Community Platform incorprated into Camera Find Added **Screenshots** More fogiving URL path input Changed Purpose Usage Improved alarm handling for inactive IVS (motion detection and object tracking) Changed Purpose Usage Simplified motion detection configuration Added Purpose Usage Automatic recovery from critical disk Error (Storage Monitor) Added Purpose Limitation Usage Added: Connect to remote NVR using domain name Added Purpose Issue: Lite edition - 5x5 matrix layout won't save in pattern page First Occurrence **Affected Functions Status Symptoms** Workaround Issue: Internet Explorer will not open under Windows 8 First Occurrence Affected Functions **Status Symptoms** Workaround Issue: PacketBufSize sometimes not working First Occurrence Affected Functions **Status Symptoms** Workaround Issue: Cannot change admin password First Occurrence Affected Functions **Status Symptoms**

Workaround How to read Genius Vision Software Changes Table "Changes" Table "IssueVersionGrid" Video aspect minor bug First Occurrence **Affected Functions Status Symptoms** Workaround Issue: Corrupted slot after Windows restart First Occurrence Affected Functions Status Symptoms Workaround Add ET02 for ONVIF InitialTerminationTime issue Status Purpose MaxSize_GB default value issue for non-HDD drives First Occurrence **Affected Functions Status Symptoms** Workaround Issue: ONVIF PTZ free mode sends stop first **Affected Functions Status Symptoms** Workaround Issue: ONVIF PTZ number precision not enough Affected Functions **Status Symptoms** Workaround Updated x64 Enterprise packaging Introduction to 64-bit Architecture **Status** x64 CmE Edition x64 Enterprise Edition **Product Licensing Comparison** New License Type Explained x64 (Enterprise) System Limit Extension MobileOptions for MatrixView **Related Changes** Reference screenshots Multiple client instances with same profile could crash the system

Background Fix PacketBufSize auto resize Added Purpose Usage MainStreamIndex (Recording Stream) Added Purpose Usage TCP Connections setup issue First Occurrence Affected Functions **Status** Symptoms Workaround Edit of Administrators group could lock-up the system Background Fix 2nd stream might not work First Occurrence **Affected Functions** Status **Symptoms** Fixed ONVIF config change checking for Stream 2 Fixed ONVIF missing SessionTimeout for SetVideoEncoderConfiguration (technical) Add credential info in tooltip for NVR channel Fixed an issue that IP-address control is too short Workaround License manager issue under Win XP **Affected Functions Status Symptoms** Workaround SyncPlay pause may cause memory overflow First Occurrence Reported by **Affected Functions Status Symptoms** Fixed IE embedded full console cannot change to full screen Affected Functions Status **Symptoms** IVS indication problem **First Occurrence** Affected Functions

Status Symptoms Workaround Added MobileOptions to reduce mobile APP bandwidth Added Purpose Usage Fixed ONVIF-find support for non-standard HTTP port **Status** Symptoms Workaround Fixed a ONVIF issue that GetOptions is missing VideoSourceToken. Also added imaging20 compatibility. <u>Synopsis</u> GetOptions is missing VideoSourceToken Added imaging20 compatibility Changed driver list to alphabet order Enhanced FileSize_MB strategy for StorageConfig and changed its validation. Added Purpose Usage

Community Platform incorprated into Camera Find

Added Version 916

Screenshots

System Configuration				X
Local Console Configurati System Configuration Recording Storage Se License Agreement External PTZ module	find/discovery info the same type of	Community As rm is an initiative to improve global IF ormation, you can contribute to the I camera you're using. You also benef r more information: http://geniusvisio	P video community to help eveyo it from the knowledge shared by on.net/cp	one connecting to
 Hotkey List Calculator NVR Connections VR Connections All Channels Coal Channels Find Cameras Community Find Trigger Policy Maps Pattern Page Users User Groups Export/Import Plugins 	IP 192.168.0.23 192.168.0.23 0.0.0 0.0.0 192.168.0.15 192.168.0.23 192.168.1.17 192.168.1.15 192.168.1.15 192.168.1.11 192.168.1.30 192.168.1.32 192.168.0.91 192.168.0.15	Description 192.168.0.23//CH_001 192.168.0.23//StarDot_001 AVerMedia HD Capture C985 USB 視訊装置 NVR NVR PlayMemories Home - Pegasus NVR NVR PlayMemories Home - Pegasus NVR NVR PlayMemories Home - Pegasus Network Camera (192.168.1 ONVIF GV-A-xxxx - 000EAEA002D0 AXIS M3006 - ACCC8E0DE1FA ONVIF Network Camera (192.168.1.2) DVS-8301 1-Ch Video Server	MAC ac:cc:8e:0d:e1:fa 00:30:f4:00:f0:ff @device:pnp:\\?\pci#ven_1af. @device:pnp:\\?\usb#vid_04 30:85:A9:40:B5:73 50:46:5D:71:CC:46 90:2B:34:5F:4C:E3 F0:DE:F1:9A:F2:33 30:85:A9:40:B5:73 90:2B:34:5F:4C:E3 A8:1B:18:2D:E2:51 18:4E:94:00:77:32 00:0E:AE:A0:02:D0 AC:CC:8E:0D:E1:FA 00:30:F4:00:F0:FF A8:1B:18:2D:E2:4D 00:02:AB:0D:3F:12	
< <u> </u>			Apply	OK Cancel

Console Configurati	4	(no match)	000EAEA002D0			
ystem Configuration ecording Storage Se			Suggested RTSP settings		rtsp://ip- addr/	TRY
cense Agreement xternal PTZ module			Suggested ONVIF settings		(ONVIF)	TRY
Aux Module ystem Info.	5	192.168.0.91 (already added)	ONVIF			
Iculator /R Connections Channels	6	192.168.1.30 (already added)	Messoa	SPD970	(ONVIF) UsrPwd PT2 Event	CONNECT
Local Channels	7	192.168.1.15	NVR			CONNECT
nd Cameras	8	192.168.0.23	NVR			CONNECT
rigger Policy aps	9	192.168.1.17	PlayMemories Home – Pegasus			CONNECT
ttern Page ers er Groups	10	192.168.1.2 (already added)	EtroVision	SD20XDN2MP	(ONVIF)	CONNECT
port/Import gins	11	192.168.1.111 (no match)	Network Camera (192.168.1.111)			
			Suggested RTSP settings		rtsp://ip- addr/	TRY
			Suggested ONVIF settings		(ONVIF)	TRY
4 III	12	192.168.0.90 (already	AXIS M3006 -			

More fogiving URL path input

Changed

915

Purpose

Camera Setup	7 34		×
Camera Setup Camera Setup Video Setup Preview Scheduled Recording PTZ Setup	Add Delete	s Default	
PTZ Setup External PTZ moc Setup Video Analytics Setup O module Share with Communit	Description	n Default Based On	_
Video Analytics Setup	Record RTSP RTSP Advan	anced	
IO module	RTSPPort 🔲 -	554 Port number of RTSP	
	UrlPath 🔽 /	/mjpeg /mjpeg Path part of the RTSP U	JRL.
۰ III - I	StreamUseTCP	Select to use TCP tunneling while streaming	mode
		Арріу ОК	Cancel

When inputing URL relative path there are two forms; starting with or without a slash. For example:

With slash	/mjpeg
Without slash	mjpeg

Both forms seem correct but only the later works. If the one with slash is used, NVR will compose a URL like this and fail:

rtsp://192.168.0.101:8558//mjpeg

In version 915, auto check is added for RTSPCam, HTTPCamera, and GenericCamera. Now user inputted URLs with or without slash both work as intended.

Usage

NVR automatically composes correct URLs and there's nothing needed to be done by users.

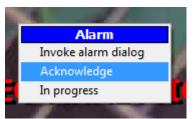
Improved alarm handling for inactive IVS (motion detection and object tracking)

Changed 915

Purpose

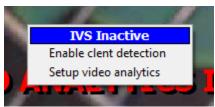


If users setup video analytics but it's not running, NVR fires an alarm of "VIDEO ANALYTICS INACTIVE". There's a problem with this alarm because the state of being inactive is persistent. The alarm will be fired again immediately after users acknowledging it. Users must either enable detection or reset analytics configuration or the alarm can't be dismissed.



In version 915 an improved menu is created specifically for this alarm for users to manage it easily.

