

VioStor CMS Central Management System User Manual (Version: 1.0.1)

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Thank you for choosing the QNAP products! This user manual will introduce you how to use the VioStor Central Management System (CMS) server and client applications. Please follow the instructions in this user manual and start to enjoy the powerful VioStor CMS system.

Note:

- This user manual contains the instructions for using the QNAP CMS server and software. Some features are only available on specific models. The model you purchased may not support these features.
- The CMS hardware/server is hereafter referred to as the CMS Server, and the central management software is referred to as the CMS Client.
- This user manual (version 1.0.1) is only applicable for the CMS Client version 1.0.1.
- In order to support the full functions of CMS Client version 1.0.1, please use the VioStor NVR firmware version 4.1.0 or later versions.

Legal Notice

All the features, functionality, and other product specifications are subject to change without prior notice or obligation. Information contained herein is subject to change without notice.

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Note:

- Back up the system periodically to avoid any potential data loss. QNAP disclaims any responsibility of all sorts of data loss or recovery.
- Should you return any components of the product package for refund or maintenance, make sure they are carefully packed for shipping. Any form of damages due to improper packaging will not be compensated.
- Please read the safety warnings and user manual carefully before using this product.
- This product can only be used with the power supply provided by the manufacturer.
- Please contact qualified technicians for any technical enquires. Do not repair this product by yourself to avoid any voltage danger and other risks caused by opening this product cover.
- To avoid fire or electric shock, do not use this product in rain or humid environment. Do not place any objects on this product.

Regulatory Notice

FCC Notice

The QNAP products comply with different FCC compliance classes. Please refer the Appendix for details. Once the class of the device is determined, refer to the following corresponding statement.

FCC Class B Notice

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1. This device may not cause harmful interference.
- 2. This device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

Modifications: Any modifications made to this device not approved by QNAP Systems, Inc.

may void the authority granted to the user by the FCC to operate this equipment.

CE CE NOTICE

Class B only.

Symbols in this document

Δ.	This icon indicates the instructions must be strictly followed.				
	Failure to do so could result in injury to human body or death.				
	This icon indicates the action may lead to disk clearance or loss OR				
Caution	failure to follow the instructions could result in data damage, disk				
	damage, or product damage.				
	This icon indicates the information provided is important or related				
	to legal regulations.				
Important					

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GNU - GENERAL PUBLIC LICENSE	

Safety Warning

- 1. This product can operate normally in the temperature of 0°C–40°C and relative humidity of 0%–90%. Please make sure the environment is well-ventilated.
- 2. The power cord and devices connected to this product must provide correct supply voltage.
- 3. Do not place this product in direct sunlight or near chemicals. Make sure the temperature and humidity of the environment are in optimized level.
- 4. Unplug the power cord and all connected cables before cleaning. Wipe this product with a wet towel. Do not use chemical or aerosol to clean this product.
- 5. Do not place any objects on this product for the server's normal operation and to avoid overheat.
- 6. Use the flat head screws in the product package to lock the hard disks in this product when installing hard disks for proper operation.
- 7. Do not place this product near any liquid.
- 8. Do not place this product on any uneven surface to avoid falling off and damage.
- Make sure the voltage is correct in your location when using this product. If you are not sure about the voltage, please contact the distributor or the local power supply company.
- 10. Do not place any object on the power cord.
- 11. Do not attempt to repair this product in any occasions. Improper disassembly of the product may expose you to electric shock or other risks. For any enquiries, please contact the distributor.
- 12. The chassis models should only be installed in the server room and maintained by the authorized server manager or IT administrator. The server room is locked by key or keycard access and only certified staff is allowed to enter the server room.

Warning:

- Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.
- Do NOT touch the fan inside the system to avoid serious injuries.

Chapter 1 Introduction

1.1 Overview

The QNAP Central Management System (CMS) is a high performance turnkey solution for large-scale and multiple-site surveillance projects. The CMS Client is a software utility designed to manage the QNAP VioStor network video recorders (NVR) and perform live video monitoring, recording, and playback. The CMS Server supports up to a maximum of 128 multi-server monitoring. Users can monitor up to a maximum of 1024 IP cameras, up to a maximum of 64 channels per screen. Concurrent independent playbacks and display controls in four screens are also supported. The CMS Server has the highest compatibility with the QNAP VioStor NVR series and also supports a variety of brand name IP cameras. For detailed compatibility list, please refer to:

http://www.qnapsecurity.com/pro_compatibility_camera.asp

1.2 Hardware Illustration

CMS-2000:



- 1. One Touch Copy button
- 2. USB 2.0 (reserved)
- 3. LED indicators: HDD1, HDD2, LAN, eSATA
- 4. Power button
- 5. Power connector
- 6. Gigabit LAN x 2
- 7. USB 2.0 x 2 (reserved)
- 8. Password & network settings reset button
- 9. K-Lock security slot
- 10. eSATA(reserved)
- 11. USB 3.0 x 2 (reserved)

CMS-4000U-RP:



- 1. USB 2.0 (reserved)
- 2. One Touch Copy button
- 3. LED indicators: HDD1-4, LAN, eSATA
- 4. Power button
- 5. Password & network settings reset button
- 6. Gigabit LAN x 2
- 7. USB 2.0 x 4 (reserved)
- 8. USB 3.0 x 2 (reserved)
- 9. eSATA (reserved)
- 10. Power Connector

1.3 Hardware Specification

CMS-2000:

Model Name	CMS-2000	
Number of License	Base: 64, Maximum:1,024	
HDD	$2 \times 3.5''$ or $2.5''$ SATA (Hot-swappable and lockable tray)	
СРИ	Intel 2.13GHz dual-core processor	
RAM	1GB	
Operating System	Linux Embedded	
Ethernet Port	Gigabit Rj-45 Ethernet port x 2	
Dimensions	150 (H) x 102 (W) x 216 (D) mm	
	5.91 (H) x 4.02 (W) x 8.5 (D) inch	
Net Weight	1.74 Kg (3.84 lb)	
Gross weight	2.92 Kg (6.44 lb)	
Temperature	0-40 °C	
Relative Humidity	0-95 % R.H.	
Power Supply	Input: 100-240V AC, 50/60 Hz	
	Output: 90W	

CMS-4000U-RP:

Model Name	CMS-4000U-RP		
Number of License	Base: 64, Maximum:1,024		
HDD	4 x 3.5" or 2.5" SATA (Hot-swappable and lockable tray)		
CPU	Intel 2.13GHz dual-core processor		
RAM	1GB		
Operating System	Linux Embedded		
Ethernet Port	Gigabit Rj-45 Ethernet port x 2		
Dimensions	44 (H) x 439 (W) x 499 (D) mm		
	1.73 (H) x 17.28 (W) x 19.65 (D) inch		
Net Weight	7.63 Kg (16.82 lb)		
Gross weight	9.55 Kg (21.05 lb)		
Temperature	0-40 °C		
Relative Humidity	0-95 % R.H.		
Power Supply	Input: 100-240V AC, 50/60 Hz		
	Output: Redundant 250W		

Chapter 2 Installing CMS Server

For details on product hardware installation, please refer to the "Quick Installation Guide" (QIG) in the product package.

2.1 Browsing CD-ROM

The CMS installation CD-ROM contains the Quick Start Guide, CMS Client, QNAP Finder, and the user manual.



Browse the CD-ROM and access the following contents:

- Finder: The setup program of the QNAP Finder (for Windows OS).
- CMS Client: The main program of the central management and monitoring system.
- Manual: The user manual of the QNAP VioStor CMS.

The above contents can also be downloaded at the QNAP Security website (<u>http://www.qnapsecurity.com</u>).

2.2 Hard Disk Drive Compatibility List

This product works with popular brands of 2.5-inch and 3.5-inch SATA hard disk drives. For hard disk compatibility list, please visit the QNAP Security website: <u>http://www.qnapsecurity.com/pro_compatibility.asp</u>

Note: QNAP disclaims any responsibility for product damage/malfunction or data loss/recovery due to misuse or improper installation of hard disks in any occasions for any reasons.

2.3 IP Camera Compatibility List

For information on supported IP Camera models, please visit the QNAP Security website: <u>http://www.qnapsecurity.com/pro_compatibility_camera.asp</u>

2.4 Checking System Status

LED	Color	LED Status	Description	
		Flashes green and red alternately every 0.5 sec	 A hard drive on the system is being formatted/initialized. The system firmware is being updated. RAID rebuilding is in process. Online RAID Capacity Expansion is in process. Online RAID Level Migration is in process. 	
System Status	<mark>Red/</mark> Green	Red	 A hard drive is invalid. The disk volume has reached its full capacity. The disk volume is going to be full. The system fan is out of function. An error occurs when accessing (read/write) the disk data. A bad sector is detected on the hard drive The system is in degraded read-only mode (2 member drives fail in a RAID 5 or RAID 6 configuration, the disk data can still be read). (Hardware self-test error). 	
		Flashes red every 0.5 sec	The system is in degraded mode (one member drive fails in RAID 1, RAID 5 or RAID 6 configuration).	
		Flashes green every 0.5 sec	 The system is starting up. The system is not configured. A hard drive is not formatted. 	
		Green	The system is ready.	
		Off	All the hard drives on the system are in standby mode.	
		Orange	The system is connected to the network.	
LAN	Orange	Flashes orange	The system is being accessed from the network.	
		Flashes red	The hard drive data is being accessed and a read/write error occurs during the process.	
HDD (Hard Drive)	Red/ Green	Red	A hard drive read/write error occurs.	
		Flashes green	The hard drive data is being accessed.	
		Green	The hard drive can be accessed.	

USB	Blue	Flashes blue every 0.5 sec	 A USB device is detected. A USB device is being removed from the system. The USB device connected to the front USB port of the system is being accessed. The system data is being copied to the external USB device.
	Blue	The USB device connected to the front USB port of the system is ready.	
		Off	 No USB is detected. The system has finished copying the data to the USB device connected to the front USB port of the system.
eSATA†	Orange	Flashes	The eSATA device is being accessed.

			»	»
Beep Alarm	(beep alarm	can be disabled i	n "System Tools" >	"Hardware Settings")

Beep sound	No. of Times	Description	
Short beep (0.5 sec)	1	1) The system is starting up.	
		2) The system is being shut down (software	
		shutdown).	
		3) The reset button is pressed.	
		4) The system firmware has been updated.	
Short beep (0.5 sec)	3	The system data cannot be copied to the	
		external device by pressing the auto-backup	
		button.	
Short beep (0.5 sec),	3, every 5 min	The system fan is out of function.	
long beep (1.5 sec)			
Long beep (1.5 sec)	2	1) The disk volume is going to be full.	
		2) The disk volume has reached its full	
		capacity.	
		3) The hard drives on the system are in	
		degraded mode.	
		4) Hard disk rebuilding process starts.	
	1	1) The system is turned off by force shutdown	
		(hardware shutdown).	
		2) The system has been turned on	
		successfully and is ready.	

2.5 System Configuration

Setting up the CMS Server

Follow the steps below to install the software of the CMS Server. The following example is based on the Windows OS.

1. Install the QNAP Finder from the product CD.

mnet System	O B
UloStor Central Managemnet System	

2. Run the QNAP Finder. If the QNAP Finder is blocked by the firewall or anti-virus software, unblock them.

3. The QNAP Finder will scan for CMS Server(s) that have not been configured on the local network. The CMS Server can be identified by the model number. Click "Yes" to start setting up the CMS Server.

area connect bett	ings Tools H	lelp		
ONAP				
ick Setup Wizard				8
The s	erver 'CMS' (1	0.11.10.66) is no	t configured v	vet, do vou want
	it up now?			
Anne service and service of the				
The Quick Setur	Wizard will (auide vou throua	h the configura	ation process
The Quick Setup	Wizard will g	guide you throug	h the configura	ation process.
The Quick Setup				
	this question		ip the server n	
Don't ask me t	this question Yes	again, Iwill set u	ip the server n	nanually.
Don't ask me t	this question Yes	again, I will set u	No No VS-2 H2HO VS-4016Pro	nanually. 00-00-50-04-50-02 00-08-9B-A2-C3-11
Don't ask me t	this question Yes	again, I will set u	No No VS-2 H2HO VS-4016Pro	nanually. 00-00-50-04-50-02 00-08-9B-A2-C3-11
Don't ask me t ONADAGOLS QNAPNVR NVRD7EBC7	this question Yes 10.11.10.197 10.11.10.100	again, I will set u 4.1.0 (0010) 4.0.3 (6612) 5.0.0 (2013	No No VS-4016Pro VS-4116Pro+	nanually. 00-08-9B-D4-50-L2 00-08-9B-A2-C3-11 00-08-9B-D7-EB-C 00-08-9B-D3-BE-C
Don't ask me t ONAPNVR NVRD7EBC7 SG-ST3000DM001	this question Yes 10.11.10.197 10.11.10.100 10.11.10.73	again, I will set u 4.0.3 (6612) 5.0.0 (2013 4.0.3 (6315)	No No VS-2112110 VS-4016Pro VS-4116Pro+ VS-4116Pro+	nanually. 00-08-9B-A2-C3-11 00-08-9B-D7-EB-C 00-08-9B-D3-BE-C 00-08-9B-D3-BE-DI
Don't ask me to Don't ask me to NVRD450E5 QNAPNVR NVRD7EBC7 SG-ST3000DM001 WD-WD1002FAEX	this question Yes 10.11.10.197 10.11.10.100 10.11.10.73 10.11.10.92	again, I will set u 4.0.3 (6612) 5.0.0 (2013 4.0.3 (6315) 4.0.5 (6503)	VS-4116Pro+ VS-4116Pro+ VS-4116Pro+	nanually. 00-08-9B-A2-C3-11 00-08-9B-D7-EB-C 00-08-9B-D3-BE-C 00-08-9B-D3-BE-DI 00-08-9B-D3-BE-DI 00-08-9B-D3-BF-21

4. Click "OK" to proceed.

Thank you for choosing QNAP product You will now be directed by the Finder to the web brows configuration of the server. You will be able to use the se configuration. Click "OK" to proceed.	ser to complete the quick
OK Cancel	

5. The default web browser will be opened. Follow the onscreen instructions to configure the CMS Server.

Quick Configuration	0
WELCOME STOP 1 STOP 2 STOP 3 STOP 4 STOP 5 STOP 6 FRIEND	
Welcome to the quick configuration wizard. This wizard will guide you through the following cleas to configure this system quickly 1. Enter the server name. 2. Change the administrator password.	
 Enter the date, time and time zone for this server. Enter the IP address, subnet mask and default gateway for this server. 	
5. Select the services to be enabled. 6. Select disk configuration	
Note: Changes to all settings will be effective only when you confirm in the last step.	
	HERT

6. Click "START INSTALLATION" in the last step.

Finish	
	le to the server are as below. Click "Start installation" to begin the quick configuration, or click "Back" to return to the
revious sleps to modify the	i settings
Server Name	CMS-Demo
Password	The password is unchanged.
Time Zone	(DMT+0E DD) Tages
Time Setting	Set the server time the same as your computer time.
Network	Use the following settings
IP Address	10.11.10.190
Sutinet Mask:	255 255 254 0
Default Gateway:	10.11.10.1
Primary DNS Server	8000
Secondary DNS Server	0.0.0.0
Network services	Microsoft Networking, FTP Service, Web Server
Disk configuration	Raid t
Encrypt disk volume	No
File System	EXT4
Drive 1	Maxter 6L200M0 BANC 189 92 GB
Drive 2	Seegute ST3160318AS CC44 149.05 GB

 All the installed hard disk drives will be formatted, and all the data will be cleared. Click "OK" to proceed.



8. When finished, click "Return to system administration page" to complete the initialization process for the CMS Server.



Chapter 3 Installing CMS Client

After network settings of the CMS Server are configured, please connect the CMS Server to the network and set up the CMS Client.

Important: Before using the CMS Client, make sure the hard disk drives on the CMS

Server have been properly installed and configured.

3.1 Suggested PC Specification for CMS Client

For optimal system performance, make sure the computer that the CMS Client runs on fulfills at least the following requirements:

CPU	Intel Sandy/Ivy bridge series
	(To display full HD videos or monitor multiple cameras, i5/i7
	or above is recommended.)
Memory	4GB or above
	(To display HD videos or monitor multiple cameras, 6GB or
	above is recommended.)
Operating System	Windows 7 (64-bit is recommended)
Network Interface	Gigabit Ethernet
Screen Resolution	1920 x 1080
Cuanhice Caud	
Graphics Card	NVIDIA GeForce GT430 or above
	ATI Radeon HD5700 or above
	(For multi-monitor mode, NVIDIA GeForce GT640 or above
	is recommended.)

Note: The CMS Client supports Windows 7 64-bit OS and can utilize up to 4GB of RAM.

3.2 Installing CMS Client

Follow the steps below to install the CMS Client:

1. Run the CMS Client installer from the product CD and click "Next".



2. Choose the shortcuts to create and click "Next".

QNAP CMS Client I	nstaller
QNAP	Choose Components Choose which features of QNAP CMS Client you want to install.
Check the component install. Click Next to c	is you want to install and uncheck the components you don't want to ontinue.
Select components to	install: CMSClient (required)
Space required: 97.4	мв
	< Back Next > Cancel

3. Select the installation directory and click "Install".

QNAP CMS Client	Installer		
	Choose Install Lo Choose the folder	in which to install Q	NAP CMS Client.
	P CMS Client in the following other folder. Click Install to		
Destination Folder]
C: Program Files	(x86)\QNAP\CMS Client		Browse
Space required: 97.4	MB		
Space available: 97.7	7GB		
	9		

4. After finishing the installation process, click "Finish".

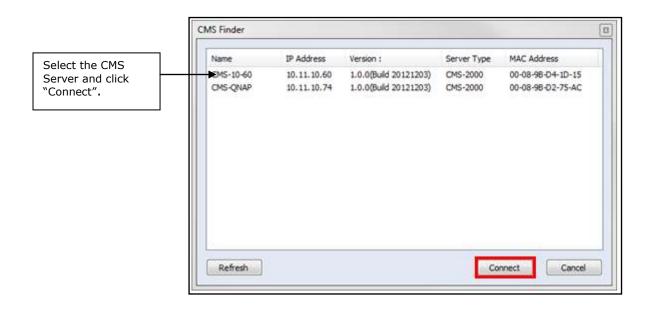


3.3 Connecting CMS Client to CMS Server

Follow the steps below to connect the CMS Client to the CMS Server:

 Run the CMS Client. Enter the IP address of the CMS Server, the username, password and domain (please select the domain from the "Login to" field) and click "OK". Or, click "Auto Find" to search for CMS Servers on the local network. Double click a CMS Server from the list to connect to it or click "Connect" to connect the CMS Server.

CMS		10	ana
Server Address:	10.11.16.52	- @	Auto Find
Username :	admin		
Password :	•••••		
Login to :	Local		
	 Remember usernan Use enhanced sec. 		
Language :	English	•	



2. Enter the administrator username and password to login and start using the CMS Client.

Default administrator credentials: username: admin Password: admin

3.4 Quick Configuration Wizard

If this is the first time the CMS Client is configured, the Quick Configuration Wizard will start automatically. Please follow the instructions to set up the CMS system.



License Activation

Activate your license on this page. License activation is required before cameras can be added. For details, please refer to Chapter 3.6.

xense						
river Momiation	CMS-4000U-RP-2	1151-653	12670DA5898	0134020	Crey UDI	
Server Model			rmware Versio		C. Service	
cense information						
Icerae Name	PAK	License ID	Expiration Date	Satur	Action	Charriel Number
/SM Default Carriera		VSMCAN-OEFA	Uninted		ACT	54
		VSMCAMOEFA.	Unionated		ACT	54

Adding NVR(s)

Click "Auto Detect" to search for the NVR(s) on the LAN automatically, or enter the NVR IP address manually. Click > to move the NVR to be added to the box on the right and click "Confirm" to add the NVR.

Tip: Use the "Shift" or "Ctrl" + up or down keys on the keyboard to select multiple NVR servers.

For more details, please refer to Chapter 3.8.1.

