



CCVSR Video Session Recording Software User Manual



User Information

Online Registration

Be sure to register your product at our online support center:

International	http://eservice.aten.com
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Telephone Support

For telephone support, call this number:

International	886-2-8692-6959
China	86-400-810-0-810
Japan	81-3-5615-5811
Korea	82-2-467-6789
North America	1-888-999-ATEN ext 4988 1-949-428-1111

User Notice

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The manufacturer of this system is not responsible for any radio and/or TV interference caused by unauthorized modifications to this device. It is the responsibility of the user to correct such interference.

The manufacturer is not responsible for any damage incurred in the operation of this system if the correct operational voltage setting was not selected prior to operation. PLEASE VERIFY THAT THE VOLTAGE SETTING IS CORRECT BEFORE USE.

Package Contents

Basic Package

The Video Session Recording Software package consists of:

- 1 Video Session Recording Software USB License Key
- 1 Software CD
- 1 User Instructions*

Check to make sure that all of the components are present and in good order. If anything is missing, or was damaged in shipping, contact your dealer.

Read this manual thoroughly and follow the installation and operation procedures carefully to prevent any damage to the switch or to any other devices on the Video Session Recording Software installation.

* Features may have been added to the Video Session Recording Software since this manual was published. Please visit our website to download the most up-to-date version.

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Manual Date: 14 May 2019

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About This Manual

This User Manual is provided to help you get the most from your Video Log Server system. It covers all aspects of installation, configuration and operation. An overview of the information found in the manual is provided below.

Chapter 1, *Introduction*, introduces you to the Video Session Recording Software application. Its purpose, features, benefits, and requirements are presented.

Chapter 2, *CCVSR Installation*, provides step-by-step instructions for installing the Video Session Recording Software software.

Chapter 3, *The User Interface*, explains how to login to the Video Session Recording Software using a web browser.

Chapter 4, *Playback*, explains how to use the features and functions of the Playback page, used to search and play video log files.

Chapter 5, *Liveview* explains the centralized liveview, including displaying only the favorite devices/ports, more playback options, single port mode, etc..

Chapter 6, *Device Management*, shows super administrators how to add KVM devices and configure ports on the Video Session Recording Software, in order to record video logs.

Chapter 7, *User Accounts*, shows super administrators and administrators how to create, modify, and delete users and groups, assign attributes to them and authentication settings.

Chapter 8, *System*, explains how to use the System Management page to configure *Server Info*, *Notification*, *Security*, *License*, *Backup & Restore* and *Recording* settings.

Chapter 9, *Logs*, shows how to use the log file utilities to view the events that take place on the Video Session Recording Software.

Chapter 10, *CCVSR Archive Server*, describes how to use the CCVSR Archive Server, and explains it's features and function.

Chapter 11, *Personal Configuration*, explains how to set custom preferences for the user currently logged in.

An Appendix, at the end of the manual provides technical and troubleshooting information.

Conventions

This manual uses the following conventions:

- Monospaced Indicates text that you should key in.
- [] Indicates keys you should press. For example, [Enter] means to press the **Enter** key. If keys need to be chorded, they appear together in the same bracket with a plus sign between them: [Ctrl+Alt].
1. Numbered lists represent procedures with sequential steps.
- ◆ Bullet lists provide information, but do not involve sequential steps.
- Indicates selecting the option (on a menu or dialog box, for example), that comes next. For example, Start → Run means to open the *Start* menu, and then select *Run*.
-  Indicates critical information.

Product Information

For information about all Altusen products and how they can help you connect without limits, visit Altusen on the Web or contact an Altusen Authorized Reseller. Visit Altusen on the Web for a list of locations and telephone numbers:

International	http://www.aten.com
North America	http://www.aten-usa.com

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Chapter 1

Introduction

Overview

ATEN's Control Center Video Session Recording (CCVSR) software is an innovative and effective solution designed for live monitoring and operation backtracking. Administrators can view live feed of operators currently operating on their systems and thus quickly resolve operational flaws, process discrepancies, etc. On the other hand, IT managers can go back to recorded operation videos to trace changes made for compliance control improvement and auditing efficiency.

Featuring the LiveView function, CCVSR provides live-video surveillance to allow administrators to monitor multiple KVM ports in real time. Various layout combinations and customizable layouts are available for selection by users to monitor multiple channels simultaneously. The LiveView function is especially suitable for industrial environments, such as production lines, which require real-time monitoring of continuous operations and system performance to facilitate timely responses to abnormalities or emergencies for administrators. Moreover, the LiveView page also implements the Playback function to allow users to quickly view older videos of the same channel for troubleshooting or problem solving.

The CCVSR automatically starts recording user sessions when users start accessing target servers locally and remotely through KVM over IP switch and/or serial console servers. Whatever the target server's operating status is, whether it'd be booting up the operating system, logging in, logging out, or in pre-boot BIOS mode, all activities and operations such as video display, key strokes and mouse clicks are recorded. The CCVSR can also record continuously without keeping the WinClient and JavaClient running.

No agent software installation required on target computers, the CCVSR is installed and operated independently as a server. It therefore does not require CPU resources, disk space, memory and network bandwidth of all target computers. Moreover, no agent software installation means that the CCVSR provides a non-intrusive method for user session recording. In IT-related environments such as server rooms, data centers and industrial settings like manufacturing plants, security is one of the first considerations on any administrator's mind. As a non-intrusive solution to provide reliable live-video

surveillance and video session recording, implementing CCVSR minimizes both security concerns and accidents.

The CCVSR is enhanced with a brand new HTML5 user interface, aiming to deliver a better user experience and advanced usability via its clear and concise interface, simplified structure, improved text readability, increased icon visibility, as well as ancillary functions such as system notifications. The UI's minimalist flat design aesthetic and two levels of typographic hierarchy, with the features grouped into self-explanatory handy sidebar, enable users to smoothly navigate and complete tasks intuitively.

