognized plates Show system-generated plate im	nage
Show camera image cropping	
Details of the recognized or selecte	d plate
Show system-generated plate in	nage
Show camera image cropping	

In the details of a record in the LPR record search, it is possible to configure the display of both the card cutout and the virtual plate:



It is also possible to add the cutout of the plates in the printed LPR reports:

Report settings		8
Options Options Layout 1 Show camera image Layout 2 Show picture from surrounding cameras Show plate crop Include reliability chart	Records grouping Date Plate Camera Reliability LPR Configurations Hit Country	 Background color Category Plate list Owner Vehicle Classification Manufacturer Vehicle Color
Include hit chart	Plate color	OK Cancel

Report view						
		• • • C	<u> </u>			
			LICENSE PLAT	ESLISTING		٢
4/47/2020						
Date	License Plate	Country	Settings (Camera)	Lists	Owner	Camera
	QNK3341 Brazil		LPR - Frente Digifort	Rodizio final 1 e 2	ONK-3341	
High reliability					Τα	tal from group: 1
Medium reliability Low reliability	,					
No reliability						
Authentication code	555C-7D7D-0A2E-34	0BE-97B0-73F4-3FDE-4	47A		Digifort - IP Issue date:	Surveillance System 1/17/2020 10:15:22 AM Page 1 / 1

4.1.92.3 Country recognition support

Standard, Professional, Enterprise

The system now supports the recognition of the country of the recognized cards (if the LPR engine used supports this feature). The country will be added to the recognition results and can also be filtered through the new country filter.

h Reliability ch	nart Hit chart Trace map route	•							
			LPR configuration						
	1/17/2020 8:22:37 AM			Brazil	High		Rodizio final 9 e 0		
					High		Rodizio final 7 e 8		
	1/17/2020 8:28:39 AM				High		Rodizio final 7 e 8		
	1/17/2020 8:29:35 AM				High		Rodizio final 3 e 4		
	1/17/2020 8:30:48 AM				High		Rodizio final 5 e 6		
	1/17/2020 8:32:32 AM				High		Rodizio final 7 e 8		
					Medium				
	1/17/2020 8:33:24 AM				High		Rodizio final 1 e 2		
	1/17/2020 8:34:22 AM				High		Rodizio final 1 e 2		
							Rodizio final 3 e 4		
	1/17/2020 8:36:16 AM				Medium		Rodizio final 9 e 0		
							Rodizio final 9 e 0		
					High		Rodizio final 3 e 4		
							Rodizio final 3 e 4		
	1/17/2020 8:37:35 AM				High		Rodizio final 7 e 8		
							Rodizio final 7 e 8		
	1/17/2020 8:37:45 AM				Medium		Rodizio final 7 e 8		
							Rodizio final 5 e 6		
	1/17/2020 8:40:43 AM			Brazil	High		Rodizio final 7 e 8		
	1/17/2020 8:42:15 AM		18 - Frank Sight	Brazil	High	Hit	Rodizio final 1 e 2		
Search							Report	Print	Video
				Details of the selec	ted record				

Manage	filters		8)
	D-4-	Available filters	Selected filters	
31	Date			
ABC	License plates			
	Speed			
-	Cameras			
A	LPR Configurations			
ABC	Categories			
6	Classifications			
at	Manufacturers			
	Colors			
٢	Countries			
ABC	Lists			
ABO	Reliability			
e	Owner			
	Servers			
			OK Cancel	

4.1.92.4 Plate color recognition

Standard, Professional, Enterprise

The system now supports the recognition of the color of the recognized plates (If the LPR engine used

supports this feature). The plate color will be added to the recognition results and can also be filtered through the new plate color filter.

NOTE: Currently the only engine that supports plate colors is the ARH Carmen engine for plates from the Middle East. If engine manufacturers support plate color recognition for other countries, the system structure is ready to receive this information.

4.1.92.5 Vehicle speed recognition

Standard, Professional, Enterprise

The system now supports vehicle speed recognition (if the LPR engine used supports this feature). The vehicle speed will be added to the search results and the system also provides a filter for records with speed.

OBS: Currently the only way to process the vehicle speed is through the use of Edge LPR with ARH LPR cameras with integrated speed camera. If engine manufacturers support vehicle speed recognition, the system structure is ready to receive this information.

When configuring LPR events, the system also allows you to create a condition where the event will only be triggered if the vehicle is recognized at a speed above the configured speed, allowing you to create high speed alarms:
LPR Events Register ×
General Conditions
Conditions
Do not retrigger the event for repeated license plates in the interval
Trigger the event only for vehicles over speed limit (Only for supported engines)
Activate plate expiration control
Trigger the event for non-expired plates only \sim
Only trigger event with minimum reliability
High \checkmark
 Only trigger the event if the plate is registered in the database Each LPR configuration has a limit of 10 queries that can be buffered. If this limit is exceeded or there are communication problems with the database, the event will not be triggered.
OK Cancel
Speed Piter for LPR records in the Surveillance Client:
31 Date Speed above 60 5
ABC License plates
Speed

4.1.92.6 Vehicle type recognition

Standard, Professional, Enterprise

The system now supports vehicle type recognition (if the LPR engine used supports this feature). The

vehicle type will be added to the recognition results and can also be filtered through the new vehicle type filter.

NOTE: Currently the only way to process the vehicle type is through the use of Edge LPR together with Neural Labs Neural Server software. If the engine manufacturers support the vehicle type recognition natively in the LPR engine, the system structure is ready to receive this information.

ssifications 🛛									Manage
Reliability cha	art Hit chart Trace map route	1							
			LPR configuration						
	11/1/2019 9:10:27 AM		Neural Server	Brazil		Uncertanty	Car	RENAULT	
	11/1/2019 9:10:57 AM		Neural Server	Brazil	Medium				
					Medium				
					Medium				
					Medium				
					High			RENAULT	
					High				
					Medium				
					Medium				
					Medium				
Search								Report	Print Video
		_		Details	of the selected record				

Manage	filters				\otimes
31	Date	Available filters	Selected filters		
ABC	Liconco platoc				
) Speed				
	Cameras				
	LPR Configurations				
ABC	Categories				
	Classifications	0			
and a	Manufacturers				
	Colors				
	Countries				
ABC	Lists				
ABO	Reliability				
A	Owner				
	Servers				
u-					
				ок	Cancel

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4.1.92.7 Vehicle manufacturer recognition

Standard, Professional, Enterprise

The system now supports the vehicle manufacturer's recognition (if the LPR engine used supports this feature). The vehicle manufacturer will be added to the recognition results and can also be filtered through the new vehicle manufacturer filter.

NOTE: Currently the only way to sue the vehicle manufacturer is through the use of Edge LPR together with Neural Labs Neural Server software. If the engine manufacturers support the vehicle manufacturer's recognition natively in the LPR engine, the system structure is ready to receive this information.

ense Plate		Camera	LPR configuration	Country			Classification	
	11/1/2019 9:11:10 AM		Neural Server	Brazil	Medium	Hit	Car	FORD
	11/1/2019 9:11:17 AM	-	Neural Server	Brazil	Low	Uncertanty	Car	FORD
	11/1/2019 9:15:37 AM		Neural Server	Brazil				CHEVROLET
	11/1/2019 9:19:03 AM		Neural Server	Brazil	Medium		Car	CHEVROLET
	11/1/2019 9:21:23 AM		Neural Server	Brazil	Medium			FIAT
	11/1/2019 9:25:51 AM		Neural Server	Brazil	Medium		Car	CHEVROLET
	11/1/2019 9:29:23 AM			Brazil	High			
	11/1/2019 9:29:50 AM		Neural Server	Brazil	High			CHEVROLET
				Brazil		Uncertanty		CHEVROLET
	11/1/2019 9:30:08 AM		Neural Server	Brazil	Medium		Car	CHEVROLET
	11/1/2019 9:31:43 AM		Neural Server	Brazil				
	11/1/2019 9:33:10 AM		Neural Server	Brazil	Medium		Car	CHEVROLET
	11/1/2019 9:33:33 AM		Neural Server	Brazil				HONDA
	11/1/2019 9:34:06 AM		Neural Server	Brazil	Medium			CHEVROLET
	11/1/2019 9:36:06 AM		Neural Server	Brazil				
	11/1/2019 9:36:37 AM		Neural Server	Brazil		Uncertanty		HONDA
				Brazil		Uncertanty		
	11/1/2019 9:38:50 AM		Neural Server	Brazil	Medium			FORD
	11/1/2019 9:40:18 AM		Neural Server	Brazil	Medium			
			Neural Server	Brazil	Medium			
	11/1/2019 9:44:48 AM		Neural Server	Brazil	Medium			CHEVROLET
	11/1/2019 9:48:53 AM				Medium			
					Medium			
	11/1/2019 9:50:06 AM		Neural Server	Brazil	Medium			
			Neural Server	Brazil				
Search							Report	Print Video
								video



4.1.92.8 Vehicle color recognition

Standard, Professional, Enterprise

The system now supports the vehicle's color recognition (if the LPR engine used supports this feature). The vehicle color will be added to the recognition results and can also be filtered through the new vehicle color filter.

NOTE: Currently the only way to process the vehicle's color is through the use of Edge LPR together with Neural Labs Neural Server software. If the engine manufacturers support the vehicle color recognition natively in the LPR engine, the system structure is ready to receive this information.

License plate recognitio	DN								
Manufacturers O									Manane filt
Manufacturers @									<u>manage nic</u>
Search Reliability char	rt Hit chart Trace map route								
License Plate		LPR configuration							Vehicle Color
	11/1/2019 9:11:10 AM	Neural Server	Brazil	Medium	Hit	Car	FORD	Rodizio final 1 e 2	
	11/1/2019 9:11:17 AM	Neural Server	Brazil	Low	Uncertanty	Car	FORD	Rodizio final 1 e 2	
	11/1/2019 9:15:37 AM	Neural Server	Brazil	High Medium	Hit	Car	CHEVROLET	Rodizio final 3 e 4 Rodizio final 5 e 6	-
	11/1/2019 9:21:23 AM		Brazil	Medium				Rodizio final 5 e 6	
			Brazil	Medium				Rodizio final 3 e 4	
	11/1/2019 9:29:23 AM	Neural Server	Brazil	High	Hit	Car	CHEVROLET	Rodizio final 5 e 6 Rodizio final 3 e 4	
THE OWNER WATCHING	11/1/2019 9:30:03 AM	Neural Server	Brazil	Low		Car	CHEVROLET	Rodizio final 5 e 6	
	11/1/2019 9:30:08 AM	Neural Server	Brazil	Medium			CHEVROLET	Rodizio final 5 e 6	
	11/1/2019 9:31:43 AM	Neural Server	Brazil	Medium	Hit	Car	FIAT	Rodizio final 5 e 6	
The second	11/1/2019 9:33:10 AM	Neural Server	Brazil	Medium	Hit	Car	HONDA	Rodizio final 3 e 4 Rodizio final 1 e 2	
	11/1/2019 9:34:06 AM	Neural Server	Brazil	Medium				Rodizio final 3 e 4	-
	11/1/2019 9:36:37 AM 11/1/2019 9:38:01 AM	Neural Server	Brazil	Low	Uncertanty	Car	HONDA	Rodizio final 7 e 8 Rodizio final 5 e 6	
1000007	11/1/2019 9:38:50 AM	Neural Server	Brazil	Medium		Car	FORD	Rodizio final 7 e 8	-
110010	11/1/2019 9:40:18 AM	Neural Server	Brazil	Medium	Hit	Car	FIAT	Rodizio final 9 e 0	-
101010	11/1/2019 9:42:17 AM	Neural Server	Brazil	Medium	Hit	Car	FIAT	Rodizio final 3 e 4	-
			Brazil					Rodizio final 7 e 8	
	11/1/2019 9:45:18 AM	Neural Server	Brazil	Low	Uncertanty	Car	FORD CHEVROLET	Rodizio final 7 e 8 Rodizio final 7 e 8	
	11/1/2019 9:49:50 AM	Neural Server	Brazil	Medium	Hit	Car	CHEVROLET	Rodizio final 1 e 2	
	11/1/2019 9:50:06 AM	Neural Server	Brazil	Medium			CHEVROLET	Rodizio final 5 e 6	
Search								Report	Print Video
				Details of the selecte	ed record				
									Close
iearch complete								Total n	ecords: 954
Manage filters									
		Available filter				Select	ted filters		
31 Date		l⊒	icle Color				Vehicle Colo		
ABC License	e plates						i		
Coood									
J Speed									
Camera	as								
	onfigurations								
	ingulations								
ABC Catego	ries								
🛛 🔂 Classifi	ications								
Manufa 🛔	octurers								
Colors									
🧀 a									
Countri	ies								
ABC Lists									
ARE DELLE	124								
	шу								
🛛 🚘 Öwner									
Comer	· ·								
•= Server	5								
								ок	Cancel

4.1.92.9 Vehicle Model Recognition

Standard, Professional, Enterprise

The system now supports vehicle model recognition (if the LPR engine used supports this feature). The vehicle type will be added to the recognition results and can also be filtered through the new vehicle type filter.