Att Fed	1					Manual Add	1 I			
Norre	IF Address	Version /	Server Type	MAC Addr.		Name	IF Address	Version :	Server Type	MAC Add
41-stress-1	192.168.2	40.0	V5-4116P	00-08-98-						
01-strets-10	10.11.10.92	40.0	V5-4116P	00-01-98-						
1-stress-2	192.168.2	45.0	VS-4116P	00-08-08-						
(1-stress-1)	192,168.2	4.0.0	V\$4110P	00-08-98-						
41-0002-4	152,168.4	40.0	VS-4116P_	00-08-36		I				
£1.etnes 5	192,168.4	4.0.0	VS-4116P			1				
8-same 14	192,168.4	4.0.0	VS-4116P	00-08-98-						
41-stress-7	182.168.4	4.0.0	VS-4116P							
51 stress 4	10.11.10.64	40.0	V5-6120P	00-08-98	1.14	1				
61-stress-5	10.11,10.85	40.0	V5-6120P	00-05-98-		1				
61-stress-6	10.11 10.05	4.0.0	V5-6120P	00-01-98-						
Cl-stress-7	10.11 10.88	40.0	VS-6120P	00-05-08-						
E-strete-13	10.11 10.91	4.0.0	VS-6120P	00-08-98-						
WRD36E	152.168.4	40.0	V5-6120P	00-08-38-						
SteamSer	192,168.6	42.0	V5-4116P	00-08-96-						
Stem 1036	10.11.10.36	40.0	V5-6120P	00-08-98-						
Stress-1047	10.11.10.47	40.0	VS-4116P	00-08-98-						
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KHUE13F	10.11.10.5	133But.	VoCate 5	00-08-98-						
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						1.000				

Set up Display Mode

The administrator can select the display mode and assign the channels manually to use the sequential mode or have the all the channels assigned by the NVRs instead.

When "Sequential mode" is selected, cameras channels will be assigned sequentially to each channel window in the display mode. If the number of cameras used in the sequential mode is greater than the number of channels of the display mode, the extra channels will be assigned from Channel 1 again. For instance, if 64 channels are assigned to a 6-channel view, the seventh channel will be displayed on Channel 1 and the eighth channel will be displayed on Channel 2, and so on and so forth. Please note that since a maximum of 10 channels can be assigned to one channel, please always select a display mode with a maximum number of channels that is greater than the total number of selected channels (ex. for 64 channels, please select the 8-channel view.)

When "Auto Assign by NVR" is selected, camera channels will be assigned based on NVRs. For example, if 20 channels from NVR 1 and 32 channels from NVR 2 are selected for the 6-channel view, all 20 channels from NVR 1 will be first assigned from Channel 1 to Channel 6 sequentially (and the seventh channel from NVR 1 will be assigned to display on Channel 1 again and eighth on Channel 2.) All 32 channels from NVR 2 will then be assigned from Channel 1 to Channel 6 after all cameras from NVR 1 are assigned.

Please note that in "Sequential mode", channels assigned to a channel window will be displayed and switched sequentially and automatically, while in "Auto Assign by NVR", channels need to be switched manually.

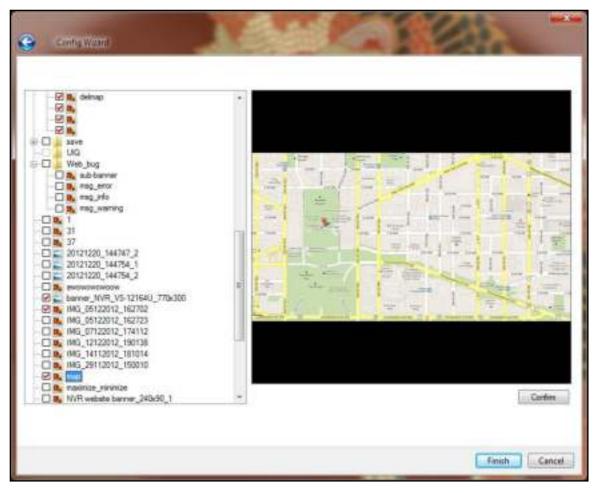
If both "Sequential mode" and "Auto Assign by NVR" are selected, all channels from the same NVR will be assigned to and displayed on the selected display mode sequentially and automatically. For instance, if 20 channels from NVR 1 and 32 channels from NVR 2 are selected for the 6-channel view, all channels from NVR 1 will be assigned to and displayed sequentially and automatically on the first page, and all 32 channels from NVR 2 will be assigned to and displayed sequentially and automatically on the second page. To view the channels from a different NVR, users are required to manually switch to the corresponding pages.

Crintig Waind	and a	
Style Sequential mode Auto Assign by NVR C1054 4-V5-6120P1-1+4 Channels_0		
4-VS-6120P1+1+4 Channels_1 4-VS-6120P1+1+4 Channels_2 4-VS-6120P1+1+4 Channels_3		
Total NVR 1 Total Camera : 28	Cinata	
		Next Cancel

Canfig Weard	10	
Style 1+1+8 Osamela •		
Sequential mode Add Assign by NVR CMS(5) 4-V5-6120P1-1-4 Channels_0 4-V5-6120P1-1+4 Channels_1 4-V5-6120P1-1+4 Channels_2 4-V5-6120P1-1+4 Channels_3 4-V5-6120P1-1+4 Channels_3 4-V5-6120P1-1+4 Channels_3 4-V5-6120P1-1+4 Channels_3		
Total NVR 1 Total Camera 20	Creste.	Next

Uploading E-map(s)

Select the E-map files or directories on the right, click "Confirm" to upload the E-maps and then click "Finish" to finish the wizard.



3.5 Configuring CMS Client

To enter the system settings page on the CMS Client, login the live view page as an

administrator and then click



The system overview page will be opened. Select the overview period from the drop-down menu on the top right corner. The system can display system details for up to seven days. Click "Learn more" under each item to view the details.



The system overview page contains the following information:

- Alarm: Alarm input, dynamic motion event information, and charts.
- User account: user account related information, such as login failed, never logged in, and the total number of user accounts.
- NVR connection status: Information about the number of NVRs that have never been disconnected and have been disconnected, and the total.
- IP camera connection status: Information about the number of cameras that have never been disconnected and have been disconnected, connection failure, and the total.
- NVR system status: Information about the number of hard disk failure, fan failure, and the total.
- Real-time status: Online users/total users, online NVRs/total NVRs, and online cameras/total cameras.

Note:

- Besides the real-time information, all other information provided is the records from the previous seven days.
- If a NVR is deleted, its records will also be permanently deleted and its logs will no longer be available.

The configuration settings are available on the left:

- License
- Server
- Camera
- Event management
- View
- E-map
- User management
- Server logs
- CMS Server Settings

Configuration
CMS Professional
QLicense
🙆 Camera
Event Management
View
E-map
🏠 User Management
Server Logs
CMS Server Settings

3.6 License

Please activate your license on this page if you have not already done so using the Quick Configuration Wizard. License activation is required before cameras can be added. A 64-channel license is provided for each CMS Server and you can choose to activate or deactivate your license online of offline.

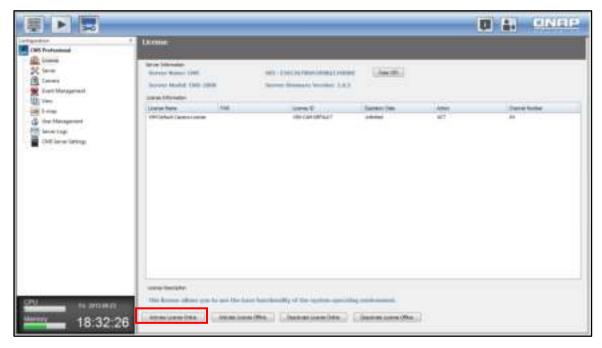
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	seew locates				
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3.7 Activating License Online

Please follow the steps below to activate your license online:

1. Click "Activate License Online"

1



2. Enter the product authorization key and click "Activate" and "Finish".

G	License Activation
Inpu	ut the PAK code Enter the Product Authorization Key (PAK) code to activate:
No	te: To add or activate a license online, the CMS needs to connect to the Internet.
	Finish Cancel

3. After the license is activated online, the license detail will appear.

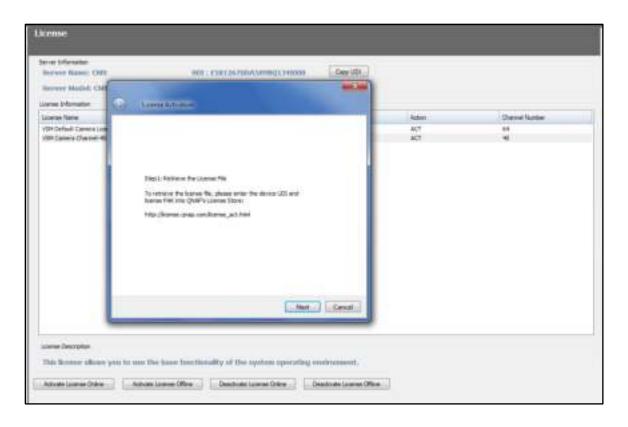
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3.7.1 Activating License Offline

If the Internet is unavailable, please follow the steps below to activate your license offline.

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1. Click the "Activate License Offline" button. A prompt window will appear to remind you to use another PC that can go online to bind the PAK and UDI. So, a physical permission file can be generated to activate the CMS Client.



2. Click "Offline Activation" after entering the License Store (http://license.qnap.com).



3. After membership registration, please fill out the PAK provided, the device UDI and verification code from the license activation page to download the physical permission file.

License				
Sever Information Noticer Manuel Chill		WHE : 138125700A3490(12400	0 Gers0	
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	Past	Dames ID	Expension Date	Adven
Loren New			lanimited	407

Tip: Use the "Copy UDI" function to copy UDI and paste in the field of QNAP license store.

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LACENSE PORCHASE	OFFLINE ACTIVATION
- Tarba NAS	Copy the system UDI from your Surveillance Station Pro and uplicad the PAK here. After the activation is verified, you will get a Permission File.
LICENSE HARAGEMENT	
Office Activelian Office Descrivelian	Step 1 Please III out your device UDI Your UDI can be copied from the Surveillance Station IIVe.
INFORMATION	
• Contectula • Entil	Stop 2 Please fill out the PAK Please fill out the PAK you want to activity on this device.
PapPal.	tister the code in the box below: 2-4-6-65-000* Try a different image Type characters:

4. Upload the license file.

G	License Activation
	Step2: Import License File Please import your License file to activate new camera Browse Activate
	Finish

After the license is activated, its details will appear.

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3.7.2 Transferring/Deleting Authorization

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To transfer and delete your license, please deactivate it first either online or offline.

Online License Deactivation: If Internet access is available for the CMS Server, please click the license to be deactivated and then "Deactivate License Online". The CMS Server will connect to the License Store to deactivate the selected license. The system will confirm with you about license deactivation. Please click "Yes".

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The license will be deactivated and removed from the list.

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Jonas Tame	the .	Scene ID	Damme Dan	Adu	Danei Norber

Offline License Deactivation: If Internet connection is unavailable for the CMS Server, please click "Deactivate License Offline". The CMS Client will generate a deactivation ticket (a physical file). Please upload this ticket to the License Store using another device that can connect to the Internet. To deactivate the license offline, please follow the steps below:

1. Select a license to be deactivated, click "Yes" and a ticket will be generated.

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2. Go to the License Store using another computer that can connect to the Internet and click "Offline Deactivation".



3. Upload the deactivation ticket generated in Step 1, fill in the verification code and click "Apply".

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3.8 Server

After license management (activation and deactivation), the next step is to add NVR servers and cameras.

Add, delete, and edit any server types supported by the CMS on the "Server" page. You can manage the cameras connected to the server.

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The CMS client can apply the same system time, alert notification and SMSC settings to a number of NVRs (only limited to the same models) to save the system setup time.

C1-0110 T-35-VS WVR038 WVR038 WVR041 WVR041	y An Dalways Name select a dirivat to apply E MARCUREP E ManarolaeventE E ManarolaeventE E H-12-21a	Aver Nativative" 0055 Selfores	
	(4) deno 3 (12-meio-4		
L	E-mail record 2		
	10 Use SSL/TLS s	ecare connections	

3.8.1 Adding NVR

To add one or more NVR servers, click 🦲.

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and the second se	
Canter we can a fairmain ten	tet t
	AACTINE OF CARE A CONTRACT OF CA

You can use the auto-find function to search for the NVR server(s) on the LAN, or enter the NVR IP address manually.

	and the second s		
Username:	admin		
Password:			
Add all C	ameras	ОК	Cancel

When adding more than one server, you can enter a pair of username and password and apply to all of them. When the "Add all the cameras" option is checked, all the cameras configured on the NVR will be added.

Note: When any pair of username and password for the multiple NVRs to be added is incorrect, the server(s) will not be added and no warning message will appear.

If the subnet of an NVR is different from that of the CMS Client, use "Manual Add" and enter the IP and port number of that NVR. Click "OK" to connect.

P Address:			
ort Number:	80		
Jsername:	admin		
assword:	••••		
Add all Car	neras		
		ОК	- X-

The NVR in another subnet will be added.

i Server						_
Auto Firel			Menual Add	1		
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		1.1	*			
			(4)(i			
				6	OK .	Cancel

After adding all required NVR(s), click "OK" and the "Add Server in Progress" message box will appear and the status will be shown in the box.

NVR.		Statue
D-149-6120		Retrieving INR Data
2	л.	

Click "Confirmation". The system will add the servers one by one. There are four kinds of status: Retrieving NVR Data, Add Channel (channel number) to CMS, Done and Connection Error.

Note: For the "Connection Error" error message, please check your user ID/password, firewall and network settings.

3.8.2 **Deleting/Editing NVR**

To delete an NVR, select the NVR on the list and click 🔟. To edit the NVR details (server

name, IP address, port, user name, or password), select the NVR and click ⁽¹⁾. Click ⁽¹⁾OK⁽⁷⁾ after all fields are completed.

Server Name:	D-148-8148Pro
IP Address:	10.11.13.148
Port Number:	80
Username:	admin
Password:	
Ret <mark>y</mark> pe Password	
	OK

Note: A NVR can only be edited and deleted by administrators of that NVR. Please be sure to type in the administrator username and password in the Edit Server dialog window, or details of cameras and their live view may not be displayed correctly.

3.8.3 Adding/Removing Camera

Select an NVR from the list and a list of available cameras will be shown below. Use the left and right arrows to add or remove the cameras to be controlled and monitored by the CMS Client. After applying the settings, the number of cameras connected to the NVR will appear next to the NVR name on the left list.

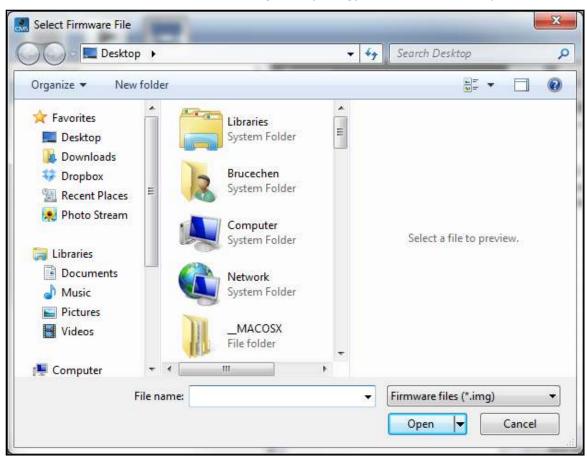
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00 41 Auto P 100 11 11 Auto P 100 12 11 Auto P 100 13 11 Auto P 100 14 11 Auto P 100 15 11 Auto P 100 16 11 Auto P 100 17 11 Auto P 100 18 11 Auto P 100 19 11 Auto P 100 10 11 Auto P 100 11 11 Auto P 100 12 11 Auto P 100 13 11 Auto P 100 14 11 Auto P 100 15 11 Auto P 100 16 11 Auto P 100 17 11 Auto P 100 18 11 Auto P 100 19 11 Auto P 100	0.6.1130 40 0.6.1140 40 0.6.1140 40 0.6.1140 40 0.6.1140 40 0.6.1140 40 0.6.1140 40 0.6.1140 40 0.6.1140 40 0.6.1140 40 0.6.1140 40 0.6.1140 40 0.6.1140 40 0.6.1140 40 0.6.1140 40		a second second	N 44 6421001 N 16 16421001 N 17 16421001 N 17 16421001 N 17 16421001 N 18 164421001 N 18 164421001 N 18 164421001 N 16 164421001 N 16 164421001 N 164421001 164421001	(d + 1, 1, 20) - and (d + 1, 1, 20) - and (d + 1, 1, 20) - and (d + 1, 2, 20) - and (d + 1, 20, 20) - and (d + 1, 20) - and (1111111111
60 60	0.6.1130 40 0.6.1140 40 0.6.1140 40 0.6.1140 40 0.6.1140 40 0.6.1140 40 0.6.1140 40 0.6.1140 40 0.6.1140 40 0.6.1140 40 0.6.1140 40 0.6.1140 40 0.6.1140 40 0.6.1140 40 0.6.1140 40		a second second	N 44 6427001 N 16 6427001 N 16 6427001 D 17 6427001 D 17 6427001 B 16 6427001	doi:10.100 cm doi:10.101 cm	11111111111

3.8.4 Firmware Update

Follow the steps below to update firmware:

1. Select the NVR for which to update the firmware and click "Update Firmware".

Achitrese:	10.11.13.149	
ver Tvije C Adénes	V5-03-MPro+ 06-08-08-03-42-40	
Ser (4.0.0 Ball 6019	
	5	



2. Browse and select the firmware image file (*.img) from the local computer.

Tip: You can select to update the firmware of multiple NVR servers at the same time if they are the same model.

Path of	system firmw	are image file:					
C:\User	rs\Brucechen	Desktop\U_VS-4	116Pro+_0	5207-4.0.2\U_V5	-4116Pro+_62	07-4.0.2.img	7
Firmwar	e Model VS-	+116Pro+, Versio	n: 4.0.2.				
Гs	erver Name	Model	Version	IP Address	Progress	Status	
D-1	41-4116	VS-4116Pro+	4.0.0	10.11.13.142	111111111		
V D-1	41-4116	V5-4116Pro+	4.0.2	10.11.13.141			
NV9	RD38FA5	V5-4116Pro+	4.8.0	10.11.10.36			
9 D-1	40-4116	VS-4116Pro+	4.0.1	10.11.13.140			

3.8.5 **TCP/IP Configuration**

The CMS Server supports static IP assignment for all NVRs, and for each NVR, the number of LAN ports can be different. Please note that DHCP is not supported.

Configuring NVR with a Single LAN Port

If the NVR supports a single LAN port, select one of the following options to configure the TCP/IP settings of the NVR.

and a second sec	Name of Action o	nt Notification Million Settimation	_	
4.13 (2b) (1) 5-54.1216409/vo (20) 5-54.1216409/vo (20) 45.4100-4 (26) 45.4100-3 (20) 7.18-VS-81489 (32) 7.18-VS-81489 (32) WVRD3805(3) (0) WVRD3805(3) (0) WVRD3805(3) (0) S6.51304004000 (0) S6.5130404000 (0) S6.5130404000 (0) S6.5130404000 (0) S6.5130404000 (0) S6.5130404000 (0) S6.5130404000 (0) S6.51304004000 (0) S6.5130404000 (0) S6.51304004000 (0) S6.51304004000 (0) S6.5130404000 (0) S6.51304004000 (0) S6.5130404000 (0) S6.5130400000 (0) S6.5130400000 (0) S6.5130400000 (0) S6.5130400000 (0) S6.5130400000 (0) S6.5130400000 (0) S6.513040000000000 (0) S6.5130400000000000000000000000000000000000	Configuration of Network Interfaces Feature Clotain IP address settings as Use a static IP address Flored IP Address Subnet Mask Default Gateway	* Failover formatically via DHCP 18.11.15.13 255.255.254.0 18.11.18.1	Load balancing	
	Primary DNS Server Secondary DNS Server	8888		
	· · · · · · · · ·		Aph R.) . Drin	

- Use static IP address: To assign a fixed IP to the NVR, enter the IP address, the subnet mask, and the default gateway.
- Primary DNS Server: Enter the IP address of the primary DNS server that provides the DNS service for the NVR on the external network.
- Secondary DNS Server: Enter the IP address of the secondary DNS server that provides the DNS service for the NVR on the external network.