The CCVSR system is scalable, supporting a single server and up to 3 secondary servers (to expand recording storage) setups. The system uses Primary-Secondary architecture to offer service redundancy. During standard operation, a Secondary server (max. 3 servers) acts as a storage server to store recorded videos. Moreover, if the Primary server fails, one of the Secondary servers can provide the required management and recording services for KVM over-IP Switches until the Primary server is back online. This feature ensures that the recording service is always on and uninterruptible. The CCVSR manages video recordings and allows all administrative activity to be controlled from a central CCVSR server (Primary server) through a single IP port, giving administrators access to all CCVSR data from one computer.

By integrating the CCVSR into your KVM installation, you can automate the security of your server room and make auditing an effective tool.

Features

- ◆ Automatically create complete recordings of a computer's operations when remote users access a KVM port – which are saved to an indexed database for advanced searches
- ◆ Supports high quality video recordings – with a video resolution up to 1920 x 1200 with 24 bit color depth
- ◆ Supports recording on multiple KVM over IP Switches
- ◆ Simultaneously records and plays the operation of multiple KVM ports*
- ◆ Search functions with keyword filters for video recordings
- ◆ Special video player tools with format, video record exporting, and password protection for enhanced security
- ◆ IP Filter for enhanced protection
- ◆ System event notification via SMTP email; SNMP trap and Syslog support
- ◆ Configurable user and group permissions – for search, play, system management, record management, and save management
- ◆ Port level permissions – users can only view ports they have been authorized on
- ◆ Supports device level event logs
- ◆ Archive Server Support
- ◆ Multilanguage GUI Supports: English, Traditional Chinese, Simplified Chinese, Japanese, and Korean
- ◆ Automatically runs software as daemon service in the background
- ◆ Multi-browser support: Internet Explorer, Chrome, Firefox, Safari
- ◆ Supports TLS 1.2 data encryption and RSA 2048-bit certificates for secure web browser logins
- ◆ 3rd party remote authentication supports: RADIUS, LDAP, LDAPS, and MS AD Directory

Note: 1. Up to 20 KVM sessions (Resolution = 1920x1080, Text Mode = On, Bandwidth = 1G, Scenario = Surveillance) can be recorded and streamed at any time when the recommended hardware requirements of the CCVSR server are met.

2. Up to 64 KVM devices can be supported by one CCVSR server.

Requirements

Computer

Systems that the Video Session Recording Software will be installed on should meet the following requirements:

- ◆ Server Hardware Requirements
 - ◆ CPU: Intel Xeon D-1527 4 cores 2.2GHz or equivalent
 - ◆ Memory: 8GB or more
 - ◆ Hard drive (for CCVSR): 4GB or more
 - ◆ Network: 1Gbps
- ◆ Client Hardware Requirements
 - ◆ CPU: Intel Core i5-7600 4 cores 3.5GHz or equivalent
 - ◆ Memory: 6GB or more
 - ◆ Network: 1Gbps
- ◆ Operating System Requirements:
 - ◆ Windows: 10, 8, 7
 - ◆ Linux:

OS	Version	Type	Kernel
Ubuntu	16.04	X86	4.10.0-28
Ubuntu	16.04	X64	4.8.0-36
Ubuntu	18.04	X64	4.19
Red Hat Enterprise Linux	7	X64	3.10.0
CentOS	7.4	X64	3.10.0-693
CentOS	7.5	X64	4.18.11-1
Debian	8.8	X64	3.16.0.4
Fedora	24	X32	4.5.5-200
Fedora	24	X64	4.5.5-200
OpenSUSE	13.2	X32	3.16.6
OpenSUSE	13.2	X64	3.16.6

KVM over IP Switch

Computers recorded by the Video Session Recorder must be connected to a port on a KVM over IP Switch (see *Supported KVM over IP Switches*, page 98).

Browsers

Supported browsers for users that log into the Video Session Recording Software include the following:

Browser	Version
Chrome	69.0.3497.100 or later
Firefox	62.0.3 or later

Bandwidth Requirement

1920x1080, Text Mode = On, 1G Bandwidth

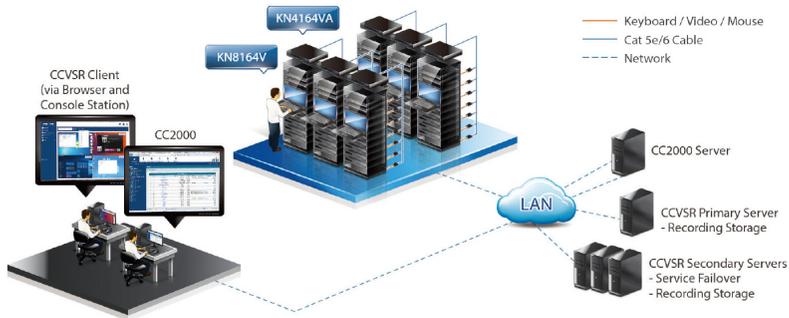
	General Operations (e.g. configure settings, etc.)	Surveillance (e.g. NVR, playing videos, etc.)
KN8164	3.37 Mbps/Channel 1 hour video size: 1.48GB	44.6Mbps/Channel 1 hour video size: 19.6GB
CN8000A	12.40 Mbps/Channel 1 hour video size: 5.45GB	32.4 Mbps/Channel 1 hour video size 14.3GB

1024x768, Text Mode = On, 1G Bandwidth

	General Operations (e.g. configure settings, etc.)	Surveillance (e.g. NVR, playing videos, etc.)
KN8164	3.14 Mbps/Channel 1 hour video size: 1.38GB	31.4 Mbps/Channel 1 hour video size: 13.8GB
CN8000A	11.56 Mbps/Channel 1 hour video size: 5.08GB	27.76 Mbps/Channel 1 hour video size 12.2GB

Note: Numbers above are for reference only, actual bandwidth requirement may vary (e.g. resolution, KVM model, KVM settings, Operations from a remote server, etc.).