NOTE: Currently the only way to process the vehicle model is through the use of the OpenALPR engine. If the engine manufacturers support the vehicle type recognition natively in the LPR engine, the system structure is ready to receive this information.



4.1.92.10 Type, color and manufacturer recognition with OpenALPR

Standard, Professional, Enterprise

The LPR OpenALPR engine now supports recognition of Vehicle Type, Vehicle Color and Vehicle Manufacturer.

4.1.92.11 New record filter for reliability

Standard, Professional, Enterprise

A new filter was added to allow filtering records through the reliability of the recognition result.

Available fibers Speed Cameras Cameras IPR Configurations Categories Categories Catogories Colors Colors <th>Manage filters</th> <th></th> <th></th> <th>8</th>	Manage filters			8
Jute Icense plates Speed Cameras IPR configurations IPR configurations	Date	Available filters	Selected filters	
Inclusion Speed Cameros Image: LPR Configurations Image: Categories Image	31 Date	Come Low Low	High Medium	
Speed Image: Cameras	ABC License plates			
• Cameras • LPR Configurations • LPR Configurations • Cadegories • Cadegories • Cadegories • Cadegories • Manufacturers • Colors • Colors <	Speed			
LPR Configurations LOB Categories Categories Manufacturers Manufacturers Colors Colors Countries Countries Lists Countries Countries Countries Servers	Cameras			
Alight Categories	LPR Configurations			
Classifications Manufacturers Manufacturers Colors Countries Countries Lists Reliability Manufacturers Servers	ABC Categories			
Manufacturers Colors Countries Lists Manufacturers Network Servers	Classifications			
Colors Countries Lists Cowner Owner Servers	Manufacturers			
Countries Lists Owner Servers	Colors			
Reliability Reliability <th>Countries</th> <th></th> <th></th> <th></th>	Countries			
Reliability Image: Owner Image: Servers	ABC Lists			
Owner Servers	Reliability			
Servers	≓ Owner			
	Servers			
OK Cancel			OK Cancel	

4.1.92.12 New record filter by owner

Standard, Professional, Enterprise

A new filter was added to allow filtering records through the vehicle owner. The vehicle owner can be specified in the license plate registration through the Administration Client.



4.1.92.13 New record filter by plate list

Standard, Professional, Enterprise

A new filter was added to allow filtering records through the lists of plates registered in the Administration Client.



4.1.92.14 Quick search

Standard, Professional, Enterprise

The Live LPR control now has a new quick search function. Through the "Quick Search" button on the interface it is possible to quickly open a small query screen that already has a pre-configured filter to bring up all the records for the current month and allows you to specify a list of plates for quick consultation.



4.1.92.15 Change recognized license plate number

Standard, Professional, Enterprise

The system now allows you to change the recognized plate number. The operator must have the right to change the recognized plate for this function to be enabled.

In the live LPR control, just right-click on a recognized record and choose the "Modify recognized plate" option:



It is also possible to change the recognized plate in the search for LPR records by right-clicking on the record to be changed:

DVC8C20		1/17/2020 6	27:26	ΔM
GEO7	Categorize pla	ite	28:20	AM
EHH4	Modify plate		:30:25	AM
EHH4	Trace route		:30:25	AM
СКХ8	Add south to a		:33:43	AM
нхw:	Add route to i	map	:36:06	AM
UVNOE70		1/17/2020 6	136-07	AN

4.1.92.16 Location of recognized license plates on Google Maps in search

Standard, Professional, Enterprise

The LPR Records Search in the Surveillance Client now displays the record's location on a mini map.

() License plate recognition						
						Manage filters
Search Reliability chart	Hit chart Trace map route					
License Plate	Date	Camera	LPR configuration	Country	Reliability	Hit 🔺
EFY2879	4/6/2020 3:41:51 PM	40	teste	Brazil	High	
EWQ5052	4/6/2020 3:46:26 PM	40	teste	Brazil	High	
FWB0192	4/6/2020 3:46:40 PM		teste	Brazil	High	
DYE0057	4/6/2020 3:49:41 PM	40	teste	Brazil	High	
FCK5594	4/6/2020 3:51:35 PM		teste	Brazil	Medium	
FCK5994	4/6/2020 3:51:35 PM		teste	Brazil	High	
FGZ5954	4/6/2020 3:52:35 PM		teste	Brazil	High	
FLC7675	4/6/2020 4:47:09 PM	40	teste	Brazil	High	
DRC5737	4/6/2020 4:52:42 PM		teste	Brazil	High	
EQZ4923	4/6/2020 4:53:04 PM		teste	Brazil	Medium	
EGI9825	4/6/2020 4:54:11 PM		teste	Brazil	Medium	
DRH9H61	4/6/2020 4:54:23 PM	40	teste	Brazil	High	Hit
EQZ4923	4/6/2020 4:55:00 PM		teste	Brazil	Medium	Hit
EGI9925	4/6/2020 4:55:12 PM	40	teste	Brazil	Medium	Hit 🔻
▲ ●						•
Search				Report	Print	Video
		Details of t	the selected record			
A CONTRACTOR OF A CONTRACTOR	4/6/2020	Country:	Brazil		Coop - Sad	Caetano
	4:54:23	DRH9H61				🕞 🔊
	РМ					
DRHRH61						lame
In Contractor						da Sa
	Street Participation				e e	AL SP
						stano
					Coole N	
						Terms of Use
						Close
Search complete					otal records: 30	

4.1.92.17 Plate expiration

Standard, Professional, Enterprise

It is now possible to set an expiration date for plates registered in the LPR system.

Plate expiration is used by LPR Events and is very useful for scenarios where, for example, an expired

plate cannot open a gate associated with the event, so it is possible to register temporary plates that will have access to the site.

It is possible to define a start date (When the plate will be valid) and an expiration date through the plate registration:

icense plates register			x
General			
ABC License plate list registration			
License Plate		LPR Lists	
Owner			
Observations	~		
	~		
Activate plate expiration			
1/17/2020 II:24:37 AM	L.		
Expiration Date			
1/17/2020 🗐 🕶 11:59:59 PM		Add	Delete
			OK Cancel

LPR events can be conditioned to trigger using plate expiration control. You can configure an LPR Event to fire only if:

- The recognized plate is not expired This option is useful to create an access control to a location, where the system will only open a gate automatically for the plates that are not expired
- Recognized license plate is expired This option is useful to create alarm events if a vehicle with an expired license plate is recognized, in this case, the operator can receive an alarm popup to inform about the vehicle's condition

1.00	- ·		
LPK	Event	is Ke	aister
LI IN	- Y - I II		giste.

General Conditions	
Conditions	
 Do not retrigger the event for repeated license plates in the interval seconds Trigger the event only for vehicles over speed limit 	
Activate plate expiration control Trigger the event for non-expired plates only Trigger the event for non-expired plates only Trigger the event for expired plates only	~
High	\sim
High Middleware integration Only trigger the event if the plate is registered in the database Each LPR configuration has a limit of 10 queries that can be buffered. If this limit i exceeded or there are communication problems with the database, the event will not be triggered.	s

4.1.92.18 Open field for registration of plates

Standard, Professional, Enterprise

Vehicle license plate registration now allows the use of Unicode characters. Some countries have special characters on license plates and it will now be possible to register the license plates of these countries.

4.1.92.19 Conditions for triggering events

Standard, Professional, Enterprise

LPR Events now support multiple trigger conditions.

Using trigger conditions, it is possible to restrict when an LPR event will be triggered, offering great configuration flexibility.

Conditions:

- Do not re-trigger the event for repeated plates in an interval This option prevents the system from triggering the LPR event if the same plate is recognized in a configured time interval
- Trigger the event only for vehicles over speed limit
- Plate expiration control This option allows the event triggering to be conditioned to the expiration of the plates
- Trigger the event only with minimal reliability This option prevents the system from triggering the LPR event if the plate recognition result does not reach a minimum level of reliability
- (Middleware) Only fire if the plate is registered in a database This option allows the event to check if the plate is registered in an external database (Using LPR Middleware for integration with external databases) and condition your shot only if the plate is found on the database.

LPR Events Register ×
General Conditions
Conditions
Do not retrigger the event for repeated license plates in the interval
Trigger the event only for vehicles over speed limit
Trigger the event for pon-expired plates only
Middleware integration
Only trigger the event if the plate is registered in the database
Each LPR configuration has a limit of 10 queries that can be buffered. If this limit is exceeded or there are communication problems with the database, the event will not be triggered.
OK Cancel

4.1.92.20 Display only recognized plates in lists

Standard, Professional, Enterprise

The LPR system now has a new option (in the LPR settings of the Surveillance Client) that allows the Live LPR component to only display plate records that are registered in a list of cards.

CLicense plate filters	
Display only recognized plates that are registered in a plate list	

4.1.92.21 Data sharing between Master / Slave

Professional, Enterprise

The object synchronizer between Master / Slave servers now supports LPR.

When the LPR synchronization option between Master / Slave is activated, the Plate Registration, List Registration and Plate Category Registration will be shared between the servers.

Generally, object registration is only allowed on the Master server, however, in the case of LPR it is possible to register plates through the Surveillance Client, connected to a Slave server only, and the Slave server will share the data with the Master and the Master will forward the data to the other Slaves servers.

\cap	Master	server
\smile	i labear	

Slave server

Master server address	: 8600 🚔
Master server admin password	
Items for synchronization	
✓ Alert contact ✓ Camera Group	
License Plate	

4.1.92.22 Surrounding camera image storage

Standard, Professional, Enterprise

The LPR system now allows you to store the images from the surrounding cameras associated with the LPR Configuration.

By default the images from the surrounding cameras are consulted from the camera recordings, however, in some cases it is necessary to keep these records for longer and in this case the images can be saved together with the recognition image.

This option is only available when the images are saved to disk instead of to the database.

Save images in the database		
Save images to disk		
Save images from surrounding cameras		
Local E:\LPR Images\] 🗙 🧂	-

4.1.92.23 Importing plates with lists

Standard, Professional, Enterprise

The plate list importer now allows you to specify which lists the plate belongs to.

nport from file	×
Import	
ABC Import license plate list	
Import a license plate file in CSV format	
File format:	
[Plate];[Owner];[Observations];[Lists]	
[Plate]: Vehide license plate (Mandatory)	
[Owner]: Vehide owner. (Can be omitted)	
[Observations]: Vehide observations. (Can be omitted)	
[Lists]: Lists where the plate will be inserted, comma-separated. Lists must be previously created. (Can be omitted)	
Examples:	
ABC 123;Owner name;Authorized Vehicle;List1,List2,List3	
ABC1234;Owner name;;List1,List2,List3	
ABC 1234;;;List1,List2,List3	
ABC1234;Owner name	
ABC1234	
Select the file to import	
	OK Cancel

4.1.92.24 64Bits Server

Standard, Professional, Enterprise

The LPR Server now has a 64-bit version.

