

CMS-200 System Administrator's Manual For V2.0.09 version

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About This Manual

Target Audience

This manual is intended for **System Administrators** who are responsible for installing and setting up CMS surveillance system. The reader is expected to know the fundamentals of IP surveillance system integration and to own the administrative privileges to achieve all the configuration tasks.

Content Overview

This manual provides information needed for planning the installation, installing, setting up the system and configuring the video streaming devices. Its main content consists of the following three sections:

- •Getting Started provides the preparatory knowledge you should study before starting installation, such as system requirements and license registration procedures.
- •Log in to the System explains how to log in to the system right after a successful installation.
- •System Setup gives instructions on administrative tasks such as centrally managing the NVR servers and the devices, setting up event rules, customize the live view layouts or managing system storage. For each major task, you will be given a brief introduction of operation principles, step-by-step instructions, and a simple tip to check if you have done it correctly.

Technical Support

If you have any questions during system installation, please feel free to contact our engineers via our **Customer Help Desk** platform <u>http://www.acti.com/CHD</u>.

Conventions Used in This Manual

The following are typographic conventions used in this manual:

- **Bold**: Bold typeface is used for a keyword, major functions of CMS, or a title of a section/column.
- Italic: Italic typeface is used for a filename or location path.
- <u>Underlined</u>: Underlined typeface is used for a document name or hyperlink.
- "**Bold**": Bold interface enclosed in double quotation marks indicates the name of a button, a menu or a choice item.

Some notices are placed within the following boxes; each type of the box indicates different purposes or levels of importance for system:

Important Notice

The content within this box is an **important notice**. This notice is important for you to get certain functions to work properly, or to prevent from certain potential problems that may damage your system. Make sure you read this notice and follow the instructions.

Note

The content within this box is a **note**. A note is some necessary information you need to know about the action you are currently taking, like what will happen after you follow or do not follow certain procedure.

Tip

The content within this box is a **tip**. A tip gives you an alternative method to easily or quickly achieve an objective, usually for specific conditions.



Legal Notice

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- The information contained herein is subject to change without notice.
- The English version of this document is the official one for all purpose. All the translated versions are provided as a convenience. Any discrepancies or differences created in the translations of any other languages are not legally binding.

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Regulatory Compliance Information

Federal Communications Commission Statement



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/TV technician for help.

WARNING: Changes or modifications to the equipment that are not expressly approved by the responsible party for compliance could void the user's authority to operate the equipment.

European Community Compliance Statement

This product has been tested and found to comply with the limits for Class B Information Technology Equipment according to European Standard EN 55022 and EN 55024. In a domestic environment, this product may cause radio interference in which cause the user be require to take adequate measures.



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Overview

CMS-200 (hereafter referred to as **CMS**) is a compact and reliable multi-channel standalone CMS. It contains a pre-installed Windows operating system, and ACTi CMS central video management software along with client software.

This unit is composed of:

Computer

A PC, with Microsoft ® Windows Embedded Standard 7 Professional operating system pre-installed.

• CMS 2 Server

Designed for large-scale multi-site video surveillance solution, **Central Management System** 2.0 software allows its user the full capabilities to monitor and manage multiple **Network Video Recorders (NVR)** via network. It also possesses full functionalities to manage not only NVRs but also devices (network cameras, video encoders, etc.), users and events.

•CMS 2 Client Application

The dedicated client application of CMS system – **CMS2 Workstation**, allowing the user to directly access CMS interface. A remote client can also access this system via network.





CMS Server / Client Architecture

CMS is a typical web-based server/client system. In a multi-site surveillance solution, **CMS Server** serves as a management command center; a **Client** makes requests of monitoring video streams or playing recordings sent to **CMS Server**, and **CMS Server** will pass this request to the involved **NVR Server** to send data/video stream to the **Client**. **CMS Server** starts automatically as soon as the **Server computer** (where it is installed) boots up, and operates in the background without requiring the login of administrator. It would provide services over the TCP/IP network to multiple **Clients** upon requests coming through HTTP protocol.

There are two types of **Clients** in CMS system: **Web Client** and **Workstation Client**. A user, connecting from whether web browser or workstation, will be provided with the same user interface and be CMS functions.

• Web Client: the web version of interface to access CMS Server without the need of installing any client program. Logging in to the CMS Server is as simple as visiting a website through the browser.

• Workstation Client: the client application making accessing CMS Server free from the use of browser .The workstation includes a set of programs that provide interface between users and the CMS Server.







Client PC System Requirements

The minimum **CPU Processor** spec will provide acceptable performance for systems that use mostly MPEG4 streams.

	Display	Live Layout Number of Channels		
Minimum	Mode	(*2)	1-16,00	1,601-unlimited
PC Spec	Remote	11-16	Intel Core 2 Quad 2.4 GHz	Intel Core i5 2.4 GHz
	Client PC 17-64 Intel Core i5 2.4 GHz Intel Core i7-920 2.67 GH			
RAM	4GB (*3)			
Operating System	Windows 7, Windows 8, Windows Server 2008(*4), Windows Server 2012			
Browser	Internet Explorer 10 and 11			
Network	Ethernet (1000 Base-T recommended)			
Display	Resolution: 1024 X 768 or higher			

For a system that has more than 1600 channels or more than 16 live view channels should satisfy **Recommended PC Spec** for good performance.

Recommended PC Spec O/S: Windows 7 (latest service packs), Browser: Internet Explorer 9 (Web client), CPU: Intel Core i7-920 2.67 GHz, RAM: 4GB, Display Resolution: 1080p Network Adapter: Ethernet 1000 Base-T

*1 These specifications are based on following camera settings: Single stream mode →1280x1024, 3Mbps, 18fps, MPEG-4 Dual stream mode →1280x1024, 3Mbps, 18fps, H.264 (recording); 640x480, Quality: 100, 18fps, MJPEG (live view).

- *2 Live view of multiple channels requires good hardware for smooth performance. If your live view performance is not satisfactory, please reduce the number of channels viewed at the same time, and use **Layout Patrol** to scan through all the channels or views instead.
- *3 Please use <u>64-bit system if your computer has more than 4GB RAM</u>. Microsoft Windows operating system has limits on memory and address space, regardless of the real or virtual memory available on a particular computer. Take Windows 7 Professional for example, the maximum physical memory for a 32-bit(X86) system can address is 3.5 GB even though 16 GB of RAM has been installed on this computer. Therefore, if you consider increasing the computer's multi-tasking capability by adding more RAM, you will need a 64-bit version of Windows to take advantage of it all.

Please visit the link below for more memory limitations on various Windows platforms.



http://msdn.microsoft.com/en-us/library/aa366778%28VS.85%29.aspx#physical_memory_li mits_windows_7

Besides the limitation mentioned above, you may find the usable memory displayed on O \rightarrow **Computer** \rightarrow **Properties** is still less than actual installed memory.

This is a common symptoms of all Windows platforms, please find explanations and solutions in this Windows official support document http://support.microsoft.com/kb/978610/en-us and http://windows.microsoft.com/kb/978610/en-us and http://windows.microsoft.com/kb/978610/en-us and http://windows.microsoft.com/kb/978610/en-us and http://windows7/taking-the-mystery-out-of-64-bit-windows

*4 Please make sure your operating system is fully patched with the latest service packs.



Getting Started

What's in the Box

This product package includes the following items:

- CMS-200 x 1
- Power Cord x 1
- Universal Converter x 1
- Warranty Card x 1
- Quick Installation Guide x 1





At a Glance

Front Panel



Rear Panel





Connect the Devices

The example below displays a network consisting of only CMS, network cameras and required peripherals. Please remember to enable the DHCP service on your router for CMS to obtain an IP address automatically.



- 1. Connect the VGA monitor using the VGA cable supplied by the monitor manufacturer.
- **2.** Connect the USB devices (e.g. the mouse, the keyboard or the joystick) and the audio devices (e.g. the microphone and the speaker) to the audio output and audio input.
- **3.** Attach the network cable to one of the LAN ports.
- 4. Plug the power cord into CMS and the electricity outlet.
- **5.** Connect CMS with another network segment (e.g. remote client connection, SMTP service) via the other LAN port (optional).



Start and Turn Off the Unit

- To start the unit, on the front panel, press down the Power Button panel, the Power Status LED Indicator will light up and turn solid yellow.
- To turn off the unit, press down Power Button, the unit will automatically shut down after 3~5 seconds.

Enter Windows

After the unit starts, key in "**123456**" to log in as Administrator to Windows Embedded 7 system.

Administra	tor
Windows Embed	ded

Configure the IP Address

After CMS starts, the network interface cards in it will be assigned IP addresses with the DHCP service in the network.

Find the IP Address of CMS

To check the current IP address assigned by DHCP service:

- 1. Click Windows Start menu 🚱 and select "Control Panel".
- 2. Enter "Network and Sharing Center", select the network card connection. Click your current Internet connection.



 A Connection Status window will pop up, click "Details...", you will find all the connection properties of this current network adapter in the details, including you IP address – IPv4

•

General General	Network Connection Details:
Connection	Property Value ^
Lonnection IPv4 Connectivity: No Internet access IPv6 Connectivity: No Internet access Media State: Enabled Duration: 06:13:46 Speed: 100.0 Mbps	Connection-specific DN acti.com Description Marvell Yukon 88E8072 PCI-E Gigabit Physical Address 18-A9-05-95-62-1A DHCP Enabled Yes IPv4 Address 172.16.26.52 IPv4 Subnet Mask 255.255.255.0 Lease Obtained 2013年11月21日上午 09:30:47 Lease Expires 2013年11月22日下午 03:07:22 IPv4 Default Gateway 172.16.26.253 IPv4 DHCP Server 172.16.5.19
Activity Sent Received Bytes: 97,466,166 262,739,061	IPv4 DNS Servers 172.16.5.19 172.16.5.20 IPv4 WINS Server 172.16.5.19 NetBIOS over Topip En Yes Link-local IPv6 Address fe80::d5f5:e127:5ca9:5e2e%15
Properties Disable Diagnose	IPv6 Default Gateway fe80::249c:2b4c:6312:8a41%15 +



Assign a Static IP Address to CMS

- 1. Click Windows Start menu <a>[6] and select "Control Panel".
- 2. Enter "Network and Sharing Center", select the network card connection.

Control Panel > All Control Panel Items > Network and Sharing Center + + Search Con >			
Control Panel Home Manage wireless networks Change adapter settings Change advanced sharing settings	View your basic network information and WEN-CHENG-HP (This computer) View your active networks Unidentified network Public network	ed set up connections	

3. On Connection Status window, click "Properties

📱 Local Area Connecti	on 2 Status	×
General		
Connection		
IPv4 Connectivity:		No network access
IPv6 Connectivity:		No network access
Media State:		Enabled
Duration:		01:19:26
Speed:		100.0 Mbps
Details		
Activity		
	Sent —	Received
Bytes:	4,919,787	21,737,943
Properties	🕑 Disable	Diagnose
		Close



4. Select "Internet Protocol Version 4 (TCP/IPv4)" and then click "Properties".

Local Area Connection 2 Properties			
Networking Sharing			
Connect using:			
Marvell Yukon 88E8072 PCI-E Gigabit Ethernet Controller			
Configure This connection uses the following items:			
Install Uninstall Properties			
Description Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.			
OK Cancel			

5. On **Propertries** window, select "Use the following IP address:" and enter the appropriate values for the static IP address. Click "OK" to save the settings.