Configuring NVR with Dual LAN Ports

If the NVR supports two LAN ports, select to use failover, load balancing, or standalone setting. To use these features, make sure both LAN ports are connected to the network.

- 10 413-20-01 - 10 413-20-01 - 10 5-54-1236409ve (20	Configuration of Network Interfaces	et hutbulun (C. Lond Industry
El atros 4 (18) El atros 5 (20) El atros 5 (20) File 25-8148P (12) WHODHER 18) WHODHER 18) WHODHER 18) WHODHER 18)	Televe	* failover	Lond balancing
56-5130000000000 (0) 56-51300000000 00	Obtain IP address settings a	dumatically via DHCP	
StreamServer62 (0)	 Use a static IP address Floed IP Address 	18.11.15.13	
Stress-2 (0)	Subnit Mask Default Gateway	255.255.254,0 18.11.18.1	
	Primary DNS Server	8.8.8	
	Secondary DNS Server	0.0.0	

- Failover (Default settings for dual LAN NVR models): Failover refers to the capability of switching over the network transfer port to the redundant port automatically when the primary one fails to avoid network disconnection. When the connection is resumed on the primary network port, the network transfer will be switched over to that port automatically.
- Load balancing: Load balancing refers to the ability to spread network traffic between two or more network interfaces to optimize the network transfer and enhance the system performance.

1 CHESTON	1 indictionation (12-29 indice and	rt Nutification	
5-54-12164/04/vo (23) 43-etnese 4 (16) 41-etnese 5 (20) 51-18-V5-8148P (12) WeND30107 (10) WeND30107 (10) WYND4046A3 (0) WYND4046A3 (0) WYND4046A3 (0) 56-512000044600 (0)	Configuration of Network Interfaces	failover	* Load balancing
SG-ST3000MC000 00 StreamServer62 00	+ Use a static IP address		
StreamGervert5 00 Stream 1 (1)	Fixed IP Address	18.11.19.13	
Stress-2 80	Subnit Mask	255.255.254.0	
WD WDDROTALX IO	Default Gateway	10.11.10.1	
	Primary DNS Server	8.8.8	
	Secondary DNS Server	0.0.0.0	
			_

Note: To optimize the network transfer speed of the NVR in the load balancing mode, use an Ethernet switch and enable 802.3ad (or link aggregation) on the switch ports that the NVR's Gigabit LAN ports are connected to. • Standalone: Assign different IP settings for each network port. The NVR can be accessed by different workgroups on two subnets. When load balancing is enabled, failover will not work. The DHCP server can only be enabled for the primary network port (LAN 1).

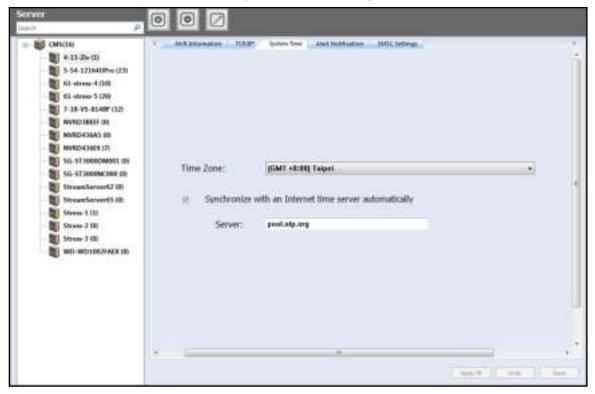
				T ONRP
(195 Professional	Server	0 0 0		
Comme - Com	OFFICE OFFICE	Configuration of Network Determined on Configuration of Network Determined (Union IP address cetterings on + Use a status IP address First IP Address Subset Plant Original Dataset Pressey DNS Server Secondary UNS Server	doreatically via DHCP	* Senten
500 Fe anticide.		4		17
10:35:10			1.00.0	()[

- Use static IP address: To assign a fixed IP to the NVR, enter the IP address, the subnet mask, and the default gateway.
- Primary DNS Server: Enter the IP address of the primary DNS server that provides the DNS service for the NVR on the external network.
- Secondary DNS Server: Enter the IP address of the secondary DNS server that provides the DNS service for the NVR on the external network.

3.8.6 System Time

Set the date, time, and time zone. If the settings are incorrect, the following problems may occur:

- Incorrect time stamps on the video files.
- Incorrect time stamps on the event logs.



Synchronize with an Internet time server automatically

Enable this option to update the date and time of the NVR automatically with an NTP (Network Time Protocol) server Enter the IP address or the domain name of the NTP server (for example, time.nist.gov or time.windows.com.)

3.8.7 Alert Notification

When a problem occurs (e.g. power outage or a hard disk drive is unplugged,) an alert email will be sent to the specified recipients automatically. To configure this feature, please set the alert level and specify SMTP server address, SMTP authorization credentials and email addresses of the recipients. To view the details of all the errors and warnings, go to "Logs & Statistics" > "System Event Logs".

CHESIDE - 20 4-13-20+(1) - 20 5-54-121640/free(22)	1	nuthanutMicleting.
B3 attass-4 (18) B3 attass-4 (18) B3 attass-5 (20) J -18-V5-81 48F (13) VFRD33818F (8) WFRD33818F (8) WFRD34388 (9) WFRD4388 (9) WFRD4388 (9) S5 - 5139990049900 (8) S5 - 513999049900 (8) S5 - 513999049904990 S5 - 51399 S5 - 51399 S5 - 51399 S5 - 51399 S5 - 5139 S5 - 513	Medium: 5 Low: No a E-mail (SMTP) server address: E-maile SMTP Authentication	d e-mails on any errors or warning events end e-mails only on critical errors lert e-mails will be sent web@gmail.com
Stress-2 (0)	Username: Password:	
V. S. A. C. M. M. M. S.	E-mail sender:	eworeper gweitigen all com
	E-mail recipient 1:	test@hutmail.com
	E-mail recipient 2:	
	Use SSL/TLS secure connection	

Note: It is recommended to send a test email to make sure the mail server settings are configured correctly.

3.8.8 SMSC Settings

Configure the SMSC (Short message service centre) settings to send the SMS text messages to the particular mobile phone numbers when an event is detected by the NVR. The default SMS service provider is Clickatell. Add an SMS service provider by selecting "Add SMS Provider" from the drop-down menu. After "Add SMS service provider" is selected, enter the name of the SMS provider and the URL template text.

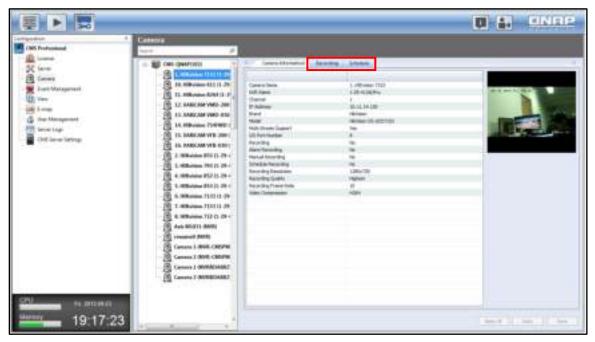
Striver Date: P	002			
CMSC10 CMSC10 CMSC10 S 54 121840Pro 020	SHS Service Provider	Clicketell	BMSC Settings*	
61-stress-1.118 61-stress-5.(20) 61-stress-5.(20) 7-38-VS-81-687 (32) NV1023858-09 NV10243858-09 NV10243858-09 NV10243858-09 Stress-5.000Mc000-09 Stress-5.000Mc00-09 Stress-5.0	[SMS Server Settings] Enable SSL Corr SSL Port: SMS Server Login Nam SMS Server Login Pase SMS Server API_ID (SMS Notification Settings)	ection w	443 clickkell leat	
Stress-310	Country Code:	Albania (+255)		
WD-WD10629AEX (ID	Cell Phone No. 1:	+255	90085473532	(Do n
	Cell Phone No. 2:	+355	2 35 325 35 325	(Do n
	Send SMS bot messa		C settings are incorrect, you will not og events take place:	be able to receive If
			and AL	the lee

Note:

- Please always follow the standard published by the SMS service provider to configure the SMS settings.
- Please send a test SMS to verify that the settings are correct.
- Go to "Camera Settings" > "Alarm Settings" > "Advanced Mode" to edit the SMS settings, or select to use the "Traditional Mode" and configure the SMS settings on this page.
- It is recommended to send a test email to make sure the mail server settings are configured correctly.

3.9 Camera

Information of the cameras being controlled by the CMS is shown on this page. The information shown on this page includes the camera name, the NVR that the camera belongs to, IP address, model, and the live video. Recording settings and schedules of the cameras can also be managed on this page.



Under the "Recording" tab, you can configure the video compression format, screen resolution, frame rate, and video quality, and select to enable or disable audio recording and manual recording for the configured channel.

Camera Information Recording Sched	ule
Video Compression:	H.264 •
Resolution:	1920×1080 -
Frame Rate:	Full
Quality:	Compression 20 🗸
Enable audio reco	ording
Enable manual re	ecording

- Video compression: Select the compression format of the recording files.
- Resolution: Select the recording resolution of the camera. The higher the resolution, the clearer the video will be, but the larger the hard disk space will be used.
- Frame rate: Select the number of recording images per second. Please note that the actual frame rate may vary according to traffic conditions.
- Video quality: Select the video recording quality used by the camera. The higher the resolution, the more clear the video will be, but the larger the hard disk space will be used
- Enable audio recording (optional): Check this option to enable audio recording.
- Enable manual recording: After this option is checked, you can choose to start or stop the recording manually on the live view page.

To create a recording schedule under the "Schedule" tab, specify the days and duration for recording and click "Add".

Days:									
SUN .	* MON	IT TUE	IN WED	IF THU	× HS	I SAT			
Duration:									
 All Day 		Start Time:		74 E #1	-1	End Time:	8	01111017	
		dates a	Series	- 24					

Note: When any changes have been made, an asterisk will appear on the tab. You will be prompted to save the changes when switching to a different tab.

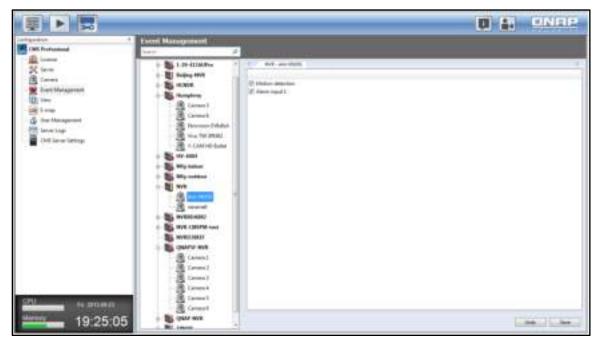
Informatio	n Record	Schedul
Attention		
Are you su	ure want to skip s	save change?
	是(Y)	否(N)

Note: By clicking "Apply to all", the changes made will be applied to all cameras. For cameras that do not support the selected functions, the changes made will not apply to them even if "Apply to all" is clicked.

Interpretention of the second	Const QNACHU Const Q	
990 (19:23:12)	Cannon 2 WWWWWWW	

3.10 Event Management

The CMS Server can be set to receive NVR alerts (such as motion detection events or events triggered by alarm inputs). After checking these options, click "Save" to save the settings or "Undo" to go back to the previous step.



Note: The alarm settings must be configured on the NVR first. Then, go to Event Management of the CMS system to enable the alarm input of the camera. So, the CMS system can receive the alarms from the NVR. Please refer to <u>Chapter 7-10 (FAQ)</u> for details.

3.11 View

The administrator can define the view layout in view configuration.

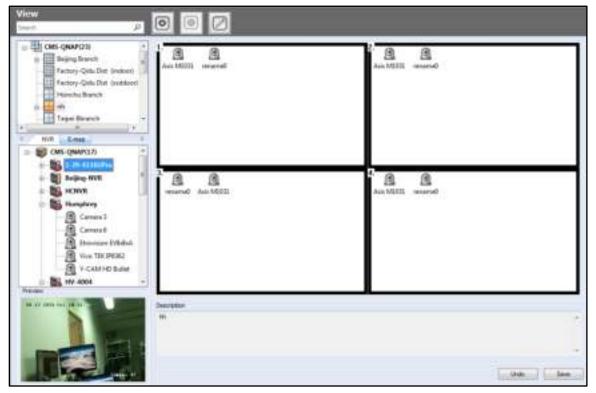
CHC Professional	None Last	000		
- St term - Comm - State Uniquement - State	1-L-1 (human 1-L-1 (human 1-L-1 (human) 1-L-1 (human)	aa		a. Internet
tone lang	- ([]+Osenati			· · · · · · · · · · · · · · · · · · ·
		B	a	2. 1. 1.
	- 5 11-00-01 - 5 7 31-00-01-00 - 5 99/01-0010 - 5 99/01-0010	frame.	Assess.	Press.
CRU LL AL MULTIN	Si Propinsi Si Si S	Terreto	47 1	
10:57:12	a Bi there i			

After choosing a view layout, enter the name and description of the view. Click "OK" to confirm.

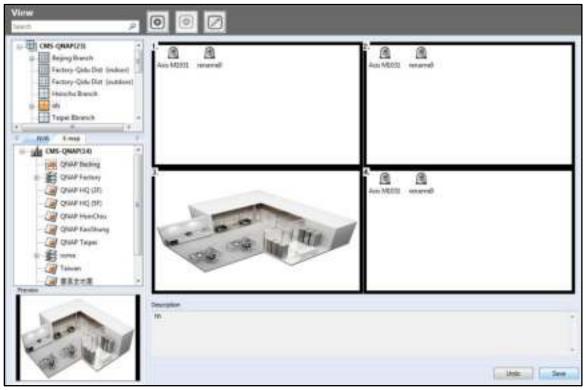


Add View	
Style:	4 Channels
View Name:	Gate
Description:	Gate with IP Cam
	OK Cancel

Then, drag the cameras in the NVR list on the left to the channel window on the right.



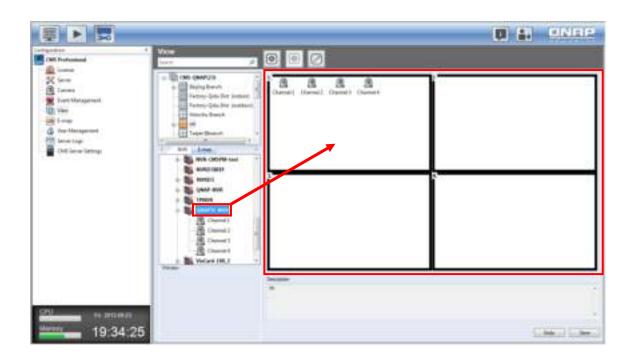
The E-map(s) can also be inserted.



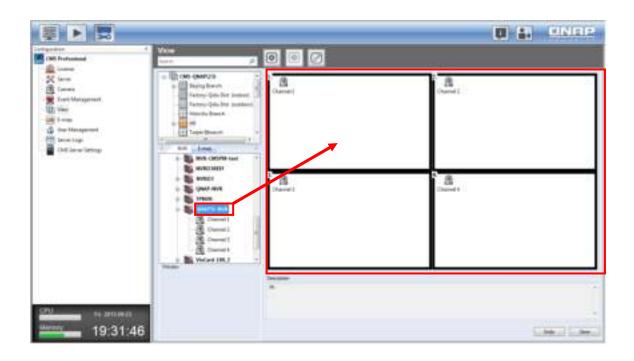
Double click the window to adjust the carousel order and interval, and edit the camera to be viewed. The live view supports the carousel function. In the description field of each layout, Server name and the order of each placed camera will be listed. Adjust the carousel order and interval, and preview the live video.

Server Name	Camera Name		
D-143-6120	13. Axis P3367		
D-143-6120	10. Axis P3367		
D-143-6120	12. Axis P3367		Move UP
D-149-6120	14. Axis P3367		
			Move Dow
			-
			Remove
4			
<u> </u>			
Preview	Interval: 15	Seconds	
	Little von 15	y Seconds	
	and the second se		
	San San		
	State Land		
	and the second		

Note: Drag an NVR to the blank channel window, and all the cameras of the chosen NVR will be played in the sequential mode in that channel window.



Tip: Press and hold the "Shift" key and drag an NVR to a channel window, and its cameras will be inserted to each channel window one by one. If the number of the remaining channel window is less than the total number of cameras from the NVR, those additional cameras will not be added.



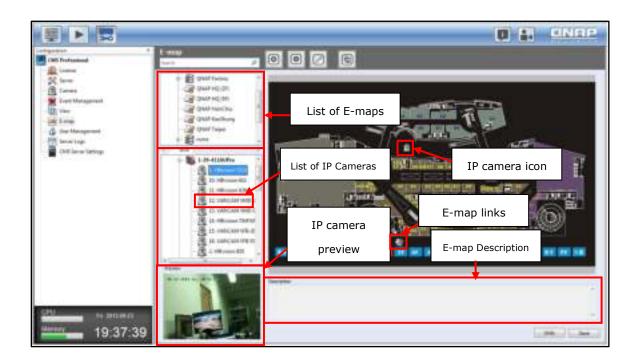
3.12 E-map

The E-map feature of the NVR is provided for users to upload electronic maps to the system to indicate the locations of the IP cameras. Users can drag and drop the camera icons* to the E-map and enable event alert to receive instant notification when an event occurs to the IP camera.

* To set up an IP camera on the E-map, please complete the IP camera settings on the Alarm Settings page on the NVR first.

An E-map example is shown below. The NVR provides a default E-map. Add or remove the E-maps whenever necessary.

Note: Please login the CMS Client as an administrator to edit and view the E-maps.



Icons and Description

Icon	Description
0	Add an E-map.
0	Remove an E-map.
	Edit the name of an E-map.
	Batch-upload E-maps.
	Icon for a set of E-maps.
in 1997 (* 1997) (* 1977) (* 1977) (* 1977) (* 1	Single-layer E-map: Click I to select a single-layer E-map. When an E-map is selected, the icon will become I.
4	An E-map symbol on the E-map. This symbol on the E-map serves as a link to another E-map. This is particularly convenient for users to switch between E-maps.
	An NVR icon used to indicate the location of an NVR. The NVR icon is only provided for users to pinpoint a NVR location on the map.
۹	Icon for a PTZ IP camera.
<i>A</i>	Icon for a fixed body or fixed dome IP camera. After dragging the icon to an E-map, right click the camera icon to change the icon direction or delete the icon from the E-map.

Tip: Double click a camera icon on the E-map to change its icon, name, or description. For the NVR, double click a NVR icon on the E-map to change its name or description, but not its icon.

Edit Camera Icon a	ind Name	X	
Icon :	Default -		
Name :	Entrance	Pres Ale	
Description :	IP cam D1 x H.264		
Remove		OK Cancel	

3.12.1 Adding E-map

To add an E-map to indicate the location of an IP camera, click ^[10] to enable the Edit mode and enter the map name and description. Browse and select the image file for the map and click "OK".



To add an E-map under another E-map, e.g. 1F-1, click the E-map icon at the upper layer, • After adding a lower layer E-map, the E-map icon at the e.g. 1F1029, and click upper layer will change to $rac{4}{8}$. Configuration 具 E-map CMS Professional Q Search License CMS(4) E- 2 Server 1F1029 0 Camera 3f1029 Event Management

Note: After a lower layer E-map is added, you will be automatically directed back to the upper layer E-map icon to add multiple E-maps for the same upper layer.

3F-1-1

View

E-map

User Management

t

Batch-uploading E-maps

Click **(IDE)** to batch-upload multiple E-maps to the CMS Server. Select the image files or directory on the left and click **"OK**" to upload the E-maps.



3.12.2 Editing an E-map Name

To edit an E-map name, select the E-map and click description, and click "OK". To change the picutre of the E-map, re-upload the picture and then click "OK".