The OpenALPR engine works only in the 64bit version.

This version is still experimental. Use only if using the OpenALPR engine or if the LPR server service is consuming more than 3GB of memory.

4.1.92.25 Communication Failure and Restore Events

Standard, Professional, Enterprise

Added Communication Failure and Communication Restore events for LPR Configurations.

LPR Configuration registration ×
General Configurations Surrounding cameras Rights Events Middleware Actions
Events
The Communication Failure Event will be triggered when the device is offline
Activate Communication Failure Event
Trigger the event when the device is X seconds offline
60
Re-trigger event if device remains offline
Event Actions
The Communication Restore Event will be triggered when the connection to the device is reestablished.
Activate Communication Restore Event
Trigger event only after a communication failure event
Event Actions
OK Cancel

4.1.92.26 LPR Edge with third party servers

Standard, Professional, Enterprise

The edge LPR architecture has been improved to allow integration with third party LPR servers. This option opens the range of LPR integrations and allows for the future expansion of the Digifort LPR base system for powerful integrations with third party systems.

The following servers are currently supported:

• Neural Server

4.1.92.27 Discard records that do not meet the mask

Standard, Professional, Enterprise

The character mask setting now allows the option to discard invalid records, that is, that do not follow the

character mask. Previously the system tried to change the numerical values to letters, or vice versa.

	guration regi	istration					
General	Configuratio	ons Sur	rounding cameras	Rights	Events	Middleware Actions	
A	LPR engine se	ettings					
Sensor	r Image A	ttributes	Options				
Ac	ctivate charac	ter mask:	:				-
	and the second second	-					
	Discard inva	lid plates	-				
0	Discard inva	lid plates	1				
	Discard inval	lid plates t ters	•]				
Ct Mi O Ma	Discard inval	lid plates t ters cters	•]			Ē	
Mi O Mi	Discard inval	lid plates t ters cters	•]				
C Mi O Mi	Discard inval	lid plates t ters cters	•				
C Mi Mi Mi	Discard inval	lid plates t ters cters					
C Cł Mi Mi O	Discard inval	lid plates t ters cters					
C Cł Mi Mi O	Discard inval	lid plates t ters cters					
C Cł Mi Mi	Discard inval	lid plates t ters cters					

4.1.92.28 Owner and Details in the LPR report

Standard, Professional, Enterprise

The LPR report on the Surveillance Client will now also display the owner and details of the vehicle (if registered).

4.1.92.29 Setting the image buffer size

Standard, Professional, Enterprise

The LPR system now allows the configuration of the image buffer size for processing. This buffer is used when the LPR Server is overloaded (which can occur when image recognition from several cameras is activated simultaneously), so the system will temporarily store the images in memory (before discarding) for a few seconds in order to wait the LPR Server responds to the processing of the images. A high buffer

value can improve the processing and recognition result, since previously the images would be discarded if the LPR Server was overloaded, however, it could also increase the recognition response time.

Configurations Options	
Save images in the database	
○ Save images to disk	
Save images from surrounding cameras	
Local	X 🚞
Delete database records older than X days	
30	▲ ▼
Resize stored images if bigger than:	
320 🔿 x 240	
Image buffer for server processing 2 Seconds	
Activate LPR middleware queries	
Address	8612 🚔
Speed Metric km/h mph	
Save settings	

4.1.92.30 Setting number of images for physical loop

Standard, Professional, Enterprise

The LPR Server now allows the configuration of the number of images that will be used when the recognition takes place by event (Physical Sensor) or by the API.

Unlike motion detection, recognition via a physical loop will analyze only X images from the moment of the event. This number of images can now be configured in these parameters. Previously, the value 3 was used by default.

ligifort - IP Surveillance System - Administ	tration Client	_	×
LPR Se Use this screen to	erver settings o configure the LPR server	(
 Digifort Analytics Analytics Digifort Local Settings Licenses Live Witness Live Witness Control 	General settings Neural Labs engine settings Communication port: 8611 Image: Secure communication via SSL 8411 Processing network: Digifort LPR Digifort LPR Sensors Number of images to process when triggered by Physical Sensor 3 Image: Sensors Number of images to process when triggered by External Sensor (API) Image: Sensors Sensors		
	Administration password: Confirm password:		
	Reset administration password Save settings		
Administrating the server Local (IP: 127.0.0.1 Port: 8	3611)		

4.1.92.31 Server Status

Standard, Professional, Enterprise

The Administration Client now has a status screen for LPR servers.

ligifort - IP Surveillance System - Administr	ation Client	– 🗆 X
Server This screen provid	Information Is real-time information about your server through historical graphs such as proce	ssor utilization, memory, network bandwidth, etc.
> Digifort	Information Monitoring	
> Analytics	Global Processor Usage (32%)	Server Memory Usage (267 MB)
Digifort Digifort Sattus Settings Licenses Local S- Mobile Camera	90 80 70 60 50 40 30 20 10	4465 4412 4361 3510 3159 2800 2457 2106 1755 1404 1053 702 351
	Global Memory Usage (4915 MB)	Input Connections (13)
	16338 15171 14004 12837 116703 9336 9336 9356 9356 9306 9307 7002 5335 4668 3501 2334 1167	P-N: 4 4 0 ^ 0.051 NI: 400 / 010
	Input Traffic (45702.05 kbits/s - 44.63 mbits/s)	Output Traffic (156.09 kbits/s - 0.15 mbits/s)
	51/58 48061 44064 40667 36970 33273 29576 25879 22109 14788 14788 14788 14788	144 1922 1221 110 100 888 877 665 554 433 221

4.1.92.32 New LPR Engine (OpenALPR)

Standard, Professional, Enterprise

The LPR Server now supports a new LPR engine: OpenALPR

LPR Engine		
◯ Carmen		
O Neural Labs		
OpenALPR		

4.1.92.33 Exporting reports in XLSX format

Standard, Professional, Enterprise

LPR reports can now also be exported in XLSX format



4.1.92.34 Plate category groups

Standard, Professional, Enterprise

The plate category groups feature uses a plate categorization feature of the ARH Carmen engine that is able to differentiate the type of plate (for example, cars, taxi, motorbikes...) through a category code that is provided by the engine.

This feature was specifically developed for countries in the Middle East where license plate categorization is important to identify the type of vehicle, but it should work for other countries if the LPR engine supports license plate categorization.

License plate category	group registration	x
General		
License plate	e category group registration	
Name		
Group 1]
Description		
Group 1		
Category ID	Category text]
A 1	Cars	
A# 2	Taxi	
AK. 3	Government	
Add	Modify Delete	
	OK Cancel	

4.1.92.35 Updated libraries

Standard, Professional, Enterprise

The LPR libraries of Neural Labs, ARH Carmen and Open ALPR were updated to the latest version in January 2020.

4.1.93 Analytics

4.1.93.1 Communication Failure and Restore Events

Standard, Professional, Enterprise

Added Communication Failure and Communication Restore events for Analytics Configurations.

Analytics configuration registration ×
General Events Rights
Events
The Communication Failure Event will be triggered when the device is offline
Activate Communication Evilure Event
Trigger the event when the device is X seconds offline
Re-trigger event if device remains offline
Event Actions
The Communication Restore Event will be triggered when the connection to the device is reestablished.
Activate Communication Restore Event
Trigger event only after a communication failure event
Event Actions
OK Cancel

4.1.93.2 Edge Metadata Render

Standard, Professional, Enterprise

The system now allows integration and rendering of metadata for Edge Analytics (Analytics running on the device)

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4.1.93.3 SAFR Face Recognition Metadata

Standard, Professional, Enterprise

The integration with the SAFR Face Recognition system is even better and it is now possible to receive, display and record metadata with live recognition information on the images.





4.1.93.4 Edge Analytics with third-party servers

Standard, Professional, Enterprise

The edge analytics architecture has been improved to allow integration with third party analytics servers. This option opens the range of analytics integrations and allows the future expansion of Digifort's base analytics system for powerful integrations with third-party systems.

The following servers are currently supported:

- Axis Perimeter Defender
- IPX Analytics
- SAFR
- VCA Server
- Video Synopsis

4.1.93.5 Server Status

Standard, Professional, Enterprise

The Administration Client now has a status screen for analytics servers.

ligifort - IP Surveillance System - Ac	dministration Client	- 🗆 X
	ver Information	ssor utilization, memory, network bandwidth, etc.
> 💭 Digifort	Information Monitoring	
Analytics	Global Processor Usage (26%)	Server Memory Usage (234 MB)
Control Digfort Status Status Settings Licenses Control LR Mobile Camera	100 90 80 70 60 50 40 30 20	4900 4250 4250 3500 3510 2800 2100 1100 1100 1100 1500 350
	Global Memory Usage (4878 MB)	Input Connections (19)
	16338 15171 14004 12337 11670 10503 9336 8169 7005 5668 4668 4668 4661 2334 1167	2001 th C 140 0 1 0 0 1 0 0 1 0 0 1 0 0 0 1 0 0 0 1 0
	Input Traffic (13183.63 kbits/s - 12.87 mbits/s)	Output Traffic (774.70 kbits/s - 0.76 mbits/s)
	13762 12776 11798 10983 10983 10983 10983 10983 10983 10983 10983 10983 10983 10983 10983 10983 10983 10983	798 441 445 570 570 570 570 570 570 570 57

4.1.93.6 Option to show / hide list of analytic events

Standard, Professional, Enterprise

The Surveillance Client now has a new option for the Live Analytics Configuration controls to display or hide the list of events by default when adding the on-screen control.

General Options

4.1.93.7 Option for offsetting analytics metadata

Standard, Professional, Enterprise

The system now allows you to set a value (independent for each analytics configuration) in milliseconds for metadata offsetting. The analytics metadata may be "out of sync" with the video depending on the engine used due to the processing time of the images, this option allows fine synchronization between the live / recorded video with the analytics metadata.

Analytics configuration registration			
General Options Events Options	Rights		
Metadata Offset		-	

4.1.93.8 Support for new types of rules

Standard, Professional, Enterprise

The analytics system now supports new rules present in cameras with analytics (Edge Analytics):

- Altered object condition (When an object's condition is changed, for example, its size, speed, direction, etc ...)
- Following a route (Object is following a defined route)
- Similarity (When an object enters a scene and looks like a predefined object)
- Occupancy (When objects occupy an area with a defined maximum number of objects)

4.1.93.9 Support for logical analytics rules

Standard, Professional, Enterprise

The integration of edge analytics with VCACore now allows the use of logical rules.

4.1.93.10 Support of analytics temperature rules

Standard, Professional, Enterprise

The integration of edge analytics now allows the use of temperature rules (Thermal) for supported cameras.

4.1.93.11 Support for analytics Facial Recognition rules

Standard, Professional, Enterprise

Edge analytics integration now allows the use of facial recognition rules for supported cameras.

4.1.93.12 Live Analytics Improvements

Standard, Professional, Enterprise

The Live Analytics control will now remove zones, objects and counters from the screen if an update does not occur within 10 seconds.

4.1.94 Mobile Camera

4.1.94.1 Waiting for Video Input Message

All editions

The Mobile Camera server now allows the display of a message indicating that the system is waiting for a video stream. With this, the camera on the recording server will always be in operation while the Mobile Camera server is in operation.



4.1.94.2 Device Events

Standard, Professional, Enterprise

With the new Camera Events feature it is now possible to configure "Session Started" and "Session Ended" events in the Mobile Camera driver.

These events will be triggered when the mobile device starts to send the stream or stop and can be used for example to start and stop recording the camera in event recording mode.

amera registration (Mobile)		
Close all		Device events
Presets	^	Tevice event settings
PTZ Patrol		►
Auxiliary		Activate the processing of device events
Joystick		Mobile Camera - Session Started
Menu control		Mobile Camera - Session Ended
⊗ I/O		
Input		
Output		
Communication		
Recording		
Motion detection		
Audio level detection		
Manual events		
Device events		
℅ Privacy		
Privacy mask		Selected event settings
Privacy mode		Event re-triggering time
		0 Seconds
Object links		Event actions
Device settings		
	~	OK Cancel

4.1.95 Performance improvements

4.1.95.1 Better performance for remote playback

All editions

Remote video playback (over internet links or with latency greater than 30ms) has been drastically improved, allowing playback at maximum frame rate, depending only on the bandwidth. Previously, high latency (message traffic time between server and client) greatly affected video playback performance.