Usage



When the alarm is active, the alarm menu is replaced with IVS Inactive menu. Users can enable client detection or open video analytics setup dialog. Enabling client detection immediately dismisses the alarm. In video analytics setup dialog, users can reset configuration (if video analytics is not wanted) or enable server-side detection. (which consumes significant system resource in background)

Simplified motion detection configuration

Added 915

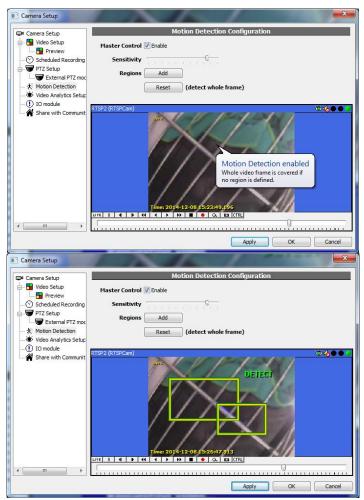
Purpose

Camera Setup		a video		Function Object	Setup					x
Camera Setup	New S-Motion	CH_003 (Megapixel IP Cam(192.168.1.33))	••••	Channel	RTSP2/	/042b4125-81b(0-4738-bc60-49	87c0aad72	d Driver RTSPCam	
	Track	LiveS		Description					Class Software Motior 👻	
PTZ Setup External PTZ moc Wideo Analytics Setup IO module	Camera Motion		s-Motion RGI	Active Profile	Default	t		Others << >>		
	Operations	ίμγ Z		Software Motion Det	ection	Channel Ctrl.				
	Commom la:		S-Motion RDI			Motion D	etection Pa	rameter	S	
	Revert	Track		Threshol	d	15		Thr	eshold	
	Clear		S-Motion	Hysteresi	s 🔳		1s	▼ Hys	teresis of motion	Ξ
	Agent	me: 201 -12-08 15:13:52.31		BufferMod	e 🔳		64k	▼ Buf	fer mode	
	Stream			Fp	s 🔳		5fps	▼ Con	nputer vision analysis frame rate	e 🖳
۰	Auto *			TamperDetec	t 🔳		off	▼ Tan	nper detection sensitivity	-
			Apply OK Cancel					Apply	OK Canc	:el

Genius Vision NVR has a very flexible and powerful video analytics configuration that supports multiple instances of detection, multiple ROIs (region of interest), and shared ROIs for multiple instances of detection with different parameters. But this is unnecessarily overwhelming for users who just want simple motion detection (VMD). And the learning curve is steep even for simpliest detection.

In version 915 a simple configuration for motion detection is added.

Usage



In Motion Detection Configuration (just above the original Video Analytics Setup) there're only limited (and most used) options for users:

Enable/disable motion detection

Change sensitivity

Add ROIs (region of interest)

Reset ROIs (detect whole video)

Automatic recovery from critical disk Error (Storage Monitor)

Added Version 915

Purpose

When storage encounters a critical error (be it hardware malfunction, driver error, or OS error), NVR storage subsystem may fail to mount, making NVR unable to record any video. Storage monitor add corrupted file to a blacklist and avoid it to make sure storage subsystem works.

Limitation

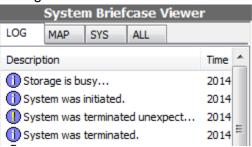
Storage monitor only prevents NVR from accessing corrupted data that stalls storage subsystem. It does not...

- 1. Fix hard drive malfunction.
- 2. Recover corrupted data.
- 3. Detect corrupted video and recover it.

Disk space will be lost for any corrupted file blacklisted.

Usage

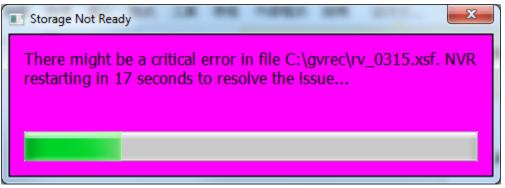
On NVR start, storage is busy scanning files...



If it takes longer than usual to finish, warning message pop-ups and shows scanning progress.

Storage Not Ready	A . MI Densel (see 1 (iii) 100 (100)	×
	em takes longer than usual to mount. O error. Files scanning in progress	

If any file takes too much time to be opend, NVR blacklists that file and restart. After restart, the file will be skipped to avoid critical error.



On NVR startup, if there's any blacklisted file, Critical Disk Error dialog pops up and in system logs all affected drives are listed.

ſ	Critical Disk Error	
		cklisted because NVR failed to open these files on last startup. The files will no to avoid critical error. NVR can still run but there's possible disk malfunction and ffected drives are:
	C: 1 file(s)	
Syste		
LOG(1) MAP	Help Fin	d more information about this issue
Description	Reset blacklist Cle	ar blacklist and let NVR open affected files. (usually after disk being replaced)
Storage is or Storage is be	Close Clo	se this dialog. (can be opened in the future with system logs)
System was		
BDrive C: has 1	L blacklisted recordin 2014	
🕕 System was in	nitiated. 2014	

NVR probably already blacklisted all affected files and storage may come online. But this message usually indicates that there's a critical error in hard drive, possibly caused by hardware malfunction. There's a high risk that recording will fail or recorded video will be lost. Users are suggested to do the following procedure...

- Find which hard disk drives the affected logical drives are located on
- Replace all affected hard disk drives except system one (usually C:)
- Run NVR and click "Reset blacklist" in Critical Disk Error dialog
- Restart NVR
- If system drive is affected, avoid using it for recording

Critical Disk Error	
Blacklist is reseted. The files will be used for recording after NVR restart.	
Help Find more information about this issue	
Reset blacklist Clear blacklist and let NVR open affected files. (usually a	ter disk being replaced)
Close Close this dialog. (can be opened in the future with syste	m logs)

The dialog can also be opened in system logs.

_ ' _ <u>.</u>			
() System was terr	minated unexpect	2014	
🛞 Drive C: has 1 h	lacklisted recordin	2014	
O System wa	Manage blacklist.		-
C:\gvrec\rv_03	15.xsf blacklisted	2014	

Replacing problematic hard disk drives is the only way to fix critical disk error and keep NVR stable and healthy.



Added: Connect to remote NVR using domain name

Added Added in 879

Purpose

Suggested by a number of user feedback, now we allow connecting to remote NVR using domain names, in addition to IP-address-only.

Connection Ag	gent	-		— X
Remote Host IP	geniusvision.net	▼ Profile	3	•
		Connect		Make Shortcut

Issue: Lite edition - 5x5 matrix layout won't save in pattern page

First Occurrence Long-standing

Affected Functions This issue only affects Lite edition.

Status

Fixed in 879

Symptoms

When changing to 5x5 matrix layout in pattern page, the state of the page will not be auto-saved. So next time you open the console, that page won't exist.

Workaround Instead of using 5x5, you can use 6x6, which still can be auto-saved.

Issue: Internet Explorer will not open under Windows 8

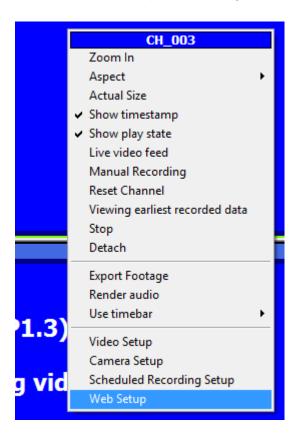
First Occurrence

This is a long-standing issue.

Affected Functions

It's known to affect functions that involves opening a full window Internet Explorer to show something, that under Windows 8, the browser window will not open. Including:

1. Web Setup



2. ONVIF test report

	CH_002
	Zoom In
13:33:37	Aspect 🕨
	Actual Size
	 Show timestamp
	 Show play state
	Live video feed
12 (D1 2	Manual Recording
02 (P1.3	Reset Channel
	Viewing earliest recorded data
sting vi	Stop
Sting vit	Detach
	Export Footage
	Render audio
	Use timebar 🔹 🕨 🕨
	Video Setup
	Camera Setup
	Scheduled Recording Setup
	Web Setup
	ONVIF test report

Status Fixed in 878

Symptoms The browser window will not open, no error message is given.

Workaround

Under Windows 8, there is no known workaround. The only way is not to use it.

Issue: PacketBufSize sometimes not working

First Occurrence Version 873

Affected Functions RTSP buffer overflow auto-resolve

Status Fixed in 878

Symptoms

In some cameras, overflow occurs rarely. At the checkpoint of auto-resolve mechanism, there may not be overflow and buffer size is not increased.

Workaround Increase buffer size manually.