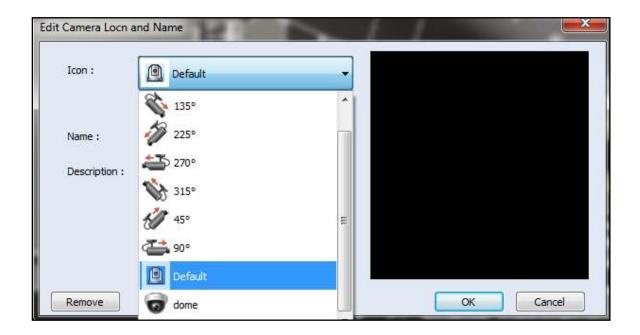
3.12.3 Deleting E-map

To delete an E-map, select the map icon $\arrow \arrow \arrow \arrow \begin{subarray}{c} \begin{subarray}{c} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$
under the same level, select the map set icon $\overset{\bigstar}{\approx}$, and click \fbox .

3.12.4 Editing IP Camera on E-map

After uploading the E-map and adding the cameras to the map, double click the IP camera icon to configure the cameras.

Icon :	Default	•	
Name :	Cam 1	_	
Description :	IP cam 1		



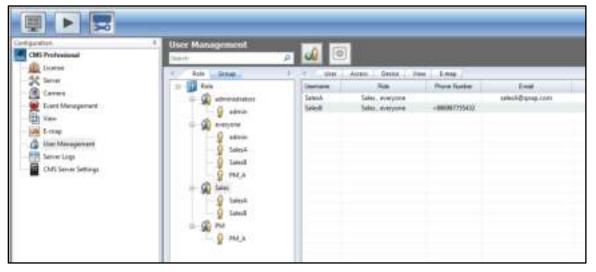
The icon style and name, font color, background color, description, etc. can be set. Please use the "Remove" button at the lower left corner to remove cameras.

The following is the icon and description of the camera alert icon displayed on the E-map:

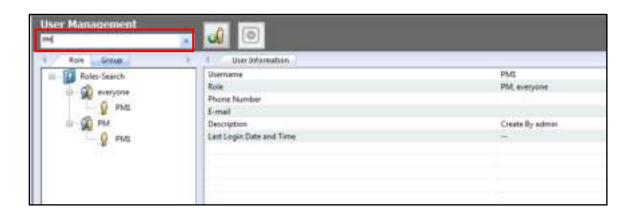
Icon	Description
*	Camera alert.

3.13 User Management

The CMS system provides secure user permission management. Two user categories are supported for this feature: role and group. For the role, appropriate permissions can be assigned for monitoring, playback, and system management functions, based on its positions and responsibilities. For the group, all the users are simply categorized for better classification and identification.



Note: The keywords entered in the search box on top left side of the page are case-sensitive.



Note: To delete a user under Role/Group, please do so in the user list under each role/group and not on the user information page.

3.13.1 Role Management

Assign users to their role based on their responsibility and specify permissions for their role on this page.

antiguestion. CMS Professional CMS Drofessional	Store Management	, "		-	
Sever Careers Careers Cont Mesuperant Sever Cong Cong Cong Cong Sever Logs Sever Logs Cold Sever Settings	Rom - Bank Part - Bank Part - State Part	Second	Acron Grein in Rom Sales, ever pore Sales, everyweet	Phone Russian	E-mail uniout/Ciprogram

Creating a new role

To create a new role, click	я,
-----------------------------	----

100

3 Role Wizar	d	×
Create Nev	v Role	
Name:	Guard	
Duplicate:	-NONE-	•
	NONE- PM Sales administrators everyone	
		Finish Cancel

Enter a name for the role and copy the permission attributes, such as accessing/editing the NVR, camera, display mode and E-map permissions, of the existing roles. Click "Finish" to save the changes.

Deleting a role

To delete a role, select the role on the list to the left and click ${
m L}$

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		-	1	
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12	۰.		£1	

Note: A role cannot be deleted unless all users under that role are deleted. Please be sure to delete all users under a role before deleting that role.

Creating new user(s) under the role

Select a role and click "Add User".



Enter all the fields in the User Management Wizard and the new user will appear under its perspective role.

Create New	User	
Usemane:	Guard1	
Password	•••	
Retype Password	•••	
Enal:	guard@mail.com	
Phone:	+886955987765	
Description.	Parking lot guard	

Username: The user name must be 1 to 32 characters in length. It supports alphabets (A-Z), numbers (0-9), and underscores (_). It is case-insensitive and supports double-byte characters, such as Chinese, Japanese, and Korean but cannot be a pure number or contain the following characters:

"/\[]:;|=,+*?<>`'

- Password: The password is case-sensitive and the maximum length is 16 characters. It is recommended to use a password of at least 6 characters.
- Other fields: Please finish the remaining fields, such as email, phone number and description.

Adding an existing user to the role

To quickly add existing users to a different role, simply choose a role, click "Add User to Role" and click "OK".

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Newly added users will be listed in the User Management Wizard. Click "Finish" to save the changes.

G	User Manangerment Wizard		R
	Select you want:		
	Usemane PM1 admin		
		Finish Cance	d

Editing an user

Select a user and click "Edit User".



Edit user information and click "Finish".

Edit User Ir	iformation	
Usemame:	sales1	
Password:	1	
Retype Password:		
Email:		
Phone:		
Description:	Create By admin	

Note: Due to security and safety concerns, the Password and Retype Password fields will be cleared each time the user password is edited.

Deleting an user/remove an user from a role

To delete a user, please select the role first. Select the user from the list to the right and click "Delete User".

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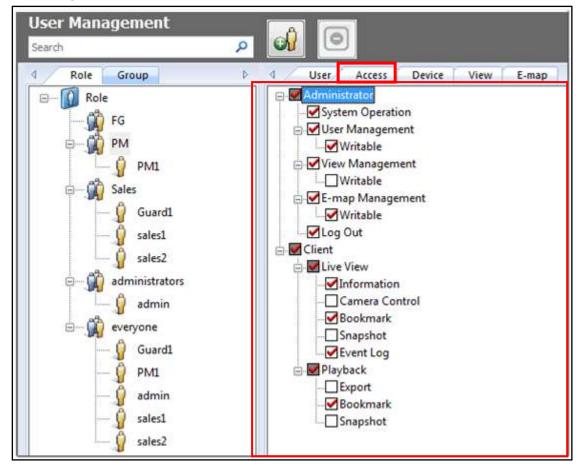
The chosen user account under the role will be deleted permanently from the system.

Please note that the "Remove User from Role" button is used to only remove the user account from the role, and the account will still exist in the system after the account is removed.

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Configuring role permissions

Select "Role" and the information of all users under that role will be shown. You can set the access rights of the role under the "Access" tab.

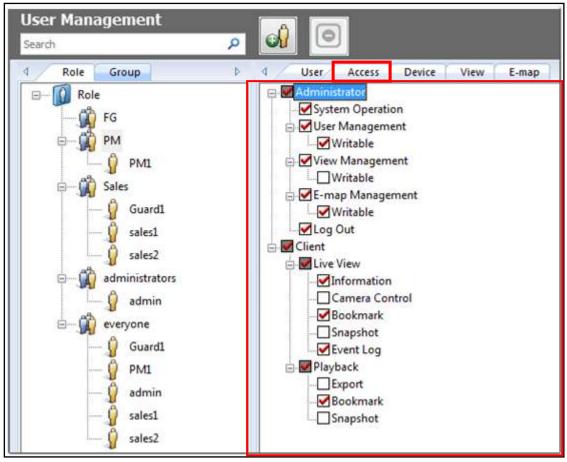


Access right (Administrator)	Description
System Operation	Ability to configure License, Server, Camera, Event Management.
User Management (Writable)	Ability to configure or only read User configuration.
View Management (Writable)	Ability to configure or only read View configuration.
E-map Management (Writable)	Ability to configure or only read E-map configuration.
Log Out	Ability to log out.

Access right (Client)	Description			
Live View/Information	Ability to see the camera live view and Input Device list.			
Live View/Camera Control	Ability to control camera panels.			
Live View/Bookmark	Ability to use quick/detail bookmarks on the live view page.			
Live View/Event Log	Ability to watch view and control event logs on live view page.			
Playback/Export	Ability to export video or playback.			
Playback/Bookmark	Ability to use quick/detail bookmark during playback.			
Playback/Snapshot	Ability to take a snapshot during camera playback.			

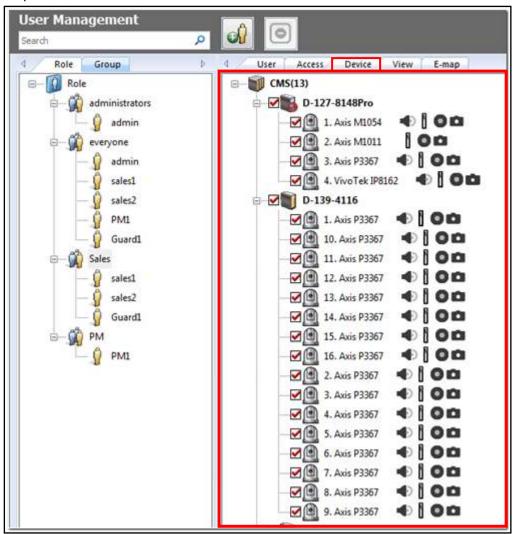
Access

This page includes two categories: administrator and client access. Each category is organized and presented in a treeview (click the "+" sign or "-" sign before an item to collapse or expand for more items.) Also, the access right for each application can be configured for the role.. Click "Save" after confirmation, or "Undo" to go back to the last step.



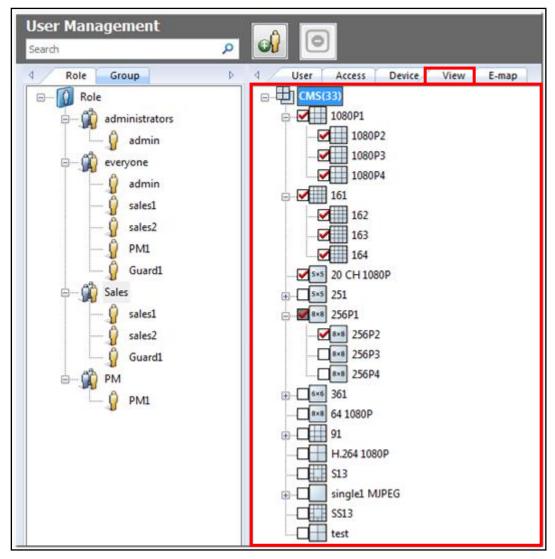
Device

Configure the access rights of the NVRs or the cameras for each role on this page. The available options include sound output/input, recording, PTZ control, manual recording and snapshot. Click "Save" to apply the changes or select "Undo" to return to the previous step.



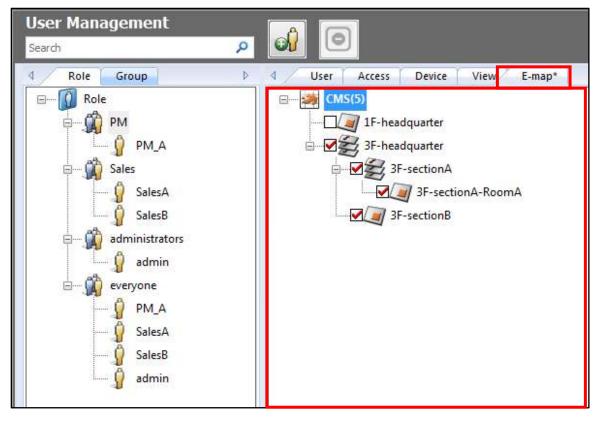
View

Configure the view layouts for each role on this page (this feature is for administrators only.) Click "Save" to apply the changes made on this page or select "Undo" to return to the previous step.



E-map

Assign the rights of each right to edit and use E-maps on this page (this feature is for administrators only). Click "Save" to save the changes made on this page or select "Undo" to return to the previous step.



3.13.2 Group Management

This feature is used to classify the users for efficient user management.

Note: The same CMS users can be assigned both to a Role and Group. Therefore, one user can have both role and group properties.

Adding a group

To create a new group, click **I**. Enter the name of the group and click **`**Finish''.

Group V	itued	
Create N	ew Group	
harm:	QuP Statia	
		Freith

Adding an user to a group

Select a group and click "Create New User".

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After all the fields in the User Management Wizard are complete, the newly created user will be listed under its perspective group under the "Group" tab.

		23
User Manange	erment Wizard	
Create New U	lser	
Usemame:	sales2	
Password:	•••••	
Retype Password:	•••••	
Email:	sales@gmail.com	
Phone:	+886978746544	
Description:	Sales manager: Mike Li Territory:South East Asia	
	<u></u> inish	Cancel

 Username: The user name must be 1 to 32 characters in length. It supports alphabets (A-Z), numbers (0-9), and underscores (_). It is case-insensitive and supports double-byte characters, such as Chinese, Japanese, and Korean but cannot be a pure number or contain the following characters:

"/\[]:;|=,+*?<>`'

- Password: The password is case-sensitive and the maximum length is 16. It is recommended to use a password of at least 6 characters.
- Other fields: fields such E-mail, phone number and description can be left blank.

Deleting a group

To delete a group, select the group on the left, and click .



Adding the existing user(s) to a group

To quickly add the existing users to the different groups, click "Add User to group".

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Users already created for the group will be listed. Click "Finish" after making your selection.

0	User Manangermen	t Wizard		×
Se	elect you want:			
User	name			1
PM1 admi sales	in			
			Fini	sh Cancel

Editing an user

Select a user and click "Edit User".

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Modify user information and click "Finish".

Edit User Inf	ormation	
Usemame:	sales1	
Password:	••	Ī
Retype Password:	•• 1	
Email:	sale@mail.com	
Phone:	+886765665	
Description:	Create By admin	

Note: Due to security and safety concerns, the Password and Retype Password fields will be cleared each time the user password is edited.

Deleting an user

To delete a user, select the role and the user, then click "Delete User". The account will be permanently deleted from the system after the user is deleted.

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Removing an user from a group

To remove a user from a group, select the user and click "Remove User from Group".

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Note: The "Removing User from Group" button will only remove users from a role, but the user account will still remain in the system.

3.13.3 User List

To check the users within a group or role, please click the role or group under the "Role" or "Group" tab and all user accounts and their details, including the name, role/group that it belongs to, phone number, email, and description, will be listed on the right side of the page.

User Management	a 🕜 🖸				
r Role Group	U I UIU	Actor Denut New	Low		
at I have	Gerare	Note	Plene Number	Enal	Description
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To further check on the details of a particular user account, please click on the user account on the left box and all its account details, including the Last Login Date and Time will be shown on the right side of the page.

Rote Group	B B User Information	
Role Role PM PM Soles SolesA SolesB Construction PMA SolesB Construction PMA SolesA SolesA SolesA SolesA SolesA SolesA SolesA SolesA SolesA SolesA SolesB SolesA SolesA SolesB SolesA SolesB SolesA SolesB SolesA SolesB SolesA SolesB SolesA SolesA SolesB SolesA SolesB SolesA SolesB SolesA SolesB SolesA SolesB Soles	Usemame Role Group Phone Number E-mail Description Lest Login Date and Time	administrators, everyone admingroup 2013-08-25:04:08:05.197539-01

3.14 CMS Server Settings

3.14.1 **Domain Security**

The domain security feature is designed for the CMS Server to join the Active Directory (AD) and Lightweight Directory Access Protocol (LDAP) directory and for AD and LDAP users to access the CMS Server. Go to the "CMS Server Settings" page to set up the domain security. There are three options available:

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• No domain security (local users only): Select this option, and only local users can access the CMS Server.



 Active Directory authentication (domain member): Select this option to join the CMS Server to an AD domain. Enter all fields and choose to enable the RADIUS service. After joining the CMS Server to an AD domain, the AD users can log into the CMS Server.

CMS Ser	wer Settlings	
Donait	George	
0	No domain security (local assets only)	
	Active Directory authentication (domain member)	
	LDAP authentication (LDAP client)	
AD S	arver host:	
Domi		
	ein Administrator Username:	
Dom	ain Administrator Pessword	
	nable RADOUS	
	RADIUS Server	
	RADBUS Secret	
10.0	tee the default RADIUS Port	
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Demain Lelanty*			
(F) Use the default LDAP Port			
LDAP Security	News	-	
LDAP BASE DN			
LDAP Bind DN			
LDAP Bind Password			
Users Base DN			
Enable RADIUS			
RADIUS Server	myRADRUS.grap.com		
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5 Server Settings			
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Demon Learly*	Мана		
Dense learly	Mexic		
Demon Learly ^(P) Use the default LDAP Port LDAP Security LDAP BASE DN	Mexie		
Demon Learly Use the default LDAP Port LDAP Security LDAP BASE DN LDAP Bind DN	Newz		
Demon Learly User the default LDAP Port LDAP Security LDAP BASE DN LDAP Bind DN LDAP Bind Password	Mexie		
Demon Learly User the default LDAP Port LDAP Security LDAP BASE DN LDAP Bind DN LDAP Bind Password	Mexie		
Demon Learly User the default LDAP Port LDAP Security LDAP BASE DN LDAP Bind DN LDAP Bind Password Users Base DN	myFMDRJ5.grap.com		
Demon Learly User the default LDAP Port LDAP Security LDAP BASE DN LDAP Bind DN LDAP Bind Password Users Base DN Enable RADIUS			

• LDAP authentication (LDAP client): Select this option to connect the CMS Server to an LDAP directory. Enter all fields (refer to the following table for explanations on each field) and choose to enable the RADIUS service. After the CMS Server is connected to the LDAP directory, either the local users or the LDAP users can be authenticated to access the CMS Server. After the LDAP directory settings are applied, users will be prompted to choose between "Local" and "LDAP Domain Name" in the "login to" field on the of login screen.

21-W21721		
Sewan Security		
No domain security (local	users only)	
Active Directory authentica	tion (domain member)	
 LDAP authentication (LDA) 	P client)	
Select the type of LDAP server:	LDWP Server	
DAP Server Host		
Use the default LDAP Port		
DAP Security	Name .	
DAP BASE DN		
DAP Bled DN		
DAP Bind Password		
Juers Base DN		
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Server Settings		
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Denset Security IDAP Security LDAP BASE DN	None	
Denset Brooth ⁽⁷⁾ Use the default LDAP Port LDAP Security LDAP BASE DN LDAP Bind DN	None	
Dented Brooth Use the default LDAP Port LDAP Security LDAP BASE DN LDAP Bind DN LDAP Bind Password	None	
Dented Brooth Use the default LDAP Port LDAP Security LDAP BASE DN LDAP Bind DN LDAP Bind Password	None	
Dense Broth Use the default LDAP Port LDAP Security LDAP BASE DN LDAP Bind DN LDAP Bind Password Users Base DN	None	
Use the default LDAP Port LDAP Security LDAP BASE DN LDAP Bind DN LDAP Bind Pasaword Users Base DN Enable RADIUS	None	
Dense Broth Use the default LDAP Port LDAP Security LDAP BASE DN LDAP Bind DN LDAP Bind Password Users Base DN		
	None	

Field	Description
Select the type of	Choose the LDAP server domain you want to access.