Internet Protocol Version 4 (TCP/IPv4) Properties						
General	General					
You can get IP settings assigned autor this capability. Otherwise, you need to for the appropriate IP settings.	You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.					
Obtain an IP address automatical	ly					
Ouse the following IP address:		ЪШ				
IP address:	172 . 16 . 26 . 100					
Subnet mask:	255.255.255.0					
Default gateway:	172 . 16 . 26 . 5					
 Obtain DNS server address auton 	natically					
─	resses:	ъШ				
Preferred DNS server:	172 . 16 . 26 . 2					
Alternate DNS server:						
Validate settings upon exit						
OK Cancel						

6. To change the current port number from 80 to another.



Log In to the System

License and Activation

In CMS system, the maximum number of channels is **unlimited**; your required number of channels should be licensed and activated before adding the devices to the system. To get the license, you may contact ACTi sales representatives to purchase the licenses and obtain the **License Key**. Upon the activation of license with the **License Key**, the channels will automatically become available.

Please note:

- •The license is cumulative and perpetual.
- •This unit is with 100 channel licensed bundled.
- •The maximum number of channel license is 1600.
- •The license is not version-specific, software version upgrading will not influence the existing license you have activated on CMS server.

How Does License Activation Work

License activation is the process of unlocking the channels on CMS server with the received **License Key**. **License Key** is a serial number delivered as a printed card or by email after the purchase is carried out. During license activation, your **License Key** is matched against the MAC address of the Network Interface Card (NIC) on CMS server computer. Once this license key is used by the computer with given MAC, it cannot be activated with another MAC. This matching record will be stored on the activation database. If your computer has more than one network cards, CMS server will detect them and provide you a dropdown list to select from.

How to Activate the Licenses

There are two ways to activate the licenses depending on your CMS server network condition:

Online Activation

If your CMS server computer has available Internet access, you should take online activation.





Step 1: Membership ID in ACTi Member Center is required for activation. Register one for free at http://member.acti.com/

Your ID
(e.g. xon@xxx com)
Password
LOGIN Haven't Registered yet ? @ Register Today
C Forgot Password
C Didn't receive activation mail.
Member Registration.

Step 2: Log in CMS server, go to Setup page→System tab→License→"Online Registration". Select the MAC Address, enter your License Key, member Account and Password, and then click "Apply". CMS server will connect to the activation database via Internet to register the license key, and unlock the channels.

			4		i	
Home Users S	Source Event Language System				J	0
Settings	Online Registration Offline Registration MAC Address 00 : 24 : 81 : 1C : 2D : 22 License Key XSEER - TERTE		IRTYR - RTYFT			*
License Backup/Restore	Account WEN.CHENG@ACTI.COM Password					*
	Appiy	Number of Licenses	Total Number of License MAC Address	es: 64		
	CABAA-ABTAH-PRCPP-AUBQP-AHAAB-APAQR	64	00:24:81:1C:2D:22			
System						



Offline Activation

Offline activation does not require Internet access for CMS server. It is used when CMS is located in a network not connected to public Internet (e.g. in a restricted military base). You will need to get an activation file (**AUL.lic** file) from another computer and transfer it to CMS server computer.



2. Access <u>http://www.acti.com/support/LicenseMgt/CMS_registration.asp</u>, enter the License Key and the MAC address of CMS server computer, click "Submit". An email with activation code file (AUL.lic) will be sent to your registered e-mail account.

ACTI Global | Career |

		Career Contact Us When	e to Buy CorporateLanguage 💌
Connecting Vision		🛗 🕒 🚺 🔂 🖸	Hi, Wen Cheng [Switch Role] [Logout]
HOME VIDEO CLIPS PR	RODUCTS SUPPORT SOLUTION	TRAINING PARTNER PROJECT PLANNER	Search ACTi
Support	CMS Software Regis	tration	
Documents & Downloads 📀	License Kev	WEFFW-WFFGE-WEFDD-GGWDE-DFWEF	
Product Resource Matrix	Machine Key (MAC Address)	11 - 22 - 55 - 77 - 54 - 4W	Submit Clean
Technical Guide			
Troubleshooting Database	CMS License Registration		
Customer Services	CMS License Offline Registration is	s used when Server is located in network not connected	d to public internet (i.e. Military
Customer Helpdesk [Admin] [RD]	Base).		
License Registration	Offline Activation		
Project Registration			
Tools & Utilities	, I	Activation Flow	
Project Planner		Enter your License Key and the machine's	
Paliaiaa		First MAC Address (with the smaller MAC addres	s).
Technical Support Policy		Click "Submit" to generate activation code.)
Troubleshooting with ACTi		+	
Repair Service			
warranty Policy		An email with activation code file (.lic) will be sent to your registered email. Transfer	
		this license file to the Server PC.	
Project Registration		*	
		Go to CMS Service PC and log in via CMS Setup	
		Setup System \rightarrow Offline Registration \rightarrow	
Cuctomor Holpdock		click "Import Activation Key"	
		and select the license tile.	
SAU		Click apply to activate this incense.	
		+	
		Done!	
		Thank you for your purchase	
	If you have any questions, r	lease visit our ACTi online Customer helodesk at www	acti.com/CHD for assistance.
	,,		



3. Log in CMS server from local or via web client. Go to **Setup** \rightarrow **System** tab \rightarrow **License** \rightarrow **"Offline Registration"** \rightarrow click "**Import**" and upload the license file (**AUL.lic**). Click "**Apply**" to activate this license.

Online Registration	Offline Registration	
Activation Key (*.lic file)	8718DE0849903F1E43C2A990 E35F06122F7EB5A3AC3F83A6 6873F359FC09C9B636809F20 05F1B43275C7BB3A63101B35	ACC180CE6A2F7B1CCA5E A2284FD580BF63F6C894C 8C20EE30E28C94EAE5122 E7A2589A54C8B5E9E489
	Import Apply	

Verify Your License

Once your license is successfully activated, the license information will be shown on License

page.	
-------	--

				\$		
Home Users	Source Event	Language System				•
	Online Registration	Offline Registration				
🐡 Settings	MAC Address	00:24:81:1C:2D:22	-			••
🔈 Controller	License Key	XSEER - TERTE - G	ihtgh - tyjtt - F	IRTYR - RTYET		
	Account	WEN.CHENG@ACTI.COM				×
License	Password					
Backup/Restore		Apply		Activated Licens	6 4	
	Lice	nse Key	Number of Licenses	MAC Address		
	CABAA-ABTAH-PRCPP-AUBQ	P-AHAAB-APAQR	64	00:24:81:1C:2D:22		
System						
				<)) ======	ा भार ३	

Important

The license data will be erased once CMS server is uninstalled. Be sure to retain your license key information in a safe place because you may need to reinstall the software. After the software is uninstalled, you should contact **ACTi Customer Help Desk** <u>http://www.acti.com/CHD</u> to clear the original registration data in our database, and then you may activate the license again.

Tip

How to find MAC Address

- 1. Click Windows Start, in the run box on Start menu, input "cmd".
- 2. Execute the cmd program, and input the command "ipconfig /all" or "getmac"
- 3. The MAC address will be referred to as the **Physical Address**, made up of 12 characters e.g. **00-1E-65-FE-8E-98**



Access CMS Server via Internet Explorer



From Server Computer Using Local Client

Open Internet Expolrer. If your computer is where CMS server is installed, type <u>http://localhost/</u> or the computer's IP address in URL box.

From Remote Client Computer

A remote client refers to any client using a computer over WAN or LAN other than server computer. If you are connecting to a CMS server as a remote client, please type server computer's IP (e.g. local network ip: <u>http://172.16.26.217</u> within LAN; public IP <u>http://220.228.146.21</u> or domain name <u>http://cms.acti.com</u> over WAN) in URL box. If the port number is **80**, you can omit it when typing the address.

Accept ActiveX Controls Installation Requests

CMS interface requires the add-on ActiveX Control components, please make sure browser's security settings allow ActiveX controls to be downloaded and installed. When your browser asks if you allow ACTi Corporation's add-on components to run, please allow them.



Login



A. Enter Account & Password Account (non case-sensitive):

Admin (default) Password (case-sensitive): 123456 (default)

B. Change UI language

To change UI language, select the desired language from "Language" dropdown list.

C. Remember Account/Password

To have the server remember your Login **Account** and **Password** for future, check "**Remember Account/Password**". Clicking "**Don't Remember**" will clear your input text and reset to default.

To directly enter the main page every time you log in from this PC in the future Check "**Remember Account/Password**" then "**Auto Login**" to skip the Login page. If your computer may be accessed by someone without proper authority, please DO NOT use either of these functions.

To cancel auto-login, on title bar, click $\square \rightarrow$ "Logout" to return to login page, and this function is cancelled.

D. Retrieve the Forgotten Password

CMS Server can send the password of the User's account to the saved email address. To have Users be able to use this service, please make sure (1) the SMTP settings have been configured (refer to <u>How to Setup SMTP Settings</u> for Event Rules on page 50) and (2) a valid email address has previously been saved in **Setup** page \rightarrow **Users** tab \rightarrow User list.

Forgot Passw	ord
Email	
*Please enter t	he email address that you configured for the

:0



The email address input in **Forgot Password** window should match the one under your User account saved in CMS server.



Access CMS Server via Workstation

CMS Workstation includes a set of programs that provide interface between users and the CMS server. It may be installed on the same PC as the CMS server, or on a separate client computer.



Double-click the shortcut icon on your desktop to execute this workstation application.

Login

Fill in the following fields then click "**Login**" to log in to the system. The login process of Workstation is very much the same as that of Web browser:

CMS Workstation				
Server Name	New Server Site	G		
Server IP	172.16.26.91			
Server Port	1018			
Account	admin	B		
Password	•••••			
Initial Page	Live			
Language	English 🔽 🗸			
Remember A Auto Login Don't Remember Forgot Password Save	ccount/Password	E		

A. Server IP & Server Port

In **Server IP** field, key in **localhost** or **127.0.0.1** if CMS Workstation is on the same computer with CMS server. If you are connecting from a non-server computer, please input the IP address of server computer, for example: **220.228.146.22**.

In **Server Port** field, key in the port number (default is 80).

B. Enter Account & Password
Account (non case-sensitive)
Admin (default)
Password (case-sensitive)
123456 (default)

C. Choose the Initial Screen



CMS user interface consists of three main module screens: Live View, Playback and Setup, you may choose one where you would like to enter after logging in. Default is Live View screen.

D. Language

Choose a UI language from drop-down list.

E. Remember Login Information

To have **CMS2 Workstation** remember the **Account**, **Password**, your choices of **Initial Page** and UI **Language**, simply check "**Remember login info**". Click "**Don't Remember**" will clear your input text and reset to default.

To directly enter the desired page every time you log in from this PC , check "Remember login info" then "Auto Login" to skip the Login page. If your computer may be accessed by someone else, you might consider not to use either of these functions.

To cancel auto-login, on title bar, click $\square \rightarrow \text{``Logout''}$ to return to login page, and this function is cancelled.

F. Retrieve the Forgotten Password

Please refer to <u>D. Retrieve the Forgotten Password</u> on page 25.

G. Server Name/Server Sites List

CMS2 Workstation can remember multiple server sites and their login settings and show the site lists on **Login** window. To add a new site:

CMS Workstation					
	Company Name a				
	Server Name	CMSTP			
	Server IP	172.16.26.91			
	Server Port	1018			
	Account	admin			
	Password	•••••			
	Initial Page	Live	•		
	Language	English	• •		
	Remember Account/Password				
Don't Remember					
Forgot Password?					
	Save	Login			

1. Click in the **Server Name** box and input the server site name.

2. Fill in the other fields. If you disable the "Remember Account/Password", then only the Server Name, Server IP and Server Port of this server site will be remembered.