Issue: Cannot change admin password

First Occurrence Version 873

Affected Functions User management for default user "admin"

Status Fixed in 877

Symptoms

Password/description for default user "admin" cannot be changed. Upon OK/Apply, system logs "System config changed" but not "User 'admin' changed". The change is not saved.

Image 1. Before 873, successful change of user 'admin'.

⚠️ User 'admin' changed by 'admin'. ⚠️ System config changed by admin.

Image 2. Bugged behavior. User 'admin' is not changed.

System was terminated.
 System config changed by admin.

Workaround Install version 872 and change password

How to read Genius Vision Software Changes

There are 2 tables in Software Changes: Changes and IssueVersionGrid.

Table "Changes"

This lists known issues and their fix, if it's fixed. The IDs are coded as following:

- TA Technical Articles are usually for engineers regarding integration or testing.
- A Articles are for end-users providing information on operations or setup.
- KI Known Issues are issues affecting only certain versions of software.
- LI Long-standing Issues are issues that exist since early stage of software and almost affect all users.

Taking the 3rd row "KI:MaxSzNonHdd" issue as an example:

- It's introduced in version 873. So if you are using 872 than you are not affected, but if you are using 874, then you are affected.
- Column "Changed" usually means fixed if the item is a KI. So if you are using 873, update to 875 can solve the issue.
- If the version number shows as **Upcoming**, it means a version containing that change is yet to be released and will likely to be released in next version.
- Click "Information" for more detail about the issue. Sometimes there're workarounds if you don't want to update software or if a fix is not available yet. You also need the details to explain to customers.

🖽 Genius Vision S	oftware Ch ×	11 In 11 In 11			
← → C' fi	https://docs.google.com/spreadsheet/pub?key=0Anm/	MRiHiy2fdERf	dmpKYk 숬	v 🛛 🄇) 🤉 🛃 🔳 =
Genius Vision S	oftware Changes				
	eVersionGrid				
ID [1]	Description	Since	Changed [2]	Severity	Information
TA:OV-UserManual	Setup Genius Vision NVR for ONVIF Testing		-		https://docs.google.(
A:ET02-OV	Add ET02 for ONVIF InitialTerminationTime issue		875		https://docs.google.(
KI:MaxSzNonHdd	StgConfig MaxSize GB issue with non-HDD drives	873	875	High	https://docs.google.
LI:RestartCrptSlot	Restart Windows causes corrupted recording file		875		https://docs.google.(
LI:OV-free-RStop	Issue: ONVIF PTZ free mode sends stop first		875		https://docs.google.(
LI:OV-PTZ-NP	Issue: ONVIF PTZ number precision not enough		875		https://docs.google.(
TA:ONVIF-PTZ	How to operate ONVIF PTZ?		-		https://docs.google.(
A:x64EntPkg	Updated x64 Enterprise packaging.		874		https://docs.google.(
A:MobOptForMV	Added 20x20 layout for x64 Enterprise, MobileOptions for MV		874		https://docs.google.(
l:MultiCIntOpen	Multiple client instances with same profile crash the system		873		https://docs.google.(
L:AdmGrpChg	Edit of Administrators group could lock-up the system		873		https://docs.google.(
KI:TCP-setup-prob	A:TCP-setup known issue	857	873		https://docs.google.(
A:RecStreamIdx	Added MainStreamIndex (RecStream) option.		873		https://docs.google.(
A:IncConStgMon64	Increase connection, storage, monitor limits for x64.		873		https://docs.google.(
A:PktBufSzDet	PacketBufSz resize auto-detection		873		https://docs.google.(
TA:SetupOVDIO	How to setup & verify ONVIF DIO (Digital Input/Relay Output)		-		https://docs.google.(
KI:2ndStream	2nd stream might not work	865	872	High	https://docs.google.
TA:SysIntManual	System Integrator's Manual		-		https://docs.google.e

Table "IssueVersionGrid"

The table visualized affected versions. "X" means the issue is present. "<" means the issue is fixed. Bugs can be introduced during software development and you may not be satisfied with every change of newer versions. So don't blindly update to the latest version. Use the table to find the issues that currently bother you and install "**Suggested Upgrade**" to fix the active issues without changing the system dramatically.

Published Issues [1]	875	874	873	872	871	870	869	868	867	866	865	864	863	862	861	859	858	857	856	85
Suggested Upgrade	-	875	875	-	872	872	872	872	872	872	872	-	-	863	863	863	863	863	863	863
Defective [2]																				
KI:MaxSzNonHdd	<	Х	Х																	
KI:TCP-setup-prob			<	Х	X	X	X	X	X	X	X	Х	Х	Х	Х	Х	Х	Х		
KI:2ndStream				<	Х	Х	Х	Х	Х	Х	Х									
KI:XP+Organizer									<	Х	Х	Х	X	Х	Х	Х	X	Х	Х	Х
KI:IVSIndicProb																		<	Х	Х
KI:PanoNptzlfVloss																				
[1] "X" means the[2] If "Defective" isPublished by Goog	indica	ted "X",	it mea	ns the	specifie	ed build	l contai	ins criti	cal prol	blems a	and sho	uldn't b	e used							

Video aspect minor bug

First Occurrence Version 741

Affected Functions

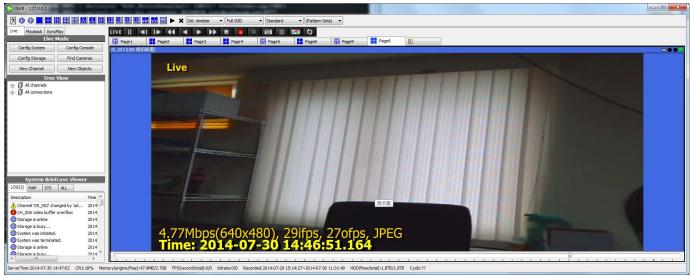
Video rendering, only when **Maintain aspect** is selected and player window size is twice larger (any of the two sides) than actual video. This bug rarely occur on megapixel cameras.

System Configuration	at a planet.	Contras o Automa a	×
Η Local Console Configurati		Primary Interface Setting	S
🗐 System Configuration	Active Locale	English 👻	
Recording Storage Se		Change of active locale requires restart progra	am to take effective
System Info.		Maintain aspect	
🛆 Hotkey List	-	· · · · · · · · · · · · · · · · · · ·	
Calculator	Compatible mode	Enable only when there's rendering probler	m
NVR Connections	Export/Snapshot Path	C:\Users\ee\Documents\	Browse Directory
All Channels		Miscellaneous	
End Cameras			
Trigger Policy	Reset PatternSet	Reset pattern set on startup	
Maps	Tour Delay(sec)	5	
Pattern Page	Map Icon Size	Modium	Group neighboring channels
Users	Plap Icon Size	Medium	
		Show map object tag	
Export/Import	Alarm Sound	No Sound	Switch to 1x1 on alarm
Plugins			
🚊 🐨 🐨 External PTZ module		Loop alarm sound	5
Aux Module	Date Time Format	YMD 👻	
Image: Image			
		A	Apply OK Cancel

Status Fixed in 876

Symptoms

When player is twice larger (any of the two sides) than actual video, player no longer maintain aspect ratio of the video.



Workaround

- Select Aspect Mode other than Maintain aspect.
- Increase video resolution so it better fits the resolution of monitor.

Issue: Corrupted slot after Windows restart

First Occurrence Long-standing

Affected Functions

Service mode only. (Hybrid is not affected)

Status Fxied in 875

Symptoms

After Windows restart by user request, system appears to be terminated abnormally and there's corrupted slot.

	Devices and	Printers						
			Switch	h user				
	Default Prog	gram	Log o	ff				
	Help and Su	ippor	Lock					
			Restar	rt				
٩	Shut down	Þ	Sleep Hiber	the			programs lows agai	;, shuts down Windows, and n.
		5	Syster	m Briefo	ase V	iewe	r	
		LOG(1)	MAP	SYS	ALL			
		Description				Time 🔺		
		Corrupted: C:\gvrec\rv_0001.xsf			xsf	2014		
		1 Stora	-				2014	
		1 Stora	-	-			2014	
		X		terminate	lunexp	ect	2014	
		🕕 Syste	em was i	initiated.			2014	

Workaround

Shutdown NVR engine manually before shutdown or restart Windows.