An Example of CCVSR Deployment



Primary Servers

Management - A Primary Server is the central management software used to record, view, and manage all aspects of a CCVSR installation. All Secondary Servers, Archive Servers, and Nodes work through the Primary Server.

Secondary Servers

Storage - Secondary Servers reduce the work load and provide extended storage for the Primary Server - with limited configuration functionality.

Redundancy - When the primary server fails to work, one of the secondary servers will work as primary server temporarily for service availability. Refer to the following table for supported functions of primary, secondary, and archive servers.

Functions	Primary	Secondary (Storage)	Secondary (Redundancy)	Archive
System management	✓		view-only	
Device management	✓		view-only	
User management	✓		view-only	
Local management	✓	✓	✓	
Video & keystroke recording	✓	✓	✓	
Video search & playback	✓		✓	✓
Backup video & keystrokes				✓

Archive Servers

Archive - The Archive Server automatically archives all video log files created on the Primary Server into a separate organized database for extended backup and viewing. The Archive Server allow you to import, export, and allocate large databases separate from the CCVSR system.

Nodes

KVM Ports - A node is a physical port on a KVM over IP Switch. Each node you want to record video logs on requires a license.

Licenses

The CCVSR license controls the number of Primary Servers, Secondary Servers, Archive Servers, and nodes permitted on the CCVSR installation. License information is contained on the USB License Key that came with your CCVSR purchase. For a deployment example, see *Node Options*, page 9, for details.

Upon completion of the CCVSR software installation, the number of licenses that you purchased is automatically added. To add more, you must upgrade the license. See *License*, page 69, for more information.

License Options

License	Nodes	Primary Servers
CCVSR8	8	1
CCVSR16	16	1
CCVSR32	32	1
CCVSR64	64	1
CCVSR128	128	1
CCVSR256	256	1
CCVSR512	512	1
CCVSR1024	1024	1
CCVSR2048	2048	1

Node Options

License	Nodes
CCVSRN1	1
CCVSRN8	8
CCVSRN16	16
CCVSRN32	32
CCVSRN64	64
CCVSRN128	128
CCVSRN256	256
CCVSRN512	512
CCVSRN1024	1024
CCVSRN2048	2048

Archive Server Options

License	Servers
CCVSRAS1	1

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Chapter 2

CCVSR Installation

Overview

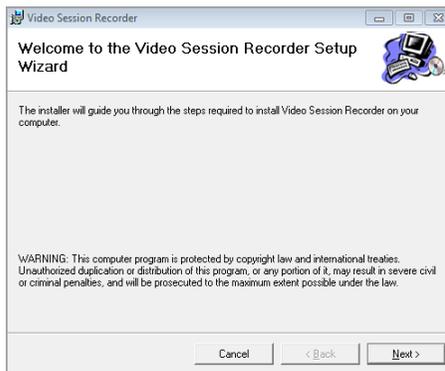
This chapter describes how to install the Video Session Recording Software (CCVSR) on a computer. The CCVSR application runs background services for the Video Session Recording Software to operate and is used to set basic server configurations. The CCVSR application must be running for the Video Session Recording Software's web browser features to work. To install the CCVSR software on a Linux server, see *Linux Installation*, page 99.

Installing the CCVSR Software

Starting the Installation

To install the CCVSR application on a Windows system, do the following:

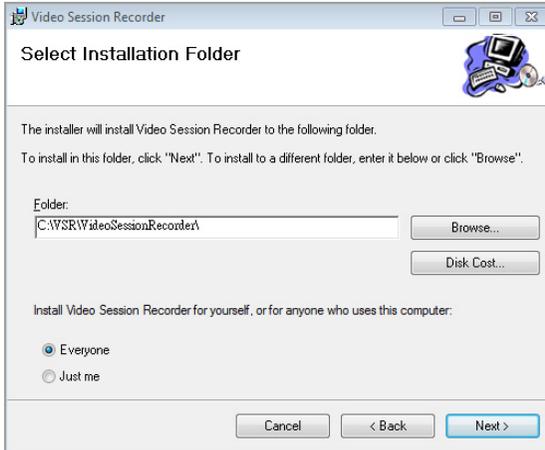
1. Put the CD that came with your package into the computer's CD drive.
2. Go to the folder where the *setup.exe* file is located, and execute it. A screen, similar to the one below, appears:



Click **Next** to continue.

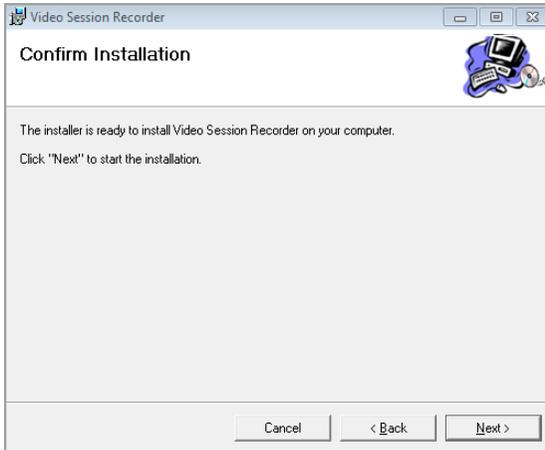
3. On the *Select Installation Folder* page, specify the installation folder, or click **Browse** to choose the location where you want to install it. Then choose if you want to install it for yourself (**Just me**), or for anyone who

uses this computer (**Everyone**). Click **Disk Cost** to view available drives and disk space.

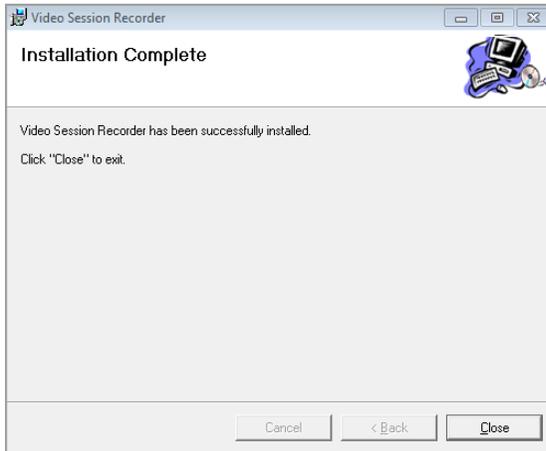


Click **Next** to continue.