3. Click "Save"

After a server site is saved, it will be shown on Server Name dropdown list.
You may click on its name to enter its
Login window or to delete it from the list.

Server Name	New Server Site			
Server IP	INR			
Screen	Invine Site			
Server Port	Mobile Client 🗙			
Account	Neihu Site			
Password	Taipei Site			
Initial Page	New Server Site			







You can export the saved server sites, or import it to another Workstation client computer.
 Access CMS server via CMS2 Workstation, go to Setup page → System tab →
 Workstation.

A. Export current server sites list

Click "**Browse**" to select a folder to save the list, and then click "**Export**". This file will be saved as an *.xml file.

B. Import a server site list

Click "**Browse**" to select the *.xml file, and then click "**Import**". The server sites will appear in **Server Name** dropdown list on **Login** window of your next login.

		🏟 🗋 🕖	
Home Users	Source TV Wall Event Language System		
	Reset Apply		\exists
🏟 Settings	Display Performance Setting		••
凝 Controller	🗹 Enable		
🕈 License	Lower display frame rate when current layout is above 36		*
Backup/Restore	Lower display frame rate when CPU usage is above 80 %		
Workstation	Server Site		
	Export C:\Users\Wen.Cheng\Desktop\ServerSite_201310; Browse		
	Export		
	Import Browse		
i dia	*Export/import server site login lists.		
<u> </u>			
System			
		<u>北</u> 3	



Set up the System

This chapter will guide you through everything you need to know in **System Setup** procedure from first time connection with CMS server to general system configuration.

CMS Main Screen

On the right are link buttons to three CMS major functions: (1) **Live View**, (2) **Playback** and (3) **Setup**. You can click the orange button to enter the function page.



In this module, you can see live view from NVRs, perform PTZ operations with a mouse or a joystick, view system log, receive alerts on the event panel, set view layouts, perform manual recording or take a snapshot.

Playback



You may search and play existing recordings in multiple channels synchronously. Snapshots or video segments can be taken from playback files. Recorded files can also be exported to AVI format here.

Setup



This module includes user setup, NVR source/device setup, TV Wall setup, event setup and CMS system-wide settings.

Manage Users

The User Groups/Users page allows you to (1) manage the access permissions of different user groups, (2) add users to or delete them from user groups, (3) assign users to specific user group. This chapter will take you through these settings.

Access Permissions

In CMS, the access permissions are managed by **User Groups**. **User Groups** defines which CMS operations and NVRs are allowed for the group users. Different **User Groups** will have different access rights. For example, an Administrator User is allowed for the complete operations in CMS system, while a standard User may only be permitted to see **Live View** and do **Playback** with limited NVRs. The chart below displays an example consisting of different employees as CMS Users and their access rights in this system:



Overview

Go to **Setup** page \rightarrow **Users** tab. There are two sections to manage User Groups and Users individually.

User Groups: To setup user groups and its permissions for device and functionalities. **Users**: To manage user accounts and configure user information.

CMS has integrated **Microsoft Active Directory**® service to provide network administrators a more convenient choice for user management. Active Directory is a directory service built in Microsoft Server products to manage user identities and privileges within the domain network. As CMS runs on a server computer logged on to the same domain with an Active Directory



server, you can import a user account or a group from those concurrently existing in Active Directory into CMS server. In this way, the user identification is processed by Active Directory centrally, and there is no need for CMS administrator to maintain these user accounts.

User Groups

You can specify access permissions to each NVR for an entire user group. This user grouping can save you significant amount of works if you have multiple users performing similar tasks and acting as similar roles.

There are already two default User groups

- Administrator: With full permissions in CMS interface.
- User: With the permissions to watch all camera live view and playback(Default).

The **Administrator** User is predefined with full permissions in the CMS server, and cannot be deleted. You can choose to create a new user group on CMS server or import an existing group from the Active Directory database within your domain.

1. Select User Groups , click "Add" and then choose the group type:

•Add a new user group:

Insert **ID**, group **Name** and group **Description**, your input in the **Name** field will be the name of this User group. Click "**Apply**" to finish.

					¢ 1 0	Ð
Home Users Source	e TV Wall	Event Langu	age System			•
	Add Delete	Reset	pply			
්සු User Groups	Type Add Ne	ew Group		Description 🔺		>>
users Users) Add a new use	r group.			*
		ID	Limited			
Use	r Group :	Name	Limited viewer			
	CMS Perr	Description	Only Live View			
	Assign					
) Import a doma	in group as a user group.			
A STATE						
Users						
		Cancel	Apply			

 Import a domain group as a User group: Choose an existing user group from your domain, and click "Apply" to finish.



Add	New Group		
	O Add a new us	ser group.	
	ID Name Description	Select Group	
	Domain Group Blank is not allow Cance	el Apply	

The domain users within that group will all be added to CMS server at the same time. To view the whole users within this group, please select users and enable the "Show users in domain groups." The account information of these domain users, unlike those user accounts you add one by one to CMS server, are not editable on Users page.

🗹 Shov	w users in domain groups.					Clear All 🛛 Select All
	User Type 🔺	User Account -	User Name 🔺	Password	Email 🔺	Group Name -
	Customized User	admin	Admin			Administrator
	Domain User	Deckard Cain	Deckard Cain		Deckard.Cai@acti.com	\$Security Office
	Domain User	John.Bourne	John.Bourne		John.Bourne@acti.com	\$Security Office
	Domain User	Steve.Lin	Steve.Lin		Steve.Lin@acti.com	\$Security Office
	Domain User	Joyce.Holiday	Joyce.Holiday		Joyce Holiday@acti.com	General Service

Domain users added as a whole group

2. Assign CMS Permissions for created group. This will define what functions this User group is allowed to access. By default, a User group will initially be allowed to access only Live View page and Playback page on CMS, but without any permission to CMS or NVR settings, so you may have to assign the Source Permissions later.

User Group : User									
CMS Permissions Source Permissions TV Wall Permissions									
Assign Live Plavback Source Setup TV Wall Setup Event Setup System Setup	Public View Setup Default View Setup Live View page Playback page CMS Setup page	✓ Private View Setup Map Image Setup							

 Assign Source Permissions for created groups. This will define which NVRs this User group is allowed to access. If this User group is allowed to access later-added NVRs, check "New Source Default" and edit the permissions.



CMS Permissions	Source Permissions	TV Wall Permissions	
Device Unified Sett	ings	Сору	^
Assign	efaul Ne Exi		
	✓ ✓ Dev	System Setup Add New Device vice Permissions	

You may individually check the NVRs this user group is allowed to access, and set the permissions to configure NVR settings.

CMS Permissions Source Permission	ons TV Wall Permissions
Device Unified Settings	Сору
Assign New Source Default INR New Device Default 2 ACTi 3 ACTi FMD	 Basic Setup Users Setup Storage Setup System Setup Add New Device

You may also enable the permissions related to a specific camera under the NVR.

CMS Permissions	Source Permissi	ons	TV Wall Perm	nissions	
Device Unified Sett	ings		Сору		
Assign New Source D INR New Device 2 ACTi	efault • Default		Live Playback Setup	Operate PTZ Send Audio Out Activate Digital Output Record Manually Export Video	

Instead of tailoring the settings for each device, you may click "**Device Unified Settings**" and set universal settings, which will be applied to any device you check under this NVR.



You may copy the **Source Permissions Settings** to other sources. Click "**Copy**" under **Source Permissions** tab to bring up the target NVR menu, check the target sources, and click "**Apply**".



Home Users	Source TV W	all Event L Delete Reset	anguage System Apply		• • •
	Type 👻	ID ^	Name 🗠	Description ~	
🚢 Users	Local	Administrator	Administrator	Administrator	
			User Copy Source	Permission - MobileGo	🗋 Clear All 🛛 Select All
	User Group : User CMS Permission Device Unifie Assign • New Soi • VINR	IS Source Permissions d Settings urce Default	TV Wall P Copy Basic Uup Surre	Default 🗌 ADR Branct	ı
Users -?	New 2 AC	Device Default	System Setup Add New Dev	Cancel Apply	

Click "Apply" on the top to save the settings.

Add Users

To create a user account with on CMS server.

- 1. Select ^{Lusers}, and click Add button.
- 2. Select User Type as Customized User or Domain User.

•Customized User: an account created and managed on CMS server only. You will input an account name, its password and e-mail address for this User.

•Domain User: an account that already exists in Active Directory database within the domain. Since this is an existing account in your domain, you will have to select this account from Account dropdown list.

- 3. Insert user account, name, password, and the account e-mail (For **Customized User**).
- 4. Assign this created user account to a specific user group.
- 5. After you click "Apply", this new user will be added to the list on the top.

Add Delete Apply Add New User Add New User Users Custom/et User Type Custom/et User Type Customized User Account Ziop Lee Name Password Email User Groups User Groups Administrator	Home Users	Source TV Wall	Event	Language	System			•
Vser Groups Add New User Lusers Juser S Custom ce User Type Custom ce User Type Account Ziop Lee Name Password Email User Groups Administrator			Parat	Apply	•			
Users User Type Customized User Account Ziop Lee Name Password Email User Groups Administrator	User Groups	St users in d	New User	Apply			🗆 Clear All 🕅 Select All	*
Name Password Email User Groups	users 🖌	Custom	User Type	Customiz Zion Lee	ed User 🗸 🗸	Email 🔺	Group Name A	*
Email User Groups Administrator			Name					
			Email	Administ	rator			
Users Cancel Apply	Users		User Groups		Apply			



Note

CMS server provides a procedure to help Users who have forgotten the password retrieve the original information, which relies solely on the "e-mail address" authentication. It is strongly recommended that you input an e-mail address that this User has access to when you establish the User account. To update the e-mail address of an account, go to **Setup** page \rightarrow **Users** tab \rightarrow edit "**Email**" of an selected User account; the Users can also update the e-mail addresses themselves after logging in to CMS on Live View page \rightarrow **Update Profile**

Note

Account /Password Rules

- 1. Account and Password fields allow alphabets, numbers, and symbols except the following: /\[]:; | = , + * ? <> "
- 2. In Account field, for alphabets, the input will be recognized as lowercase letters. Space is only allowed between characters; the space in the beginning or at the end will be deleted when it is saved.
- 3. The Password field is case-sensitive, and the space is allowed.

Note

Admin is the default user account and belongs to "Administrator" user group. Hence, the user Admin and its group Administrator cannot be deleted; it possesses full permissions to all NVRs, devices, and CMS settings.



Domain Users Management

As CMS server computer is logged on to a domain Active Directory, it can import a user account from Active Directory.



This type of User account is "**Domain User**". Upon being added to CMS server, the User properties stored on Active Directory database including account name and e-mail address will be imported to CMS server.

•	Add	Delete	Reset App	ly			🗌 Clear All 🛛 🔽 Select All
User Groups	Select	User Type 🔺	User Account 🔺	User Name 🔺	Password	Email 🔺	Group Name 🔺
. Users		Customized User	admin	Admin			Administrator
a ostis		Domain User	wen.chena	Wen Chena		Wen Chena@ACTi com	User

Whenever the Domain User client tries to log in to CMS server, CMS server will first verify if this account exists in CMS server database, if not, it will then have Active Directory verify the user account and password.

As Active Directory owns the privilege to create, edit and delete domain users, <u>the Domain</u> <u>User's account and password are not editable through CMS user interface but via</u> <u>Active Directory Administrative tool</u>.
Manage NVRs

A CMS server manages multiple NVR severs, whose fundamental building blocks are the cameras or video encoders. The first thing you should do after you have registered the license is to setup your NVR connections in CMS **Setup** page. In this section, we will guide you through how to manage the NVRs and their devices.