Add ET02 for ONVIF InitialTerminationTime issue

Status This is added in 875

Purpose

The reason for this parameter is detailed in the following technical article:

What is the InitialTerminationTime issue

The difference between ET01 and ET02 can be illustrated in the following XML:

ET01

<?xml version="1.0" encoding="UTF-8"?> <soap:Envelope xmlns:tt="http://www.onvif.org/ver10/schema" xmlns:soap="http://www.w3.org/2003/05/soap-envelope" xmlns:tds="http://www.onvif.org/ver10/device/wsdl" xmlns:wsa="http://www.w3.org/2005/08/addressing" xmlns:wsd="http://schemas.xmlsoap.org/ws/2005/04/discovery" xmlns:wsse="http://docs.oasisopen.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd" xmlns:wsu="http://docs.oasisopen.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd" xmlns:trt="http://www.onvif.org/ver10/media/wsdl" xmlns:wsdp="http://schemas.xmlsoap.org/ws/2006/02/devprof" xmlns:timg="http://www.onvif.org/ver10/imaging/wsdl" xmlns:ovi20="http://www.onvif.org/ver20/imaging/wsdl" xmlns:ove="http://www.onvif.org/ver20/imaging/wsdl" xmlns:ovi20="http://www.onvif.org/ver10/events/wsdl" xmlns:wsnt="http://docs.oasis-open.org/wsn/b-2" xmlns:ovi20="http://www.onvif.org/ver10/deviceIO/wsdl" xmlns:ovz="http://www.onvif.org/ver10/ptz/wsdl" xmlns:ovz20="http://www.onvif.org/ver20/ptz/wsdl" xmlns:xsi="http://www.onvif.org/ver10/ptz/wsdl" xmlns:ovz20="http://www.onvif.org/ver20/ptz/wsdl" xmlns:xsi="http://www.w3.org/2001/XMLSchemainstance"> <soap:Body> <ove:CreatePullPointSubscription> <ove:InitialTerminationTime>PT30S</ove:InitialTerminationTime>

</ove:CreatePullPointSubscription> </soap:Body>

</soap:Envelope>

ET02

<?xml version="1.0" encoding="UTF-8"?> <soap:Envelope xmlns:tt="http://www.onvif.org/ver10/schema" xmlns:soap="http://www.w3.org/2003/05/soap-envelope" xmlns:tds="http://www.onvif.org/ver10/device/wsdl" xmlns:wsa="http://www.w3.org/2005/08/addressing" xmlns:wsd="http://schemas.xmlsoap.org/ws/2005/04/discovery" xmlns:wsse="http://docs.oasisopen.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd" xmlns:wsu="http://docs.oasisopen.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd" xmlns:trt="http://www.onvif.org/ver10/media/wsdl" xmlns:wsdp="http://schemas.xmlsoap.org/ws/2006/02/devprof" xmlns:timg="http://www.onvif.org/ver10/imaging/wsdl" xmlns:ovi20="http://www.onvif.org/ver20/imaging/wsdl" xmlns:ove="http://www.onvif.org/ver10/events/wsdl" xmlns:wsnt="http://docs.oasis-open.org/wsn/b-2" xmlns:ovio="http://www.onvif.org/ver10/deviceIO/wsdl" xmlns:ovz="http://www.onvif.org/ver10/ptz/wsdl" xmlns:ovz20="http://www.onvif.org/ver20/ptz/wsdl" xmlns:xsi="http://www.w3.org/2001/XMLSchemainstance"> <soap:Body> <ove:CreatePullPointSubscription> <ove:InitialTerminationTime xsi:nil="true" /> </ove:CreatePullPointSubscription> </soap:Body> </soap:Envelope>

MaxSize_GB default value issue for non-HDD drives

First Occurrence Version 873

Affected Functions Storage Configuration, read-only drives.

Status Fixed in 875

Symptoms

When a read-only drive is selected in **Storage Config**, non-numerical text appears in **MaxSize_GB** and it's can't be saved because it's not a valid value.

System Configuration	to a person of the	() and the	- Carlo	
Local Console Configu	Directories Add Delete	(Default) C:\gvrec\ D:\gvrec\ E:\gvrec\ G:\gvrec\ K:\gvrec\		
WVR Connections WVR Connections W All Channels W Local Channel	Director Storage Advanced	ry D:\gvrec\		Based On Default
Find Cameras	Enabled	no	no 🔻	Enables recording and playback on this directory
Maps	MaxSize_GB	gv.stgconfig.	g.maxsize.default	Defines maximum used size in GB
Pattern Page	SafeFreeSize_GB	5	5	es minimum safe free snace in GR
	FileSize_MB	1000	1000	Validation error for 'MaxSize_GB' Message: Only allow integer range from 1 to 2
				Apply OK Cancel

Workaround

Manually input a valid value and click **Apply**.

System Configuration	an - Constant of the	(Cardin	a a de lande	×
Local Console Configu 🔺		(Default))	
System Configura	Directories	C:\gvrec		
Recording Storage	Add	E:\gvrec		
System Info.		G:\gvrec		
🛆 Hotkey List	Delete	K:\gvrec	1	
Calculator 📃				
WR Connections	Director	rv D:\gvrec	١	Based On Default
🚊 🖓 🖓 All Channels		.,	•	
🖵 Local Channe	Storage Advanced			
Find Cameras	Enabled	no	no -	Enables recording and playback on this directory
📘 Trigger Policy	Eliableu 🔳	no	no 🔻	Enables recording and playback on this directory
Maps	MaxSize_GB	1000	1000	Defines maximum used size in GB
Pattern Page	SafeFreeSize_GB	5	5	Defines minimum safe free space in GB.
😕 Users	Salerreesize_GD	5	5	Dennes minimum sale nee space in Gb.
Hear Groupe	FileSize_MB	1000	1000	Defines the size of a single file in MB.
	ļ			Apply OK Cancel

Issue: ONVIF PTZ free mode sends stop first

Affected Functions ONVIF PTZ.

Status Fixed in 875

Symptoms

At random times, the NVR software will send a **ContinuousMove** command with x=0, y=0 prior to actual commands. Some PTZ camera will treat such command as **Stop** command and will introduce additional delay.

Workaround

There is no known workaround on the NVR side, except to upgrade to newer version.

Issue: ONVIF PTZ number precision not enough

Affected Functions ONVIF PTZ.

Status Fixed in 875

Symptoms

NVR will send ONVIF **ContinuousMove** command with x=0, y=0, where in reality x and y can be a very small number. Some PTZ camera will treat such command as **Stop** command and will introduce additional delay.

Workaround

There is no known workaround on the NVR side, except to upgrade to newer version.

Updated x64 Enterprise packaging

Introduction to 64-bit Architecture

• See presentation: Genius Vision 64-bit Architecture

Status

• Starting from version 874, x64 Enterprise enters BETA trial.

x64 CmE Edition

• No additional requirement, same license packaging as CmE 32-bit.

x64 Enterprise Edition

- Require an additional per/server Enterprise license: copye
- Per-channel license is compatible with Commercial Edition (32-bit): pro, ipr, pano
- Demo mode: if demo code is used, minimum number of channel Professional, Intelligent, and Panorama is 8, for proper trial to work.

Product Licensing Comparison

	Requires additional copye license	Per Camera Commercial License (pro, ipr, pano)
Commercial Edition (32-bit)	No	Yes
Enterprise Edition (64-bit)	Yes	Yes
Community Edition 32-bit	No	Not applicable
Community Edition 64-bit	No	Not applicable

New License Type Explained

- **New license type: copye** is a new license type that will be available for purchase. License fee will be defined somewhere else.
- License applicability & installation: For Enterprise Edition, one server (PC) requires exactly one unit of **copye** to function correctly, otherwise "Protection lock error" will be encountered and the software won't start. This special license code will be asked at installation time (see **Image 4**).
- **Trial & production mode**: In demo mode, **copye** comes with 8-channel of trial license with IVS and panorama features enabled to facilitate trial purpose. In product mode (non-trial), **copye** does not bring additional per-camera license. Therefore additional per camera license (such as **pro, ipr, pano**) must be purchased and installed separately.

x64 (Enterprise) System Limit Extension

Due to the fact that x64-based system comes with more available system resource (if configured properly), x64 build of NVR software has extended several system limits and/or default values, as illustrated below:

	32 bit	64 bit
Maximum allowed TCPConnections (Image 1)	1,000	2,000
Default TCPConnections	150	1,000
Storage MaxSize_GB per directory (Image 2)	20,000	80,000
Default MaxSize_GB per directory	1,000	1,000
Maximum number of monitors supported (Image 3)	6	8
Maximum number of matrix view	256 (16x16)	400 (20x20)

MobileOptions for MatrixView

After version 874, matrix layout 20x20 is added to utilize full power of 64 bit Enterprise Edition . To increase system stability, layout larger than 10x10 request stream with <u>MobileOptions</u> with an interval of 3 seconds, which means video is limited at maximum of $\frac{1}{3}$ FPS.