LDAP Server	
LDAP Server Host	The LDAP server host or IP.
LDAP Security	Specify how the NAS will communicate with the LDAP server:
	- Idap:// = Use a standard LDAP connection (default port: 389).
	- Idap:// (Idap + SSL) = Use an encrypted connection with SSL
	(default port: 686).
	- Idap:// (Idap + TLS) = Use an encrypted connection with TLS
	(default port: 389).
BASE DN	The LDAP domain. For example, dc=mydomain,dc=local
Root DN	The LDAP root user. For example,
	cn=admin, dc=mydomain,dc=local
Password	The root user password.
Users Base DN	The organization unit (OU) in which users are stored. For
	example, ou=people,dc=mydomain,dc=local

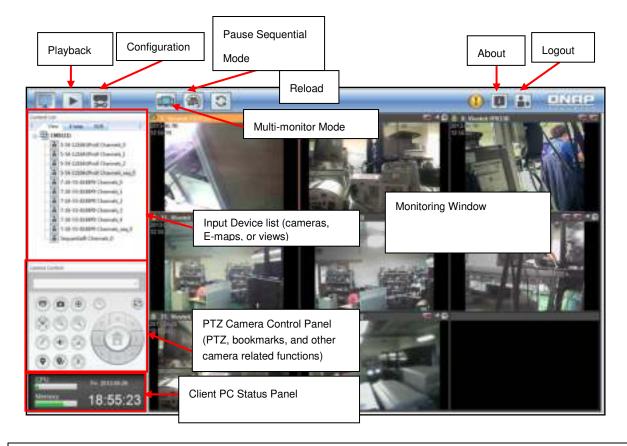
Note:

- To avoid account conflicts, please do not create CMS user accounts that already exist in the AD and LDAP directory.
- After the domain security feature is configured, please be sure to select the correct domain to log in on the login screen.

3.15 Live View

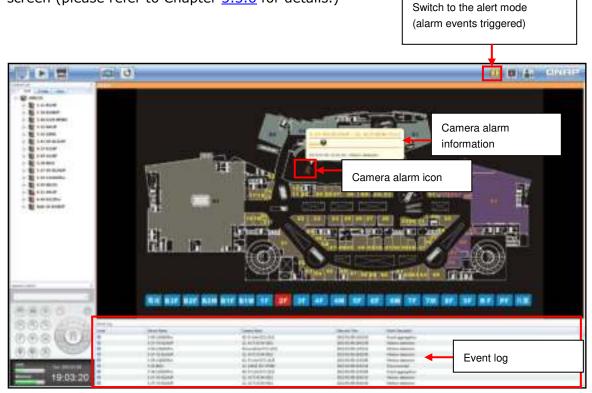
Upon successful login to the CMS Server, the live view console will appear. System administrators can view all the configured IP cameras and E-maps, switch between the display modes, enable or disable manual recording, or take a snapshot, etc. The borders and sizes of the left toolbar, the main screen in the middle, and the system logs window below are all adjustable. To set up the monitoring page, please first add NVR servers to the CMS Server, add camera channels, and then go to live view page (please refer to Chapter 5.4 and 5.7 for details.) The camera channels will be available on the page.

The live view page and all its features are described in the following figure:



Note: The Client PC Status Panel at the bottom left shows the date and time, and the memory and CPU usage of the client PC.

When an alarm is triggered by a camera and the CMS will enter the alert mode. There are two kinds of alert presentations in the alert mode: 1) if the live view is displayed on the Monitoring Window, the alarm button on the top right corner of the screen will start to flash. When this happens, users can click this alarm button to view the system logs; and 2) if the E-map is displayed on the Monitoring Window, the camera icon will change to . Users can choose to handle the alarm by moving the mouse cursor to the event logs at bottom of the screen (please refer to Chapter <u>3.3.6</u> for details.)



Note: Users can press F11 to turn the full screen mode on or off.



Icons and description of the main toolbar:

Icon	Description
	Open the live view page.
	Open the video playback page.
	Open the system configuration page (administrator username and password are required).
	The multi-monitor mode is supported. The icon will appear if the client PC has multiple monitors.
	Pause all cameras running in the sequential mode at any time in order not to miss any event.
C5	Reload the page.
I	Shows the CMS Client version and website address of QNAP Security.
	Logout the CMS Client.
	When an alarm is triggered, this icon will flash, and users can click this button to enter the alarm mode.

Icons and description of the Input Device List:

Icon	Description
	NVRs that have been added to the system.
	IP cameras that have been added to the system.
NVI NVI	This icon shows that there are several layers in the E-map. Click the icon to enter the next layer in the E-map group.
la 💓	Click (In the select a single-layer E-map.) When an E-map is selected, the icon will become

Note:

- Enabling or disabling manual recording will not affect scheduled or alarm recording. They are independent processes.
- By default, the snapshots are saved in "My Documents" or "Documents" > "Snapshots" (in Windows.)
- If the snapshot time is inconsistent with the actual time that the snapshot is taken, it is caused by the network environment and not a system error.
- The event alarm settings can only be configured on the NVR. Users can only enable or disable the CMS to receive alarms.
- When the digital zoom function is enabled on multiple IP cameras, the zooming performance will be affected if the computer performance decreases.

When right clicking a camera channel on the live view page, the following functions may not be available depending on the IP camera model:

- Connect to camera homepage.
- Camera Settings: Open the configuration page of the IP camera (Please refer to the camera settings in the NVR user manual for details.)
- Preset Positions: Select the preset positions of a PTZ camera.
- Auto Cruising: Configure the PTZ cameras to cruise according to the preset positions and the staying time set for each preset position.
- PTZ Control: Pan, tilt, or zoom camera control.
- Digital Zoom: Enable or disable digital zoom.
- Keep Aspect Ratio.
- Adjust Live Stream: Auto/Quality priority/Performance priority/Recording stream.
- Carousel: Manually switch to the next or last camera in the sequential mode.

3.15.1 Live View Page

After correctly setting the channel layout, the live videos of the IP camera will be shown on the live view page. Click the monitoring page to use the features supported. Please note that the PTZ camera control panel at bottom left side of the screen can only be used after a channel is selected from the monitoring page (The frame of the channel will turn into the orange color, and the channel selected will become an active channel.)

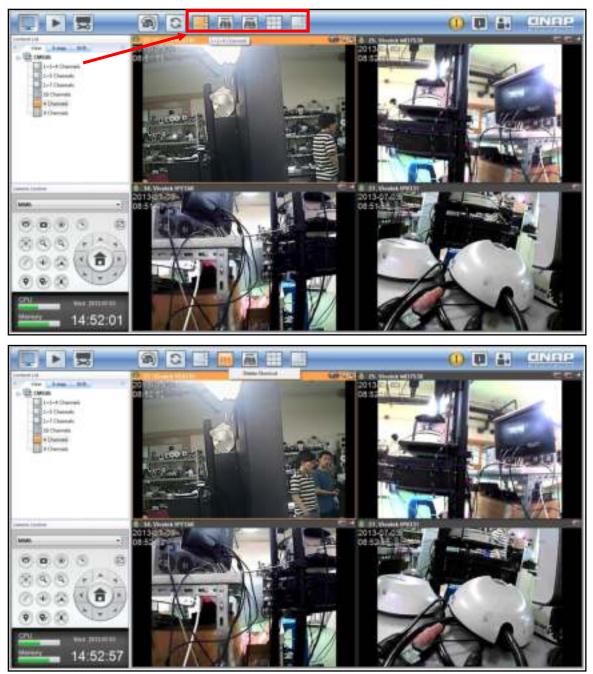


Camera Status

The camera status is indicated by the icons shown below:

Icon	Camera Status
SO	Indicates that the camera is in the scheduled or continuous recording
	mode.
MO	Indicates that manual recording mode is enabled for the camera.
	Indicates that the camera is currently being triggered to record by the
AO	advanced NVR Event Management ("Camera Settings" > "Alarm Settings"
	> "Advanced Mode").
	Indicates that this IP camera supports the audio function.
	Indicates that this IP camera supports PTZ control.
م	Indicates that digital zoom is enabled.

The frequently viewed channels can be dragged to the main toolbar as shortcuts. To delete a shortcut, right click the shortcut and select "Delete Shortcut".



Note: A maximum of five shortcuts are supported on the main toolbar (including camera live view and E-maps.)

Icons and description of main toolbar:

ICON	Description
	Single-channel view
	4-channel view (2x2)
	6-channel view (1+1+4)
	6 channel view (1+5)
	8-channel view (1+7)
	9-channel view (3x3)
	10-channel view (2+8)
	12 channel view
	13-channel view (1+12)
	16-channel view (4x4)
5×5	25-channels view (5x5)
6×6	36-channels view (6x6)
7×7	49-channels view (7x7)
8×8	64-channels view (8x8)

3.15.2 Bookmark

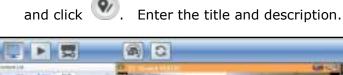
The CMS Client provides quick and detailed bookmarks to review the snapshot of a channel on the live video page.



• Quick bookmark 🕐: Select a live view channel and click 🕐.



• Detailed bookmark 🖤: To edit the content of a bookmark, select a live view channel





To review bookmarks, follow the steps below:

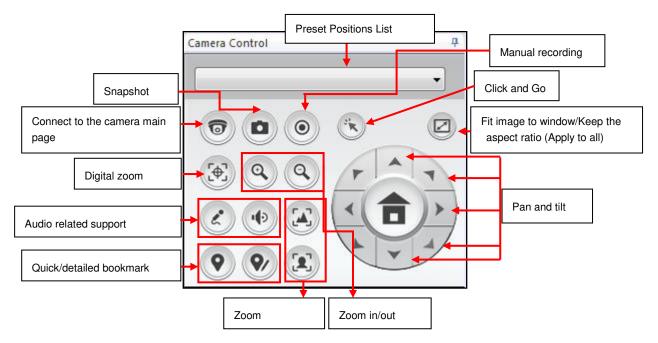
- 1. Click the playback button lie on the monitoring or management page.
- 2. Click the bookmark to view the content. You can also save the snapshot, print or delete the bookmark.



Note: When several bookmarks are set in less than two minutes, they will be grouped and sorted by time for easy search.

3.15.3 PTZ Camera Control

The term "PTZ" stands for "Pan/Tilt/Zoom". Use the PTZ Camera Control Panel in the CMS to adjust the viewing angle of an IP camera that supports PTZ controls. Support for PTZ controls vary depending on the camera models. Please refer to the user manual of your IP cameras for more information. Please note that the digital zoom function will be disabled when the PTZ function is in use.



Icons and descriptions of the PTZ Camera Control Panel:

Icon	Description
	Preset Positions List:
	Connect to the web page of the IP camera to customize the
•	preset positions and conveniently and quickly point the camera
	to the present point.
	Login the main page of the specified IP camera:
6	Select an IP camera and click this button to connect to the web
	page of that IP camera.
	Snapshot:
	Take a snapshot of the currently selected camera channel. After
	the snapshot appears, you can right click the snapshot to save
	it to the local computer.
0	Manual Recording:
	Start or cancel the recording (for system administrators only.)
-	Enable "Click and Go":
°₩.	Click the camera channel at any point to align it to the center of
	the screen.

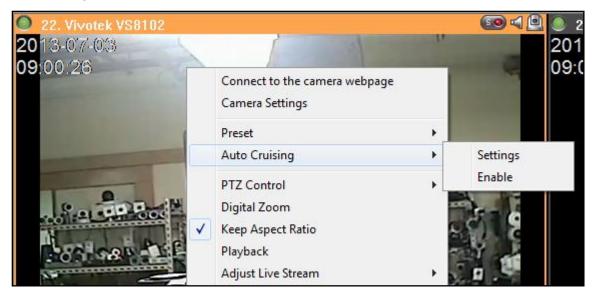
	Fit image to window/Keep the aspect ratio (Apply to	
	all):	
	Fit the live view channel to its window or keep the aspect ratio	
	for all channels on the Live View Screen.	
	Digital Zoom:	
ra7	Select an IP camera and click this button to enable	
L PJ	digital zoom. This function can also be enabled by right clicking	
	the Monitoring Window.	
	Zoom in/out:	
O O	Click these buttons to zoom in/zoom out a PTZ camera if that	
	camera supports digital zoom. With digital zoom enabled, the	
	buttons can be used to zoom in/zoom out the camera digitally.	
	Audio in:	
S	Enable/disable the camera's audio input.	
(III)	Audio Support (optional):	
42	Turn on or off the audio support for the live view page.	
	Focus Control:	
	Adjust the focus of the camera (if this feature is supported by	
	that camera.)	
0	Quick Bookmark:	
	Bookmark an instant video image for live view.	
0,	Detailed Bookmark:	
	Enter the details of a bookmarked image.	
Pan and Tilt:		
F	Click these buttons to pan or tilt the camera (If the pan and tilt	
	control is supported by the camera.)	

3.15.4 Auto Cruising

The auto cruising feature is used to configure the PTZ cameras to cruise according to the preset positions and the staying time set for each position.

To use the auto cruising feature, follow the steps below:

 Right click the PTZ camera channel on the live view page. Select "Auto Cruising" > "Settings".



2. View the preset position of a camera:

Server Name	5-54-121	164UPro		
Camera Name	22. Vivot	æk		
Preview				
Preset Name	Interva 5	Sec.		
Preset Name	5	Sec. Delete		
Preset Name	5			
Preset Name	5 Update			
Preset Name	5 Update Interval			
Preset Name hthth Add Preset Name pst_1	5 Update Interval 15			
Preset Name hthth • Add • Preset Name • pst_1 • pst_2 •	5 Update Interval 15 15			
Preset Name hthth Add Preset Name pst_1 pst_2 3_desktop	5 Update Interval 15 15 15			

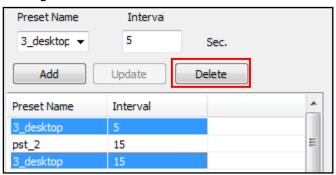
3. Add a preset point: To add a preset position for auto cruising, select a "Preset Name" from the drop-down menu and enter the staying time (interval, in seconds). Click "Add".

Preset Name	Interva	
pst_1 🔹	5 Sec.	
Add	Update Delete]
Preset Name	Interval	
pst_1	15	
pst_2	15	E

 Update a preset position: To change a setting on the list, highlight the selection. Select another preset position from the drop-down menu and change the staying time (interval). Click "Update".

Preset Name 3_desktop 👻	Interval Sec.]
Preset Name	Interval	
pst_1	15	
pst_2	15	E
3_desktop	15	
Preset Name	Interval	*
3_desktop	5	
pst_2	15	=
3_desktop	15	

5. Delete: To delete a setting, highlight a selection on the list and click "Delete". To delete more than one settings, press and hold the Ctrl key on your keyboard and select the settings. Click "Delete".



After configuring the auto cruising settings, select "Enable auto cruising" and click "OK".
 The PTZ camera will start auto cruising according to the settings.

Note:

- The default staying time (interval) of the preset position is 5 seconds. Enter 5–9999 seconds for this setting.
- The system supports up to 10 preset positions (the first 10) configured on the PTZ cameras. Up to 20 auto cruising settings can be configured. In other words, a maximum of 10 selections on the drop-down menu and 20 settings on the auto cruising list are supported.
- The name of a preset position can only be specified in languages other than English if it is supported by the camera.

3.15.5 Alarm Mode (Alarm List & Event Logs)

When an alarm is shown, click the icon to view the alarm information. The event logs will be shown at the bottom of the screen. If the E-map of the alarm camera is loaded, the Instant Popup Viewing window and the event logs can be displayed. Please refer to Chapter 3.3.7 for details.



Note: The alarm settings must be configured on the NVR first. Then, go to Event Management settings in the CMS to enable the alarm input of the camera, so that the CMS can receive the alarms from the NVR. Please refer to <u>Chapter 7-10 (FAQ)</u> for details. When an alarm is triggered, move the mouse cursor to the icon and the alarm information will be displayed. Double click the camera symbol to open the Instant Camera Viewing Popup Window and click the stop symbol to clear the alarm record. Double click the camera icon and a live window for the camera will pop up. If you further click the maximize button on the top right of the window, the video will occupy the single channel view for you to immediately monitor the camera where the alarm occurred. Click the close or restore down button to return to the E-map.



When moving the mouse cursor to the alarm snapshot in the alarm list to the right, the camera information and alarm content will both be shown.

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Lavel	a sector of test				British and a state of the state
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Note: Only the first 150 records can be saved in the event logs.

The content of an event log inludes the alarm event level, device (NVR) name, camera name, date and time an event occurs, and alarm details.

Note: The alarm list can be turned off, and so, to review an event, it is advised to check its recording files for more details...

Icon	Description
<u>a</u>	Open the E-map of the alarm-triggered camera.
Ţ	Open the live view of the alarm-triggered camera.
3	Show the pop-up window of the live view for the alarm-triggered camera.
۲	Immediately play back the video 15 seconds before or after the alarm is triggered.
۲	Turn off the camera alarm on the list. Please note that if a new alarm is triggered by a camera, the corresponding alarm will show up again.

3.15.6 **E-map**

Select the E-map tab on the left, double click or drag the E-map to the main screen to monitor.



Note: For more information on uploading E-maps, E-map related settings, and the camera icon settings on the E-map, please refer to Chapter 5.8.

An E-map provides the tooltip on camera information. Double click the camera icon to open the live view popup window, drag and move the window, or adjust the screen size.

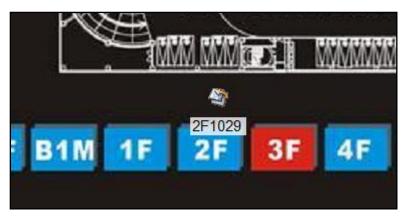
Note: A maximum of 5 live view popup windows can be opened on the E-map at the same time.



Click the maximize button on top right side of the live view popup window to expand it. Click the close or restore down button to return to the original E-map.



In addition to the live view popup window feature, multiple E-maps can be linked and grouped together. Double click an E-map icon on the E-map to open another E-map. Please note that the E-map icon serves as a link. So, users can inter-link different E-maps to quickly switch between them.



The E-map provides a variety of features and relevant E-map settings are covered in Chapter 5.8.



After a camera alarm is triggered on the NVR, the alarm information will be shown.

Icon	Description				
	Multi-layer E-map:				
The second secon	This icon shows that there are several layers in the E-map. Click				
7	the icon to enter the next layer in the E-map group.				
	Single-layer E-map:				
I	Click 🥥 to select a single-layer E-map. When an E-map is				
	selected, the icon will become				
	E-map link:				
1	Double click this icon to link other E-maps.				
	NVR:				
	The NVR icon is only provided for users to pinpoint a NVR				
~	location on the map.				

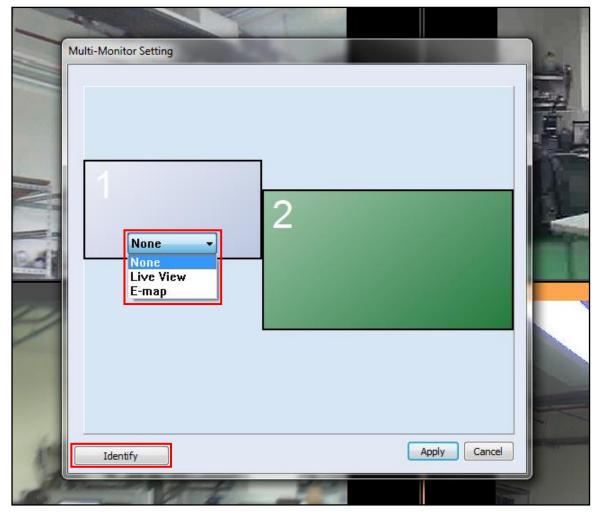
E-map icons and description:

3.15.7 Multi-monitor Mode

Click the icon in the Live View screen to configure the multi-monitor settings if multiple monitors (two to four) are connected to the client PC



The system will automatically retrieve the screen settings of the operating system. To identify the screen, click "Identify". Next, specify the screen function from the drop-down menu and the options include: None (do not display), Live view, and E-map.



The following shows an example of the Multi-monitor mode (Live View screen on the first monitor and E-map on the second monitor.)



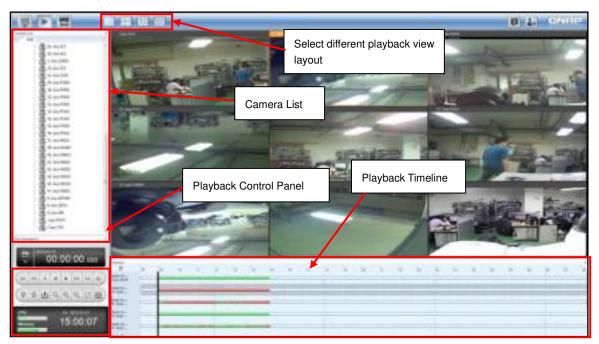
3.16 Playback

Using the CMS Client, you can playback recording files of a NVR on the playback page.