Add an NVR

To start adding a new NVR, please follow steps as below:

 On Setup page → click "Source". There is no source in All Sources list. Now click "Add Source".



- On the Add Source window, fill in the following fields and click "Apply":
 - •Name title of this NVR
 - •Host the NVR's IP address
 - •Port the NVR's port number

•Password - the Administrator's password of this NVR. By default, all the devices in the NVR will be automatically added to CMS server after you click "Apply". If you want to select only the desired devices rather than import all the devices at this stage, de-select "Auto Import All Devices in Source" before clicking "Apply".

Add Source	
Name	INR
Host	172.16.26.67
Port	80
Account	admin
Password	•••••
🖌 Receive Ever	nt Message
🖌 Auto Import	All Devices in Source
Next	Cancel Apply



Import Devices from NVRs

In most cases, with limited licenses, you do not import all devices of all NVRs to your CMS server. After an NVR is added, you may start selecting your desired devices to be imported to CMS server. Once a device is imported, on CMS interface you can (1) modify this device directly, (2) see its live stream ,(3) receive the instant event notifications from this device and (4) watch the recorded video of this device.

1. On All Sources list, select this NVR, the Using Devices list on the right will display the imported devices. By default, all the devices of an NVR were already imported as you added it to CMS server.

							1 (k)	Ì
Home Users So	ource TV Wall	Event La	nguage Syste	em				•
Add Source Add Device Source Setup List	Delete Settings	Apply						••
	Source Type Name Host Port	NVR3 INR 172.16.26.67						*
	Account Password Receive Event N	admin •••••						
	Import Devices	Sync Devices	▲ HTTP Port ▲	Brand 🔺	Model 🗠	Channel		
Source	Асті Асті 4 Асті	172.16.26.5 mpoir feet 172.16.26.6		ACTI ACTI ACTI	TCM6630 ACM1231 E53	1 1 1		

 If you have unchecked the box "Auto Import All Devices in Source" when adding this NVR source, you have to select the devices to be added by yourself. Click "Import Devices" to enter NVR device list.

			🌣 🗎						
Home Users S	iource TV Wall	Event Language System			•				
Add Source Add Device Source Setup List	Delete Settings	Apply			*				
▲ ► All Sources (4) → 〒 1 ENR1 → 〒 2 ENR2	Source Type Name Host Port	NVR3 INR 172.16.26.167			*				
▶	Account Password	admin ••••••							
	Using Devices								
	ID ~ Na Impo	ne All IP Address All TTP Port All Brand All Model All Channel							

3. On the Import Devices list will show all devices of this NVR. Select the desired devices you



want to import and click "Apply".

Import	Import Devices										
Availabl	e License ii	n CMS: 14/16					Clear All 🔽 Selec	t All			
	ID 🛎	Name 🗠	IP Address 🗠	HTTP Port 🗠	Brand 🗠	Model 🗠	Channel				
\checkmark	2	ACTi	172.16.26.5	1005	ACTi	TCM6630	1	^			
	3	ACTi	172.16.26.117	80	ACTi	ACM1231	1				
		ACTi	172.16.26.6	1006	ACTi						
	5	ACTi	172.16.26.1	1001	ACTi	E96	1				
	6	ACTI Seec		es:2	ACENC	4 M7411	1				
	7	E96	172.16.26.1	1001	ACTi	E96	1				
	8	ACTi	172.16.26.159	80	ACTi	KCM5311	1				
	9	ACTi	172.16.26.79	80	ACTi	KCM8111	1				
	10	ACTi	172.16.26.124	80	ACTi	KCM7911	1				
	11	ACTi	172.16.26.85	80	ACTi	E96	1				
	12	ACTi	172.16.26.5	1005	ACTI	TCM6630	1				
	13	ACTi	172.16.26.7	80	ACTi	E61	1				
	14	ACTi	172.16.26.2	1002	ACTi	D42	1				
	15	ACTi	172.16.26.4	1004	ACTi	TCM4511	1	-			
			Cancel	Apply							

 The Using Devices list will be updated in accordance with your selection on Import Devices list.

Home Users So	ource TV Wall	Event Language System	•
Add Source Add Device	Delete	Apply	
Source Setup List	Settings		▶
Q×	Source Type	NVR3	
All Sources (1)	Name	INR	
	Host	172.16.26.67	× 1
	Port	80	
	Account	admin	
	Password	****	
	🗹 Receive Event	Message	
	Using Devices		
	Import Devices	Sync Devices	
Source Pro O	ID A Na 2 ACTi 4 ACTi	me A IP Address A HTTP Port A Brand A Model A Channel 173565 Ort 2006 Devices ICME20 and 4 17216.6.6	

Synchronize Device Settings

The configurations done on NVR site will not be synchronized with CMS server actively. For example, an NVR administrator may replace several cameras (which have also been imported to CMS server) with new ones, and therefore the CMS site would lose the connections between those replaced cameras. On CMS site, you can synchronize with an NVR server via one click:

- **1.** Go to **Setup** page \rightarrow **Sources** tab, on **All Sources** list, select this NVR.
- 2. On the right, click "Sync Devices" button.
- 3. Click "Apply".

Tip

Whenever your CMS server loses connections with certain devices, it is always suggested that you click this button **Sync Devices** first, since the loss of connection probably resulted from some changes done on the NVR site.



	Tip
You may turn off the state	us display of an NVR server and its devices shown in the Source
Setup List. On Source to	ab, select the NVR server under All Sources list, and de-select
"Receive Event Messag	e ["] Receive Event Message

Manage Multiple NVRs

You may centrally manage multiple NVRs on the All Sources Setup List easily.

Go to **Setup** page \rightarrow **Sources** tab. Under $\boxed{2 \text{ Index}}$ lists all the NVRs you added.

Search an NVR

To locate a specific NVR in the **All Sources** tree, you may input the keyword in its name in the search bar, click to start searching, and click **x** to show all sources.

Home Users Sc Add Source Source Setup List	me Users Source IV Wall Event Language System dd Source Delete Reset Apply ce Setup List Source List								
All Sources (2)	Sync A	ync All Devices							
	Available	e License	in CMS: 3/16	6 T			L	Clear All Select All	*
▶ II ZENK			Name -	Source Type ~	HOST ~	Port A	Account	Password	
		2	ENR	ENR	172.16.26.90	80	admin	•••••	
Source									

Delete NVRs

Highilight All Sources, a list of connected NVRs will appear on the right. Select the NVRs you want to delete, and click "**Delete**" then "**Apply**".

Synchroinze with All Devices

Highilight All Sources and click "Sync All Devices", CMS server will synchronize with all the NVRs and imported devices.

Home Users So	ource	TV V	Wall Event	Language	System				•
Add Source Source Setup List	Dela Source I	ete	Reset Ap	ply					
All Sources (2)	Sync A Available	II Device License	in CM5: 3/16				C	Clear All 🛛 Select All	*
▶ i ⊇ 2 ENR		ID 🔺	Name 🗠	Source Type 🗠	Host 🗠	Port 🗠	Account	Password	
			INR	NVR3	172.16.26.67	80	admin	•••••	
		2	ENR	ENR	172.16.26.90	80	admin	•••••	



Configure NVR / Devices Settings

As CMS administrator owns unrestricted rights to control all the NVRs and their devices, it is sometimes more convenient to modify the NVR settings directly from CMS interface. On CMS **Source** management page, you may change any property of an NVR or its devices.

NVR Settings

To enter an individual NVR's settings, Go to **Setup** page \rightarrow **Sources** tab, on **All Sources** list, select an NVR, and click on the arrow **Setup** to expand its sub category. By selecting a title, the setup page will appear on the right. Any change applied to the NVR will be saved to both NVR itself and CMS server.



Device Settings

To configure the settings of a device, select the device from **Source Setup List**, and modify the available settings on the right.





Note

Please note the following before applying any change to an NVR server:

- **1.** It is strongly recommended that you make a backup of the original NVR settings.
- Only the devices in the same network segment with the selected NVR can be found or manually added by clicking "Add Device".
- 3. To modify a device's schedule or event rules, please select the device and enter the **Schedule** or **Event** tab on the right.
- 4. The customized views saved on an NVR server cannot be configured via CMS interface.
- 5. ENR system settings and storage settings are accessible only via ENR interface.



Status Icon Description

On Live View screen or Setup page \rightarrow Source tab, the icons shown under All Sources category will display the status of each NVR server as well as the devices.



Example Icon	Status Description
$\overline{\mathbf{n}}$	Video loss: CMS cannot retrieve the video stream.
<u>*</u> -	Modification has not been saved: This device's settings have been modified but not saved yet. If you leave these modifications unsaved, they will not take effect.
	Connection loss: CMS cannot build up connection with this NVR or device. Please check the connection settings (including IP Address, Port number, Account Name and Password); or increase the "Connection Timeout" to allow more time for the device or NVR to respond.
F	Disk Full: The storage space of this NVR server is full, and no recording is taking place. You will need to go to Setup \rightarrow Source tab and configure the Storage settings in Source Setup List.
	Recording: This device is currently connected, and video is being recorded either manually or according to the schedule. The orange "SD" sign indicates that this device supports local storage.
Ь	Connected: This device is currently connected, and the video stream is viewable on Live screen.
1	You have blocked the system event messages sent from this server, which means the current status of this server is invisible now.



Event Management

Under CMS's management, an event detected by a single device can be notified not only to the NVR clients but to CMS clients at the same time. For example, once a camera detects a motion, both an NVR client and a CMS client can receive the alerts via emails. To do so, you have to set even rules in **CMS Setup** page \rightarrow **Event** tab. The event rules set here will be independent from those set on NVR.





How to Edit an Event Rule

Go to Setup page \rightarrow Event tab. All the editable event rules are listed on the right.

Home Users Sc	ource	TV Wall	Event Language	s System		•
Source Setup List	Dele					
All Sources (2)	Filter :	All	All Events		🗋 Clear All 🛛 🗹 Select All	
I INR → 2 CNP		Source 🗠	Event 🗠	Event Name 🗠	Response	
) X ZENK		1 INR	Source Loss	Source Loss	A	*
		1 INR	Source Recovery	Source Recovery		
		1 INR	Schedule Service Start	Schedule Service Start		
		1 INR	Schedule Service Stop	Schedule Service Stop		
		1 INR	Disk Full	Disk Full		
		1 INR	Disk Is Available	Disk Is Available		
		1 INR	Disk Not Found	Disk Not Found		
		2 ENR	Source Loss	Source Loss		
		2 ENR	Source Recovery	Source Recovery		
		2 ENR	Schedule Service Start	Schedule Service Start		
		2 ENR	Schedule Service Stop	Schedule Service Stop		
		2 ENR	Disk Full	Disk Full		
E LOOP A		2 ENR	Disk Is Available	Disk Is Available		
Even		2 ENR	Disk Not Found	Dick Not Found	×	
						200

NVR Status Event Rule

An event rule set for an NVR will trigger actions to notify CMS client.