4.1.95.2 Improved performance for cloud archiving playback

Professional, Enterprise

The system now has better performance of playing videos stored through the Archiving function when these recordings are stored in a cloud storage service provider (Amazon S3, Microsoft Azure ...)

4.1.95.3 Multi-thread for sending multicast data via relay

All editions

The performance of sending data from the relay server to multicast clients has been drastically improved using multi-thread. Previously, the relay system could present performance bottlenecks (with "stuttering" of the images) when the images were distributed in multicast.

4.1.95.4 Performance improvement of synoptic map rendering

Standard, Professional, Enterprise

The rendering performance of synoptic maps in the Surveillance Client has been drastically improved

4.1.95.5 Improved performance when right clicking on the camera register

All editions

In systems with thousands of registered cameras, by right clicking on the camera registration list, the system could hang for a few seconds. Performance is now improved.

4.1.95.6 Performance improvement in database queries

All editions

Database queries are now faster due to local ordering of records rather than sorting by the database during a query.

4.1.95.7 Performance improvement when deleting old records

All editions

The database structure has been changed to improve performance when deleting old records (record recycling). Previously the database could hang, preventing new records from being saved, while old records were being deleted.

4.1.95.8 Improved timeline performance

All editions

The rendering performance of the Video Player timeline control has been drastically improved for better display of broken video clips (for example, with motion detection recording) from multiple cameras simultaneously.

4.1.95.9 Performance of object lists

All editions

All object lists and system records have been improved for greater performance.

4.1.95.10 Time to load and stop the server service

All editions

The time to load and stop the server service has been drastically improved, especially for servers with thousands of registered cameras.

4.1.96 Minor improvements

4.1.96.1 Improvements in live audio control

All editions

When manually selecting an audio device (To listen or speak) in the Surveillance Client's audio control, the device will now be selected in both lists (Speak and Listen) when the "Auto-Select" option is enabled.

The audio control now has a context menu that allows you to clear the current device selection.



4.1.96.2 Relay connection status

All editions

When the camera is being viewed via Relay (default setting) on the Surveillance Client, the status message will now display the status between the server and the camera and not between the client and the server. Previously the message only reflected the state between the client and the server and could cause confusion when out of order cameras were added on screen and their status was "Receiving media data" even though it was out of service, this is because the connection between the client and the server was functioning normally, but the connection between the server and the camera was not.

The status message between the server and the camera will be displayed with the prefix "(Relay)". If the message does not have this prefix, then it refers to the connection between the client and the server



4.1.96.3 Reuse of multicast addresses via relay

All editions

The relay server's multicast addresses will now be reused. Previously the system increased the address for each stream being sent by the server, with this, in some systems with high usage, the addresses increased without control and could cause conflicts with addresses of multiple servers.

4.1.96.4 New shortcuts for selecting cameras in the camera registration

All editions

The camera registration screen in the Administration Client now has 2 new shortcuts:

- CTRL + H Selects all cameras with the same address and port as the selected camera. Useful shortcut to select all cameras on the same device (For example a DVR / NVR)
- CTRL + E Select all cameras with the same event driver as the selected camera

These 2 shortcuts complete the previous list of existing shortcuts:

- CTRL + M Select all cameras with the same media driver as the selected camera
- CTRL + S Select all cameras with the same settings driver as the selected camera
- CTRL + A Select all cameras

4.1.96.5 I/O Device Port in the register

Standard, Professional, Enterprise

The default I/O Device connection port will now be displayed at registration in the Administration Client.

O Device				×
General I/O Ever	nts Scheduling			
1,0 2.0				
I/O device ger	neral data			
Name	Description			
Manufacturer				
IP Extreme	✓ IP Extreme			
Model		Firmware	2	
IPX8001		~ 1.0.0.0		~
Inputs	Outputs			
8	8	×	Virtual Ports	
Connection address	Port (8050)	User	Password	
	⇒ 80	•		
Latitude	Longitude			
0.000000	0.000000		Ŷ	
Activate device				
			ОК	Cancel

4.1.96.6 CSV files with column header

All editions

When exporting a .CSV file in the Administration Client (From registration or status screens), the system will now allow adding or removing the name of the columns in the first line of the file.

4.1.96.7 CSV files with local formatting

All editions

The values contained in the CSV (Comma-Separated Values) files can be delimited either with a comma (",") or semicolon (";"). This lack of standard can cause problems when reading the file in certain software. Previously the system assumed a semicolon (";") as the default delimiter, however the exported file could become incompatible with some readers, so now, when exporting a CSV file, the system will use the local system settings, defined in Settings Windows Regionals.

4.1.96.8 Preset list can be completely deleted

All editions

The list of presets for a camera (In the camera settings in the Administration Client) now allows multiple selection to delete all presets defined simultaneously. Previously, to delete the preset list, it was necessary to delete one at a time.

4.1.96.9 Viewing user rights to objects on a Slave server

All editions

When connecting to a slave server in the Administration Client, it is not possible to make changes to user or group accounts, changes are made only on the master servers, however it is now possible to open the rights view of users and groups to display the rights access to a user's objects on the slave server. To access the viewer, just right-click on the user and select the desired option.

sers (Options			
Name	^	Description		
_	admin	System administration account		
	Reset Passy	vord		
	Login Sche Login IPs Login optic	dules		
	Block Acco Unblock A	count		
	Tipo de co Expiration	nta of Account		
	Rights Grant right Deny right:	5		
	Client Feat Policies Web Custo	ures mization		
	Watermark	Watermark		
	Groups Vie	w		
	Rights Viev	V		

4.1.96.10 Keep user / password when importing users from AD

Professional, Enterprise

The screen for importing users from Active Directory will now keep the information provided in the Domain, User, Password and Filter fields in a temporary cache. Previously this information was lost when closing the screen, and if a new import from another user was needed, it was necessary to provide everything again. The cache will not be saved to disk, that is, if the Administration Client is closed, the cache will be lost.
,	-				
ctive Directory					
User searc	h				
omain					
lsername for doma	in authentication				
assword for doma	in authentication				
ilter	ne_*\(cn_*\)			 	
alsamaccountria	ne=*)(cri=*))	Court ware			
	1	Search users			
User	Full name		Description		
	All	None		Invert	

4.1.96.11 New formats for saving snapshots

All editions

The system now also supports saving snapshots from live and video playback in TIFF format, completing the list of supported formats:

- JPEG
- PNG
- BMP
- WMF
- GIF
- TIFF

4.1.96.12 Alarm popup maps with default resizing

Standard, Professional, Enterprise

When a Synoptic Map is displayed in an alarm popup, it will now be displayed by default with the Proportional Resizing option and with the toolbar closed to provide a larger map viewing area.

4.1.96.13 Summary in the event report

All editions

The Surveillance Client event report now has a summary with the total occurrences of each event

		EVENT COUNT
Event	Amount	
Alarm input	2	
Motion Detection	3829	
Manual Event	2	
Scheduled Event	24	

4.1.96.14 Columns ordered by numeric values

All editions

The lists of objects in the Administration Client (For example in the Register of Cameras, Registration of Users among others) allow the ordering of values Øy any column, however, previously this ordering was done only by text, which made columns with values numbers were ordered as text instead of numbers. All numeric columns will now be ordered according to the record's numerical value.

4.1.96.15 Extended column with user type

Professional, Enterprise

A new extended column with the type of user account is now displayed in the user registry. If the user is an Active Directory user, the domain name will also be displayed.

General Memo	Туре	Account blocked
	Digifort user	No
	Active Directory user (MY_DOMAIN)	No

4.1.96.16 Larger font on disk graphics

All editions

The font on the disk graphics in the Administration Client has been increased for better readability.



4.1.96.17 Server management in the Administration Client

All editions

The Administration Client can manage several types of system services such as the recording server, the LPR server, the analytics server, among others. Previously the categories of all servers were displayed in the object tree, now the server category will be displayed only if a server of that type is registered.

To register a server previously it was necessary to click on the add button, selecting the server type from the list of objects, now the server type will be available to be selected on the registration screen:

Add Server		x
Server		
Add Server		
Server Type		
Digifort		~
Server Name		
Server IP		Port
		8600 🚖
Use SSL		
Servers		
	OK	Cancel

4.1.96.18 Bookmark name in video playback thumbnails

Professional, Enterprise

The Video Player Thumbnails function will now display the name of the bookmark associated with the thumbnail image when the search type is set to "Bookmark"



4.1.96.19 Auto-Populate maps on synoptic maps

Standard, Professional, Enterprise

The "Auto-Populate Images" function of the Synoptic Map Editor in the Administration Client will now also add links to other synoptic maps that have defined geolocation coordinates.



4.1.96.20 Synchronized time selection in the media player

All editions

Screens with time selection in the Media Player are now synchronized. When the selected time is changed on one screen, it will be automatically changed on the other screens.

Connected screens:

- Timeline
- Motion Search
- Export

1/13/2020 10:29:10 AM	10:28:50 AM	Mo 10:29 AM	onday, January 13 10:29:10 AM	, 2020 10:29:20 AM	10:29:30 AM
Client parking 1					~
		\mathcal{L}			
Cameras O1 (Client parking 1)		Time Start 1/13/20 10:28:53	End 1/13/202 3 10:29:14	Configur Sensitivit	rationsy (80%)
				Start s	earch Clear data
		\downarrow			
Cameras O1 (Client parking 1)		Time Start 1/13/20 10:28:53	End 1/13/202 3 10:29:14	Exported Native	video format Image: size Media size (MB): Zoo Export

4.1.96.21 Displaying the global event message in search

Standard, Professional, Enterprise

Searching for Global Event records will now include the event message in the results. This message can be customized when triggering a global event via API, for integration with external systems.

〕 Event log							
Search Reports							
Date S Global Ever	nt 🛛					Manage filters	
Date	Event type	Event name	Message	User			
1/19/2020 10:53:11 PM	Global Event	Teste		admin	127.0.0.1		
1/19/2020 10:53:31 PM	Global Event	Teste	Test message	admin	127.0.0.1		

4.1.96.22 New filter in the device register

All editions

By clicking the button on the arrow next to the add button, the context menu now has a new option to display and filter only "Multi-Channel Media Devices".

Add 🔽	
Camera Multi-channel camera	
Video server Multi-channel video server	
Media Device	
Multi-Channel Media Device	
DVR NVR	

4.1.96.23 Custom email footer

All editions

Personalization of the title of emails sent by the system (To add a company name, for example), will now also be added at the bottom of the email.



4.1.96.24 Immervision library update

All editions

The system has been updated to include the latest version of Immervision's Panomorph lens dewarping library.

4.1.96.25 Directory selection screen

All editions

The style of the directory list, in the directory selection screen for recording, will now be displayed in the "Report" format, which allows better visualization of long folder names.

Select remote directory		×
Directory Chosen X:\Cameras\ Select the Directory X: [VAULT]\ (20,027,261 MB)		~
Directory	^	
<u>01</u>		
0 2		CP2
03		
04		C.
<u> </u>		N
06		
07		
08		
09		
10		
2 ¹¹		
1 2		
13		
14		
15	~	
10		

4.1.96.26 UTC server time

All editions

The Server Information screen on the Administration Client will now provide the server's local and UTC time.

Local Server Time: 1/20/2020 12:33:13 PM Server Time in UTC: 1/20/2020 5:33:13 PM Active Time: 1 Hour(s), 28 Minute(s) and 45 Second(s)

4.1.96.27 Delete objects in the map editor with delete key

Standard, Professional, Enterprise

The Administration Client's Synoptic Map Editor now allows you to delete the selected object by pressing the Delete button on the keyboard, previously it was only possible to remove the object with the right-click context menu.