4. The *Confirm Installation* window appears, click **Next** to continue:



5. When the installation is complete the following message will appear:



Licenses

Upon completion of the CCVSR software installation, a default license for one server is automatically provided. To add more Video Session Recording Softwares, you must upgrade the license. To upgrade the license, See *License*, page 19, for details. For License options See *Node Options*, page 9, for details.

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Chapter 3

The User Interface

Overview

The Video Session Recording Software's user interface is accessed via web browser and contains the main features and functions. This chapter explains how to login to the Video Session Recording Software and highlights the browser components.

Browser Login

The Video Session Recording Software is accessed via an Internet browser running on any platform. To access the Video Session Recording Software's browser interface, the CCVSR application must be started.

To access the Video Session Recording Software, do the following:

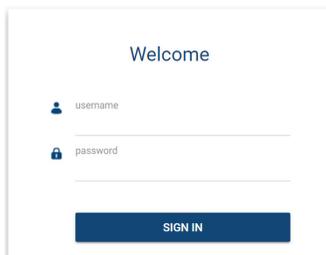
1. Open the browser and specify the IP address and service port of the Video Session Recording Software you want to access in the browser's location bar.

For example: `https://192.168.0.100:9443`

If you wish to log in locally, enter `https://127.0.0.1:9443` instead.

2. When a Security *Alert* dialog box appears, accept the certificate – it can be trusted. If a second certificate appears, accept it as well (see *Trusted Certificates*, page 100).

Once you accept the certificate(s), the login page appears:



The screenshot shows a login page with a white background and a light gray border. At the top center, the word "Welcome" is displayed in a blue font. Below it, there are two input fields: the first is labeled "username" with a small person icon to its left, and the second is labeled "password" with a small lock icon to its left. Both fields have horizontal lines indicating where to enter text. At the bottom center, there is a dark blue rectangular button with the text "SIGN IN" in white, uppercase letters.

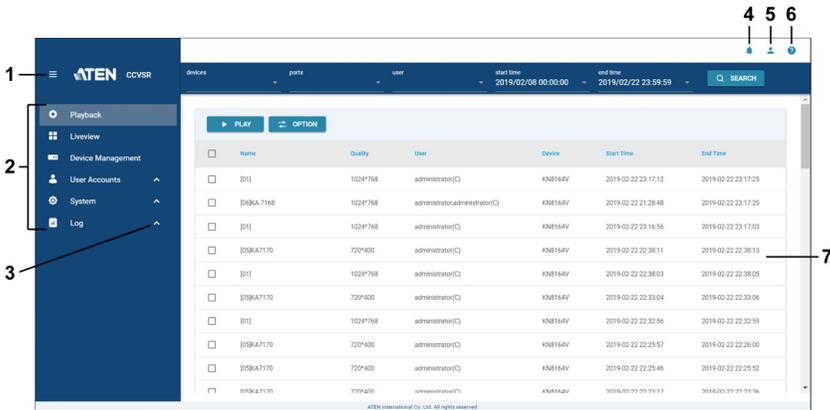
3. Provide your username and password, then click **Login** to bring up the Web Main Page.

Note: Since this is the first time you are logging in, use the default Username: *administrator*; and the default Password: *password*.

- If you are logging in for the first time, the system will prompt you to change the password.

The Web Browser Main Page

Once users login and are authenticated, the *Web Browser Main Page* comes up, with the *Playback* page displayed:



Note: The screen depicts a Super Administrator’s page. Depending on a user’s type and permissions, not all of these elements appear.

Page Components

The web page screen components are described in the table, below:

No.	Item	Description
1	Expand / Collapse Main Menu	Click this icon to expand or collapse main menu. The sub-menu can be accessed by clicking on their main operation categories.
2	Main Menu	Main Menu contains the Video Session Recording Software’s main operation categories. The items that appear here are determined by the user’s type, and the authorization options that were selected when the user’s account was created.

No.	Item	Description
3	Expand / Collapse Sub-Menu	The up/down arrow indicates that the operation categories can be expanded or collapsed into sub menus. Click the operation categories to expand/collapse into sub menus, which contains operational sub-categories of the Main Menu. The items that appear here are determined by the user's type, and the authorization options that were selected when the user's account was created.
4	Notification / Message Center (Super Administrator only)	<p>Click this icon for the notifications / messages of the system.</p> <p>Up to 50 notifications can be displayed here (use the scroll bar to scroll through the notifications).</p> <p>If there are unread notifications, a number will be shown above the notification icon. e.g. </p> <p>Click CLEAR ALL to clear the notifications / messages.</p> <p>Click VIEW LOGS to go to the system logs page.</p>
5	Personal	<p>Click this button for personal information and configurations.</p> <ul style="list-style-type: none"> ◆ Displayed information include the user's username and when the user last logged into the system. ◆ Preferences: Click this to configure personal preference settings. ◆ Change password: Click this to change the password. ◆ Log out: Click this log out of the current session of this user. <p>Refer to <i>Personal Configuration</i> on page 19 for more information.</p>
6	Help	<p>Click this button for Online help or About.</p> <p>Clicking Online help brings you to the online user manual.</p> <p>Clicking About displays the current firmware version.</p>
7	Interactive Display Panel	This is your main work area. The screens that appears reflects your menu choices.