So far the mechanism is automatic and there's no option or configuration for it.

NVR - 127.0.0.1	
	👫 🏥 🛄 🏥 📰 📰 🕨 🗙 Simple toolbar 🔹 Simple OSD 🔹 Standard 🔹 (Pattern Sets) 🔹
Live Playback SyncPlay	LIVE
Live Mode	Page1 Page2 Page3 Page4 🚺 Page5 Page6 🛃 🛃
Config System Config Console	
Config Storage Find Cameras	I WARE UNDER UNDER UNDER UNDER UNDER UNDER UNDER UNDER
New Channel New Objects	
Tree View	ho
in all connections	hohohohohohohohohohohoho
	hohohohohohohohohoho
	RORORORORORORORORORORO
	RORORORORORORORORORORO
	RORORORORORORORORORO
System Briefcase Viewer	RORORORORORORORORORO
LOG(1) MAP SYS ALL	RORORORORORORORORORORO
ServerTime:2014-06-25 12:04:38 CPU:38%	Memory(engine/free): 103.9MB/3.5GB FPS(record/total): 16/41 bitrate: 757.90Kbps/3.56Mbps Recorded: 2014-01-07 17:03: 45~2

Related Changes

• A:AppMobileOpt

Reference screenshots

System Configuration	
Local Console Configu	Basic Advanced
System Configura	Memory Management
	Limit Memory Use 0
A Hotkey List ≡	Limit memory usage of engine in MB. Set to '0' for no-limit.
Calculator	(NVR/Free/Total Memory) 240.1 MB/2.0 GB/2.0 GB
🗐 NVR Connections	Database Management
All Channels	Database Clean Up 0
Find Cameras	Delete data older than N days (0 = never delete)
	Network Management
Maps	TCP Connections 150000
Pattern Page	*** Beware! Connections increase R server loading and may cause system failure.
• III •	Validation error for 'TCP Connections' Message: Only allow integer range from 150 to 1000

System Configuration	· · · · · · · · · · · · · · · · · · ·	
Image: console Configuration System Configuration Recording Storage Setup System Info. Hotkey List Calculator	Directories Image: Constraint of the second secon	Default) C:\gvrec\(Enabled) D:\gvrec\ E:\gvrec\ S:\gvrec\ (:\gvrec\
NVR Connections I All Channels	Directory C:\gvred	Based On Default
Find Cameras Trigger Policy Maps	Enabled Vyes MaxSize_GB V 1882000	yes Enables recording and playback on this directory 1882000 Defines maximum used size in GB
Pattern Page	SafeFreeSize_GB 5	5 Validation error for 'MaxSize_GB' Message: Only allow integer range from 1 to 20000

Image 2

Connection Ag	gent			×
Remote Host IP	127.0.0.1	▼ Profile	2 🗸	
-			(Default)	
		Connect	3	
—		reateApartment	5	p.in1:53
- [rps] message - [dq] token:		Server.cpp:16: er.cpp:272]	/	
- IrnslaetThrea		uer\AnSeruer (o rm:3451	
—			8 50053451	

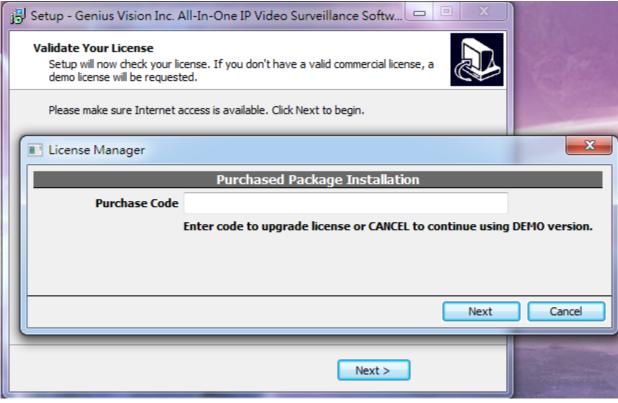


Image 4

Multiple client instances with same profile could crash the system

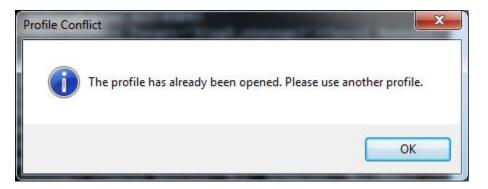
Background

Genius Vision NVR provides the function to open mutiple consoles on single PC, which is usually needed for multiple monitors. When opening consoles, users can select different profiles so states like layout, window position, attached channels, etc, will be stored separately. If 2 or more consoles are opened with same profile, consoles may crash due to conflicting operations on database.

16 16	Connection Age	ent	1		×
6 6	Remote Host IP	192.168.0.25	▼ Profile	2	-
l6 เs⊧				(Default) 2	
16 :e			Connect	3 4	
-	32 6892 INFO	- NvdAp.03DD	4810 createA	5 6	oaderI

Fix

As of version 874, one profile can only be opened with one console.



PacketBufSize auto resize

Added Version 874

Purpose

This fix addresses the packet buffer overflow causing video image to corrupt at bottom by providing semi-automatic hint to adjust packet buffer size. More details please refer to <u>Technical FAQ</u>.

Usage

If any of the channels encounter packet buffer overflow, the following dialog pops up.

CH_007(Network Camera (19	92.168.1.1	
🖓 CH_008((192.168.226.201))	Packet Buffer Overflow	×
🖶 🖵 CH_009(Network Camera (19		
🗍 NVR_001(192.168.0.13)		
瀬 OV_001(192.168.0.2)	One or more channels have encountered RTSP packet buffer overflow.	
🟳 RC_002		
🗄 🖷 🗐 All connections	Help Read more about RTSP packet buffer issue	
•	Setup Open Camera Setup dialog to adjust buffer size.	
Quetem Duiefer en Manue		
System Briefcase Viewer	Auto Let system increase buffer size to resolve the issue.	
LOG(1) MAP SYS ALL	Ignore Ignore this warning permanently.	
Description		
CH_002 video buffer overflow		
() System ack'ed alarm.		
Corrupted: C:\gvrec\rv_0081.xsf		
1 Storage is online		
Storage is busy	2014	
-		

There're 4 actions:

• Help

Opens the document that explains RTSP packet buffer size issue.

• Setup

Opens Camera Setup dialog for user to configure buffer size manually.

• Auto

Let NVR to increase buffer size automatically.

• Ignore

NVR no longer shows this dialog in the future. The warning can still be seen in system logs.

If **Auto** is selected, NVR increases buffer size to resolve the issue automatically. Because NVR can never know exactly how many bytes are required, it will increase buffer size incrementally until video data is not truncated.

	Systen	ı Briefo	ase V	iewei	r	
LOG(1)	MAP	SYS	ALL			
Descripti	on				Time	*
🔥 Chan	nel 'CH_	002' char	nged by	ad	2014	
🚺 СН_О)02 video	buffer o	verflow		2014	
Channel 'CH_002' changed by 'ad			ad	2014		
A Channel 'CH_002' changed by 'ad			2014	=		
A Channel 'CH_002' changed by 'ad			2014			
A Channel 'CH_002' changed by 'ad 2014						
🔥 Chan	nel 'CH_	002' char	nged by	ad	2014	_
🔥 Chan	nel 'CH_	002' char	nged by	ad	2014	
🔥 Chan	nel 'CH_	002' char	nged by	ad	2014	
🔥 Chan	nel 'CH_	002' char	nged by	ad	2014	

MainStreamIndex (Recording Stream)

Added Version 874

Purpose

By default NVR records first stream, which usually has higher quality and data rate. If user wants to record stream other than first one, MainStreamIndex needs to be configured.

Usage

In Record page, Viedeo Setup tab of Camera Setup dialog, find MainStreamIndex.