4.1.96.28 DirectDraw Renderer option removed

All editions

The option of rendering by DirectDraw in the Surveillance Client has been removed and now the rendering will always be done by GDI or GDI + for better compatibility.

4.2 New supported devices

4.2.1 Media Devices

3S Security N5600 3S Security N6010L 3S Security N6019M AeroGuard DJI AGNI MB-51R2F AGNI MB-51R2SI AGNI MB-51R3B AGNI MB-51R3SL A-MTK AH5911D-20X A-MTK AH5911D-22X A-MTK AH5911D-32X Arecont AV02CID-100 Arecont AV02CLB-100 Arecont AV02CLD-100 Arecont AV02CMB-100 Arecont AV20CPD-118 AvGlobal HDVRDH-7216A AviCam AV6001 AviCam AV6003 Avigilon 2.0C-H4A-B1-B Avigilon 2.0C-H5A-B1 Avigilon 5.0-H4 Axis Companion Cube L Axis D2050-VE Axis FA54 Axis M1045-LW Axis M1065-LW Axis M1135 Axis M1137 Axis M3015 Axis M3037 Axis M3047-P Axis M3057-PLVE Axis M3058-PLVE Axis M3064-V Axis M3066-V Axis M3075-V Axis M3115-LVE Axis M3116-LVE Axis M3206-LVE Axis M4206-LV Axis M5054 Axis M5055

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Axis M5525-E Axis Open Platform Axis P1244 Axis P1245 Axis P1254 Axis P1264 Axis P1265 Axis P1275 Axis P1290 Axis P1367 Axis P1368-E Axis P1375 Axis P1378 Axis P1378-LE Axis P1425-LE Mk II Axis P3227-LV Axis P3227-LVE Axis P3235-LVE Axis P3245-LVE Axis P3245-VE Axis P3374-LV Axis P3374-V Axis P3375-V Axis P3375-VE Axis P3717-PLE Axis P3719-PLE Axis P3807-PVE Axis P5655-E Axis P9106-V Axis Q1637 Axis Q1645 Axis Q1647-LE Axis Q1700-LE Axis Q1786-LE Axis Q1941-E Axis Q1942-E Axis Q3504 Axis Q3505 MKII Axis Q3515 Axis Q3517 Axis Q3615 Axis Q6000-E MK II Axis Q6054 Mk II Axis Q6054-E Mk III Axis Q6074-E Axis Q6075-E Axis Q6124-E Axis Q6125-LE Axis Q6154-E Axis Q6155-E Axis Q8641-E PT Axis Q8742-E Ayrus AY-ECU-TC40PS-100F Ayrus AY-ECU-TC40PS-25X4M Ayrus AY-ECU-TC41VO-30X5M Ayrus AY-NANO-IP-01D2MS Ayrus AY-NANO-IP-06D2M Ayrus AY-NANO-IP-16DZ2M20X Ayrus AY-NANO-IP-17DZ2M36X Ayrus AY-NANO-IP-21DZ5M20X Ayrus AY-NANO-IP-22D4M Ayrus AY-NANO-IP-4K-I20 Ayrus AY-NANO-IP-55B4M Ayrus AY-NANO-IP-87B2M Ayrus IPD-C36Y02-BS Bosch Dinion IP 4000i IR Camopix CAMX-PLRTH09M Camopix CAM-XPLRTH13M Camopix CAMX-PLRTH20M Canon VB-C50FSi Clear 7316-N CP Plus CP-VNC-B21-VMD CP Plus CP-VNC-B4K-VM CP Plus CP-VNC-D4KR3-D CP Plus CP-VNC-E41R1C-MD CP Plus CP-VNCT21R3-V2 CP Plus CP-VNC-T21ZR20-VMD CP Plus CP-VNC-T41FR3-VMD CP Plus CP-VNC-T41R3 CP Plus CP-VNC-T41ZR3-VMD-2812 CP Plus CP-VNC-T51ZR5-VMD CP Plus CP-VNC-V21R3 CP Plus CP-VNC-V41R3 CP Plus CP-VNC-V4KZR3-VMD CP Plus CP-VNC-V51R3-VMD CP Plus CP-VNP-3021L15 CP Plus CP-VNP-3321R50-DAS CP Plus CP-VNP-4K22L25 Cygnus IPC-2M-DWS Cygnus IPC-2M-FZ10X Cygnus IPC-4K-FEYE Cygnus IPC-4M-DZS Cygnus NVR7216-AI Cygnus NVR7864-AI Cygnus PTZ-2M-X22U Dahua DH SD60225U-HNI Dahua DHI-HCVR4104HS-S3 Dahua DHI-HCVR4108HS-S3 Dahua DHI-HCVR4116HS-S3 Dahua DHI-MPT210 Dahua DHI-MPT310 Dahua DHI-NVR2104HS-P-S2 Dahua DHI-NVR2104HS-S2 Dahua DHI-NVR2104-P-S2 Dahua DHI-NVR2104-S2 Dahua DHI-NVR2108-8P-S2

Dahua DHI-NVR2108HS-8P-S2 Dahua DHI-NVR2108HS-S2 Dahua DHI-NVR2108-S2 Dahua DHI-NVR2204-P-S2 Dahua DHI-NVR2204-S2 Dahua DHI-NVR2208-S2 Dahua DHI-NVR4208-8P-4KS2 Dahua DHI-NVR4416-4KS2 Dahua DHI-NVR4432-4KS2 Dahua DHI-NVR5208-4KS2 Dahua DHI-NVR5208-8P-4KS2 Dahua DHI-NVR5216-16P-4KS2 Dahua DHI-NVR5216-16P-4KS2E Dahua DHI-NVR5216-4KS2 Dahua DHI-NVR5216-8P-4KS2 Dahua DHI-NVR5232-16P-4KS2 Dahua DHI-NVR5232-4KS2 Dahua DHI-NVR5232-8P-4KS2 Dahua DHI-NVR5416-16P-4KS2 Dahua DHI-NVR5416-4KS2 Dahua DHI-NVR5424-24P-4KS2 Dahua DHI-NVR5432-16P-4KS2 Dahua DHI-NVR5432-4KS2 Dahua DHI-NVR5464-16P-4KS2 Dahua DHI-NVR5464-4KS2 Dahua DHI-NVR5816-16P-4KS2 Dahua DHI-NVR5816-4KS2 Dahua DHI-NVR5832-16P-4KS2 Dahua DHI-NVR5832-4KS2 Dahua DHI-NVR5864-16P-4KS2 Dahua DHI-NVR5864-4KS2 Dahua DHI-NVR608-32-4KS2 Dahua DHI-NVR608R-128-4KS2 Dahua DHI-NVR608R-64-4KS2 Dahua DHI-NVR616-128-4KS2 Dahua DHI-NVR616-64-4KS2 Dahua DHI-NVR616D-64-4KS2 Dahua DHI-NVR616DR-128-4KS2 Dahua DHI-NVR616DR-64-4KS2 Dahua DHI-NVR616R-128-4KS2 Dahua DHI-NVR616R-64-4KS2 Dahua DH-IPC-HDBW1431EN-S Dahua DH-IPC-HDBW4231EN-ASE Dahua DH-IPC-HDBW4231FN-AS-S2 Dahua DH-IPC-HDBW4231FN-M12-S2 Dahua DH-IPC-HDBW4231FN-M-S2 Dahua DH-IPC-HDBW4239RN-ASE-NI Dahua DH-IPC-HDBW4431EN-ASE Dahua DH-IPCHDBW4431EN-AS-S2 Dahua DH-IPC-HDBW4431FN-AS-S2 Dahua DH-IPC-HDBW4431FN-M12-S2 Dahua DH-IPC-HDBW4431FN-M-S2 Dahua DH-IPC-HDBW4631EN-ASE

Dahua DH-IPC-HDBW4631EN-AS-S2 Dahua DH-IPC-HDBW4830EN-AS Dahua DH-IPC-HDBW4831EN-ASE Dahua DH-IPC-HDBW5231EN-Z-S2 Dahua DH-IPC-HDBW5431EN-ZE Dahua DH-IPC-HDBW5431EN-Z-S2 Dahua DH-IPC-HDBW5631EN-ZE Dahua DH-IPC-HDBW5830EN-Z-S2 Dahua DH-IPC-HDBW5831EN-ZE Dahua DH-IPC-HDBW8242EN-Z4FR Dahua DH-IPC-HDBW8242E-Z4FD Dahua DH-IPC-HDW1020SN-0280B-S3 Dahua DH-IPC-HF5431EN-S2 Dahua DH-IPC-HF8242F-FD Dahua DH-IPC-HF8242F-FR Dahua DH-IPC-HFW2230RN-ZAS-IRE6 Dahua DH-IPC-HFW2230RN-ZS-IRE6 Dahua DH-IPC-HFW2230TN-VFAS Dahua DH-IPC-HFW2230TN-VFS Dahua DH-IPC-HFW2230TN-ZAS Dahua DH-IPC-HFW2230TN-ZS Dahua DH-IPC-HFW2231RNVFAS-IRE6 Dahua DH-IPC-HFW2231RNVFS-IRE6 Dahua DH-IPC-HFW2231RNZAS-IRE6 Dahua DH-IPC-HFW2231RNZS-IRE6 Dahua DH-IPC-HFW2231TN-VFAS Dahua DH-IPC-HFW2231TN-VFS Dahua DH-IPC-HFW2231TN-ZAS Dahua DH-IPC-HFW2231TN-ZS Dahua DH-IPC-HFW2231T-ZS Dahua DH-IPC-HFW2421R-VFS/ZS-IRE6 Dahua DH-IPC-HFW2431RN-VFAS-IRE6 Dahua DH-IPC-HFW2431RN-VFS-IRE6 Dahua DH-IPC-HFW2431RN-ZAS-IRE6 Dahua DH-IPC-HFW2431RN-ZS-IRE6 Dahua DH-IPC-HFW2431TN-VFAS Dahua DH-IPC-HFW2431TN-VFS Dahua DH-IPC-HFW2431TN-ZAS Dahua DH-IPC-HFW2431TN-ZS Dahua DH-IPC-HFW2431T-VFAS Dahua DH-IPC-HFW2431T-ZAS Dahua DH-IPC-HFW2531TN-VFAS Dahua DH-IPC-HFW2531TN-VFS Dahua DH-IPC-HFW2531TN-ZAS Dahua DH-IPC-HFW2531TN-ZS Dahua DH-IPC-HFW4231EN-SE Dahua DH-IPC-HFW4231SN-S2 Dahua DH-IPC-HFW4231TN-ASE Dahua DH-IPC-HFW4239TN-ASE-NI Dahua DH-IPC-HFW4431EN-SE Dahua DH-IPC-HFW4431SN-S2 Dahua DH-IPC-HFW4431TN-ASE Dahua DH-IPC-HFW4631EN-SE