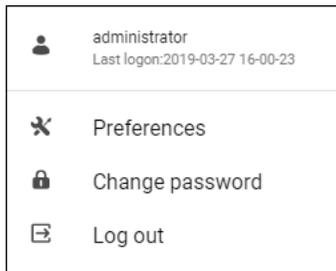
Main Menu

Main Menu is displayed differently for different user types (Super Administrator, Administrator, User) and permissions (assigned when the user account was created). The functions are explained in the table below:

Operation Item	Function
Playback	The Playback page is used to search and playback available video logs, and to monitor current browser sessions. Playback is discussed on page 21.
Liveview	The Liveview page allows the users to view live KVM ports feed. Liveview is discussed on page 29.
Device Management	The Device Management page is used to add KVM devices and configure the ports for recording video logs. This page is available to the Super Administrator, as well as administrators and users who have been given Device Management permission. The item does not appear for other administrators and users. The Device Management is discussed on page 35.
User Accounts	The User Accounts page is used to create and manage Users and Groups. It can also be used to assign devices to them. This item is available to the Super Administrator, as well as administrators and users who have been given User Management permission. The item doesn't appear for other administrators and users. User Accounts is discussed on page 41.
System	The Systems page is used to configure the Video Session Recording Software's system settings and to add secondary servers from the network. System is discussed on page 53.
Log	The Log page displays the contents of the log file. The Log page is discussed on page 79.

Personal Info / Configuration

On the top right-hand corner of the page, you can click the *Personal* icon (👤) for personal information and configurations:

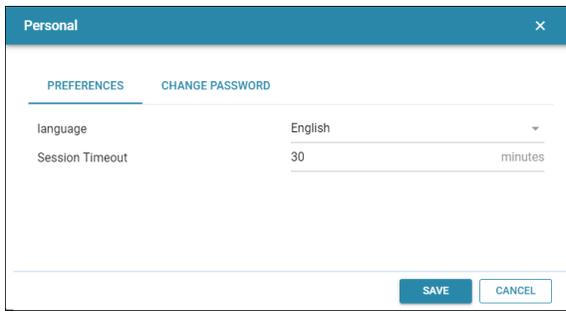


- ♦ The top section displays information including the user's username and when the user last logged into the system.
- ♦ Preferences: Click this to configure personal preference settings.
- ♦ Change password: Click this to change the password.
- ♦ Log out: Click this log out of the current session of this user.

Personal Configuration

Preference

Click *Preference* for the pop-up window shown below:



The screenshot shows a pop-up window titled "Personal" with a close button (X) in the top right corner. The window has two tabs: "PREFERENCES" (selected) and "CHANGE PASSWORD". Under the "PREFERENCES" tab, there are two settings: "language" set to "English" with a drop-down arrow, and "Session Timeout" set to "30" with "minutes" to its right. At the bottom right of the window are two buttons: "SAVE" and "CANCEL".

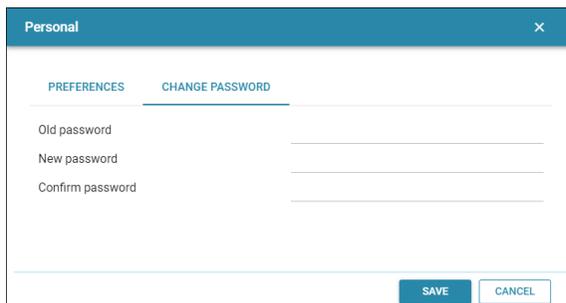
Language: Click the drop-down menu to select your preferred language.

Session Timeout: Enter a value for how long a user can stay logged into the system. Enter **0** if you wish to stay logged into the system until you manually log out.

Click *Save* to save the changes.

Change Password

Click *Change Password* for the pop-up window shown below:



The screenshot shows the same "Personal" pop-up window, but with the "CHANGE PASSWORD" tab selected. Under this tab, there are three input fields: "Old password", "New password", and "Confirm password". At the bottom right of the window are two buttons: "SAVE" and "CANCEL".

Enter the old password, new password and the new password again.

Click *Save* to save the changes.

Logout

Click *Log out* to logout of the system.

Chapter 4 Playback

Overview

The *Playback* page is used to search and play video log files. Before using the Playback function, you must first add a KVM device, see *Recording KVM Ports*, page 36 for details.

When you log into the Video Session Recording Software, you are automatically brought to this page.

On top of the page is a Search section, where it acts as a filter to help you quickly search for video logs.

Below the search section is the Video List section that shows the ports having recorded video logs.

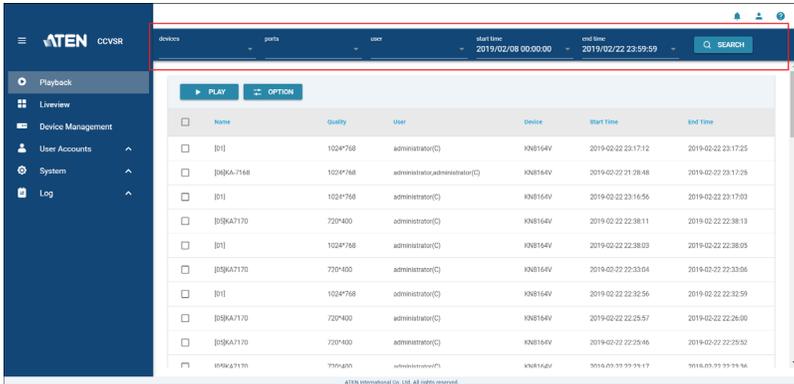
The screenshot shows the ATEN DCVSR Playback interface. At the top, there is a search section with a 'SEARCH' button and a search input field. Below this is a table of video logs. The table has columns for Name, Quality, User, Device, Start Time, and End Time. The table is highlighted with a red border, and the text 'Video List' is visible at the bottom right of the table area.