 Select an NVR source to edit an NVR event rule. There are seven types of NVR status that can be set as event triggers – Source Loss, Source Recovery, Schedule Service Start, Schedule Service Stop, Disk Full, Disk is Available and Disk Not Found.

e s etup Lis	st Q ×	Cop	by Delete				
All Source	es (3) R Branch	Filter :		All Events Event	Fivent Name	Ro	
2 Mob	oileGO N Office		2 MobileGO	Source Loss	Source Loss		sponse
			2 MobileGO	Source Recovery	Source Recovery		
	Event Edit : M	obileG	O Event Name :	Source Loss			
	Action					Mall	
	Audio Alert					Send Mail	N
	Веер					Send Mail	
	Execute Comm	and					1
	Enable						
	Endore						
Eve							

- **2.** Highlight the rule you wish to edit. Double-click the "**Response**" field to edit the response action.
- **3.** On **Event Edit** window, you can enable multiple response actions by first checking the box(es) to enable the items:



Action Items	Function Description
	Set to play beep sound for a number of repetitions.
 Audio Alert Beep Duration(secs) 5 Times (1 - 10) 1 Audio Alert Beep Duration(secs) 5 Times (1 - 30) 1 Audio File Path CAtokyo hot .mp3 Browsee Times (1 - 30) 1 	On CMS2 Workstation client computer, you can upload a WAV file or an MP3 file as the alert sound, and set how many times this audio file is play when event occurs.
	Beep and Audio file responses cannot be executed at the same time.
Execute Command Command C:\Program Files\Skype\Phone\Skype.exe	Enables CMS server to execute a specific command upon this event. You can use it to integrate CMS event with other programs. Enter the path of the command to be executed upon event.
Mail Mail Send Mail To jeremy.lin@acti.com;jeremy Subject Storeroom motion detected Content Please see attached photo	 Enables CMS server to send an email notification via SMTP server. The default SMTP and sender's e-mail settings can be set in advance in Setup page →System tab→Settings → Email& SMTP Settings. 1. Type one or more recipients' email addresses in "To" column (if more than one, please separate them by ";" symbol) or click the I icon to select recipients from existing NVR User list. The User's Email address should be set in advance (in Setup page→Users tab→Users) so that it can be selected in this list. 2. Edit the e-mail subject and content.



Device Status Event Rule

An event rule set for a specific device will trigger actions to notify CMS client.

- Select an NVR, click the arrow reprint to expand its sub-categories, and select the device. There are five types of device status that can be set as event triggers – Motion, DI Trigger, Video Loss, Video Recovery, Network Loss and Network Recovery.
- 2. Highlight the rule you wish to edit. Double-click the "**Response**" field to edit the response action.

iource Setup List		y Delete								
Q 🗙 📔 All Sources (3)	Filter :	All		All Events					Clear All	Select All
III ADR Branch III 2 MobileGO		Devices 🗠	Ev	ent 🗠	Ev	ent Name 🔺		Response		
All Devices (6)		1 11F_Entrance	MD 1		MD 1					👆 💉 🖻
1 11F_Entrance		1 11F Entrance	MD 2		MD 2					
Bee 🐨 2 11F_Lab Bee 🐨 3 7F_Office Area A		Event Edit :	Mobile	GO 2 11F	Lab	Event Name	MD 1			1)
S 7F Office Area B		Focus Cha	nnel						5	
🔤 📅 6 7F_Office Area Al		Pop-u	up						5	
▶ I WEN Office		Hot-s	pot						5	′ <u> </u>
		11 Switc	h View							
•		1 • Audio Ale	rt							
		Beep								
Event		 Send to W 	all							
		Enab	le							

3. On **Event Edit** window, you can enable multiple response actions by first checking the box(es) to enable the items:

		Actio	on Iter	ns		Function Description
• Focus Channel Pop-up Hot-spot Switch View	Source Source Group	Actio	Device Device View	9 FRONT DOOR 5 FAE1 11F 3933	Duration(secs) 5 Duration(secs) 3 Duration(secs) 3	Function Description This kind of action will focus your attention on the channel on client's Live View page when triggered. Pop-up: Brings up event pop-up playback window of selected channel upon trigger. You may also define the display duration of video on the window. Hot-spot: Displays video in Hot-spot window (red flashing frame) upon event. You may also define display duration of video on the Hot-spot window You may also define duration of the temporary View Only Public Views are
						Hot-spot window You may also define temporary View. Only selectable for Switch V



Focus Channel Source 2 ENR Device 9 FRONT DOOR Duration(secs) 5 Hot-spot Source 1 HIR Device 2 ACT Duration(secs) 5 Switch View Group 11F View 11F 3sx3 Duration(secs) 3	Switch View: The current Live View will be switched to another one for a while. To enable this option, you will need to customize and save Views on Live View screen first.
	Hot-spot and Switch View responses cannot be executed at the same time.
	Makes CMS client computer play beep sound for a number of repetitions.
 Audio Alert Beep Duration(secs) 5 Times (1 - 10) 1 Audio Alert Beep Duration(secs) 5 Times (1 - 30) 1 Audio File Path C:\tokyo hot .mp3 Browse Times (1 - 30) 1 	On CMS Workstation client computer, you can upload a WAV file or an MP3 file as the alert sound, and set how many times this audio file is played when the event occurs. (This CMS server has to be already on Server Site list , see G. Server Name/Server Sites List on page 27)
	Beep and Audio file responses cannot be executed at the same time.
	Pushes any of the following to a designated TV Wall monitor: a specific live view of a device, a customized CMS View, all devices of an NVR, or a TV Wall View Set to. Please check the box " Enable " first to enable this configuration:
Send to Wall Enable Type Device Target 1 TV Wall Stati Source 2 ENR Screen Device 2 STORAGE RO Duration(secs) 5	Send live view of a device Select Type as "Device", the NVR Source and the Device name, define how long this live view will stay on the screen, and click the monitor from the Target TV Wall station you select on the right.
Send to Wall Type Source Target Target Try Wall Stati Source ZENR Screen Duration(secs) S	Send live view of all devices Select Type as "Source" and the NVR Source, define how long this live view will stay on the screen, and click the monitor from the Target TV Wall station you select on the right



Send to Wall Type Type Target 1 TV Wall Stati Group 11F Screen View 11F Storage Duration(secs) 5	Send a CMS View Select Type as "View", the name of the View Group, and the View name, define how long this live view will stay on the screen, and click the monitor from the Target TV Wall station you select on the right.
Send to Wall Enable Type TV Wall View View View View Set 1 3x3_1 Duration(secs) S	Send a TV Wall View Set Select Type as "TV Wall View", the TV Wall station, and the name of the View Set, at last, define how long this live view will stay on the screen.

To validate if this rule is successfully set, please make sure you have properly configured the involved settings like **Motion Detection Regions** or hardware devices like an audio speaker.

Manage the Event Rules

Event List panel gives an overview on event rules set on the CMS server. Go to **Setup** page \rightarrow **Event** tab \rightarrow select **All Sources** on the left. As the entire available rules of all NVRs are listed here, you may want to sort out some of them from the long list.

View the Event Rules

To sort by NVR **Source** name or **Event Name**, click the titles to list the entries in ascending or descending alphabetic order; another way is to click an NVR source of a single device in **Source Setup List** to view their own event rules.

e Setup List						
All Sources (2)	Filter :	All	All Events		Clean	r All 🛛 Select A
		Source 🗠	Event 🗠	Event Name 🔺	Response	
All Devices (11)		1 INR	Source Loss	Source Loss		
2 STORAGE ROOM 1		1 INR	Source Recovery	Source Recovery		
3 Marketing		1 INR	Schedule Service St	Schedule Service Start		
S FAE1		1 INR	Schedule Service St	Schedule Service Stop		
👮 9 FRONT DOOR		1 INR	Disk Full	Disk Full		
		1 INR	Disk Is Available	Disk Is Available		
TI OFFICE 4		1 INR	Disk Not Found	Disk Not Found		
14 FAE WEST		2 ENR	Source Loss	Source Loss		
T5 FAE EAST		2 ENR	Source Recovery	Source Recovery		
C TO THE MILD DE		2 ENR	Schedule Service St	Schedule Service Start		
		2 ENR	Schedule Service St	Schedule Service Stop		
		2 ENR	Disk Full	Disk Full		
Event		2 ENR	Disk Is Available	Disk Is Available		



Delete the Event Rules

On Event List, select the rules you wish to delete, and then click "Delete" to clear this rule.

							🅸 🗎 🕡	
Home Users So	urce	TV Wall	Event Lang	uage System				•
Source Setup List	Co Filter :	py Delete All	All Ever	its 🔹		Clear All	Select All	≯
→ 🖶 1 INR		Devices 🗠	Event 🗠	Event Name 🔺	Resp	onse		
All Devices (11)		2 STORAGE ROOM 2 STORAGE ROOM	Confirm		w;	TV Wall = 1; View = Vie	w Set 1	*
 ◆ 4 STORAGE ROOM 2 ◆ 5 FAE1 ◆ 9 FRONT DOOR ↑ 11 OFFICE 2 ◆ 12 OFFICE 3 ◆ 13 OFFICE 4 ↑ 14 FAE WEST ◆ 15 FAE EAST ◆ 16 FAE MIDDLE 		2 STORAGE ROOM 2 STORAGE ROOM 2 STORAGE ROOM 2 STORAGE ROOM 2 STORAGE ROOM	?	Click "Apply" to delete the or click "Cancel" to delete la	ielected item iter.		₽ ₽	
Event		l		Cancel Apply				
						u()) (100 100 100 100 100 100	<u></u> 2	

How to Setup SMTP Settings for Event Rules

CMS supports email notification sent through an SMTP server. You can specify the email and server settings here.

1. Go to Setup page \rightarrow System tab \rightarrow Settings \rightarrow Email& SMTP Settings.

	Reset	Apply		
🗱 Settings	E-mail & SMTP Setti	Ings		
凝 Controller	• SMTP		• Email	
License	Server	smtp.acti.com	Sender Name	wen cheng
	SMTP Port	25	Sender Mail	wen.cheng@acti.com
Backup/Restore	Account	wen.cheng		
Workstation	Password	•••••		
	Security	🔵 None 🔘 SSL 🔵 TLS		
		Send Test Mail		
	* You must confi	gure mail setting to send mail v	when event occurs.	

Fill in **each** of the following fields.

Field Name	Description
Server	Input the sender's SMTP server address. Only alphabets, numbers, and the
	symbols (.), (_), (-) are valid.
SMTP Port	Set the SMTP port, allowed value is from 1~65535, default is 25.
Account	Input the name of the SMTP server account. Only alphabets, numbers, and the
	symbols (@), (.), (_), (-) are valid.
Password	Input the password of the SMTP server account. Only alphabets and numbers
	are valid.
Security	Certain webmail providers provide the SSL/TLS-encrypted SMTP connections
	to secure your data when sending/receiving e-mails. Please check if the SMTP



	connection settings you use (especially the SMTP Port) now require to enable
	either SSL or TLS.
Sender Name	Input the name or title of the sender. You may input a name different from the
	account name.
Sender Mail	Input the sender's e-mail address, which should be the same account you set
	for SMTP server.

- 2. As all necessary information is filled in, click "Send Test Mail" to try sending an email according to your settings, and then log in to your SMTP server to check incoming emails. If the test mail is sent successfully, CMS server is ready to send out emails.
- **3.** As the settings are confirmed, click "**Apply**" to save.



System Log

The activities performed by logged-in Users are recorded on server as **System Log**. With the access permission, a user may view, search and export this record for analysis or investigation. This section will provide the instructions on how to read and search data in the system log.

"System Log" is one of the resident buttons on top of CMS server user interface, click it to enter either "CMS System Log" or "NVR Source System Log".



CMS System Log

Upon entering the log page, you will be provided with a blank result list. After you define the searching criteria and click "**Search**", the **CMS System Log** will search the activities performed on CMS.