Dahua DH-IPC-HFW4631TN-ASE Dahua DH-IPC-HFW4831EN-SE Dahua DH-IPC-HFW4831TN-ASE Dahua DH-IPC-HFW5231EN-Z12-S2 Dahua DH-IPC-HFW5231EN-ZE Dahua DH-IPC-HFW5231EN-ZHE Dahua DH-IPC-HFW5231EN-ZH-S2 Dahua DH-IPC-HFW5231EN-Z-S2 Dahua DH-IPC-HFW5431EN-ZE Dahua DH-IPC-HFW5431EN-ZHE Dahua DH-IPC-HFW5431EN-ZH-S2 Dahua DH-IPC-HFW5431EN-Z-S2 Dahua DH-IPC-HFW5631EN-ZE Dahua DH-IPC-HFW5831ENF Dahua DH-IPC-HFW5831EN-ZE Dahua DH-MNVR1104 Dahua DH-MNVR4104 Dahua DH-SD10A248VN-HNI Dahua DH-SD22204T-GN-W Dahua DH-SD50131U-HNI Dahua DH-SD50230U-HNI Dahua DH-SD50430U-HNI Dahua DH-SD52C131U-HNI Dahua DH-SD52C225U-HNI Dahua DH-SD52C230U-HNI Dahua DH-SD59131U-HNI Dahua DH-SD59225U-HNI Dahua DH-SD59430U-HNI Dahua DH-SD60131U-HNI Dahua DH-SD60230U-HNI Dahua DH-SD60230U-HNI-SL Dahua DH-SD65F230F-HNI Dahua DH-SD6AE240V-HNI Dahua DH-SD6AE530U-HNI Dahua DH-SD6C430U-HNI Dahua DH-TPC-BF-2120 Dahua DH-TPC-SD8420-TC Dahua DH-TPC-XF2120 Dahua HCVR4224AN Dahua IPC-HDW2431R-ZS Dahua IPC-HDW8341X-3D Dahua IPC-HDW8341XN-3D Dahua IPC-HDW8341XP-3D Dahua IPC-HF5231EN-S2 Dahua IPC-HF5231E-Z Dahua IPC-HF5431E-Z Dahua IPC-HFW1431S Dahua IPC-HFW2431R-ZAS/VFAS-IRE6 Dahua IPC-HFW2431R-ZS/VFS-IRE6 Dahua IPC-HFW2431TN-VFS Dahua IPC-HFW2431TN-ZS Dahua IPC-HFW2431TP-VFS Dahua IPC-HFW2431TP-ZS

Dahua IPC-HFW2431T-ZS Dahua IPC-HFW2531T-ZS Dahua IPC-HFW7442H-Z4 Dahua IPC-PDBW8800-A180 Dahua IPC-PF83230-A180 Dahua IPC-PFW8601-A180 Dahua IPC-PFW8800-A180 Dahua ITC215-PW4I-LZF27135 Dahua ITC237-PW1B-IRZ Dahua ITC352-RF2D-IR Dahua PSD81602-A360 Dahua PTZ12230FN-IRB-N-S2 Dahua SD29204T-GN Dahua SD29204T-GN-W Dahua SD60430UN-HNI Dahua VTO2101E-P-S1 Digifort Live Witness Server D-Link DCS-960L DMZ DVR-7608AV Dynacolor R2SD-G Dynacolor R3SD-F Dynacolor R3SL-6 Dynacolor R3V6-B Dynacom WQ5ZV Dynacom WQ950ZV Dynatek HD-3220WI-DE4 Dynatek HP-1080H-V560D Dynatek MS-2961-4G Dynatek MV-3220WI-4G Dyno DYCAAI-BM236-H1 Dyno DYCAAI-BM4K36-H1 Dyno DYCAAI-BM536-H1 Dyno DYCAAI-DM236-H1 Dyno DYCAAI-DM4K36-H1 Dyno DYCAH-DM536-H1 Dyno DYCAIP-BM2212-H1 Dyno DYCAIP-BM236-H1 Dyno DYCAIP-BM536-H1 Dyno DYCAIP-BP236-H1 Dyno DYCAIP-DM2212-H1 Dyno DYCAIP-DM236-H1 Dyno DYCAIP-DM536-H1 Elsys ESC-WB2F Elsys ESC-WR2 Elsys ESC-WY2 Flexwatch FW7707-FNR Flexwatch FW7930-PSM Flexwatch FW7930-TVM Flexwatch FWR228-01N Flir DH3902MP843 Flir FB-309 ID Flir FB-309 O Flir FB-312 ID

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Hanwha Techwin PNM-9080VQ Hanwha Techwin PNM-9081VQ Hanwha Techwin PNM-9320VQP Hanwha Techwin PNO-9080R Hanwha Techwin PNP-9200RH Hanwha Techwin PNV-9080R Hanwha Techwin QNB-6000P Hanwha Techwin QNB-6002 Hanwha Techwin QNB-7000P Hanwha Techwin QNB-8002 Hanwha Techwin QND-6010R Hanwha Techwin QND-6011 Hanwha Techwin QND-6012R Hanwha Techwin QND-6020R Hanwha Techwin QND-6022R Hanwha Techwin QND-6030R Hanwha Techwin QND-6032R Hanwha Techwin QND-6070R Hanwha Techwin QND-6072R Hanwha Techwin QND-6082R Hanwha Techwin QND-7010R Hanwha Techwin QND-7020R Hanwha Techwin QND-7020RN Hanwha Techwin QND-7030R Hanwha Techwin QND-7030RN Hanwha Techwin QND-7080R Hanwha Techwin QND-7082R Hanwha Techwin QND-8010R Hanwha Techwin QND-8011 Hanwha Techwin QND-8020R Hanwha Techwin QND-8021 Hanwha Techwin QND-8030R Hanwha Techwin QND-8080R Hanwha Techwin QNE-7080RV Hanwha Techwin QNE-8011R Hanwha Techwin QNE-8021R Hanwha Techwin QNF-8010 Hanwha Techwin QNF-9010 Hanwha Techwin QNO-6010R Hanwha Techwin QNO-6020R Hanwha Techwin QNO-6030R Hanwha Techwin QNO-6070R Hanwha Techwin QNO-6072R Hanwha Techwin QNO-6082R Hanwha Techwin QNO-7010R Hanwha Techwin QNO-7010RN Hanwha Techwin QNO-7020R Hanwha Techwin QNO-7020RN Hanwha Techwin QNO-7030R Hanwha Techwin QNO-7030RN Hanwha Techwin QNO-7080R Hanwha Techwin QNO-8010R Hanwha Techwin QNO-8020R

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Hanwha Techwin SNV-3082P Hanwha Techwin SNV-3120 Hanwha Techwin SNV-3120V Hanwha Techwin SNV-3120VH Hanwha Techwin SNV-5010 Hanwha Techwin SNV-5080 Hanwha Techwin SNV-5080R Hanwha Techwin SNV-5080RN Hanwha Techwin SNV-5084 Hanwha Techwin SNV-5084N Hanwha Techwin SNV-5084R Hanwha Techwin SNV-6012 Hanwha Techwin SNV-6012M Hanwha Techwin SNV-6012MN Hanwha Techwin SNV-6013 Hanwha Techwin SNV-6013M Hanwha Techwin SNV-6013N Hanwha Techwin SNV-6084 Hanwha Techwin SNV-6084N Hanwha Techwin SNV-6084R Hanwha Techwin SNV-6084RN Hanwha Techwin SNV-6085R Hanwha Techwin SNV-7080 Hanwha Techwin SNV-7080R Hanwha Techwin SNV-7082 Hanwha Techwin SNV-7082P Hanwha Techwin SNV-7084 Hanwha Techwin SNV-7084P Hanwha Techwin SNV-7084R Hanwha Techwin SNV-7084RP Hanwha Techwin SNV-8080 Hanwha Techwin SNV-8080P Hanwha Techwin SNV-8081R Hanwha Techwin SNV-8081RN Hanwha Techwin SNV-L5083R Hanwha Techwin SNV-L5083RN Hanwha Techwin SNV-L6013RP Hanwha Techwin SNV-L6014RMN Hanwha Techwin SNV-L6083R Hanwha Techwin SNV-L6083RN Hanwha Techwin SNZ-5200 Hanwha Techwin SNZ-6320 Hanwha Techwin SPE-100 Hanwha Techwin SPE-101 Hanwha Techwin SPE-110 Hanwha Techwin SPE-1600 Hanwha Techwin SPE-1610 Hanwha Techwin SPE-400 Hanwha Techwin SPE-410N Hanwha Techwin SPE-410P Hanwha Techwin TNO-1050T Hanwha Techwin TNU-6320 Hanwha Techwin TNV-7010RC

Hanwha Techwin XNB-6000 Hanwha Techwin XNB-6001 Hanwha Techwin XNB-6001P Hanwha Techwin XNB-6005 Hanwha Techwin XNB-6005N Hanwha Techwin XNB-8000 Hanwha Techwin XND-6010 Hanwha Techwin XND-6010N Hanwha Techwin XND-6011F Hanwha Techwin XND-6020R Hanwha Techwin XND-6080 Hanwha Techwin XND-6080P Hanwha Techwin XND-6080R Hanwha Techwin XND-6080RN Hanwha Techwin XND-6080RV Hanwha Techwin XND-6080V Hanwha Techwin XND-6081F Hanwha Techwin XND-6081FZ Hanwha Techwin XND-6081REV Hanwha Techwin XND-6081RF Hanwha Techwin XND-6081RV Hanwha Techwin XND-6081V Hanwha Techwin XND-6081VZ Hanwha Techwin XND-6085 Hanwha Techwin XND-6085V Hanwha Techwin XND-6085VN Hanwha Techwin XND-6085VN/EX Hanwha Techwin XND-8010R Hanwha Techwin XND-8020F Hanwha Techwin XND-8020R Hanwha Techwin XND-8030R Hanwha Techwin XND-8040R Hanwha Techwin XND-8080R Hanwha Techwin XND-8080RN Hanwha Techwin XND-8080RV Hanwha Techwin XND-8081FZ Hanwha Techwin XND-8081REV Hanwha Techwin XND-8081RF Hanwha Techwin XND-8081RV Hanwha Techwin XND-8081VZ Hanwha Techwin XND-L6080R Hanwha Techwin XND-L6080RV Hanwha Techwin XND-L6080V Hanwha Techwin XNF-8010R Hanwha Techwin XNF-8010RV Hanwha Techwin XNF-8010RVM Hanwha Techwin XNF-8010RVN Hanwha Techwin XNO-6010R Hanwha Techwin XNO-6020R Hanwha Techwin XNO-6080R Hanwha Techwin XNO-6085R Hanwha Techwin XNO-6085RP Hanwha Techwin XNO-6120

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Hanwha Techwin XNZ-L6320 HBTech HB-6208 Hikvision DS-2CD1023-G0I Hikvision DS-2CD1121-I Hikvision DS-2CD1323-G0I Hikvision DS-2CD2021G1-I Hikvision DS-2CD2123G0-IS Hikvision DS-2CD2145FWD-I(S) Hikvision DS-2CD2455FWD-I Hikvision DS-2CD2623G1-IZS(C) Hikvision DS-2CD2625FHWD-IZS Hikvision DS-2CD2643G0-IZS Hikvision DS-2CD2720F-I Hikvision DS-2CD2763G0-IZS Hikvision DS-2CD2935FWD-IS Hikvision DS-2CD2T23G0-I8 Hikvision DS-2CD2T25FWD-I5 Hikvision DS-2CD3643G1-IZS Hikvision DS-2CD3743G1-IZS Hikvision DS-2CD4B25G0-IZSC Hikvision DS-2CD5A26G0-IZS Hikvision DS-2CD5A85G0-IZHS Hikvision DS-2DE4215IW-DE Hikvision DS-2DE4225IW-DE Hikvision DS-2DE4425W-DE3 Hikvision DS-2DE4A225IW-DE Hikvision DS-2DE5225IW-AE Hikvision DS-2DE7232IW-AE Hikvision DS-2DF5225X-AE3 Hikvision DS-2DF5225X-AEL Hikvision DS-2DF5232X-AE3 Hikvision DS-2DF5232X-AEL Hikvision DS-2DF6225X-AEL Hikvision DS-2DF6236X-AEL Hikvision DS-2DF6A225X-AEL Hikvision DS-2DF6A236X-AEL Hikvision DS-2DF6A425X-AEL Hikvision DS-2DF6A436X-AEL Hikvision DS-2DF6A825X-AEL Hikvision DS-2DF6A836X-AEL Hikvision DS-2DF7225IX-AEL Hikvision DS-2DF7225IX-AELW Hikvision DS-2DF7232IX-AEL Hikvision DS-2DF7232IX-AELW Hikvision DS-2DF8236I5X-AELW Hikvision DS-2DF8236IX-AEL Hikvision DS-2DF8425IX-AEL Hikvision DS-2DF8425IX-AELW Hikvision DS-2DF8436I5X-AELW Hikvision DS-2DF8436IX-AEL Hikvision DS-2DF8436IX-AELW Hikvision DS-2DF8825IX-AEL Hikvision DS-2DF8825IX-AELW