Name	Quality	User	Device	Start Time	End Time
[01]	1024*768	administrator(C)	KN8164V	2019-02-22 23:17:12	2019-02-22 23:17:25
[01]KA-7168	1024*768	administrator(C)	KN8164V	2019-02-22 21:28:48	2019-02-22 23:17:25
[01]	1024*768	administrator(C)	KN8164V	2019-02-22 23:16:56	2019-02-22 23:17:03
[01]KA7170	720*400	administrator(C)	KN8164V	2019-02-22 22:38:11	2019-02-22 22:38:13
[01]	1024*768	administrator(C)	KN8164V	2019-02-22 22:38:03	2019-02-22 22:38:05
[01]KA7170	720*400	administrator(C)	KN8164V	2019-02-22 22:33:04	2019-02-22 22:33:06
[01]	1024*768	administrator(C)	KN8164V	2019-02-22 22:32:56	2019-02-22 22:32:59
[01]KA7170	720*400	administrator(C)	KN8164V	2019-02-22 22:25:57	2019-02-22 22:26:00
[01]KA7170	720*400	administrator(C)	KN8164V	2019-02-22 22:25:46	2019-02-22 22:25:52
[01]KA7170	720*400	administrator(C)	KN8164V	2019-02-22 22:25:17	2019-02-22 22:25:22

Scroll through the list to find the desired video logs. You can also click the headings (port) name, (video) quality, user, device and time to sort the list into alphabetical order, quality from best to worst, etc. to help you find the desired video logs.

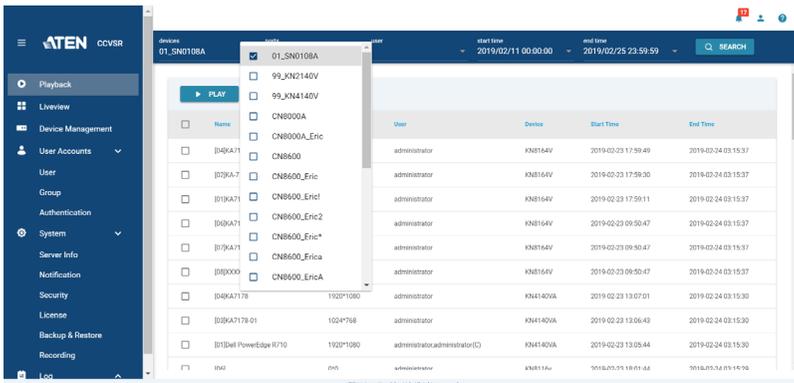
Search

On top of the page, a search section is displayed.



The *Search* function is used to find video logs by filtering the categories *Device Name*, *Port Name*, *User*, *Begin Time*, or *End Time*, *Port Name*. The *Begin Time* and *End Time* refers to when the recording took place.

To filter the *Video List*, fill in the categories by either 1) typing to enter the information, or 2) clicking the drop-down menu and check the item(s), followed by clicking *Search*. An example of checking an item in the drop-down menu is shown:



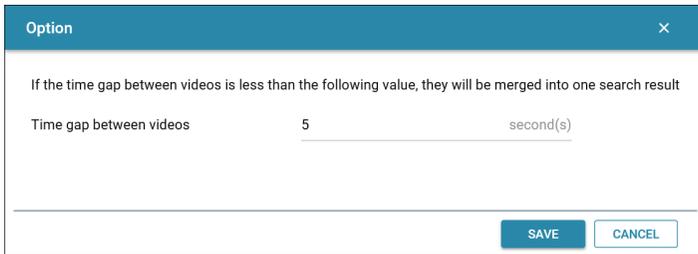
To remove the filters, uncheck the selected item and click **Search** again.

Play Video Log

To play a video log, select it from the *Video List*, then click the button *Play*. The video will open in a new window with the Video Log Viewer application. For information on the Video Log Viewer, see *VSR Viewer*, page 24.

Time Gap Option

Click *Option* for time gap setting.



The screenshot shows a dialog box titled "Option" with a close button (X) in the top right corner. The main text inside the dialog reads: "If the time gap between videos is less than the following value, they will be merged into one search result". Below this text, there is a label "Time gap between videos" followed by a text input field containing the number "5" and the unit "second(s)". At the bottom right of the dialog, there are two buttons: "SAVE" and "CANCEL".

This setting helps narrow down the scope of video search results by merging video clips if the time interval between two videos is less than the configured value.

For example, if you have the following video clips, and the time interval is 2 minutes:

Video #1: 15:59:06 - 15:59:35

Video #2: 16:00:12 - 16:10:12

Video #3: 16:18:29 - 16:19:25

The search result will be:

Video #1: 15:59:06 - 16:10:12

Video #2: 16:18:29 - 16:19:25

Enter a value between 0 and 3600 seconds. The default is 5 seconds.

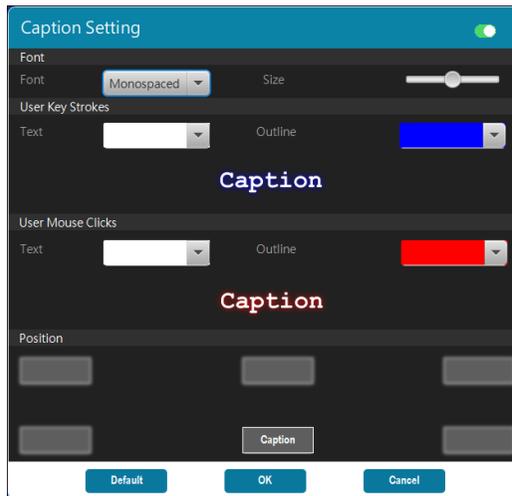
Icon	Function
	Pause: The <i>Pause</i> button is used to stop playback of a video log that is being played.
	Faster: The <i>Faster</i> button is used to increase the playback speed of a video log. You can increase the speed X2, X4, or X8 of the normal playback rate.
	Slower: The <i>Slower</i> button is used to decrease the playback speed of a video log. You can decrease the speed 1/2, 1/4, or 1/8 of the normal playback rate.
	Volume: Use the volume bar to adjust the volume. Click the speaker icon to mute/unmute the video.
	<p>Progress Bar: The <i>Progress bar</i> shows how far along you are while viewing video logs. When viewing multiple video logs using the <i>Play All</i> feature, a solid red line on the progress bar represents the end of one video log, and the start of the next.</p> <p>Placing your mouse over any part of the Progress bar will produce a pop-up display of the time and date when the video log was captured, allowing you to quickly locate and go to reference points.</p> <p>You can click and drag the progress button forward or back to advance to any point of the video, or click anywhere on the progress bar to advance to a particular point.</p>
	<p>Resize Window: Mouse over the edges of the viewer's window to see the resize mouse icon. Click and drag to resize the window. After doing so if the video doesn't fit within the resized window, you can scale the video using the <i>Scale Mode</i> feature (<i>see Scale Mode below</i>).</p> <p>Note: The entire window can be moved around the screen by holding a left click anywhere on the top window title bar.</p>

