

RELEASE 24.3.5541

QUICK LIVE FOR USEE CLIENT (MSE STREAM)

A new type of live stream delivery has been developed for uSee, this stream is only used by uSee when the WebRTC stream is requested.

The current WebRTC flow requires a variable time required for the negotiation to be sent: this time is present both locally and remotely. To solve this problem and make the live broadcast more quickly accessible, an h.264 MSE stream was developed at the lowest resolution set on the camera, in order to "cover" the time interval between the live WebRTC request and the display of the WebRTC stream;

While the WebRTC stream is loading, the MSE stream will start and will be visible until the WebRTC stream starts.

HOW TO USE THE PERIPHERY EXTERNAL I/O

Added the "PUT" method in the peripheral "External I/O", in addition to the already present "GET" and "POST".

EXTERNAL I/O			Autodelete Events –		
PUT			Retention Days		
ID					
Send out the http	state related to the received http	state			
🛩 Enable Event					
Reset After (sec)					
Trigger	Undefined v				
_Input					
Address	192.168.10.169				
Port (Http)			Port (Https)		
CGI high state	/arteco-mobile/write.fcgi?pin=	1&status=1			
CGI low state	/arteco-mobile/write.fcgi?pin=	1&status=0			
Output					
Address	192.168.5.64		Port (Http)		80
Username	admin		Password	•••••	
Method	PUT ·		Protocol	нттр	
CGI high state	ISAPI/System/IO/outputs/1/tri	gger			
High State Header					
High State Body	xml version="1.0" encoding-</td <td>=*utf-8*?><lopoi< td=""><td>tData xmlns=*http://</td><td>www.isapi.org/ver20</td><td>XMLSchema*</td></lopoi<></td>	=*utf-8*?> <lopoi< td=""><td>tData xmlns=*http://</td><td>www.isapi.org/ver20</td><td>XMLSchema*</td></lopoi<>	tData xmlns=*http://	www.isapi.org/ver20	XMLSchema*
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It has also been added the possibility of configuring the "Header" and the "Body" for the High and Low Status of the device (and also for the "POST" methods); previously there was only a "Body" and a "Header" for both states (Low/High).

So now you can distinguish "Body" and "Header" based on the status of the device.

TIME ASYNCHRONY BETWEEN ARTECO-SERVER AND THE DEVICE ON WHICH USEE IS USED

It is very important that the date and time of the client device with uSee and the ARTECO-SERVER are synchronized. Currently, a server is declared as desynchronized with respect to the uSee client if there is more than 5 seconds of difference.

In case of desynchronization some functions are disabled (for example everything related to the search for thumbnails).

This was best described in uSee-related communications when the relevant part arrived, however this is the version of the server that can provide the desynchronization information.

It is therefore important to use a time synchronization method via NTP Server both: for the client device using uSee and for machines running ARTECO-SERVER.

USEE: AUDIO INPUT TO CAMERAS

In this version of the suite, the possibility of providing the input of the audio stream from the camera to uSee has been developed both for live (HLS and webRTC) and for recording playback.

The highlighted limitation is that the WebRTC live streamer only supports a few audio codecs, and you need to set a specific sample rate on the camera to ensure that it works.

- 1. Supported codecs: G.711A-law and G.711Mu-law
- 2. Sample Rate: 8000Hz

To enable audio, you need to configure the video channel via Omnia/Configurator.



MULTI-CHANNEL ONVIF CAMERAS AND NVR LICENSES

Two new types of licenses have been developed to handle cases of:

- 1. Onvif Multichannel Cameras
- 2. NVR Devices

To manage the new types of Onvif Multichannel licenses, a new "Camera Type" has been created: "ONVIF MULTICHANNEL" (see below) which can be selected in Omnia/Configurator to create one of the two new licenses.

LICENSE								
SERVER	License Recap							
DEVICES	Forver Name	(6472) Nothuno 126						
Cameras	Server Rame	[5475] Nettuno 155						
Automatic Add Manual Add	License	3.0.0, Connections max, Users max,						
Peripherals Manual Add		LPR 1024, EMO 0, ACT 0, EXT 1024						
STORAGE PTZ		Expire: None						
EVENT NOTIFICATION	Sources	Tot 1 (Tot 1 = LPR 0+EMO 0+ACT 0+EXT 1)						
LICENSE PLATES DAT	Residual Sources	Tot 2047 = LPR 1024+EMO 0+ACT 0+EXT 102						
	Manual Config							
	-Hardware Configuration		Network Configura	ation				
	Camera Count		First IP				RTSP Port	
	Camera Type	ONVIF	Last IP				HTTP Port	
		AVIS BOLIDE BOSCH		Use	e Single IP Add	lress		
	-Software Configuration	CANON						
	Username	D-LINK DYNACOLOR FLVOX	License					
	Password	ELVOX-HD EUKUS EUKUS-2 GENERIC-RTSP	Base Name					
	Confirm Configu	GRUNDIG ration HIKVISIONIP						
		IQINVISION MOBOTK ONVE ONVE MULTCHANNEL ORCA PANASONIC PANAOMERA SAMSUNG SENTRY2 SENTRY2 SENTRY2 SENTRY260 TATTILE VISIONHITECH WISENET						