3.16.1 Video Playback Page

To switch to the Video Playback page, click the playback button on the monitoring or management page. You can search and play the recording files on multiple NVR servers. To

return to the live view page, click 🖳. To enter the system management page, click 🖾.



Note: The playback access right is required to play video files. For access right configuration, please refer to Chapter 5.9.1.

The icons and description of the video playback page are shown as below:

Icon	Description
	Single channel playback view.
	4-channel playback view.
	9-channel playback view.
	16-channel playback view.
L.	Export video: Export a video clip by entering the time interval of the playback.
49	Audio (optional): Enable or disable the audio function.
9	Digital zoom: Enable or disable the digital zoom function.
0	Zoom in/out: Click these buttons to zoom in/zoom out a PTZ camera if that camera supports digital zoom. With digital zoom enabled, the buttons can be used to zoom in/zoom out the camera digitally.
	Set the playback interval: Set the time interval between the start and end points of a clip for playback. This interval cannot exceed 24 hours.
	Fit image to window/Keep aspect ratio: Adjust the proportions of all or only the current video depending on synchronous or asynchronous playback mode.
	Asynchronous/synchronous playback mode in the multi-view layout: Set the playback mode to be with the same playing time or with independent playing time for each channel, but all in the same interval.
•	Quick bookmark: Bookmark an instant image of the camera.

9 /	Detailed bookmark: Enter the bookmark details of an instant image of the camera.
► , II	Play/pause a video.
-	Stop.
•	Reverse playback.
•• , >>	Decelerate/Accelerate.
	Previous frame/Next frame.

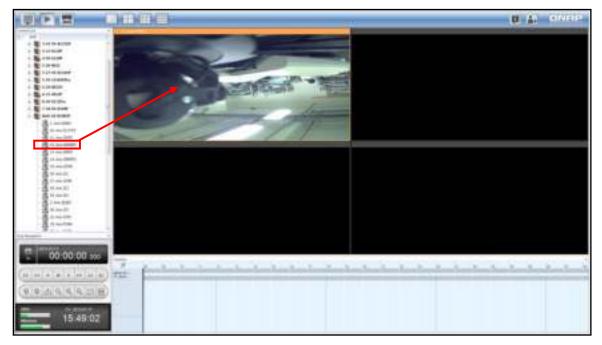
Playing recording files:

Follow the steps below to play the recording files on a remote NVR server:

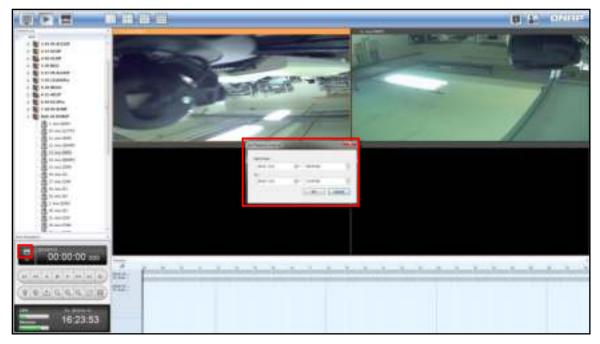
1. Select single-view or multi-view playback from the top.



2. Drag and drop a camera to the playback window.



3. Set the playback interval. The interval cannot exceed 24 hours.



4. After setting the start and end time, the green bar(s), representing normal recording files, and the red bar(s), representing alarm recording files, will be shown on the timeline.



5. Click or directly click on the timeline to playback the video. The NVR time for each channel is displayed on its respective screen. By default, the aspect ratio is kept for each camera.



6. Click the green parts of a timeline to view the camera image at the corresponding time point. Use the magnifying glass to zoom in or out on the timeline. A tooltip with the time information will appear when moving the mouse cursor to a corresponding time point on the timeline.

Timeline	00	01	02	03	04	05	06	07	08	09	10	11	12
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Timeline													
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9. GANZ Z				

05	06	07	(4-13-VS-6 2012/10/01 (020P)4. A 07:45:08	xis P5534 10	

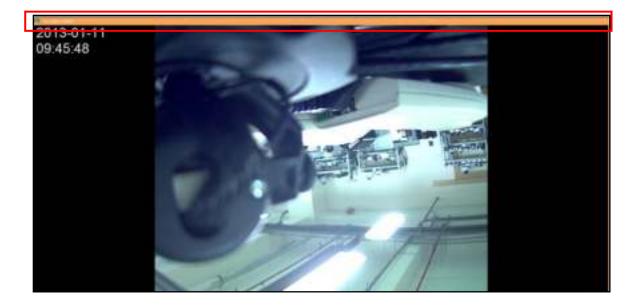
Note:

- The green parts on the timeline represent the intervals for round-the-clock recording files.
- After a camera is dragged to the screen and its recording files are being played, that channel window is reserved only for that camera until the current playback process is stopped and the camera status light turns red.
- The red parts on the green bars of the timeline represent the intervals for alarm recordings files. To use this feature, please configure the settings in "Camera settings" > "Alarm settings" on the NVR.

Double click the title of a camera to view its recording files in the single channel mode. Double click the title again to return to the original viewing mode.

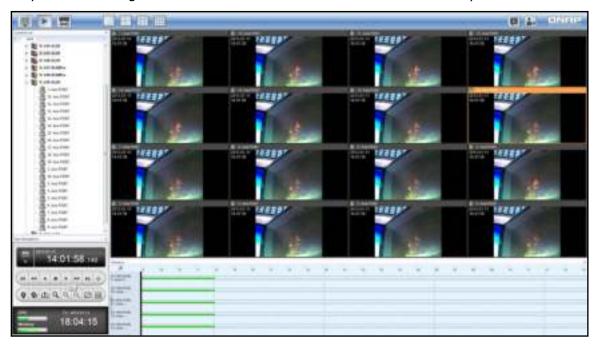
• In the 1 or 4-channel layout, you can right click each camera playback window to enable support for Intel hardware decoding (disabled by default).





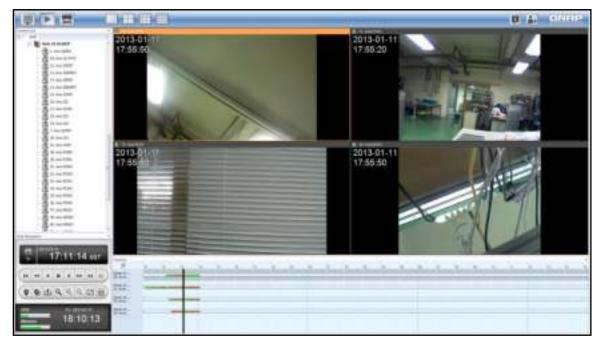


3.16.2 Multi-view Playback



Playback recording files of a maximum of 16 IP cameras concurrently.

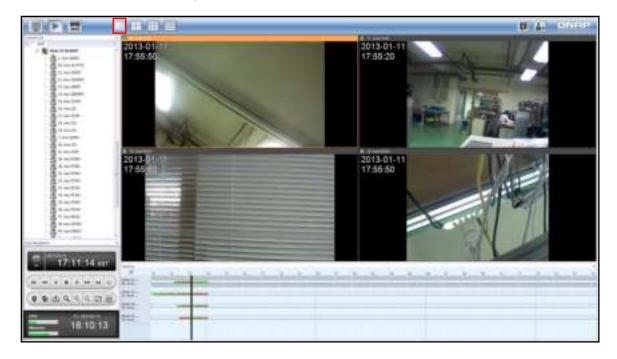
By default, the multi-view playback time is synchronized.



To playback each channel independently using the multi-view mode, click the synchronize



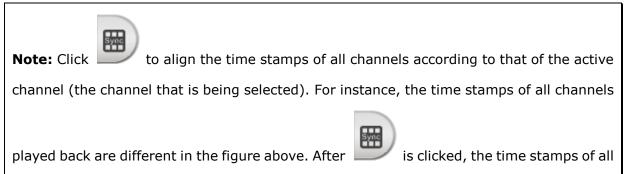
to cancel synchronization first.



In asynchronous playback, the timeline can be adjusted to playback at different time for each channel respectively.

Note: While switching to the asynchronous mode, you can independently playback each channel, but only within the same time interval.

御史での様		C	A ONRE
	2013-01-11 17-21-28 2013-01-11 16-41	2013-01-11 10.41:10 2013-01-11 10.41:00	
18:09	100 miles		



channels in the figure below will be aligned and played based on the channel four (the active channel.)



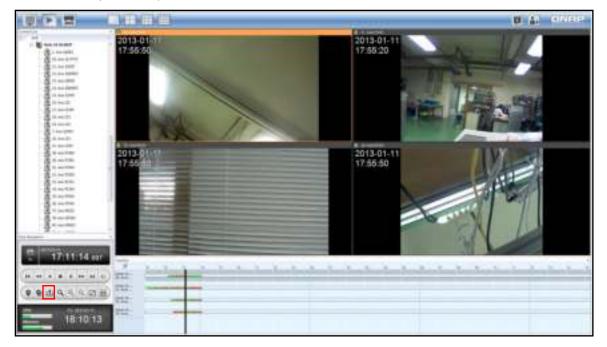
3.16.3 Exporting Video File

Follow the instructions below to convert the NVR recording files to the AVI format and save them to the local computer.

Note: The playback access rights of the IP camera need to be set before this feature can be used.

- 1. Select a NVR from the content list on the left, and drag and drop a channel (a camera icon) to be played to the playback window on the right.
- 2. Click 🚞 (Set Playback Interval) to select the interval.

3. Select the channel that you would like to export video files for and click (Export video file) on the panel.



Note: Only green and red parts on the timeline can be selected to export video files.

4. Enter the storage path and file name of the video file and click "Export". You can watch the video in the preview window. The time it takes to export the files varies depending on computer performance.

bpott			
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Carnera Name :	28. Apt 71304		
Expert Path :	- Bril		Dove.
Export File Name (Clet		
Start Time :	anay ana 🔤 =	16-07-26	-
Drof Time :	2012/1/11 10+	18/17/28	1
1			
			37%

Chapter 4 Server Log

The CMS logs are divided into event logs, service logs, and system logs. Among them, the event logs are shown on the main monitoring page, and the remaining two types of logs are in the server logs/ configuration. Besides the logs on the main monitoring page, you can switch to the previous or next page and refresh the page to check other available logs.

Note: Currently, only English event logs are supported by the CMS system.

4.1 Event Log

After the alarm mode is enabled, the following camera event logs will be recorded and listed at bottom of the page: IP camera connection, motion detection, or IP camera permission authentication failure.

Anald Log				
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0	3-38-45-43489	T. Pasanonic HOMMAN	JH12/5L/11 3F/8045	Market Reputitor
0	7 38 (5-85487	1. Fanasoris HCMAE	2012/01/11 18:00:42	Midor-Meterian
0	3-27-15-81240#	22. ACT: KON-MILL	2012/01/11 10:00/24	Adulton Simular

For each record, its priority level, device name, camera name, data and time and event description are displayed from left to right, and older logs (the first and oldest 150 records) will be overwritten automatically.

4.2 Service Log

Click "Server Log" on the configuration page and then the "System Event" tab to list all service logs. Each record listed is recorded from the last login to the current login. The log content is the communications, including messages, warnings, and errors, between the CMS system applications and the PC, CMS Server, or other NVR devices

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ing .	.311-46-(131/0.01.) advec	10.11.04-07	Represidents de Prette	instrum index extractive faul
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ing Management	2011-08-2248(X48:2 altrain	#1.87	license sold artivets	liverus solt activate fail
Contraction of the local division of the loc	2015-00-01-02-02 address	An AL IN ON	fearne pale activity	formus sumt and using half

For each record, its date and time, event level, username, IP address, device name, the log content and status are displayed from left the right.

4.3 System Log

The second item of the system configuration is system logs. The recording range is the interval from the last login to the current login. The content is the content of the events occurring at the bottom level of the CMS system, or the problems occurring between the underlying system and other devices, such as system malfunctions. You can view the event logs as the basis of diagnosing system problems.

Date and Time	A Land	Usenane	IF Address	Device forme	Cartiel	Set.	
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		system			[cferet 30.11.28.18] TextOR: incomplete headers (0 bytes) received from server "Justific		
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013-00-01 3k01-50	1	system	CMS Server	System	[client 10.11.15.27] FectOR comm with server "Just local/combin/avent.fcg/" aborts		
813-45-13 3811-52	2	system	CMS Sever	Sydem	(clevel UR11.19.18) FastCGI incomplete headers (5 bytes) received from server "Aux/L.		
SC144 (1-0-13)	- 4	tythers	CMS Server	System	[client III.11.18.18] FactOR comm with sever "/usc/local/omibin/event.fcg/" abote		
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107-00-023802-52	1.1	system	CMS Servar	System	[chert 10:11:28:18] Fast/CRI incomplete headers (8-loyted) received from senior "Aut/L.		
N3-69-03 I#12132	1	system	CMIS Service	System	(clere \$133.33.00) FeatOliz comm with server "/usarlocal/onsisin/event/cgr" aborte		
ND-00-03380352	- 02	system.	CMS Server	System	[cleat III.II.EX.II]/FwitCGL comm with server "/winfocal/onsitin/avent/rup" abone		
912-01-023802-55	- 2	system	CMS Setuer	System	(client UD31.2838) RentOSE incomplete headers (E-bytes) received from server "/via %		
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953-40-61 SHUE-50	1	system.	CMS Server	System	[client 10.11.10.18] FactOIB conten with server "/usinfocal/constan/event.httpf" aborts	Feiller 11 1810-50 2017	
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013-00-0118-01-48	1.2	system-	CMS Server	Sudem	(cleared \$5.11.28 M) FastCG2 incomplete headers (2 today) received from server "Auc."		
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013-02-0118-0147	1	system	CMS Server	Sutan	(clent 1013.3834) FaitCOI incomplete headers (2 byte) received hore paner "Just"		
TALENT CO-CO	1.1	system	CMS Set at	Sutam	(client 10.11.29 NC FastCE) comm with server "Just local/involvement frog" above		
44-11-81 11-09-120	1.5	tystem	CMS Server	Loten	(client 10.11.03.00) FeetCOD incomplete headers (0 byte) received how server "Just"		
623-62 23 28:23-46	1.2	system	CM5 Server	Sedam	(clast 10.11.29.18) FastCEL comm with server "/van/local/omdan/event frop" abote		
053-01-1110-145		system	CMS Server	Solen	(vised 10.11.03.18) FastO(3) incomplete headers (0 loves) received from server "vise"		
003-00-013812-45		system	CMS Server	System	Julient 10.11.35.18) FastCGL comm with server "Just local/umdain/avent fogs" aborts		
013-02-01 1813-88		system.	CME Server	Loten	[clarit 10.11.28.30] FaitCO2 incomplete headers (2 to/es) received horn an ar "Auc."		
013-02-03 38:03-44	14	system	CMS Server	System	I chard 1011.2018; FastCill common with server "Just/analytimation/avant/log" aborte		
013-00-01 18:01-44	1		CMS Server	Sulars	[clarit US11.03.00] FaitCill incomplete handers (Flanke) incomentation (Fig.		
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44.01年11月1日		system	CMS Server	Solen	(client 35.33.38.94) FuelCOL incomplete headers (2 total) received have server "/ver%.	TH AM DO 18 (2) 49 2021	

From left to right, the following log details are displayed: time, event level, username, IP address, device name (all names listed here will be shown as "System"), the event summary and status.

4.4 NVR Event Log

As the name implies, NVR event logs are event logs associated with an NVR or IP cameras. Click "Server Log" on the configuration page and then the "NVR Event" tab to list all NVR event logs. Each record listed is recorded from the last login to the current login.

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0014110467 1 inter	British 1 Transmitter	Witten Partnering-Stati	Amount 4: 50-18 (3-19
0010-0000 / 1 (min)	BOOM . However	See 14.1 feet	
And the second s	READ TO THE PARTY NUMBER	manual distance from	1000 (001 × 201 × 0.00 × 0.00
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(PE-0-) (MA	Reicht Alexand 199	Minu Invision 184	AMAGE 101 101 101 101 101 101 101 101 101 10

For each record, its date and time, event level, username, IP address, device name (for now, the name will only be NVR or camera), the content of the event and status are displayed from left the right.

4.5 Online User

To check on current online users, click "Server Log" on the configuration page and then the "ON-Line Users" tab. Click the "Previous", "Next" and "Refresh" buttons at bottom right side of the screen to list other online users.

Server Logs	
4 Server System Drent NVR Drent/ On-Line Users	P.
4 Server System Event, NVR Event, On-Line Users	*
admin	
1	
	Refeah Previous Page Next Page

Chapter 5 CMS Server Management

5.1 General Setting

5.1.1 System Administration

Enter the name of the CMS server. The system name supports a maximum of 14 characters and can be a combination of alphabets (a-z, A-Z), numbers (0-9), and dash (-). Space (), period (.), or pure number are not allowed.

General Set	tings				۵
SYSTEM ADMIR	ISTRATION	DATE AND TIME	DAYLIGHT SAVING TIME	LANGUAGE	PASSWORD STRENGTH
System Administ	tration				
Server Name:	CNIS				
System Port	8080				
2 Enable Se	cure Connectio	(SSL)			
Port Numi	ber 8081				
E Force	secure connecti	on (SSL) only			
Note: After ena https://	bling the 'Force	secure connectión (SSL	.) only" option, the Web Adminis	tration can only	be connected via
					APPLY.

Specify the port number used for system connection and the default value is 8080.

Enable Secure Connection (SSL)

To allow the users to connect the CMS Server, turn on secure connection (SSL) and enter the port number. If the "Force secure connection (SSL) only" option is enabled, the users can only connect to the CMS Server by HTTPS connection.

5.1.2 **Date and Time**

Adjust the date, time, and time zone according to your current location.

If the settings are incorrect, the timestamps (the event occurring time) on the recording files will be inaccurate.

General Se	ettings				0
SYSTEM ADM	INISTRATION	DATE AND TIME	DAVEIGHT SAVING TIM	ILANGUAGE	PASSWORD STRENGTH
Current date 2013/3/7 14:36					
Date and Tim	0				
Time Zone:	(GMT) Greenwik	th Mean Time : Oublin	, Edinburgh, Lisbon, London		
Date Format	yyyy/MM/D0	1			
Time Setting	24HR •				
🔹 Manual S	etting				
Date/Tim	e: 7013/3/7 • /	14 • : 33 • ;	52 -		
		time server automatica	sity		
Server. Time inte	poolintpiorg rval: 1 day	(8) =			
Set the serv	ertime the same as	s your computer time	UPDATE NOW		
					APPLY

Synchronize with the time of your computer

To synchronize the time of the CMS Server with the time of your computer, click "Update Now".

Synchronize with an Internet time server automatically

Turn on this option to synchronize the date and time of the NAS automatically with an NTP (Network Time Protocol) server. Enter the IP address or domain name of the NTP server, for example, time.nist.gov, time.windows.com. Then enter the time interval for synchronization.

Note: The first time synchronization may take several minutes to complete.

5.1.3 Daylight Saving Time

If your region adopts daylight saving time (DST), turn on the option "Adjust system clock automatically for daylight saving time" and click "Apply". The latest DST schedule of the time zone specified in the "Date and Time" section will be shown. The system time will be adjusted automatically according to the DST.

If your region does not adopt DST, the options on this page will not be available.

SYSTEM ADMINISTRATION	DATE AND TIME DAYLIGHT SAVING TIME LANGUAGE PASSWORD STRENGT
Daylight Saving Time	
Time Zone:	(GMT) Greenwich Mean Time : Dublin, Edinburgh, Lisbon, London
Recent daylight saving time.	Start time: 2013/03/31 , 01:00
	End time: 2013/10/27 , 02:00
Offset	+50 minutes
2 Adjust system clock aut	tomatically for daylight saving time.
Enable customize	d daylight saving time table.

To enter the daylight saving time table manually, select the option "Enable customized daylight saving time table". Click "Add Daylight Saving Time Data" and enter the daylight saving time schedule. Then, click "Apply" to save the settings.