Icon	Function
	<p>Settings</p> <div data-bbox="459 178 746 373" style="border: 1px solid #ccc; padding: 5px; margin: 10px 0;"> <p>Scale Mode ▶</p> <p>Caption</p> <p><input type="checkbox"/> Repeat Play</p> <p>Language ▶</p> <p>Encoding ▶</p> </div> <p>Scale Mode: The <i>Scale Mode</i> icon allows you to change the video displays size in the Video Log Viewer's window. When you click the <i>Scale Mode</i> icon, three choices appear:</p> <ul style="list-style-type: none"> ◆ <i>Keep Video Size:</i> Keeps the video display scaled at the original default size. ◆ <i>Keep Video Ratio:</i> Keeps the video display ratio scaled to fit within the resized window. ◆ <i>Scale Video to Window:</i> Scales the video display to the size of the entire window. <p>Caption: Allows you to edit the captions settings. Refer to <i>Caption</i> on page 27 for more information.</p> <p>Repeat Play: Click to enable/disable playing this video log repeatedly. When the checkbox is checked, repeat play is enabled.</p> <p>Language: Allows you to select the preferred language.</p> <p>Encoding: Allows you to select the encoding method should there be any garbled content.</p>
	<p>Save Video: The <i>Save Video</i> icon allows you to save the current video log to a directory and encrypt it with a password.</p> <p>To save the video log, click Save Video, choose a directory, name the file, then click Save. After clicking <i>Save</i> the <i>Set Password</i> window will appear, enter a password for the video log file, or leave it blank for no password, then click OK.</p> <p>The video is saved as the .vls format. To open the video, please refer to <i>Open Video Log Files</i> on page 28.</p> <p>Note: Clicking <i>Cancel</i> at the <i>Set Password</i> prompt causes the save process to end and the file is not saved.</p>
	<p>Open Video: This icon is used to open previously saved video files. Click the icon, choose a video log file, then enter the password.</p>
	<p>Control Panel: When playing videos, in addition to the video image, the <i>Control Panel</i> shows the operations (mouse clicks and key-strokes), username, and IP address of the person logged into the computer, arranged in order of execution time. If multiple people are logged into the KVM port, the <i>Control Panel</i> will display the users, and who conducts each operation.</p> <p>Click the icon to bring up the <i>Control Panel</i> window, and use the Pin icon located at the top left corner to hold/release the open window.</p> <p>The <i>User List</i> displays the users logged into the KVM port at the time the video log was recorded.</p>

Icon	Function
	Full Screen: This icon expands the Video Log Viewer window to fit the the entire screen. To exit <i>Full Screen</i> mode, click the <i>Full Screen</i> icon again.

Caption

A settings menu will pop-up clicking this option as shown:



Settings	Description
Caption Setting	Click the on/off switch (top-right of menu window) to turn on/off the caption function
Font	
Font	Choose the font of the caption.
Size	Drag the slider to adjust the size of the caption.
User Key Stroke	
Text	Click the drop-down menu to choose the font color for key strokes.
Outline	Click the drop-down menu to choose the color of the font outline for key strokes.
User Mouse Clicks	
Text	Click the drop-down menu to choose the font color for mouse clicks.
Outline	Click the drop-down menu to choose the color of the font outline for mouse clicks.

Settings	Description
Position	Select where you would like to have the captions positioned by clicking one of the six position boxes.
Default	Click this button to reset to the default settings.

Open Video Log Files

Follow the steps below if you wish to play video log files on a computer without CCVSR access:

1. Save the video log file.
2. Save `JavaVLS.jar` from a computer with CCVSR (usually in the `C:\VSR\VideoSessionRecorder\webroot_rls` folder).
3. Provide the video log file and `JavaVLS.jar` to the computer without CCVSR access.
4. On that computer, open `JavaVLS.jar` for the VSR Viewer.
5. Click the open video icon  and select the video log file to play the video.

Chapter 5

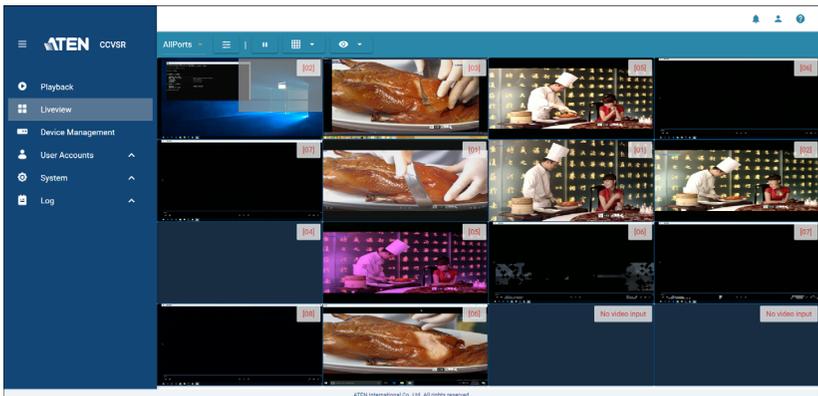
Liveview

Overview

The *Liveview* page allows the user to have a centralized liveview of a specific group of ports or select a particular port for liveview display.

Centralized Liveview

Clicking the *Liveview* brings you to the page shown below:



The page provides a centralized liveview of the available ports.