The name "ONVIF MULTICHANNEL" already makes it clear that it is a sort of ONVIF video channel: it is not possible to have the functionality of a multichannel camera and NVR for other types of video channels (example: Generic-RTSP, AXIS, BOSCH...).

When selecting "ONVIF MULTICHANNEL" you need to define the number of video sources which can vary from 2 to 4 (default value):

fanual Config						
-Hardware Configuration -		Network Configura	ntion			
Camera Count		First IP			RTSP Port	
Camera Type	ONVIF MULTICHANNEL	Last IP			HTTP Port	
Video Sources						
Software Configuration —						
Username		License				
Password		Base Name				
Confirm Configurat						
Confirm Configurat						



The multi-channel camera license is included in the current license types: EXT (Extreme), ACT (Active), EMO (Emotion), and PUR (Pure), but not for the LPR (License Plate Recognition) license.

Below is an example of an "EXT license" with an "ONVIF MULTICHANNEL" camera type with four video sources:

		Network Configuration -			
Camera Count		First IP		RTSP Port	554
Camera Type		Last IP		HTTP Port	
Video Sources					
Software Configuration —					
Username	admin				
		Race Name			

At the camera management level, in the device tree it will appear as follows:

₹×	88 88 88	88 88 8	8 88 88
^	[5473] Nettuno .135 CAMERAS		
	Setup and Live	ONVIF MULTICHANN	EL
		Test	
		, cov	
		Channel License	EXT
		Mode	OIP OURL
		IP/URL Address	10 . 10 . 10 . 10
		HTTP Port	80
		User	admin
		Password	******
		DTCD Date	554
	ax	** BB BB [5473] Nettuno .135 CAMERAS Setup and Live	** BB <



NVR device licensing is optional for "Extreme" and "uSee" server licenses only (not for ACTIVE, EMOTION, or PURE server licenses).

Four NVR licenses were created based on the number of available video channels

- NVR-16
- NVR-32
- NVR-64
- NVR-128

Below an example of adding a 16-channel NVR (NVR-16):

		Network Configuration						
Camera Count		First IP					RTSP Port	
Camera Type		Last IP					HTTP Port	
Video Sources	16							
oftware Configuration –		~						
Username	admin		NVR-16					
Password	****	Base Name	NVR-16-chann	els				

For these types of license channels you have defined limitations, you cannot enable the following registration modes:

- 1. Master Recording
- 2. Auxiliary Recording
- 3. HLS Registration

It will be possible to have the recording of the "Sequential Image Storage" (Thumbnails Track).

Note: In both cases, automatic device addition is also possible.

ar	Ê	כ	
Primary Recording —			_
🗏 Enable Primary Rec	tording		1053
Codec	Main 71.204		
Codec Resolution	1280 x 720		R
Frame Rate		25	
Quality			
		3	
Recording on Even			
🖩 Record audio track			
🗏 Edge Auto Backup			
Show remote stora	ge bar		
🗏 Play in UTC Time	2		
Event Settings			_
Pre-Event Recording	(sec.)		
Post-Event Recording	(sec.)		
Post-Event Frame Rat	te		
-		4	
Web Client Settings —			
Enable HLS Live			
Enable HLS Record	ings		
Enable Sequential	Pictures Storage		

BUGFIX

- 1. Fixed issue about the lost of Omnia configuration
- 2. Fixed issue about login on a server with a lot of cameras (+250 cameras)
- 3. Fixed crashes on the server in case of audio feature enabled
- 4. Fixed issue about the use of uSee in case of Failover Server
- 5. Fixed issues about recording autodelete in case of current folder
- 6. Solved issue about server crashes in case of adding/removing cameras
- 7. Fixed issue about the update from an old server (production version) to a new one in case of multiple cameras on the same IP/Http port/Rtsp port
- 8. Fixed a server crash issue about a ONVIF camera with audio
- 9. Fixed a problem about the addition of new Multichannels camera
- 10. Fixed a server issue related to the drawing of privacy blur area
- 11. Fixed catch-up playlist timeout on Demo-LPR SERVER
- 12. Fixed a server crash when sending RTSP stream.
- 13. Fixed an issue that in some cases the HLS video live does not start if the audio track is available
- 14. Fixed an issue in some cameras where the ONVIF event list appeared empty.

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