CMS Sys	MS System Log 8											
Search Time	2013/04/29	16 : 49 Туре	Select All		· · · · · · · · · · · · · · · · · · ·							
User Account	Select All	Source S	elect All	Device	Select All	 Search 	Export					
Date T	ime 🔺	Type 🔺	User Account 🔺	Source 🗠	Device 🔺		Description					
_												

To start, please define the search criteria.



Search Time

The default is your current client time.

CMS System Log													
C	012	10.4.7	10			.	12	Type Select All		-			
User Account	0		Ар	ril 20	13		0	Select All	Device	Select All	- Search	Export	
	Sun	Mon	Tue	Wed	Thu	Fri	Sat						
							13						
Date Tir	14							User Account 🔺	Source 🗠	Device 🗠		Description	
							27						
		29											

Log Type

You may filter the logs by activity **Type**. By default, all types are selected.

CMS Sys	tem Log							8
Search Time	2013/04/29	16:49	Туре	Select All				
User Account	Select All	✓ Source	Select A	✓ Select All ✓ User Operation		Search	Export	
				Setup Source				
Date T	īme 🔺	Type 🗠	User	Setup Source System	evice 🗠		Description	
				Setup Source User Setup Source Schedule Setup Source Event Setup Source Device Setup System Setup Users Setup Users Setup Event System Status Request Log				

User Account

You may filter the activities performed by a specific user.

CMS Sys	tem Log								×
Search Time	2013/04/29	16 : 49 Type	Select All		-				
User Account	Select All	Source	Select All	Device S	elect All	- Search	Export		
	Select All admin ceo								
Date 1	deckard cain	'∕pe ∽	User Account 🗠	Source 🗠	Device 🗠		Descript	ion	
	ltest								

NVR Source / Device

You may filter the activities related to a specific NVR or a device.

CMS Sys	tem Log								×
Search Time	2013/04/29	16 : 49 Typ	Select All		-				
User Account	Select All	- Source	Select All	Device	Select All	Search	Export		
			1 ADR Branch 2 MobileGO		1 ADR Branch : 2 ACTi 1 1 ADR Branch : 7 ACTi 2				
Date Ti	ime 🔺	Туре 🗠	3 WEN Office	Source -	1 ADR Branch : 9 ACTi		Descrip	tion	
					1 ADR Branch : 11 ACTi 2 MobileGO : 111F_Entrance 2 MobileGO : 211F_Lab 2 MobileGO : 3 7F_Office Area A 2 MobileGO : 4 7F_Office PTZ 2 MobileGO : 5 7F_Office Area B 2 MobileGO : 6 7F_Office Area A 3 WEN Office : 1 New Device	x : .11			



Read the Log

The search result will show 1000 records before and after your query time. You may click the pagination buttons to navigate earlier or later records. If there is an icon I on the top right corner of an entry, click it to view the full description content.

CMS System Log					*			
Sanch Time 201304/29 📱 16 1 4 19 Type User Operation/Setup Source Basi								
User Account Select All	ce 2 MobileGO Device	Select All	Search Export					
Date Time 🔺	Type ~	User Account 🗠	Source ~	Device ~	Description			
2013/04/25 14:54:29	Setup Event	admin	2 MobileGO	1 11F_Entrance	ST D Source # ≈ 2 Device			
2013/04/25 14:54:59	Setup Source Schedule	admin	2 MobileGO		SET Source id = 2 Durine			
2013/04/25 14:55:35	Setup Source Schedule	admin	2 MobileGO	SET Source id = 2 Device				
2013/04/25 14:57:56		admin	2 MobileGO	id = 1 47F_Off ScheduleConfi Device	ig			
2013/04/25 14:59:00	Setup Source Schedule	admin	2 MobileGO	PreBuffer = 47F_Off PostBuffer Recording	= 5			

A log entry contains several kinds of information including **Date Time**, **Type**, **User Account**, **Source**, **Device** and **Description**. Check **Type** and **Description** fields to know what the user has done or what happened to the whole system. In **Type** field shows what major functions this behavior was involved in, in **Description** field narrates how the change was done (in green font color, uppercase) and the result (in white font color).

Take the case below for example, you can tell that the **admin** user set up an event rule on 2013/4/25 for **#1** device(11F_Entrance) on **#2** NVR(MobileGo) to trigger a response upon the motion detected by **#1** device(11F_Entrance)'s motion region **1**.

Date Time 🔺	Type –	User Account 🗠	Source 🗠	Device 🗠	Description	ı
2013/04/25 14:54:29	Setup Event	admin	2 MobileGO	111F_Entrance	SET Source id = 2 Device id = 1 EventHandleConfig EventHandle Event id = Motion1	E

Note

If the pagination button appears to be disabled, that means no more records are found on CMS server. By default, the server will keep the logs for 30 days. If you wish to adjust the period, please go to **Setup** page \rightarrow **System** tab \rightarrow **Settings**, in **System Log Settings** section, key in the value in this field: Keep System Log for (1-999 days) 30



Export the Log

Click "Export" button to export the log as .csv file. You can specify the Time Duration, NVR Source, User Account and the involved Device of the logs, and click "Apply".

Source Sy	/stem Log						
Search Time	2013/04/22	18 14 Source	2 MobileGO				
Туре	User Operation;Set	up Dev Viser Account	admin	- Device	Select All	▼ Sear	ch Export
	Export Syst	tem Log				5	
	Time Duration	2013/04/28	18:39~20	013/04/29	18 : 39		
	Source	2 MobileGO	~				
	Туре	User Operation;Setup	Dev 🔽				
	User Account	admin	-				
	Device	Select All	-				
		Can	cel	Apply			

NVR Source System Log

As the CMS administrator owns the same privileges of an NVR administrator, it is able to acquire the NVR system log from CMS interface. Unlike **CMS System Log**, **NVR Source System Log** records an NVR user's activities on NVR. Click, enter **Source System Log**, specify the **NVR Source** name and other criteria, CMS will start searching.



Customize Views

After all NVRs and devices are added, you may start customizing the views for different users and purposes. This chapter will teach you how to add video source, arrange the channels and manage live view layouts.

In CMS system, a **View** refers to the layout where the live images of **Cameras** or **Maps** are placed in proper positions to suit the monitoring purpose. This is very similar to a camera group, which often consists of cameras in the same physical location. For example, a View named **11F Emap & Camera** may contain the 11F floor plan and the cameras actually placed on 11F.

On CMS Live View, a saved View not only remembers (1) layout style, (2) which channel to display which camera, (3) but the fisheye view mode (for fisheye cameras only.



Live View Interface Overview

- 1. View Toolbar: Provides 24 options for layout styles and the functions keys for editing a view.
- **2. Channel**: Each channel window may display a camera view or a map. In edit mode, you can adjust the channel size at will.
- View List: All the saved Views are shown here. On Live View, you can go to
 ✓
 View Manager to group and manage these views (refer to <u>Manage the Views</u> on page 63).



4. Device List: In edit mode, drag a camera from here to your desired channel.

Step 1: Create a New View

On View Tool Bar, click the Create View button , input the View Name, add a New Group for this View and decide whether this group is to be Public or Private, and then click "Apply".

•The views under **Private View Group** are only available to the User who created them.

•The views under Public View Group are open to every User.



Step 2: Enter Edit Mode

On **View Toolbar**, click the **Edit View** button \square , this view will turn into edit mode. In edit mode, you may add a video source to a channel, and adjust the channel size.

Step 3: Select a Layout

On **View Toolbar**, click the **Expand** button **button** to find all provided layout styles. Select a layout that is perfect for your required channel number and ideal arrangement.

	18 24 25 35 36 48	49 64
New View		Ø 🗎 🕖
View Mew Group New View		• • *
Device		
Q × ▲ All Sources ↓ ∰ 1 ADR Branch ↓ ∰ 2 MobileGO ● ① ● ② ● ② ● ② ● ③ ● ③ ● ○ ● ○ ● ○ ● ○ ● ○ ● ○ ● ○ ● ○ ● ○ ● ○ > ○ ● ○ ● ○ ● ○ ● ○ ● ○ ○ > ● ○ ● ○ ● ○ ● ○ ● ○ ● ○ ● ○ ● ○ ● ○		
Source Select All 🔽 🍸	12	
	L	J1 3



Step 4: Add Video Source



In edit mode, move the mouse over the channel and click I to select a camera from the source list. You may also directly pull a camera from the **Device** panel to your desired channel.



•Remove the camera view: right-click on the channel and select "Remove".



Step 5: Add a Map

By adding a map, you put a picture on the channel, where you may place camera icons later to make it an "**e-Map**.



In edit mode, move the mouse over the channel and click to upload a map. Please input the **Map Name**, select the image location (file format must be JPG) and click "**Apply**".



Create Map	
Map Settings	
Map Name 11F	
Man Image Setting	
map image setting	
🔘 Upload Image	C:\Users\Wen.Cheng\Documents\7F.jpg Browse
*File already exists or d	uplicate file name.
Sort by Name	B
→ Fijpg	Image: state
	< <u>1</u> /1 >
	Cancel

•Map brightness:

To change the map brightness, right-click on the map, select "**Map Mask**" and the brightness percentage level.

0%	10%	20%	30%	40%
50%	60%	70%	80%	90%

•Map size:



By default, the map will be displayed in its original size. Use the button s on upper right to adjust the map size. Enlarge to fill channel height Original image size Zoom in Zoom out

• Edit map title:

The map title will be shown on channel title bar. In edit mode, right-click on a map channel and select "Edit Map Information"



•Remove the whole map:

Right-click on the map and select "Remove".

Manage maps:

All the uploaded images are managed under Map Image Manager. On Live View screen, you

may go to $\boxed{m} \rightarrow$ Map Image Manager to view, upload or delete the maps.



Step 6: Add Devices to the Map

Pull a device from Device List to the map.





- •To remove this device from map:
- Click 🔀
- •To move this device:

Left-click on the device icon and drag.

•To change the pointed direction:

Mouse over the viewing angle area, left-click on the clockwise arrow to turn the direction.





If this is a device of an NVR3 server (including GNR-3000 server, INR-410 server or INR-420 server) and its stream mode is set to **DUAL** or **multi-streaming**, you can choose a desired stream from **View Toolbar**. This choice of stream will be remembered by this View.



Step 7: Adjust the Channel Size & Layout

•Adjust the channel size:

Click down right lower corner of the channel window, drag and then release.



•Switch channel windows:

Click on a channel title until the cross arrow \triangleleft_{r}^{4} appears, hold it to drag this device or map to your desired channel.





Step 8: Save the View

Click _____ on **View Toolbar** to save it.

Step 9: Set Default View

To set a **View** as default, select it in the **View List** panel and then cli **OVIEW** on **View Tool Bar**. By next time you log in, you will directly enter this View.

Step 10: Set Default Hotspot Channel (Optional)

By system default, the global hotspot channel will always be the <u>top left one</u>. You can set any other channel on your live view screen to be the default hotspot channel. Right-click on the channel and select "Default Hotspot" Default Hotspot , then click on View Tool Bar to save it.

Step 11: Set Fisheye Camera Mode

Define a view for a fisheye camera channel by selecting its mode and using ePTZ control. Please note that the maximum number of fisheye channels on the same View is **16**.

1. On this channel, right-click to bring up channel menu, click "Fisheye Mode" and select one mode.



- 2. After the fisheye mode is selected, click a region of interest.
 - •Use **PTZ Panel** controls to operate PTZ movements:

ePTZ Controls on PTZ Panel



•Click the mouse anywhere on the view to pan/tilt, scroll the mouse wheel to zoom in/out.





•To reset the ePTZ navigation area back to default viewing angle, right-click to bring up channel menu, and then click "**Reset**".