Hikvision DS-2DF8836I5X-AELW Hikvision DS-2DF8836IX-AEL Hikvision DS-2DF8836IX-AELW Hikvision DS-2PT3326IZ-DE3 Hikvision DS-2TD1217B-3/PA Hikvision DS-2TD1217B-6/PA Hikvision DS-2TD2617B-6/PA Hikvision DS-2TD2636B-13/P Hikvision DS-2TD2636B-15/P Hikvision DS-2TD2637B-10/P Hikvision DS-7104NI-Q1/4P/M Hikvision DS-7108NI-Q1/8P/M Hikvision DS-7204HQHI-K/P Hikvision DS-7204HQHI-K1 Hikvision DS-7204HQHI-K1/P Hikvision DS-7204HUHI-K2 Hikvision DS-7208HQHI-F1/N Hikvision DS-7208HQHI-K1 Hikvision DS-7208HUHI-K2 Hikvision DS-7216HQHI-F1/N Hikvision DS-7216HQHI-K1 Hikvision DS-7216HUHI-F1/N Hikvision DS-7216HUHI-K2 Hikvision DS-7224HQHI-K2 Hikvision DS-7232HQHI-K2 Hikvision DS-7332HUHI-K4 Hikvision DS-7604NI-E1/4P Hikvision DS-7604NI-K1 Hikvision DS-7608NI-K1 Hikvision DS-7608NI-Q2/8P Hikvision DS-7616NI-K2/16P Hikvision DS-7616NI-Q2/16P Hikvision DS-7716NI-K4/16P Hikvision DS-7732NI-E4 Hikvision DS-7732NI-E4/16P Hikvision DS-7732NI-K4 / 16P Hikvision DS-9608NI-I8 Hikvision DS-96128NI-I16 Hikvision DS-9616NI-I8 Hikvision DS-9632NI-I8 Hikvision DS-9664NI-I8 Hikvision DS-MH2111 Hikvision DVR-104G-F1 Hikvision DVR-108G-F1 Hikvision DVR-116G-F1 Hikvision Gateway DS-GWAS0101 Hikvision Hikconnect 128 Hikvision Hikconnect 16 Hikvision Hikconnect 32 Hikvision Hikconnect 64 Hikvision iDS-2CD8426G0/F-I Hikvision IDS-2VS235-F836 Hikvision iDS-TCM203-AR

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Hikvision iDS-TCM403-AI HiLook DVR-104G-F1 HiLook DVR-108G-F1 HiLook DVR-116G-F1 Honeywell H4D8PR1 Honeywell H4W2PRV2 Honeywell H4W4PER2 Honeywell H4W4PRV2 Honeywell H4W4PRV3 Honeywell HBD8PR1 Honeywell HBW2PR2 Honeywell HBW4PR2 Honeywell HDZP252DI Honeywell HDZP304DI Honeywell HED8PR1 Honeywell HEN04113 Honeywell HEN08113 Honeywell HEN16113 Honeywell HEW2PR2 Honeywell HEW4PR2 Honeywell HFD5PR1 Idis DC-D3533RX Idis DC-D4213WRX Idis DC-D4233WRX Idis DC-S3283WHX Idis DC-S3583HRX Idis DC-T3233HRX Idis DC-T3533HRX Idis DC-T4233WRX Idis DC-Y3C14WRX Illustra IFS03B1BNWIT Illustra IFS03D1ICWTT Illustra IPS02CFOCWST Illustra IPS03CFOCWST Inova BH20IR60IP-VF Inova BHSP20IR30-IP Inova INMBM2O-IP Inova IPD-C34Y02-BS Intelbras iMHDX 5008 Intelbras iMHDX 9008 Intelbras iMHDX 9016 Intelbras MHDX 1032 Intelbras MHDX 1104 Intelbras MHDX 1108 Intelbras MHDX 1116 Intelbras MHDX 1132 Intelbras MHDX 3004 Intelbras MHDX 3008 Intelbras MHDX 3016 Intelbras MHDX 3104 Intelbras MHDX 3108 Intelbras MHDX 3116 Intelbras MHDX 3132

Intelbras MHDX 5016 Intelbras MHDX 5108 Intelbras MHDX 5116 Intelbras MHDX 5208 Intelbras MHDX 5216 Intelbras MHDX 7116 Intelbras MHDX 7132 Intelbras NVD1232 Intelbras NVD1304 Intelbras NVD1308 Intelbras NVD1316 Intelbras NVD3108-P Intelbras NVD3116 Intelbras NVD3116-P Intelbras NVD3208-P Intelbras NVD-5016 4K Intelbras NVD-5124 Intelbras NVD-7132 Intelbras SVR-7116 IA Intelbras SVR-7132 IA Intelbras SVR-7164 IA Intelbras VIP 1020 B Intelbras VIP 1020-B-G2 Intelbras VIP 1020-D-G2 Intelbras VIP 1220B Intelbras VIP 3212 SD IP Intelbras VIP 3220 B Intelbras VIP 3220 D Intelbras VIP 3230 DW Intelbras VIP 3230 W Intelbras VIP 3250 MIC Intelbras VIP 3260Z Intelbras VIP 3430 B Intelbras VIP 3430 D Intelbras VIP 3430 DW Intelbras VIP 3430 W Intelbras VIP 5450DZ-G2 Intelbras VIP 5450Z-G2 Intelbras VIP 5850B Intelbras VIP 7180B Intelbras VIP 7180D Intelbras VIP 7208-LPR-G2 Intelbras VIP 7223-LPR Intelbras VIP 7237 SD Intelbras VIP E5212 **iVSEC NC-512XA** iVSEC NC-512XB JFL Alarmes CD-2230 IP JFL Alarmes DHD-2104N JFL Alarmes DHD-2108N JFL Alarmes DHD-2116N JFL Alarmes DHD-3204 JFL Alarmes DHD-3208

JFL Alarmes DHD-3216 JFL Alarmes DHD-3304 JFL Alarmes DHD-3308 JFL Alarmes DHD-3316 JFL Alarmes DHD-8008 JFL Alarmes DHD-8016 JFL Alarmes SP-3500 JFL Alarmes WD3004 JFL Alarmes WN2016 JL Protec JL-IP6110 JL Protec JL-IP6120 JL Protec JL-NVR3009 JL Protec JL-NVR3016 Lenel ICT-510 Longse LIN605XSL200 Longse LMDES600 LuxVision LV-NVR-5316 Milesight MS-C2961-EPB Milesight MS-C5341-X23HPB Milesight MS-C9674-PB Mobotix M16 Mobotix Q26 Mobotix T25 Motorola MTIB202M Motorola MTIB205M Motorola MTIB302MV Motorola MTIB402MV Motorola MTIB405MV Motorola MTID202M Motorola MTID205M Motorola MTID402MV Motorola MTIPM052631 Motorola MTIPM152631 Motorola MTIPM153651 Motorola MTR04A1080L Motorola MTR04AFHD Motorola MTR08A1080L Motorola MTR08AFHD Motorola MTR08IP Motorola MTR08IPOE Motorola MTR16A1080L Motorola MTR16AFHD Motorola MTR16IP MTW VM0614M NVS NVM-262(310) NVS NVM-262(310R) NVS NVM-262(722) NVS NVM-263 NVS NVM-263RF NVS NVM-272(310) NVS NVM-272(722) NVS NVM-273 NVS NVM-281

NVS NVM-282 NVS NVM-362 NVS NVM-363 NVS NVM-363RF NVS NVM-372 NVS NVM-462 NVS NVM-463 NVS NVM-463FR NVS NVM-472 NVS NVM-473 NVS NVM-481 NVS NVM-482 NVS NV-NB425Z NVS NV-NB426NP/HIZA NVS NV-NB426NP/IZ NVS NV-NB426NP/IZA NVS NV-NB426NP/LZA NVS NV-NB625 NVS NV-ND622 NVS NV-ND722 NVS NV-ND725 NVS NV-NM230 NVS NV-NM236W NVS NV-NM520I NVS NV-NR704I NVS NV-NR708I **Ominiware Omini Sentry** Oncam EVO-180-WID Oncam EVO-180-WJD Panasonic WV-SUD638 Panasonic WV-V1330LK Panasonic WV-V6430L Pelco IMP831-1ER Pelco IMP831-1ERS Pelco IMP831-1RS Pelco Sarix IBP131-1ER Pelco Sarix IBP231-1ER Pelco Sarix IBP232-1ER Pelco Sarix IBP235-1ER Pelco Sarix IBP331-1ER Pelco Sarix IBP335-1ER Pelco Sarix IBP531-1ER Pelco Sarix IBP532-1ER Pelco Sarix IMP131-1ERS Pelco Sarix IMP131-1IRS Pelco Sarix IMP231-1ERS Pelco Sarix IMP231-1ES Pelco Sarix IMP231-1IRS Pelco Sarix IMP231-1IS Pelco Sarix IMP331-1ERS Pelco Sarix IMP331-1ES Pelco Sarix IMP331-1IRS Pelco Sarix IMP331-1IS

Pelco Sarix IMP531-1ERS Pelco Sarix IMP531-1ES Pelco Sarix IMP531-1IRS Pelco Sarix IMP531-1IS Pelco Sarix IWP133-1ERS Pelco Sarix IWP232-1ERS Pelco Sarix IWP233-1ERS Pelco Sarix IWP234-1ERS Pelco Sarix IWP236-1ERS Pelco Sarix IWP333-1ERS Pelco Sarix IWP532-1ERS Pelco Sarix IWP533-1ERS Pelco Sarix IXP13 Pelco Sarix IXP23 Pelco Sarix IXP33 Pelco Sarix IXP53 Pelco Spectra Enhanced D6230 Pelco Spectra Pro 4K P2820 Pelco Spectra Pro 4K P2820-ESR Pelco Spectra Pro IR P2230 Pelco Spectra Pro IR P2230-ESR Pelco Spectra Pro IR P2230L-ESR Proimage PROI-0505 Proimage PROI-5012U Proimage PROI-810W Provision-ISR I8-340IP5MVF Redvision RVX2 Relm RC-EH15 Reolink RLC-422 Safety IPD-H21M05 Safire SF-HTVR6232-HEVC Safire SF-HTVR8104H Samsung HRD-1641 Samsung HRD-1642 Samsung LND-6020R Samsung LND-6030R Samsung LND-6070R Samsung LNO-6010R Samsung LNO-6020R Samsung LNO-6030R Samsung LNO-6070R Samsung LNV-6010R Samsung LNV-6030R Samsung LNV-6070R Samsung PNM-7000VD Samsung PNM-9000VQ Samsung PNM-9030V Samsung PNM-9320VQP Samsung QNE-7080RV Samsung QNP-6230H Samsung QNP-6320 Samsung QNP-6320H Samsung QRN-810S

Samsung SDR-C75300 Samsung SNP-L6233 Samsung SNP-L6233H Samsung SNV-6012 Samsung SNV-6013M Samsung SPE-110 Samsung SPE-1610 Samsung SPE-410 Samsung SPE-410N Samsung SRD-493 Samsung SRN-1673S Samsung TNU-6320 Samsung XNB-6001 Samsung XNB-6005 Samsung XNB-6005N Samsung XND-6010 Samsung XND-6081F Samsung XND-6081FZ Samsung XND-6081RF Samsung XND-6081RV Samsung XND-6081V Samsung XND-6081VZ Samsung XND-6085 Samsung XND-6085V Samsung XND-8081FZ Samsung XND-8081RF Samsung XND-8081RV Samsung XND-8081VZ Samsung XND-L6080R Samsung XND-L6080RV Samsung XND-L6080V Samsung XNF-8010R Samsung XNF-8010RV Samsung XNF-8010RVM Samsung XNO-6085R Samsung XNO-6085RP Samsung XNO-8040R Samsung XNO-L6080R Samsung XNP-6040H Samsung XNP-6550RH Samsung XNV-6010 Samsung XNV-6022R Samsung XNV-6022RM Samsung XNV-6080RS Samsung XNV-6081 Samsung XNV-6081R Samsung XNV-6081Z Samsung XNV-6085 Samsung XNV-6120RS Samsung XNV-8080RS Samsung XNV-8081R Samsung XNV-8081Z Samsung XNV-L6080