Camera Setup	
Camera Setup Video Setup Comera Setup Video Setup Scheduled Recording PTZ Setup	Channel CH_009 Driver XTS Configuration Sets Default Add Delete
Uideo Analytics Setup	Description Default Based On Record Video Adjustment RTSP Advanced Stream 2 Advanced VP.XTS.Panic
IO module	StreamActiveTypealways Always streaming or video. always: Always streaming. view_only: Only when user request live video.
	MainStreamIndex Index of the stream for recording.
4 III >	Prio ⁰ 1 PriorityRecording 2 3 Select priority recording mode.
	Apply OK Cancel

There're always 4 options no matter how many streams the camera support. 0 is the default value. Please check if the stream exist before selecting. If the selected stream does not exist, NVR will still record first stream. (stream 0)

TCP Connections setup issue

First Occurrence Version 857 (2013-11-4)

Affected Functions

Configuring TCP Connections limit of remote NVR. (client and server run on different computers)

Connection Agent	- Internet in the	
Remote Host IP 192.168.0.2	▼ Profile	(Default) 🔹
	Connect	Make Shortcut

Status

This issue is fixed in version 874

Symptoms

Upon applying, TCP Connections will be reverted to original value. The value cannot be changed.

System Configuration		
Local Console Configu 🔺	Basic Advanced	
System Configura		Memory Management
Recording Storage	Limit Memory Use	
System Info.	-	
🛆 Hotkey List 🗧		Limit memory usage of engine in MB. Set to '0' for no-limit.
Calculator	(NVR/Free/Total Memory)	171.7 MB/1.2 GB/2.0 GB
🗐 NVR Connections		Database Management
🚊 🖓 🖓 All Channels		
Local Channe	Database Clean Up	U
Find Cameras		Delete data older than N days (0 = never delete)
Trigger Policy		Network Management
Maps	TCP Connections	150
Pattern Page 👻		
< <u> </u>		*** Beware! Connections increase NVR server loading and may cause system failure.
		Apply OK Cancel
L		

Workaround

Configure TCP Connections on NVR server, instead of from remote client.

Edit of Administrators group could lock-up the system

Background

An issue has been reported and confirmed to be an issue of Genius Vision NVR software that if an administrator who belongs to Administrators group and tries to disable the "Manage System" access right,

this could potentially leads to lock-up to an entire NVR server. Removing auto-created user "admin" from Administrators group could also lead to lock-up.

Image 1. Administrator privilege is removed from Administrators group

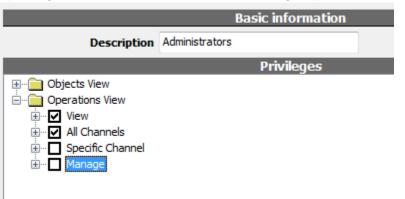


Image 2. User "admin" is removed from Administrators group

💭 Find Cameras	Account Status Account Disabled	
Trigger Policy	Groups	s Selection
🌍 Maps	Administrators	
🚊 🙎 Users		
🙎 admin		
🖃 🦣 User Groups		
Administrators		
Export/Import		
	Privileg	jes Preview
External PTZ module	⊡ Objects View	
Aux Module	Operations View	
-		

Fix

As of version 874, user "admin" and user goup "Administrators" can no longer be edited. They always have administrator privileges. Previously locked system will also be fixed. To protect the system, users **MUST** change default password of user "admin". Please do **NOT** use common default passwords like 1234, pass, root, 9999, 0000, etc.

Image 3. Check boxes are grayed out. Privileges can not be edited.

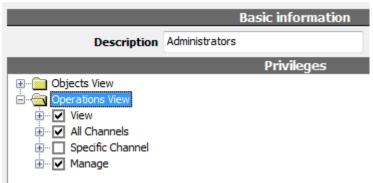


Image 4. Remember to change default password to protect the system.

	User profi	e
Account name	admin	
Display name	Administrator	
Enter new password	••••••	Generate
Confirm new password	••••••	
Account Status	Account Disabled	

Behavior of generating password is also changed. Before the change, when using the button to generating password, **Confirm new password** is filled automatically. Now users have to paste generated password in.

	User profi	e
Account name	admin	
Display name	Administrator	
Enter new password	•••••	Generate
Confirm new password		
Account Status	Account Disabled	

2nd stream might not work

First Occurrence Version 865 (2013-12-23)

Affected Functions

2nd stream for all channels, this includes:

- Stream selection by user request
 - Both local and remote channel are affected
- Layout auto-switch of streams
 - Both local and remote channel are affected
 - Both matrix and full players are affected
 - Only layout of 3x3 or more are affected
- Video analytic
 - Preview in configuration dialog is affected
 - Server-side detect is affected

Status

This issue has been fixed in version 872.

Symptoms

1st stream is always displayed even when 2nd stream is selected, by user or layout auto-switch. And in this state only the first frame of 1st stream is displayed. The video will not update.

Resetting channel sometimes fixes the state temporarily. It's broke again if stream or layout is switched.

No known configuration can fix this state so far.

For video analytic, if 2nd stream or auto is selected for server-side detect, software motion will be constantly triggered even without any motion. (probably it messes frames from both streams?) Selecting **main stream** can fix this.

Image 1. From left to right: main, secondary, auto. They all display 1st stream (2nd stream is JPEG CIF). Top row is local channel and 2nd is remote channel.



Image 2. Video analytic is also affected.

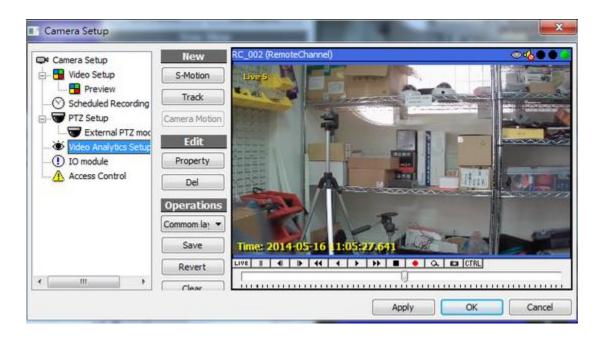


Image 3. Server-side software motion is constantly triggered without any motion.



Fixed ONVIF config change checking for Stream 2

Before version 869, SetVideoEncoderConfiguration for stream 2 does not work properly. Stream 2 ignores user configuration and streams with default encoding/resolution only.

Camera Setup		
Camera Setup Camera Setup Video Setup Composition Scheduled Recording PTZ Setup	Channel Configuration Sets Add Delete	el CH_009 Driver XTS Default ts
External PTZ moc Video Analytics Setup	Description	Default Based On
IO module	Record Video Adjustment	nt RTSP RTSP Advanced Stream 2 Advanced
Access Control		Select streaming mode
	MediaProfile 📝	Profile2 Profile2 Select ONVIF media profile
	Encoding 📝	JPEG Select compression codec
	Resolution 📝	160x120 Telect video resolution
	Quality	Select video quality
4 III +	FrameDatel imit 🔲	Calart frame_rata limit
		Apply OK Cancel

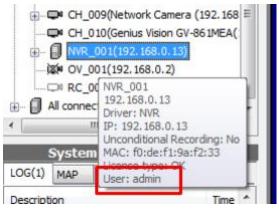
Fixed ONVIF missing SessionTimeout for SetVideoEncoderConfiguration (technical)

Before version 869, SessionTimeout in SetVideoEncoderConfiguration is missing. Some cameras consider this invalid request and encoding/resolution/quality can not be configured at all.

```
<trt:SetVideoEncoderConfiguration>
    <trt:Configuration token="VideoEncoderConfiguration1">
        <tt:Name>VideoEncoderConfiguration1</tt:Name>
        <tt:UseCount>1</tt:UseCount>
        <tt:Encoding>MPEG4</tt:Encoding>
        <tt:Resolution>
            <tt:Width>160</tt:Width>
            <tt:Height>120</tt:Height>
        </tt:Resolution>
        <tt:Quality>3</tt:Quality>
        <tt:RateControl>
            <tt:FrameRateLimit>1</tt:FrameRateLimit>
            <tt:EncodingInterval>1</tt:EncodingInterval>
            <tt:BitrateLimit>1000</tt:BitrateLimit>
        </tt:RateControl>
        <tt:Multicast>
            <tt:Address>
                <tt:Type>IPv4</tt:Type>
                <tt:IPv4Address>0.0.0.0</tt:IPv4Address>
            </tt:Address>
            <tt:Port>10</tt:Port>
            <tt:TTL>255</tt:TTL>
            <tt:AutoStart>true</tt:AutoStart>
        </tt:Multicast>
        <tt:SessionTimeout>PT30M</tt:SessionTimeout>
```

Add credential info in tooltip for NVR channel

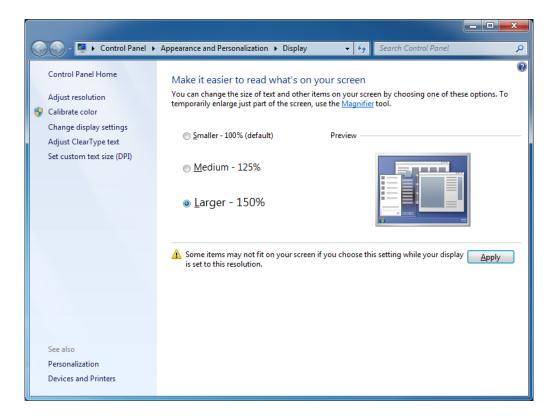
NVR channel (CMS) can be logged on with current user or any specified user in NVR Configuration. To make sure the correct user is logged onto the NVR, hover on NVR channel in Tree View to check active user. This is especially crucial if different users with different privilleges are used for local and remote NVR.