Enable customized days	ight saving time table.		
			APPLY
intomized Daylight Savinc	Time Tables		
intomized Daylight Saving	Time Tables		
istomized Daylight Saving) Time Tables	Offset	Davight Saving Time Data

5.1.4 Language

Select the language the CMS uses to display the files and directories.

Note: All the files and directories on the CMS will be created using Unicode encoding. If your PC does not support Unicode, select the language which is the same as the OS language of your PC in order to view the files and directories on the system properly.

SYSTEM ADMINISTRA	TION DATE AND	TIME DAYLIGHT SAVING	LANGUAGE	PASSWORD STRENGT
Länguage				
Fliename Encoding:	English			

5.1.5 Password Strength

Specify the password rules. After applying the settings, the system will automatically check the validity of the new password.

SYSTEM ADMINISTRATION	DATE AND TIME	DAYLIGHT SAVIN	6 TIME LANGUAG	PA5SWORD STRENGTH
Password Strength				
1 Please select a new part upper case lefters, digits, i			st three of the following	classes lowercase letters
2. No character in the new	password may be rep	eated more than thre	e times consecutively.	
🗐 3. The new password mus	f not be the same as	the associated usern	ame, or the username	reversed
				APPLY

5.2 Network Setting

5.2.1 **TCP/IP**

(i) IP Address

Configure the TCP/IP settings of the CMS Server on this page. Click the Edit button (\textcircled) to edit the network settings (TCP/IP Property, as described in the following paragraphs). For the CMS Server with two LAN ports, users can connect both network interfaces to two different switches and configure the TCP/IP settings. The CMS Server will acquire two IP addresses which allow access from two different subnets. This is known as multi-IP settings. When using the QNAP Finder to detect the CMS IP, the IP of the Ethernet 1 will be shown in LAN 1 only and the IP of the Ethernet 2 will be shown in LAN 2 only.

	-							_	_
Interface	DHCP	IP Address	Sobnet Mask	Galeway	MAC Address	Speed	MTU	Link	Ed
Ethernet 1	Yes	10 11 16 110	255 255 254 0	10.11.16.1	00.08.9B D2 E0.76	100Mbps	1500	۲	2
Ethernet 2	Yes	0.0.0.0	0.0.0.0	0.0.0.0	00:08:98:D2:E0:77	-	0	•	2
Secondary D			1.012	. 0					
Jumbo Fram	e will only his function	y work in Gigabi			take sure your clients a nd the same MTU value				
	Calact In	mbo Frame sett	ing: 1500 🔹						
Ethernet 1) S	Select Jul		and the second se						

Click the Edit button (), as described above to open the "TCP/IP Property" page and configure the following settings:

CP/IP - Property		
Network Speed	to-negotiation	
Obtain IP address se	ings automatically via DHCP	
O Use static IP address		
Fixed IP Address: 16	. 254 . 100 . 100	
Subnet Mask:	55 . 255 0 0 -	
Default Gateway: 16		
Enable DHCP Serve		
Start IP Address: 10	. 11 . 1 . 100	
End IP Address: 10	. 11 . 1 . 200	
Lease Time: 1	Day 0 Hour	
Lease time.	Day U Hour	
Step 1 of 1	AP	CANCEL

Network Speed

Select the network transfer rate according to the network environment to which the CMS Server is connected. Select auto negotiation and the system will adjust the transfer rate automatically.

Obtain the IP address settings automatically via DHCP

If the network supports DHCP, select this option and the CMS Server will obtain the IP address and network settings automatically.

Use static IP address

To use a static IP address for network connection, enter the IP address, subnet mask, and default gateway.

Enable DHCP Server

A DHCP (Dynamic Host Configuration Protocol) server assigns IP addresses to the clients on a network. Select "Enable DHCP Server" to set the CMS Server a DHCP server if there is none on the local network where the CMS Server locates.

Note:

- Do not enable DHCP server if there is already one on the local network to avoid IP address conflicts or network access errors.
- The DHCP server option is available to Ethernet 1 only when both LAN ports of a dual LAN CMS Server are connected to the network and configured as standalone IP settings.

Start IP, End IP, and Lease Time: Set the range of IP addresses allocated by the CMS Server to the DHCP clients and the lease time. The lease time refers to the time that an IP address is leased to the clients. During that time, the IP will be reserved to the assigned client. When the lease time expires, the IP can be assigned to another client.

(ii) Default Gateway

Select the gateway settings. Please be reminded to select the first LAN port for the default gateway if both LAN ports are connected to the network.

(iii) DNS Server

Primary DNS Server: Enter the IP address of the primary DNS server. This server will provide the DNS service to dissolve domain names of the external network for the CMS Server.

Secondary DNS Server: Enter the IP address of the secondary DNS server. This server will be the second server to provide the DNS service for the CMS Server.

Note:

- Please contact the ISP or network administrator for the IP address of the primary and the secondary DNS servers. When the CMS Client needs the domain name to connect to the CMS Server, the client needs at least one DNS server IP for proper URL connection. Otherwise, the function may not work properly.
- If you select to obtain the IP address by DHCP, there is no need to configure the primary and the secondary DNS servers. In this case, enter "0.0.0.0".

5.2.2 **DDNS**

To allow remote access to the CMS Server using a domain name instead of a dynamic IP address, enable the DDNS service.

letwork	
TCP / IP DDNS IPV6	
DDRS Service	
After enabling DDNS Service, you can connect to this	s server by domain name.
Enable Dynamic DNS Service	
Select DDNS server:	www.dyndns.com -
Enter the account information you registered with	h the DDNS provider
User Name:	
Password.	
Host Name:	
Check the External IP Address Automatically	10 minutes +
Current WAN IP:	118.166.234.178
Recent DDHS Update Result	
Connection IP Last Checked:	
Next Check for Connection IP:	
Last DDNS Update Time:	
Update Server Response:	
	APPLY

The CMS supports the following DDNS providers:

http://www.dyndns.com, http://update.ods.org, http://www.dhs.org, http://www.dyns.c
x, http://www.3322.org, http://www.no-ip.com °

5.2.3 **IPv6**

The CMS supports IPv6 connectivity with "stateless" address configurations and RADVD (Router Advertisement Daemon) for IPv6, RFC 2461 to allow the hosts on the same subnet to acquire IPv6 addresses from the CMS automatically.

Interface Auto-Configuration IPv6 Address Prefix Length Gateway Li Ethernet 1 Yes fe80:208-90fffed2:e076 64	Link Er
Evening i res less zos sociedzes/is 64	
NS Server	

To use this function, select the option "Enable IPv6" and click "Apply". The CMS will restart. After the system restarts, login the IPv6 page again. The settings of the IPv6 interface will be shown. Click the Edit button to edit the settings.

IPv6 Auto-Configura	tion	
OUse static IP addres	s	
Fixed IP Address:		
Prefix Length:	0	
Default Gateway:	5	
Enable Router	Advertisement Daemon (radvd)	
Prefix:		
Prefix Length:	0	

IPv6 Auto Configuration

If an IPv6 enabled router is available on the network, select this option to allow the CMS Server to acquire the IPv6 address and the configurations automatically.

Use static IP address

To use a static IP address, enter the IP address (e.g. 2001:bc95:1234:5678), prefix length (e.g. 64), and the gateway address for the CMS. You may contact your ISP for the information of the prefix and the prefix length.

Enable Router Advertisement Daemon (radvd)
 To configure the CMS Server as an IPv6 host and distribute IPv6 addresses to the local clients which support IPv6, enable this option and enter the prefix and prefix length.

IPv6 DNS server

Enter the preferred DNS server in the upper field and the alternate DNS server in the lower field. Contact the ISP or network administrator for the information. If IPv6 auto configuration is selected, leave the fields as "::".

5.3 Power Management

You can restart or shut down the CMS Server and specify the behavior of the CMS Server after a power recovery.

ower Management	(
Restart/ Shutdown	
Execute system restart/ shutdown immediately.	RESTART
EuP Mode Configuration	
C Enable	
Disable	
Configure Wake on LAN	
O Enable	
Disable	
When the AC power resumes	
Resume the server to the previous power-on or power-off status	
O The server should remain off.	
	APPLY

Restart/Shutdown

Restart or shut down the CMS Server immediately.

If you try to restart or turn off the CMS Server from the web-based interface or the LCD panel (if available) when a remote replication job is in process, the CMS Server will prompt you to ignore the running replication job or not.

EuP Mode Configuration

EuP (also Energy-using Products) is a European Union (EU) directive designed to improve the energy efficiency of electrical devices, reduce use of hazardous substances, increase ease of product recycling, and improve environment-friendliness of the product.

When EuP is enabled, the following settings will be affected so that the CMS Server maintains low power consumption (less than 1W) when the CMS Server is powered off:

- Wake on LAN: Disabled.
- AC power resumption: The CMS will remain off after the power restores from an outage.

When EuP is disabled, the power consumption of the CMS Server is slightly higher than 1W when the CMS Server is powered off. EuP is disabled by default so that you can use the functions Wake on LAN, AC power resumption settings properly.

This feature is only supported by certain CMS Server models, please visit <u>http://www.qnapsecurity.com/pro_detail_featurecms.asp?p_id=273</u> for details

Configure Wake on LAN

Turn on this option to allow the users to power on the CMS Server remotely by Wake on LAN. Note that if the power connection is physically removed (in other words, the power cable is unplugged) when the CMS Server is turned off, Wake on LAN will not function whether or not the power supply is reconnected afterwards.

When the AC Power resumes

Configure the CMS Server to resume to the previous power-on or power-off status, turn on, or remain off when the AC power resumes after a power outage.

5.4 Backup/Restore Settings

ackup/Restore Settings	6
Backup System Settings	
To backup all settings, including user accounts, server name and network configuration etc., click [BACKUP] and select to open or save the setting file.	
паскир	
Restore System Settings	
To restore all settings, cick [Browse] to select a previously saved setting file and cick [RESTORE] to confirm.	
Browse	
RESTORE	

Backup System Settings

To back up all the settings, including the user accounts, server name, network configuration, and so on, click "BACKUP". If the system asks whether to open or save the backup image file, select "Save".

Restore System Settings

To restore all the settings, click "Browse" to select a previously saved setting file and click

"Restore".

5.5 System Log

5.5.1 System Event Log

The CMS Server can store 32,768 recent event logs, including warnings, errors, and information messages. If the CMS Server does not function correctly, refer to the event logs for troubleshooting.

Tip: Right click a log to delete the record. To clear all the logs, click "Clear".

	SYSTEM EVE	IT LOGS	SYST	EM CONNEC	TION LOGS	ON-LINE USERS
AI	events 💽	O Clear	O Save]		
Type	Date	Time	Usera	Source IP	Computer name	Content
	2013-03-06	03,17,17	System	127.0.0.1	localhost	Re-launch process (cms/msghandler),
	2013-03-06	03:17.17	System	127.0.0.1	localhost	Re-launch process (stunnel).
di.	2013-03-06	03:16:47	System	127.0.0.1	localhost	Re-launch process (cmsmsghandier)
(B)	2013-03-06	03:16:46	System	127,0.0.1	localhest	Re-launch process (stunnel)
	2013-03-06	03:16:16	System	127.0.0.1	localhost	Re-launch process [cmsmsghandler]
db.	2013-03-06	03:16:16	System	127.0.0.1	localhost	Re-launch process (stunnel)
di.	2013-03-06	03.15.46	System	127.0.0.1	localhost	Re-launch process (cms:msghandler)
4	2013-03-06	03:15:45	System	127.0.0.1	localhost	Re-launch process [shunnel]
a.	2013-03-06	03 15 15	System	127.0.0.1	localhost	Re-launch process (cmsmsghandler)
a.	2013-03-06	03.15.15	System	127.0.0.1	localhost	Re-launch process [stunnel]

5.5.2 System Connection Log

The CMS Server can store 32,768 recent event logs, including warnings, errors, and information messages. If the CMS cannot be logged in normally, refer to the system connection logs for troubleshooting.

Click "Save" to save the log data as a CSV file and "Clear" to clear all the logs.

Note: Only English event logs are supported in this system.

syste	em Logs	0								
-	NUMBER OF STREET	065 ST	STEH COMMO	C110H LOSS	ON-LINE ONERS	1				
Ale	verts • •	Cest O S	ave	-		4				
_	Date	Teme	Uners	Source IP	Computer Name	Connection	Accessed resources		Action	
Type										

5.5.3 On-line User

The information of the on-line users connecting to the CMS Server by networking services is shown on this page.

Tip: Right click a log to disconnect the IP connection and block the IP.

Syste	m Logs							0
909	IN IVENT LOGS		NECTION	NOGS ON-LI	IK USERS			
Tape	Logist date	Logertime	Users	Source IP	Competer same	Connection type	Accessed resources	
	2013-03-07	18:30:28	warner.	10.11.10.29	-	HTTP	Admirestration	
	T event.	-		of this consulction place and				
			Orseptition	of this comparison.	end Mack the P			

5.6 Firmware Update

5.6.1 Update Firmware by Web Administration Page

îrmware Update	Į.
FERROWARE UPDATE	
Firmesare Update	
Cument@mware version: 3.7.3 Bulld 20125801	
Before updating system firmware, please make sure the product model and firmware version are correct. Follow the steps below to	upidate firmware
 Download the release notes of the same version as the timware from GNAP website http://www.unuc.com Read the or carefully to make sure you need to update the timware. 	elease notes
2. Before updating system timeware, back up all data data on the server to avoid any patential data toxis during system update	ate.
3 Click the [Browse,] button to select the correct firmware image for system update. Click the [Opdate System] button to	update the Ermware
Choose File Ito file chosen	
Note: system update may take term of seconds to several minutes to complete depending on the network connection status, please system will inform you when system update is completed.	wid patiently. The
	UPDATE SYSTEM

Note: If the system is running properly, there is no need to update the firmware.

Before updating the system firmware, make sure the product model and firmware version are correct. Follow the steps below to update firmware:

- Download the release notes of the firmware from the QNAP Security website <u>http://www.qnapsecurity.com</u>. Read the release notes carefully to make sure it is required to update the firmware.
- 2. Download the CMS Server firmware and unzip the IMG file to the computer.
- 3. Before updating the system firmware, back up all the disk data on the CMS Server to avoid any potential data loss during the system update.
- 4. Click "Choose File" to select the correct firmware image for the system update. Click "UPDATE SYSTEM" to update the firmware.

The system update may take up to several minutes to complete depending on the network connection status. Please wait patiently. The CMS Server will inform you when the system update has completed.

5.6.2 Update Firmware by QNAP Finder

The CMS Server firmware can be updated by the QNAP Finder. Select a CMS Server model and choose "Update Firmware" from the "Tools" menu.

QNAP		Restart Shut d Remot	letwork Drive t Server own Server te Wake Up (Wake Network Camera		
Name	IPA	Undet	- C		AC Address
CMS-QNAP	10.	Update Firmware			0-08-9B-D2-75-AC
CMS	10.	NetBal	k Replicator		0-08-9B-D6-C1-5/
INDS-DVR	10.	QBack			0-08-9B-1F-99-D4
NASBE3E6E	10.	QGet			0-08-9B-BE-3E-6E
NASD3016C	192	and an and a second	21		0-08-9B-D3-01-6C
NASD301AE	10.		e Player		0-08-9B-D3-01-AE
NVRD436A5	10.	VioGat	e Master		0-08-9B-D4-36-A5
SG-ST3000NC	10.11.1	0.66	4.0.1 (6128)	VS-2112Pro+	00-08-9B-D4-37-43
SG-ST1500DM00	10.11.1	0.68	4.0.2 (6226)	VS-2112Pro+	00-08-9B-D4-36-F5
QNAPNVR	10.11.1	0.197	4.0.2 (6226)	VS-4016Pro	00-08-9B-A2-C3-11
SG-ST3000NC000	10.11.1	0.77	4.0.0 (6019)	VS-4116Pro+	00-08-9B-D3-BF-21
HGST-HMS5C4040	10.11.1	0.76	4.0.2 (6208)	VS-4116Pro+	88-88-88-88-87-88
WD-WD1002FAEX	10.11.1	0.92	4.0.2 (6226)	VS-4116Pro+	00-08-9B-D3-BE-DI
SG-ST2000DM001	10.11.1	0.75	4.0.0 (6019)	VS-4116Pro+	00-08-9B-D3-BE-F1
SG-ST1500DM003	10.11.1	0.83	4.0.0 (6019)	VS-4116Pro+	00-08-9B-D3-BF-31
SG-ST3000DM001	10.11.1	0.73	4.0.0 (6019)	VS-4116Pro+	00-08-9B-D3-BE-C
61-stress-4	10.11.1	0.79	4.0.0 (6019)	VS-6120Pro+	00-08-9B-D3-BF-B3
StreamServer65 ∢	10 11 1	0.65	4 0 0 (6019) III	VS-6120Pro+	00-08-9B-D3-BF-FF

Login the CMS Server as an administrator.

Administrator Name:	admin
Administrator Password:	••••
	Remember user name and password

Browse and select the firmware for the CMS Server. Click "Start" to update the system.

C Peut of Standing	i firmware image fik	e.			•	Browse
 Automatically u 	pdate the firmwar	e to the latest v	ersion			
Server Name	Model Name	Version	MAC Address	Prog	Status	
CMS			00-08-98-D4-1C-45			
CMS-QNAP		1.0.0 (201	00-08-98-D2-75-AC 00-08-98-D4-1D-15			
*1						

Note: The CMS servers of the same model on the same LAN can be updated by the QNAP Finder at the same time. Administrator access is required for system update.

5.7 Restoring to Factory Default

To reset all the system settings to default, click "RESET" and then click "OK".



Caution: When "RESET" is pressed on this page, all the disk data, user accounts, network shares, and system settings will be cleared and restored to default. Always back up all the important data and system settings before resetting the CMS Server.

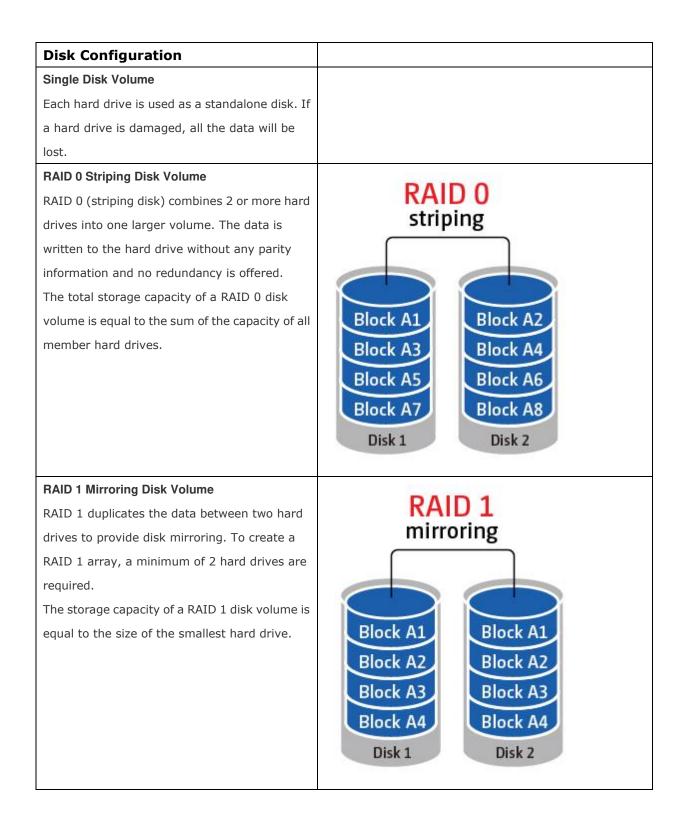
5.8 Disk Management

1

This page shows the model, size, and current status of the hard drives on the CMS Server. You can format and check the hard drives, and scan the bad blocks on the hard drives.