Samsung XNV-L6080R Samsung XNZ-6320 Samsung XRN-3010A Sigura 8xx-9xx Series Sunell IPR57/20AKDN/T/Z2.7-12/13 Tanz THC2524IR4B Tanz THC522BLS3A Tanz THC8229B Tanz THC8229IR1A Tanz THC822KIR5A Tanz THC8829IR5A Tattile F01761 - VegaSmart 2HD TecVoz TTV_E504h TecVoz TTV-E508h TecVoz TTV-E516h TecVoz TTV-L104h TecVoz TTV-L108h TecVoz TTV-L116h TecVoz TTV-P5004h TecVoz TTV-P5008h TecVoz TTV-P5016h TecVoz TTV-P5432 TecVoz TV-ICB102 TecVoz TV-ICB202VM TecVoz TV-ICB206V TecVoz TV-ICB212 TecVoz TV-ICB212vp TecVoz TV-ICB22v TecVoz TV-ICB23 TecVoz TV-ICB23P TecVoz TV-ICB312VM TecVoz TV-ICB412VM TecVoz TV-ICB413 TecVoz TV-ICB43 TecVoz TV-IDM102 TecVoz TV-IDM212vpp TecVoz TV-IDM22 TecVoz TV-IDM22V TecVoz TV-IDM23P TecVoz TV-IDM412VMS TecVoz TV-IDM42 TecVoz TV-ISP220IR TecVoz TV-ISP230IR TecVoz TV-P5432 TecVoz TV-U2004 TecVoz TV-U2008 TecVoz TV-U2064 TecVoz TW-ICB100 TruVision TVF-3101 Uniview IPC-2122SR3-PF40-C Uniview IPC-2122SR3-PF60-C Uniview IPC-2125SR3-ADUPF40 Uniview IPC-2125SR3-ADUPF60

Uniview IPC-2222ER5-DUPF40-C Uniview IPC-2222ER5-DUPF60-C Uniview IPC-2322EBR5-HDUPZ Uniview IPC-6222E-X33UP Uniview NVR202-16E-P Uniview NVR202-32E Uniview NVR302-08E-P8 Uniview NVR304-32E-P Uniview NVR308-64E-B Uniview NVR516-128 Venetian FY-2300 Venetian IP-51076 Venetian IP-61077 Venetian IP-62030 Venetian IP-62351 Venetian IP-63031 Venetian IP-65441 Venetian TD-2316ME-2W Vid8 VD0412D VideoTec UCHD11UAZ00B Videoteknika VB7475 Videoteknika VB774A Videoteknika VS7355 Viotec VTB57-30HDN-CS Viotec VTP-B20RF Viotec VTP-B20RZ Viotec VTP-B50RF Viotec VTP-B50RZ Viotec VTP-D20RF Viotec VTP-D20RZ Viotec VTP-D50RF Viotec VTP-D50RZ Viotec VTP-DE20-A600 Viotec VTP-P120R Viotec VTP-Z20R23 Viotec VTP-Z50R30 Viotec VTR57-20AKDN-Z Viotec VTR57-20BYDN Viotec VTR57-41AKDN-Z Viotec VTR57-41BSDN Viotec VTRM-C4461-EB Viotec VTT-BT24M Viotec VTV57-20FDR Viotec VTV57-20UDR Viotec VTV57-41FDR Viotec VTV57-41UDR Viotec VTZ56-30BDR-ZSD30 Visionbras VB-XVR5116HS-S3 Vivotek FD8167A-S Vivotek FD9167-H Vivotek FD9187-H Vivotek FD9187-HT Vivotek FD9365-EHTV

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Vivotek FD9365-HTV Vivotek FD9365-HTVL Vivotek FD9367-HTV Vivotek FD9387-EHTV Vivotek FD9387-EHV Vivotek FD9387-HTV Vivotek FD9389-HV Vivotek FD9389-HVM Vivotek FE9180-H Vivotek FE9181-H Vivotek FE9391-EV Vivotek IB8360 Vivotek IB8377-HT Vivotek IB9365-EHT Vivotek IB9365-HT Vivotek IB9367-HT Vivotek IB9368-HT Vivotek IB9391-EHT Vivotek IP9165-HT Vivotek IP9165-LPC Vivotek IP9167-HT Vivotek IP9172-LPC Vivotek IP9191-HP Vivotek IP9191-HT Vivotek IT9389-H Vivotek IT9389-HT Vivotek MA8391-ETV Vivotek MA9321-EHTV Vivotek MD9561-H Vivotek MD9581-H Vivotek MS9321-EHV Vivotek MS9390-HV Vivotek TB9330-E Vivotek TB9331-E VTV DVR 16 ch AHD Vumii Sii AT FD Vumii Sii Op WAMA FW-38036 WAMA NF4-B22S WAMA NF4-B36W WAMA NF4-D32S WAMA NF4-D62S WAMA NF4-V56W WAMA NM2-B22S WAMA NM2-B34W WAMA NM2-D22S WAMA NM2-D34W WAMA NM2-V54W WAMA NM8-B36W WAMA NM8-V26W WAMA NS12-F22W WAMA NS8-B36W WAMA NS8-V36W

WAMA NV2-B36W WAMA NV2-B66W WAMA NV2-V26W WAMA NV2-V36W WAMA NV2-V56W WAMA PZ2-T133 WAMA PZ2-T210 WAMA PZ2-T310 WCA B60X307 WCA B60X327 WCA F60X323X5 WCA F60X327 WCA F90X2905X WCA FISHX226 WCA FISHX326 WCA H30F23 WCA H30X290 WCA H30X307 WCA H30X323 WCA H30X327 WCA H30X327A WCA IPDE24Y00BS WCA LIR30X323 WCA LIRX178 WCA LIRX307 WCA PTZ5E122X307 XSecurity XS-XVR3108A

4.2.2 I/O Devices

Aviosys IP Power 9823 GP Axis A1001 Axis A9161 Bosch B9412GV4 Fiber SenSys FD-504 Generic Ping Generic TCP Connection Test Moxa E2210 MTW TelemetryHub NSE MTCP-1E1S NSE MTCP-3E8S Optex RLS-2020I Optex RLS-2020S

4.3 Fixes

- The microphone on the Surveillance Client could stop working if the workstation has 2 or more audio input devices and the selected microphone is disconnected and reconnected again
- Fixed an issue in the analytics event list where the list could flicker when updating items.
- Fixed an issue that could crash and close the Monitoring Client when opening the LPR search screen, clicking on the "Trace map route" tab and closing the screen quickly.
- When analytics were configured to work via presets, some events might not be recorded in the database and the events in the Live Analytics control could be overwritten with new events instead of creating a new entry in the event list.
- Fixed a small memory leak that could occur in the connection socket between client and servers and analytics configuration
- When trying to add a camera after adding another camera via the camera finder, the screen for adding "multi-cameras" was displayed instead of a single camera
- When the server ID is changed (for example, after adding a hard key), objects could be duplicated in the Surveillance Client if it was open and connected to the server
- Fixed an issue in the transmission of JPEG through the RTSP server where a malformed JPEG could crash the server
- An internal problem could occur in the LPR settings if an associated peripheral camera is disabled
- The LPR report with Report Authentication enabled could crash the Surveillance Client
- The Surveillance Client could hang when sending authenticated reports to servers if the user has manually disconnected from a server
- Fixed issue in QuickSync that could cause the Monitoring Client to close
- Fixed an issue with the Operational Map when clicking with Ctrl + Double Click on a synoptic map, an Access Violation error could occur
- Fixed translation of LPR route screen messages
- Fixed an issue with the NVidia GPU decoder with the new NVidia drivers.
- Fixed an issue with calling HTTP events over HTTPS
- The explorer edition will now no longer display Google Maps settings
- Sequence Export is no longer available for export in edge video playback sessions
- Fixed an issue that could crash the Surveillance Client when generating reports
- Fixed I/O drivers for UDP Technology devices where I/O monitoring could stop working
- Fixed an issue in the LPR reporting screen where the grouping items by LPR Configuration and Reliability were being displayed inverted
- Fixed an issue with analytics configuration configured for imperial measurements
- License plate registration will now sort the records by expiration correctly
- The audit system was not registering the visualization of LPR, Analytics, Maps, Operational Maps and Web Pages objects
- Backward Video playback with multi-thread decoder showed jumps in the image
- Fixed an error in searching analytics records where the results could be inconsistent if there were spaces in the filter values
- Authenticated reports were being saved outside the appropriate folder
- The camera image filter screen in the camera preview in the Administration Client was getting hidden behind the camera
- · Validation of the SMTP HELO field to not allow invalid characters
- The "Server Information" screen was leaking operating system handles on the server with each query
- When the camera was recording by event and was out of order (Disconnected) and an event was started via API, the camera became In Operation momentarily even though it was disconnected and the downtime could be inconsistent
- The option to stop video streaming from superimposed cameras in the Surveillance Client was not disabling the video from LPR Settings and Analytics Configurations
- It was not possible to control cameras 1, 2 and 3 in dewarping the cameras in quad (4 quadrants of the same camera) for the ACTi and Vivotek dewarping engines
- Bookmarks are now deleted from the database based on their end date, not start date
- Analytics reports were being grouped by date and time, now grouped by date only
- Close button of the report export screen in the Surveillance Client was not working
- The charts of disk usage in the Administration Client could report negative values
- Fixed an issue with the Surveillance Client object list that could become inconsistent
- Videos recorded at less than 1 frame per second were playing at very high speed
- Sending video playback to the virtual matrix (via the mobile app) to a multi-monitor station was not working properly
- Keyword filter was not working when searching for bookmarks
- Fixed a condition that could have object speed 65535 in analytics metadata

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- · Bookmark search was not returning the name of the cameras in the list
- Fixed display of Arabic characters in LPR results
- The list of camera status, when an item was selected, it was not possible to scroll through the list, as every time the client received an update (every 1 second) the list would return to the top, displaying the selected item
- · Restored communication event was not being sent via SNMP
- If the motion detection engine on the server stops working, the camera will now be marked as out-oforder and the engine will be restarted. There are cases where the engine was stopping and no movement was being recognized.
- Database queries associated with a user connection will now stop when the connection is closed
- Internal control of messages and system timers could stop if the PostMessage message queue becomes too large, which could cause cameras to stop
- When creating a new user group, the associated user list was not saved, it was necessary to open the saved group and re-associate users
- Fixed data parsing in JSON format
- Connection control with Dahua devices was sending excessive commands to start or stop streaming images, which could cause DVRs / NVRs to crash
- Fixed an issue in the ONVIF PTZ driver that could stop working due to expired authentication
- · Fixed memory performance bottleneck in the motion detection system
- The list of presets for a camera in the Surveillance Client was getting out of order if new presets were added
- Fixed a memory access violation issue on the Analytics and LPR servers that could cause services to crash
- Privacy Mask was not being applied to video playback by iOS and Android mobile apps
- It was not possible to correctly resize analytics counters in the Administration Client Analytics Editor
- Disk write error was not being triggered until the Operating System had been running for more than 1 hour
- The Archiving system could be trying to resynchronize the archiving folders at all times if the archiving root directory was a disk drive with no subdirectory.
- Video playback from Archiving was not playing the last 30 minutes of the day
- When a USB microphone was disconnected while the Surveillance Client was open, if it reconnected, it was necessary to restart the Surveillance Client for the microphone to function again
- The video player timeline was not accepting the mouse scroll (for zoom) on some computers
- Alarm input event name was not being displayed in the event list
- The Surveillance Client was not downloading images from surrounding cameras for LPR reports if a report without the surrounding camera option was issued before a report with the option enabled
- When the camera became out of order, the analytics and LPR settings associated with the camera were not becoming out of order either, even without input images
- Fixed a problem that could cause memory leak in the H.265 parser