3. click 🗔 on View Tool Bar to save the configuration.

Note

Once a channel is changed to any of the following fisheye modes: **Dewarping**, **Panorama**, **Double Panorama**, **Panorama/Focus** or **Quad**, the resolution of this live stream will become 1920x1080, while NVR still records the live stream at the resolution you set on **Setup** page.

Manage the Views

Each View belongs to a specific **View Group**. With the group management, CMS makes it easy to deal with Views you created for multiple Users.

After you created and saved the Views on Live View screen, click $\boxed{0} \rightarrow$ View Manager.

- Click on the arrow icon in front of a group folder to reveal its **Views**.
- 2 By selecting a **View**, you may directly modify its name in **Name** field.
- You may change a group's Group Type. Upon the change, for example, by changing a group from "Private" to "Public", all the views belonging to it will be open to every User.
- 👍 Click this icon to add a new group. 🔸 🚑 New Group
- **5** Click this icon to delete a selected group.
- 6 Click this icon to copy a selected group to another group.
- Click this icon to move a selected group to another group.

View Manager	
4 5 6 7 _{he}	Group Type
	Public
11F Entrance	
7F	
1 ▶ 🔤 7F	Private
Cancel	Apply



Set View Link

By creating a link button on a map view, you can directly be linked to another view. On the picture below shows how to create a link button (a) to 7F View on 11F map.



- 1. Select a map View, on which you will place a link button to another view.
- 2. Click on View Tool Bar to enter edit mode.
- 3. From View List, drag the target View to current View, a link button will appear.
- 4. Click don View Tool Bar to save it.

Set View Patrol

You may have the saved Views patrol in turns. In this way, the views in different area in your site may cycle through themselves for you automatically.





On View Tool Bar, click 🗘 then Create Patrol.

- 1. Input the Patrol Name.
- 2. Select the Patrol Type to be open to all Users or to the creator only.
- Define the Global Dwell Time between the views. If you want to set different dwell time length for individual Views, do not check this option, and configure them separately in below table.
- Choose the Views to display in patrol. If you select the All Sources group, you will also need to select "Source Layout Style" for it.
- 5. Click "Apply" to save the settings.

Create Patrol		
Patrol Name 11F all Patrol Type Public Global Dwell Time(5 Source Layout Style	5-120 secs) 5	
		🗌 Clear All 🛛 🔽 Select All
	Name	Dwell Time(5-120 secs)
📄 🕨 🌌 All Sources		
🔲 🔺 🞽 Office		
🖌 🚺 11F		5
□ 7F		5
	Cancel	lv

 The saved patrols will be shown on the patrol list after you click on View Tool Bar, you may delete and edit a saved patrol or select it to start patrolling.





Tips to Enhance Live View Performance

Live view for multiple channels requires sufficient computing power to run the performance. In certain extreme cases, like when viewing several megapixel H.264 video streams at the same time, client computer will be overloaded and hence affect browser's performance. This is a common limitation imposed upon all Windows based video management programs and web browser.

To enhance live view performance, below are several tips you may try:

- Use another browser client to share these high-resolution channels. Given that there are 32 megapixel channels to be monitored, you may have Layout 1 to display channel 1~16, set Layout 2 to display channel 17~32, then open one browser client to show Layout 1 and the second browser on an extended monitor to show Layout 2.
- 2. Have CMS automatically lower the frame rate of live streams when system loading is high. Go to Setup page → System tab→ Settings → Display Performance Setting and enable this function. Basically, this setting will lower frame rate when the CPU usage is above certain percentage. You may also enable "Lower the frame rate when current layout is above_", in this way, when the layout is displaying over certain number of channels, the frame rate of all live streams will be declined. By default, this setting will be applied to the live display of all connected web clients and Workstation clients.

Home Users	Source TV Wall Event Language System	
	Beset	
	• SMIK • Email	
🐺 Settings	Server Sender Name	
🍌 Controller	SMTP Port 25 Sender Mail	
a	Account	2
License	Password	
Backup/Restore	Security ON None SSL TLS	
Uorkstation	Send Test Mail	
	* You must configure mail setting to send mail when event occurs.	
	Display Performance Setting	
	C Enable	
	Lower display frame rate when current layout is above 36	
- SOF	Lower display frame rate when CPU usage is above 80 %	

A Workstation client computer can have its own specific display configuration without being affected by CMS universal setting. Log in as CMS2 Workstation client, go to Setup page \rightarrow System tab \rightarrow Workstation and configure the Display Performance Setting.

Home	Users	Source TV Wall	Event Language	System		•			
		Reset Apply	_						
🌞 Settin	ıgs	Display Performance Set	ting			••			
🔈 Contre	oller	🗹 Enable							
Y Licens	se	Lower display f	Lower display frame rate when current layout is above ³⁶ Lower display frame rate when CPU usage is above ⁸⁰ %						
👕 Backu	ıp/Restore	Server Site							
Uorks	station	Export		Browse					

Let Windows Automatically Start up CMS Live View

You may have the CMS client application automatically run and open the live view after Windows starts. In this way, you may save steps and time before you eventually see the desired live view screen. Additionally, whenever a power breakdown takes place, the live view may recover as soon as your computer resumes.

If more than one users would log in to this computer, this tip might not be suitable due to account security issues.

- 1. On CMS server, set a **Default View** for your account. For detailed procedures, please refer to this section in this manual: <u>Customize Views</u> on page 56.
- 2. Set Auto-login for your Workstation client or web browser client. For detailed procedures, please refer to this section in this manual: C. Remember Account/Password on page 25.
- **3.** If you are using a browser client, open the browser, and set the CMS server IP as default homepage.
- 4. Set your browser or Workstation application to start right after Windows has started. Click Windows Start → Programs → Startup to open the Startup folder, and drag the application shortcut into it. In your case, you will have to drag the Internet Explorer shortcut or CMS2Workstation shortcut into the Startup folder.
- 5. The next time you start Windows, CMS live view will be running automatically, and you may start monitoring the system in no time.





ation



Customize System Language

CMS server supports multiple languages for user interface display. There are already several translated language files in the server system. Each language is open to customization based on your own needs. This section will describe how to choose or customize language strings for your site.

Change System Language

You may decide which languages to be selectable on Login screen. The chosen languages will appear on the "Language" dropdown list.

CMS \	English					
		Lnglish الحريبة				
Server Name	New Server Site	. český				
Server IP	172.16.26.91	Dansk				
		Deutsch				
Server Port	1018	Ελληνικά				
Account		Espanol Suomon kieli				
- ·		Suomen kieli				
Password		Magyar				
Initial Page	Live 🗸	Bahasa Indonesia				
		Italiano				
		日本語				
languago	English	Nederlands				
Language	English	Polski				
		Português				
Remember Account/Password						
		ский язык				
		SVenska				
<u>Don't Remembe</u>		1ทย				
Forgot Password	<u>1?</u>					
		Tieng việt 古文(答体)				
		中文(间体) 古文(敏 健)				
Remember A Auto Login <u>Don't Remembe</u> Forgot Password Save	Login	Português Ский язык Svenska Iva Türkçe Tiêng Việt 中文(简体) 中文(繁體)				

Go to **Setup** page \rightarrow Language tab, click "Active Languages". On popup window, check the languages you need, and click "Apply". By default, all languages are selected. As **English** and **Traditional Chinese** are the default system language, they are not removable from this list.

Home Users	Source to wan Event Lang	Juage System			•
Language Group	Active Languages Import Export	Active Languages			
all	Select Language : English	العربية 🖌	✓ český		
UI Message	English •	✓ Dansk	Deutsch	-	
🛅 Tooltip	*File already exists or duplicate file name.	Ελληνικά			
	AVI	Español	✓ Suomen kieli		
	About Us	Francais	עברית 🔽		
	About Us Absolute PTZ	Magyar	Bahasa Indonesia		
	Absolute Position	∠ Italiano			
	Account	Nederlands	Polski		
	Account and Password can not be blank. Account is duplicated.	Português	Română		
Language	Account/password mismatch. Please try again.				
	Account/password mismatch. Please try again.	У Русский язык	V SVEIISKA		
	Action	🗹 ไทย	✓ Türkçe	_	
		Cancel	Apply		



Edit User Interface Wordings

Each language file contains four editable string tables. Each table displays the default wordings in English and the translation in target language.

To view the string table:

1. Select the language from "Select Language" dropdown list, then select a table from the "Language Group" list on the left column.

	Active Languages Import Export	Reset Apply
nguage Group All	Select Language : Español	
UI III	eský	Language
Message	(*.lic file) Dansk Deutsch	(archivos *.lic)
Tooltin	*File already exists < λληνικά	*El archivo ya existe o tiene nombre duplicado
	AVI spañol	AVI
	About Us juomen kieli rancais	Acerca de nosotros
	About Us עבריו	Acerca de nosotros
	Absolute PTZ bahasa Indonesia	Absolute PTZ
	Absolute Position 古本語	Posición absoluta
	Account Jederlands	Cuenta
	Account and Passwe Português	La cuenta y contraseña no pueden quedar vacía
	Account is duplicate	La cuenta está duplicada
	Account/password	El usuario y password no coinciden. Por favor inténtelo de nuevo.
	Account/password ürkçe	El usuario y password no coinciden. Por favor inténtelo de nuevo.
anguage	Action Liếng Việt	Acción

2. Your target language will be displayed on the right column, while the default system language "English" appears on the left for reference. Click in any field on right column to customize your desired wordings, and click "Apply" to overwrite the current.

guage Group	Active Languages Import Export Res	et Apply		
All	English 🔺	Language		
Message	(*.lic file)	(archivos *.lic)	^	
Tooltip	*File already exists or duplicate file name.	*El archivo ya existe o tiene nombre duplicado		
	AVI	AVI		
	About Us	Acerca de nosotros		
	About Us	Acerca de nosotros		
	Absolute PTZ	Absolute PTZ		
	Absolute Position	Posición absoluta		
	Account	Cuenta		
	Account and Password can not be blank.	La cuenta y contraseña no pueden quedar vacía		
Language	Account is duplicated.	La cuenta está duplicada		
	Account/password mismatch. Please try again.	El usuario y password no coinciden. Por favor inténtelo de nuevo.		
	Account/password mismatch. Please try again.	El usuario y password no coinciden. Por favor inténtelo de nuevo.		
	Action	Acción		

The new string will be applied by next time you log in. If you log in as a **CMS2 Workstation client**, please press button on **Login** page to synchronize with the latest modified language file, then log in to the system.



CMS Workstation						
Server Name		•				
Server IP	172.16.26.91					
Server Port	1018					
Account						
Password						
Initial Page	Live					
Language	English	- 0				
Remember	Account/Password					
Don't Remembe						
<u>Forgot Passwor</u>						

Export / Import Language String File

You may also click "**Export**" to export the language file as .xml format to edit in **Notepad**, or "**Import**" to import a language file to use in the system.

Home Users	Source TV Wall Event Language	System	
Language Group	Active Languages Import Export Res	et Apply	
	English 🔺	Language	
🛅 Message	(*.lic file)	(*.lic file)	
🛅 Tooltip	*File already exists or duplicate file name.	*File already exists or duplicate file name.	
	AVI	AVI	
	About Us	About Us	
	About Us	About Us	
	Absolute PTZ	Absolute PTZ	
	Absolute Position	Absolute Position	
	Account	Account	
	Account and Password can not be blank.	Account and Password can not be blank.	
Language	Account is duplicated.	Account is duplicated.	
	Account/password mismatch. Please try again.	Account/password mismatch. Please try again.	
	Account/password mismatch. Please try again.	Account/password mismatch. Please try again.	
	Action	Action	

In general, it is suggested that you always save a modified language table with a different file name in a location other than default system language folder on server computer *C:\Program Files\ACTi Corporation\CMS2\Language*, then import it to use. In this way, you can avoid overwriting the original language file.