NVR Configuration - NVR	_001			x
NVR Connectivity		NVR Con	nectivity	
System Configuration	Channel name	NVR_001		Driver NVR 👻
Recording Storage Se System Info.		Please	input a name that is u	unique throughout the domain.
Channels	Description	192.168.0.13		
Trigger Policy				
Users	Domain name			
	Enter camera IP address	192 . 168 . 0	. 13 Port 3557	7 Channel 1
	Enter login information	admin	Password ••••	••••••
		Disabled	Integr	rated Security
۰ III + I	Others	Use primary crent	dential	
			Apply	OK Cancel

Fixed an issue that IP-address control is too short

Before version 868 (2014-02-25), IP address edit in large font is too short for 3-digit numbers. This is not only a display issue, it also makes it almost impossible to setup NVR because Windows does not allow input of 3-digit numbers. User have to change to small font (system default) to setup channels.



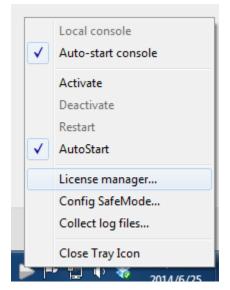
Camera Setup	
🗢 Camera Setup	Camera Setup Clone Settings
📄 🖪 Video Setup	Camera Driver Information
Preview	Channel name CH_002
PTZ Setup	Please input a name that is unique throughout the domain.
External PT	Driver () IP Cam (DirectSho
- 👾 Video Analytic	RTSP video source Remote channel
- ① IO module	ONVIF Series
Access Contro	Description LILIN IPG1022E-000ffc24d636
	Domain name
	camera IP address 192.168. 0 .20(Port 80 Channel 1
	r login information admin Password ••••
	Basic Recording 🔲 Unconditional reco
< Ⅲ ►	Others Disabled
	Apply OK Cancel

Workaround

Input IP address in **Domain name** field instead, as shown below.

💷 Ca	amera Setup	
		Camera Setup Clone Settings
.		Camera Driver Information
		Channel name CH_001
		Please input a name that is unique throughout the domain.
		Driver IP Cam Webcam(DirectShow)
		RTSP video source Remote channel
		DynaColor Series
		Description
		Domain name 192.168.0.250
		Enter camera IP address 0 . 0 . 0 . 0 Port 80 Channel 1
		Enter login information Admin Password ••••
		Basic Recording 🔲 Unconditional recording
		Others 🔲 Disabled
•	4 11	
		Apply OK Cancel

License manager issue under Win XP



Affected Functions

License manager, only under Windows XP

Status

Fixed in version 867 (2014-01-06)

Symptoms

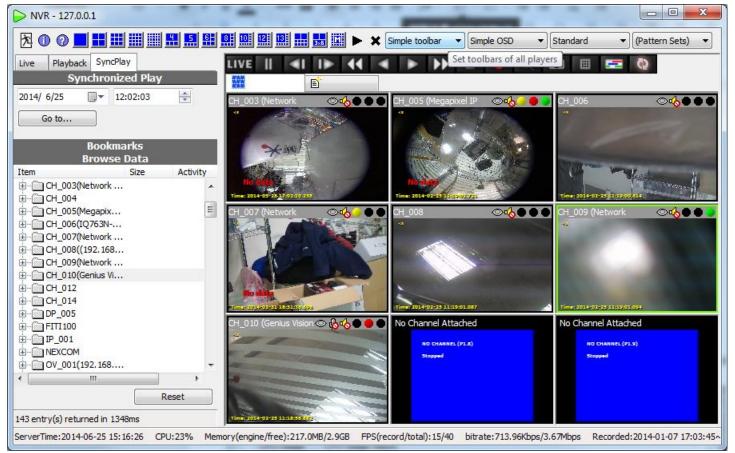
In Windows XP, license manager can only be invoked once. The following error pops up if it has been invoked before, even if it's closed now.



Workaround

Close all Genius Vision processes including organizer. Restart organizer and run license manager.

SyncPlay pause may cause memory overflow



First Occurrence Version 853 (2013-09-19)

Reported by

Affected Functions

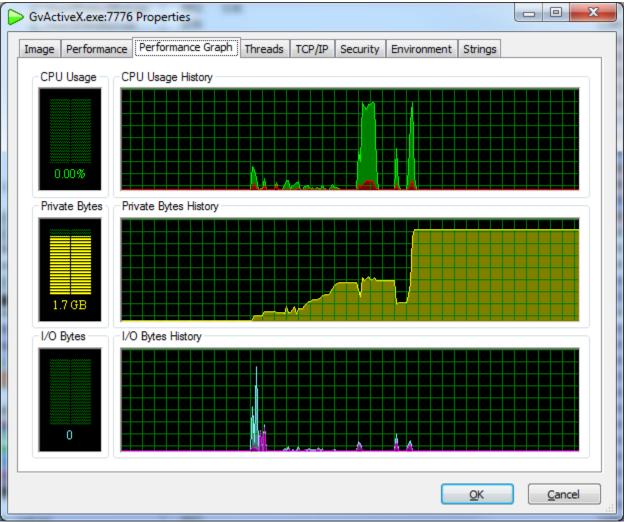
Synchronized playback, playback tab. Both pure IP and hybrid. This problem does not seem to appear on most users.

Status

Fixed in version 863 (2013-12-13)

Symptoms

Random, sudden onset of memory overflow when operating synchronized playback. Related to pause, but pause does not necessarily trigger it. Pause and attach channel seems triggers it.



Fixed IE embedded full console cannot change to full screen

Affected Functions IE remote console.

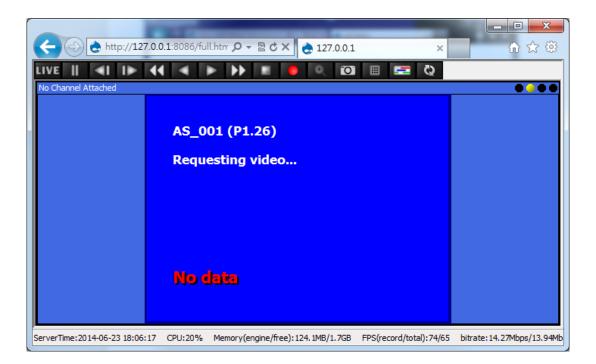
Status Fixed in version 868.

Symptoms

In IE embedded mode, pressing F10 to switch to full screen makes this blank window.



User can resize window to recover from the bugged state...



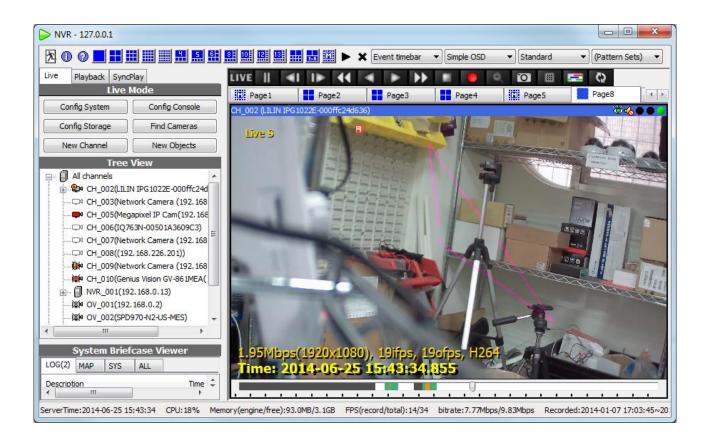
IVS indication problem

First Occurrence Version 827 (2013-02-18)

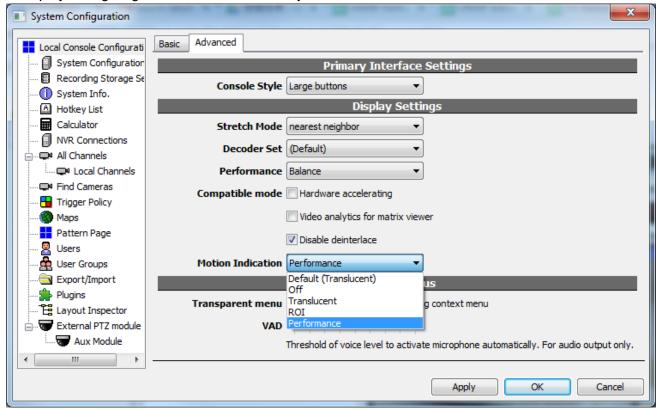
Affected Functions Object tracking, client detection

Status Fixed in version 857 (2013-11-04)

Symptoms Text of object tracking is missing.