5.8.1 Volume Management

Current	Disk Volume Configuration : Physical	Disks			
Disk	Model	Capacity	Status	Bad Blocks Scan	SMART Information
Drive 1	Seagate ST3320418AS CC44	298.09 GB	Ready	SCAN NOW	GOOD
	-			SCAN NOW	 S beföre, the hard drive v
lote that il simated	 Fyou are going to install a hard drive (r and partitioned automatically and all th Disk Volume Configuration - Logical V 	te disk data will be	h has never b	Nuclein Contraction of Contraction of Contraction Cont	 S before, the hard drive v
lote that il simated	and partitioned automatically and all th Disk Volume Configuration : Logical V	te disk data will be	h has never b	een installed on the NA	S before, the hard drive v Status



RAID 5 Disk Volume

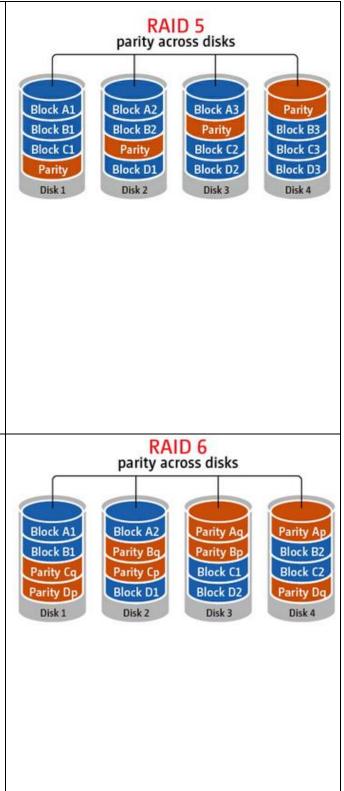
The data are striped across all the hard drives in a RAID 5 array. The parity information is distributed and stored across each hard drive. If a member hard drive fails, the array enters degraded mode. After installing a new hard drive to replace the failed one, the data can be rebuilt from other member drives that contain the parity information.

To create a RAID 5 disk volume, a minimum of 3 hard drives are required. The storage capacity of a RAID 5 array is equal to (N-1) * (size of smallest hard drive). N is the number of hard drives in the array.

RAID 6 Disk Volume

The data are striped across all the hard drives in a RAID 6 array. RAID 6 differs from RAID 5 that a second set of parity information is stored across the member drives in the array. It tolerates failure of two hard drives.

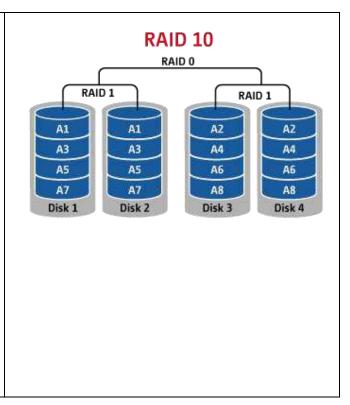
To create a RAID 6 disk volume, a minimum of 4 hard drives are required. The storage capacity of a RAID 6 array is equal to (N-2) * (size of smallest hard drive). N is the number of hard drives in the array.



RAID 10 Disk Volume

RAID 10 combines four or more disks in a way that protects data against loss of non-adjacent disks. It provides security by mirroring all data on a secondary set of disks while using striping across each set of disks to speed up data transfers.

RAID 10 requires an even number of hard drives (minimum 4 hard drives). The storage capacity of RAID 10 disk volume is equal to (size of the smallest capacity disk in the array) * N/2. N is the number of hard drives in the volume.



5.8.2 **RAID Management**

You can perform online RAID level migration and recover a RAID configuration on this page. You can perform online RAID capacity expansion (RAID 1, 5, 6, 10) and online RAID level migration (single disk, RAID 1, 5, 10), add a hard drive member to a RAID 5, 6, or 10 configuration, configure a spare hard drive (RAID 5, 6, 10) recover a RAID configuration on this page.

RAID Manager	nent			(
	read the instruction			ration or spare drive configuration with the original drive data reserved ally understand the correct operation procedure before using this
Volume	Total Size	Bitmap	Status	Description
Single Disk: Drive 1	294.26 GB	-	Ready	No operation can be executed for this drive configuration.
				CONFIGURE SPARE DRIVE BITMAP RECOVER

Caution: When the hard drive synchronization is in process, do NOT turn off the CMS Server or plug in or unplug the hard disk drives

HDD Hot Swapping in RAID Configuration

The CMS Server supports HDD hot swapping. When a hard drive of a RAID configuration fails, the failed hard drive can be replaced by a new one immediately without shutting down the server, and the recording data can still be retained. However, if the hard drives are working properly and the recording is in process, do not swap the hard drives to avoid damages to the hard drives or the recording files.

Warning: It is strongly recommended to turn OFF the server before replacing the hard drives to reduce the risk of electric shock. The system should only be managed and maintained by authorized system administrators.

5.8.3 HDD SMART

Monitor the hard disk drives (HDD) health, temperature, and the usage status by HDD S.M.A.R.T. (Self-Monitoring Analysis and Reporting Technology).



The following information of each hard drive on the CMS Server is available.

Field	Description
Summary	Display the hard drive S.M.A.R.T. summary and the latest test result.
Hard disk information	Display the hard drive details, for example, model, serial number, HDD capacity.
SMART information	Display the hard drive S.M.A.R.T. information. Any items that the values are lower than the threshold are regarded as abnormal.
Test	Perform quick or complete hard drive S.M.A.R.T. test.
Settings	Configure temperature alarm. When the hard drive temperature is over the preset values, the NAS records the error logs. You can also set the quick and complete test schedule. The latest test result is shown on the Summary page.

5.8.4 Encrypted File System

You can manage the encrypted disk volumes on the CMS Server on this page. Each encrypted disk volume is locked by a particular key. The encrypted volume can be unlocked by the following methods:

Encryption Password: Enter the encryption password to unlock the disk volume. The default password is "admin". The password must be 8-16 characters long. Symbols (!
 @ # \$ % ^ & * ()_+ = ?) are supported.

• Encryption Key File: Upload the encryption file to the CMS Server to unlock the disk volume. The key can be downloaded from "Encryption Key Management" page after the disk volume has been unlocked successfully.

Please note that the data encryption functions may not be available in accordance to the legislative restrictions of some countries.

Click "ENCRYPTION KEY MANAGEMENT" on the "Action" column of an unlocked disk volume.

Disk Volume Encryption	n Managemer	nt		8
Vokama	Total Size	Statum	Action	
Mirroring Disk Volume: Drive 1.2	145.24 08	Unlocked	ENCRYPTION NEY MANAGEMENT	

You can perform the following actions:

- Change the encryption key: Input your old encryption password and input the new password. (Note that after the password is changed, any previously exported keys will not be working anymore. You have to download the new encryption key if necessary, see below).
- Save the encryption key: Save the encryption key on the CMS Server for automatic unlocking and mounting the encrypted disk volume when the CMS Server restarts.
- Download the encryption key file: Input the encryption password to download the encryption key file. Downloading the encryption key file will allow you to save the encryption key in a file. The file is also encrypted and can be used to unlock a volume, without knowing the real password (see "unlock a disk volume manually" below).
 Please save the encryption key file in a secure place!

Create a new encrypted disk volume with new hard drives

To create a new encrypted disk volume and install new hard drives on the CMS Server after its installation, follow the steps below:

- 1. Install the new hard drive(s) to the CMS Server.
- Log into the CMS Server as an administrator. Go to "Disk Management" > "Volume Management".
- 3. Select the disk volume you want to configure according to the number of new hard drives installed.



- 4. Select the hard drive(s) for creating the disk volume. In this example, we select to create a single drive. The procedure applies also to a RAID configuration.
- 5. Select "Yes" for the "Encryption" option and enter the encryption settings.
- 6. Then click "CREATE" to create the newly encrypted volume. Note that all the data on the selected drives will be DELETED! Please back up the data before creating the encrypted volume.
- 7. You have created an encrypted disk volume on the CMS Server.

Verify that disk volume is encrypted

To verify the disk volume is encrypted, log into the CMS Server as an administrator. Go to "Disk Management" > "Volume Management".

You will be able to see the encrypted disk volume, with a lock icon in the Status column. The lock will be open if the encrypted volume has been unlocked. A disk volume without the lock icon in the Status column is not encrypted.

5.9 System Status

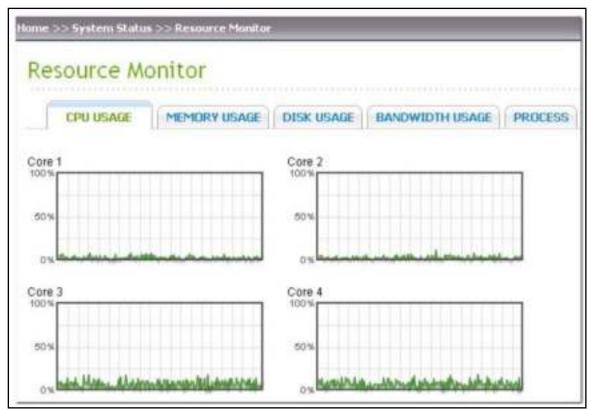
5.9.1 System Information

You can view the system information such as CPU usage and memory on this page

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Terrivers Version								
	Territoria 1.8.4 Bull 2013/701							
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Port Status								
	Pert Status	IP AAA musi	NAL AND THE	Packette	Perkets Sett	Liter Packet		
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Ethernot 2	1.10	18 11 10 108	OC 56 Ro 25 Ro 71		830578			

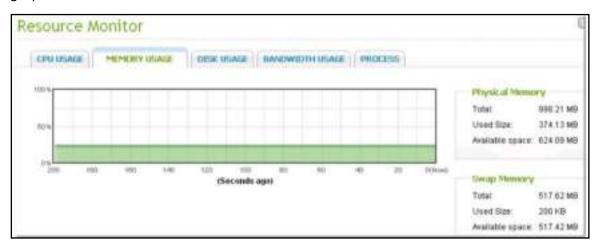
5.9.2 **Resource Monitor**

You can view the CPU usage, disk usage, and bandwidth transfer statistics of the CMS Server on this page.

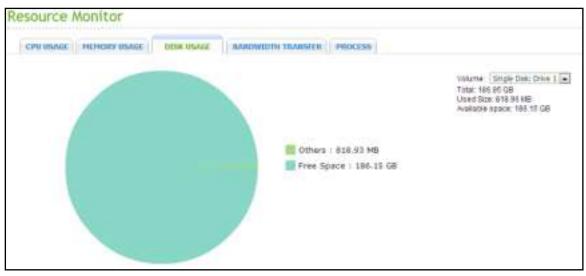


CPU Usage: This tab shows the CPU usage of the CMS Server.

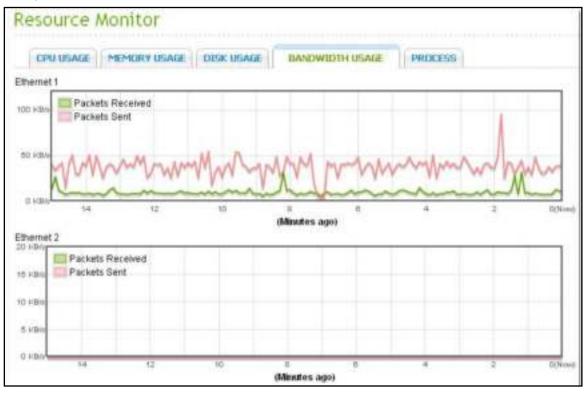
Memory Usage: This tab shows the memory usage of the CMS Server by real-time dynamic graph.



Disk Usage: This tab shows the disk space usage of each disk volume and its network shares.



Bandwidth Usage: This tab provides information about bandwidth transfer of each available LAN port of the CMS Server.



n prec n	21016	CPU Usage 2.9% 0.9% 0.9%	Memory 876 K 1996 K 868 K
n prec n	21016 4899 21021	2.9% 0.9% 0.9%	876 K 1996 K
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			2052 K
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		0	720 K 1120 K
	n n n n n n	n 2067 n 3706 n 3701 n 4259 n 4331 n 4437 n 4570	n 2067 0 n 3386 0 n 3701 0 n 4259 0 n 4331 0 n 4437 9 n 4579 0

Process: This tab shows information about the processes running on the CMS Server.

Chapter 6 Troubleshooting

1. After quick installation of the CMS-2000 (CMS Server) and having entered the correct user name and password, the system showed the warning message "Network Failure: the server is not found on the network. Please check the server status."

isemane :	10.11.10.115 •	Auto Find
account :		
	 Remember username and password Use enhanced security (SSL) 	1
	OK	Cancel
or		

Solution

Please check the following:

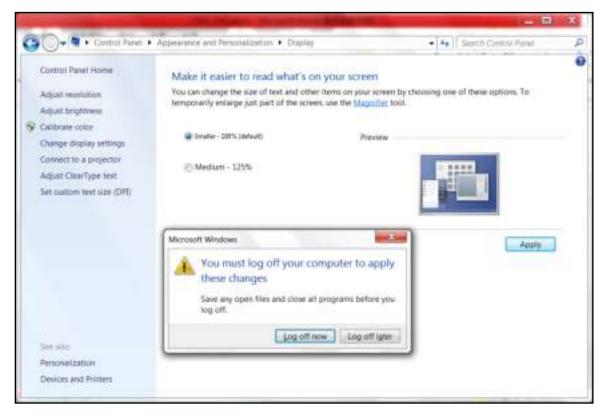
- a) The hard drives are empty and do not contain any data. You can clean all the data on the hard drives in Windows Disk Management, and install the CMS-2000 again.
- b) If a hard drive has been used in a NAS or an NVR, it may be determined abnormal and unavailable by CMS.

2. The CMS Client interface displays abnormally and does not show complete contents.



Solution

Please go to "Display" on Windows ("Control Panel" > "Appearance and Personalization" > "Display" > "Make it easier to read what's on your screen") and change the setting from "Medium - 125 %" to default.



3. The live view page did not display.

Solution

Please check the following:

- a) The NVR and the IP camera are turned on and correctly connected to the network.
- b) The IP addresses of the CMS Server and NVR do not conflict with other devices on the same subnet.
- c) Check if the CMS Server, NVR, and IP camera is connected to each other.
- d) Please use a user account with administrator privilege to install the CMS Client, if not, please run the CMS Client installer as administrator.



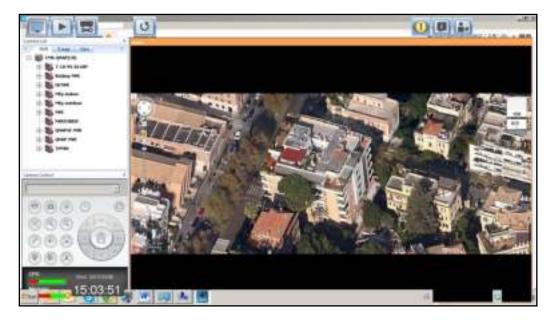
e) Update the latest driver of your Intel onboard graphics chip or graphic card, please download in Intel download center: <u>http://downloadcenter.intel.com/</u>

4. The live video is not clear or smooth sometimes.

Solution

The image quality may be restricted or interfered by the network traffic. Please use independent connections or avoid sharing the same connection with other network devices.

5. After login, the GUI (Graphic User Interface) looks abnormal in crushed shape (as the figure below). Is this a system compatibility problem? How do I solve this?



Solution

Please select the Aero Theme of the operating system (Control Panel > All Control Panel Items > Personalization), please note that CMS doesn't support Basic and High Contrast Themes of Windows OS.

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6. The E-map cannot be displayed correctly.

Solution

Please check the format of the uploading image files. Currently the CMS supports E-maps in JPEG, BMP, and PNG (not including translucent images) only.

 Unable to find the CMS Server by the "Auto Search" after logging into the CMS Client. Or, cannot find the NVR by the "Auto Search" at the "Add Server" of the CMS Client configuration.

Solution

- Check that the CMS Server and the NVR have been turned on.
- Connect the local PC and the CMS Server/NVR to the same subnet.
- Install the latest version of CMS Client from www.qnapsecurity.com.
- Run the CMS Client to search for the CMS Server. Make sure all the firewall software on the computer have been turned off; or add the CMS Client to the list of allowed programs in the firewall.
- Please check if the QNAP Finder program is closed.
- If the CMS Server and NVR are not found, click the "Auto Search" button to try again.
- If the problem persists, contact the technical support.

8. Unable to find the CMS Server or any NVR by the CMS Client, but able to find by QNAP Finder.

Solution

Please close the QNAP Finder and run the CMS Client. The search function of the QNAP Finder is mutually exclusive with that of the CMS Client.

ONAR	State of the local division of the local div		1 marsh	100
Name	IP Address	Version	Server Type	MAC Address
CNS-GLUP	10.11.10.198	1.0.0 (20130110)	CM5-2000	00-00 16-00-75-AC
CMS	10.11.10.115	1.0.0 (20130227)	CMS-2000	00-08-9B-06-01-5A
IND9-DVR	10.11.10.4	421	NAS	00-08-98-1F-99-D4
NASBEGENE	10.11.10.15	3.8.1 (20121205)	TS-259	00-08-98-8E-3E-6E
NASD301AE	10.11.10.78	3.7.3 (20120901)	TS-879U	00-08-98-03-01-AE
NASD3016C	10.11.10.72	3.7.3 (20120801)	TS-879U	00-08-9B-03-01-6C
NVR000080	10.11.10.14	4.0.3 (6305T)	VS-2104L	00-00-00-00-00-00
WD-WD1002FAEX	10.11.10.68	4.0.2 (6225)	VS-2112Pto+	00-08-98-04-35-F5
N/RD43645	10.11.10.01	4.0.0 (6019)	VS-2112Pto+	00-08-98-04-35-A5
SG-ST3000NC	10.11.10.66	4.0.1 (0128)	VS-2112Pto+	00-08-98-D4-37-43
QNAPN/R	10.11.10.197	4.0.2 (6226)	VS-4016Pro	00-08-98-A2-C3-11
HGST-HMS8C40	10.11.10.76	4,0.2 (6208)	VS-4116Pro+	88-88-88-88-87-88
9G-ST3000NC000	10.11.10.77	4.0.0 (6019)	VS-4116Pro+	00-08-98-D3-8F-21
5G-ST2000OM001	10.11.10.75	4.0.0 (6019)	VS-4116Pto+	00-08-98-03-BE-F1
9G-ST3000DM001	10.11.10.73	4.0.0 (6019)	VS-4116Pro+	00-08-98-D3-8E-C1
WD-WD1002FAEX	10.11.10.92	4.0.2 (6226)	VS-4116Pto+	00-08-98-03-8E-08
SG-ST1500DM003	10.11.10.83	4.0.0 (6010)	VS-4116Pro+	00-08-98-03-8F-31
fil-abass-d	10.11.10.78	4.0.0.01019)	VS-6120Pm+	00-08-98-03-86-43

lane MS-ONAP	2P Address	Version 1.0.0(Build 20130110)	Server Type CMS-3000	MAC Address 00-08-98-02-75-A0
36 gw 36		1.0.00b.46 20130227)		00-08-96-06-C1-54
63194	\$93596794.0 mil	00-00-00-00-00-00-00-00-00-00-00-00-00-	900000945	2015/00/07/2012

9. The changes to the system configuration did not take effect.

Solution

After changing the settings on the configuration page, click "Apply" to save the changes; otherwise the settings will not be saved and will not take effect.

10. The CMS Client does not show the alarm information.

Solution

You have to configure the alarm settings in the NVR, and check the event management page in the CMS Client. After that, you can find the alarms in the Live View user interface.

11. After power outage and improper server shutdown, the server does not function properly after the restart. What should I do?

Solution

Please try the following:

- a) If the system configuration were lost, configure the system again.
- b) If the problem persists, contact the technical support.

Technical Support

QNAP Security provides dedicated online support and customer service via instant

messenger. Please contact us by the following means:

Online Support: <u>http://www.qnapsecurity.com/onlinesupport.asp</u>

Forum: <u>http://forum.qnapsecurity.com</u>

Technical Support in the USA and Canada:

Email: <u>q_supportus@qnap.com</u>

TEL: 909-595-2819

Address: 168 University Parkway Pomona, CA 91768-4300

Service Hours: 08:00–17:00 (GMT- 08:00 Pacific Time, Monday to Friday)

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Version 3, 29 June 2007

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e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

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"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

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Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation

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