Display Configurations

You can change the user interface style by arranging the main screen and **Panel/Device List** on the right or left. Go to **Setup** page \rightarrow **System** tab \rightarrow **Settings**, scroll down to the **User Interface Style** section, select the setting style then click "Apply". The change will be applied upon your next login.

				🏟 🗎 🕖	
Home Users S	ource TV Wall	Event Lang	uage System		
	Porot				
🔹 Settings	✓ Source ID	✓ Source Nam	ne 💌 Device ID me	•	
Controller	Export Video Settings				
Y License	Export file path	C:\Users\Wen.Cheng\Deskto	p Browse		*
🚍 Backup/Restore	Snapshot OSD	✓ Date and Time			
Workstation		Source ID	Source Name		
			Device Name		
	User Interface Style				
	Live and Playback UI Setting				
System	* The configuration cl	nange will take effect when you	rlogin next time.		



Video & Snapshot Export Configurations

By default, the snapshots taken by Users on **Live View** and all exported video files are saved to the current client's Desktop. You may configure the destination by selecting another available file location on your client's computer. Go to **Setup** page→**System** tab→**Settings**, in **Export Video Settings** section, click "**Browse**" to choose the file path.

You may also define what information is printed on each snapshot by checking the items: **Date** and time, Source ID, Device ID, Source Name and Device Name.

Ho	me Users	Source TV Wall Event Language System						
_								
		Reset Apply						
alta	Settings	Video Title Setting						
- 1964	Settings							
ે 😽	Controller	✓ Source ID ✓ Source Name ✓ Device ID						
	License	✓ Device Name ✓ Date and Time		*				
		Export Video Settings						
~	Backup/Restore	Export file path CAUsers/Wen.Cheng\Desktop Browse						
狊	Workstation	Snanshot OSD 🔽 Date and Time						
		Shurre ID Source Name						
		User Interface Style						
		Live and Playback UI Setting						
	Son							
	and a							
S	/stem							
		* The configuration change will take effect when you login next time.						
			1112					

These configurations will take place after you click "Apply".


Joystick

In CMS, other than user interface PTZ panel and mouse operation, you may also control the PTZ movements by physical controllers. CMS supports two types of controllers, which both feature in a joystick with twelve buttons for users to assign specific actions.



Model: **IP Desktop** Manufacturer: CH Products



Model: Extreme™ 3D Pro Manufacturer: Logitech

How to Install the Joystick

- 1. Log out from CMS client interface.
- Connect the controller device to your computer. To make sure the device is installed properly, open Windows Start menu and enter Devices and Printers to check the status.
- Log in to CMS server, go to Setup page →System tab, enter "Controller" section and select your product.
- You may assign specific commands from dropdown list to buttons 1~12 of the controller. When setting is done, click





5. To validate its function, go to **Live View** page and focus on a PTZ device channel to operate the supported PTZ operations.



Un-install Server Software

In certain cases, un-installation of CMS system is necessary, for example, (1) you want to terminate CMS server and clear all the evidence due to privacy and security reasons, (2) you need to reinstall the system due to an unsuccessful installation.

<u>Before starting un-installation, please back up important data</u> (please refer to <u>Back up System</u> <u>Data</u> on page 76) first and prepare the CMS server install shield application. This chapter will describe un-installation process.

Step 1: Remove CMS Server Program

Go to Windows Control Panel → Programs and Features (in Windows Vista /Windows 7/Windows 2008) to remove it. When you un-install CMS server program, the web client will be terminated at the same time.

File Edit View Tools Help				Adju	ust your computer's settings		View by: Category -	
Control Panel Home View installed updates Turn Windows features on or off	Uninstall or change a program To uninstall a program, select it from the list and t Organize *	ten click Uninstall, Change, or Repair.	⊪ • 0	e	System and Security Review your computer's status Back up your computer Ind and fix problems	8	User Accounts Change account type Appearance and	
network	ACTi CMS Workstation v2.0.01	ACTi Corporation Adobe Systems Incorporated	2013/5/6		vrk and Internet vork status and tasks omegroup and otions		Personalization Change the theme Change desktop background Adjust screen resolution	
	Adobe Plash Player 9 Player Adobe Plash Player 9 Player Adobe Plash Player 9 Player Adobe Plash Player Adobe Player	Adobe Systems, Incorporated Adobe Systems Incorporated Adobe Systems Incorporated Adobe Systems Incorporated Adobe Systems Incorporated	2012/11/28 2012/9/25 2013/3/13 2012/9/21 2012/11/16 2013/2/21		are and Sound vices and printers device inect to a projector	Ð	Clock, Language, and Region Change keyboards or other input methods	
	AMD Catalyst Install Manager AuthenTec TrueSuite Currently installed programs 40 programs installed Total size: 8.35 GB	Advanced Micro Devices, Inc. AuthenTec, Inc.	2012/5/30 2012/4/24	Ξ.H	Adjust commonly used	٩	Ease of Access Let Windows suggest settings Optimize visual display	

 After you choose to uninstall "ACTi CMS Server" program, the uninstallshield will execute and notify you when it is completed.

Uninstall	Complete			
InstallShiel v3.0.01.	Wizard has finished unins	talling ACTi NVR S	erver	



Step 2: Remove CMS Server Program Folder (Optional)

If you are performing a complete un-installation without leaving any CMS server related data on the current computer, you may consider deleting this folder.

After un-installation, the **CMS** system folder will remain under ACTi product folder **ACTi Corporation** on your hard drive, the system configuration data here will not be removed until you delete them manually. By default, the path of **CMS** system folder is *C:\Program Files\ACTi Corporation*.

	Ti Product Folder			
Computer > Loca	l Disk (C:) 🔸 Program Files 🕨 ACTi Corporatio	n 🕨		✓ ✓ Search ACT
File Edit View Tools Help				
Organize Include in library	Share with 🔻 Burn New folder			:≕ ▼ □ 0
🖳 Computer 🔷	Name	Date modified	Туре	Size
Local Disk (C:) AcMiniDump AMC AMD inetpub NVR Temp	CMS2 CMS2Workstation	2013/5/6 下午 04:16 2013/5/6 下午 03:07	File folder File folder	23
2 items				

However, keeping this folder is convenient for a un-installation followed by an instant re-installation, for the previous system settings can directly be applied to the new server.



Back up System Data

Making regular system backups is always recommended in case of unexpected disasters or accidents that may damage CMS server. Other than this, you may need to perform an on-demand backing up to (1) migrate the whole CMS server data to another computer, or (2) re-install the CMS server on current computer. There are several types of data on CMS server essential to your surveillance system please consider your purpose and follow the below instructions to create their backups.

CMS Settings Backup

CMS server can create a backup file of the whole system settings within one click. The settings being backed up include the following properties you set for system: (1) Users (2) Imported NVR Source & Device properties (3) Event Rules (4) System \rightarrow Settings / User Interface Style / Joystick, and (7) the saved Views in Live View page, and (8) TV Wall Server information and TV Wall Views.

Step 1: Back up CMS System Settings

- 1. Go to Setup page →System tab→ Backup / Restore
- In Backup section, click "Browse" to select the destination for backup file, the file will be saved as *Backup_YYYYMMDD.xml* file. Then click "Backup" to export the file.

Home Users	Source TV Wall Event Language	System	• •
🌞 Settings	Backup C:\Users\Wen.Cheng\Desktop\Backi	up. 20131029; Brow	►
à Controller	Backup	Save As	
📍 License	Restore	🚱 🕞 🗢 🕌 🕨 CMS Backup	- 4 Search CMS Backup
Backup/Restore	Restore	Organize 👻 New folder	≣ - 0
Workstation	*Backup/Restore system and devices configurations.	★ Favorites Sur Recent Places So Recent Places So Recent Places So Recent Places Deptor Destop Destop	Date modified Type No items match your search.
System		■ Desktop ■ Desktop ■ Decoments ■ Decome	
		Hide Folders	2 Save Cancel

Important Notice

The license data is not included in the system backup file. You have to preserve the license key information provided in email or printed card to you after the purchase takes place.



Step 2: Back up CMS System Log (Optional)

The system log records the operations Users perform during logging in to CMS server. You may export the system log of latest three days as *.csv file as backup. Please refer to the section in this manual: <u>Export the Log</u> on page 55 for instructions.

Step 3: Back up NVR Source Backup (Optional)

You may also back up individual NVR's system on **Setup** page \rightarrow **System** tab \rightarrow **Source** tab. This backup file is the same with that made on the NVR interface, which contains the entire system settings of an NVR server and its customized Views.

On **Source** tab, select your desired NVR and enter its sub category **Maintenance**. Click "**Backup**", select a file destination path and click "**Apply**".





Restore System Data

Before starting restoring the system, make sure you have done the following:

(1) Re-activate the license

If you have activated the CMS licenses then done un-installation previously, please contact **ACTi Customer Help Desk** <u>http://www.acti.com/CHD</u> to clear the original registration data in ACTi license database, prepare the <u>license key information</u> for online activation or the <u>activation file(.lic)</u> for offline activation, and follow the instructions <u>How to Activate the Licenses</u> on page 20 to activate your license. The license should be activated before settings are restored so that the licensed channels are ready for recovery.

(2) The backup file(.xml).

To start,

- 1. Go to Setup page →System tab→ Backup / Restore
- 2. In **Restore** section, Click "**Browse**" to select the backup file, and then click "**Restore**" to start restoring the settings.

Home Users	Source TV Wall	Event Langua	je System			•
	Configuration					
🌞 Settings	Backup			Browse		••
à Controller			_			
License	Restore	C:\Users\Wen.Cheng\Desktop\b	ackup.xml	Browse		*
Backup/Restore	*Backup/Restore system	and devices configurations.				
-						
System					×	

3. The restoring process requires logging out of CMS server. After restoring is done, you may log in using your previous user account properties.



Advanced Administrative Tasks

To assist the CMS administrator in monitoring the server status and basic trouble-shooting, the **CMS2 Administrator Tool** is installed along with CMS server program on the server computer. This tool will start running as the server computer starts up, and resides in the system tray. You may double-click the icon to open this tool.



CMS Server Status

You may observe the CMS services status on Service tab.

CMS2 A	dministrate	Dor Tool		
Setting	Servi	ce		
Services				
	Туре	Server Name	Status	
	· ø.	Active Event Handler Service	Start	
	ç.	Active Media Server	Start	
	.	Active Service Manager	Start	
			Close	

Change Server Port

On Settings tab, input a new port and then click "Apply".

	CMS2 Administrato	r Tool	х
S	Setting Service	e	
	Local		
	IP Address	0.0.0.0	
	Port	1018	
	Host Root		
	Authentication		
		Digest	
		Reset Apply Close	



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Change Authentication Method

You may enable the **Digest** authentication other than the basic way. With this method, when logging in to CMS server, User's credentials are encrypted using MD5 algorithm. In this way, there is more secure protection to prevent from unauthorized access.

Please also note that, with **Digest** authentication method enabled, a mobile client user or a domain user will be blocked from CMS system.

CMS2 Admin	histrator Tool	<
Setting	Service	
Local		
IP Addre	ess 0.0.0.0	
Port	1018	
Host Ro	ot \webroot\Application	
Authenticat	ion	
🗹 Basi	ic 🔽 Digest	
	Reset Apply Close	