And display config is ignored. Indication is always translucent.



Workaround

Users can still check counting in timebar or storage map.

Storage Report								
		Data size	•	Reset	Save As			
Browse Search Recordin	ng gap			Events Archived Logs	Recording gap			
Item	Size Activ	/ity	- 1	Туре	Start 🔺			
			^	User: admin(127.0.0)	0 2014-06-2			
E All channels			User: admin(127.0.0					
			System Off	2014-06-2				
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2 entry(s) returned in 5ms								

Added MobileOptions to reduce mobile APP bandwidth

Added Version 841, for b80 Version 792, for b70

Purpose

To reduce bandwidth usage, a protocol option is added to NVR server to reduce network usage by transmitting only I-frames at a specified interval, such as 5 seconds. This will keep the video frame updating, without consuming too much bandwidth. This is especially useful when video packets are transmitted over mobile Internet such as 3G mobile network.

Usage

This function is used automatically when mobile APP uses video list view.



Fixed ONVIF-find support for non-standard HTTP port

Status Version 841

Symptoms

An issue has been identified that the NVR ONVIF-find implementation cannot properly deal with ONVIF camera with non-standard HTTP port (80). This issue has been fixed.

Workaround

Use only standard HTTP port for ONVIF cameras, or manually add camera without using camera find.

Fixed a ONVIF issue that GetOptions is missing VideoSourceToken. Also added imaging20 compatibility.

Synopsis

This change address two ONVIF compatibility issue.

GetOptions is missing VideoSourceToken

A spec-mandatory element **VideoSourceToken** was missing from **GetOptions** of NVR implementation. The fix has addressed this issue.

```
<soap:Envelope xmlns:tt="http://www.onvif.org/ver10/schema"
xmlns:soap="http://www.w3.org/2003/05/soap-envelope"
xmlns:tds="http://www.onvif.org/ver10/device/wsdl"
xmlns:timg="http://www.onvif.org/ver10/imaging/wsdl"
<soap:Body>
<timg:GetOptions>
<timg:VideoSourceToken>VideoSource0</timg:VideoSourceToken>
</timg:GetOptions>
</soap:Body>
</soap:Body>
```

Added imaging20 compatibility

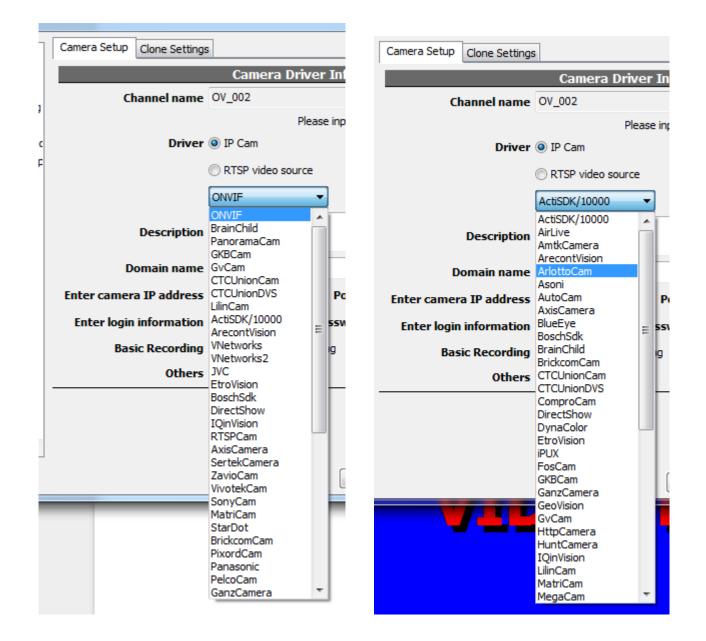
The implementation added as follows:

- 1. Try Imaging service 1.0 namespace: http://www.onvif.org/ver10/imaging/wsdl
- If for any reasons Imaging requests failed, it will try Imaging service 2.0 namespace: <u>http://www.onvif.org/ver20/imaging/wsdl</u>

Thereby acheive automatic detection compatibility.

Changed driver list to alphabet order

Since version 838, drivers are sorted alphabetically.



Enhanced FileSize_MB strategy for StorageConfig and changed its validation.

Added

Version 824

Purpose

In Storage Config, **FileSize_MB** defines file size for auto-split of recorded data. The value was capped at 2,000 before version 824. If the storage is very large, there will be too many files. NVR maintains a list of files in memoery. Increasing file numbers put a heavy loading on NVR and makes it unstable. To reduce file numbers, in version 824 FileSize_MB cap was increased to 10,000. Also the initial value is calculated based on total available space to maintain a healthy number of files, which is around 1,000.

Image 1. FileSize_MB is defined in Storage Configuration dialog.

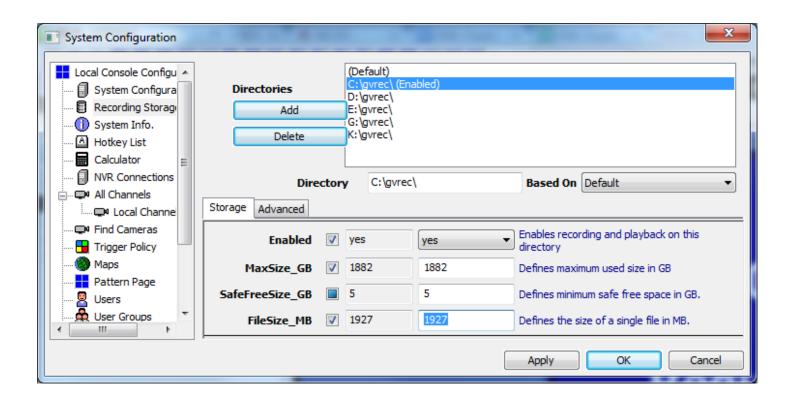


Image 2. Recorded data are splitted according to the value of **FileSize_MB**. It's not exactly the same because the difference of 1,024 and 1,000 in calculation.

Name	Date modified	Туре	Size
rv_0111.xsf	2014/6/30 下午 03:22	XSF File	876,904 KB
rv_0110.xsf	2014/6/30 下午 12:23	XSF File	1,974,232 KB
rv_0109.xsf	2014/6/30 上午 06:41	XSF File	1,974,090 KB
rv_0108.xsf	2014/6/30 上午 12:24	XSF File	1,974,036 KB
rv_0107.xsf	2014/6/29 下午 06:20	XSF File	1,973,986 KB
rv_0106.xsf	2014/6/29 上午 11:55	XSF File	1,973,975 KB
rv_0105.xsf	2014/6/29 上午 05:31	XSF File	1,974,028 KB
rv_0104.xsf	2014/6/28 下午 11:19	XSF File	1,974,106 KB
rv_0103.xsf	2014/6/28 下午 05:08	XSF File	1,973,927 KB
rv_0102.xsf	2014/6/28 上午 10:39	XSF File	1,974,106 KB
rv_0101.xsf	2014/6/28 上午 04:18	XSF File	1,976,440 KB
rv_0100.xsf	2014/6/27 下午 01:56	XSF File	1,978,519 KB
rv_0099.xsf	2014/6/27 下午 12:04	XSF File	1,974,114 KB
rv_0098.xsf	2014/6/26 上午 11:22	XSF File	1,977,904 KB
rv_0097.xsf	2014/6/25 下午 03:56	XSF File	1,974,887 KB
rv_0096.xsf	2014/6/25 下午 02:16	XSF File	1,974,525 KB

Usage

In most cases, users need to do nothing to be benefited from this change.