If you have setup a favorite, you may choose to only display the ports within the favorite. You may also choose to only display *Recording Only* ports. Refer to the sections below for more details.

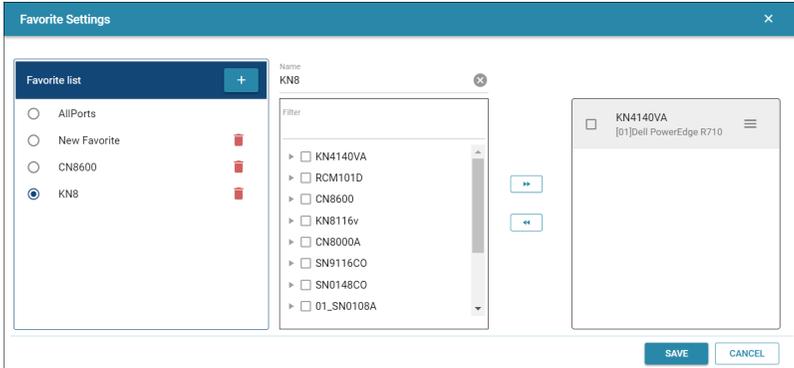
Display List

Clicking the display list drop-down menu will show the available lists. Initially, *AllPorts* is the only available option as all the ports will be shown in the centralized liveview.

If you have created favorite(s), the name of the favorite will also be shown in the drop-down menu.

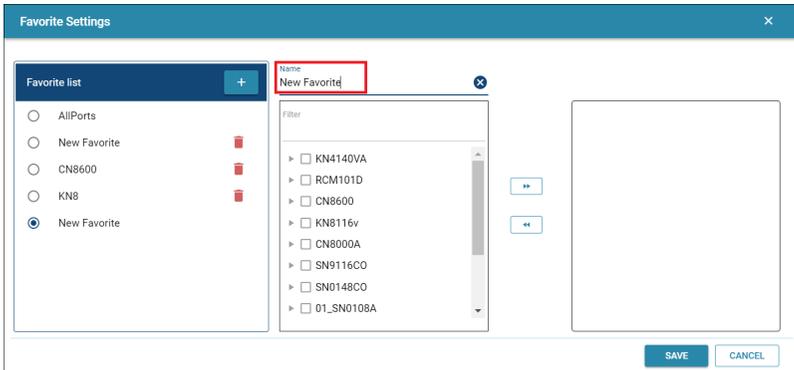
Favorite Setting

Clicking the  icon will bring you to *Favorite Settings*:



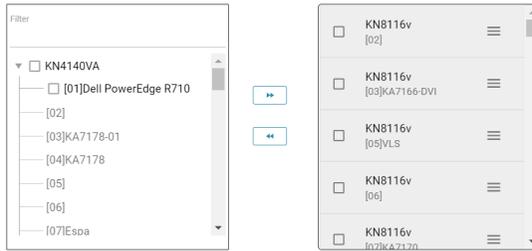
Create Favorite

1. To create a favorite, click the  icon.
2. The system will ask you to change the name of the favorite:



3. In the left panel, check the device checkbox that you wish to add to the favorite and click the  button. The device will be shifted to the right panel.

Click  for a device's ports if you wish to select the ports individually.



To remove a device or a port from the list, check the checkbox in the right panel and click the  button.

You may use the filter to refine your search.

On the right panel, you may also click and drag the devices/ports to rearrange the order of the added devices/ports.

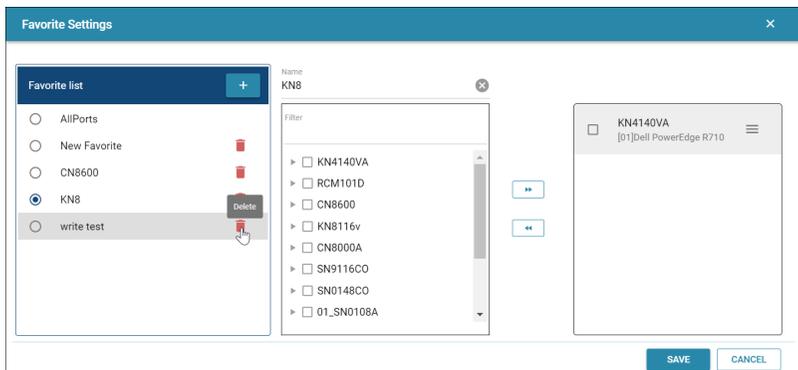
- When completed, click the *Save* button. Click the *Cancel* button to cancel the modification. The added favorite will be displayed in the *Favorite List* panel.

Modify Favorite

To modify the favorite, click the name of the favorite and modify as described in *Create Favorite* above.

Delete Favorite

To delete a favorite, click the  icon and click the *Save* button:

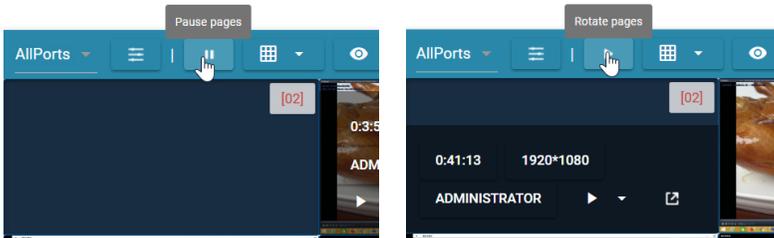


After setting up your favorite, clicking the display list drop-down menu will show the favorites in the list.

Select a favorite to only view ports in the favorite on the centralized view.

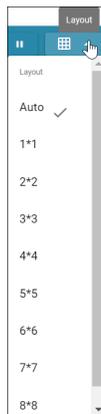
Rotate / Pause Pages

If the source ports exceed the number of display for a layout, CCVSR will automatically rotate through the displayed ports page by page. Click the  or  icons to respectively begin or pause the rotation.



Layout

You can change the layout of the centralized view by clicking the layout button  and select a desired layout choice.

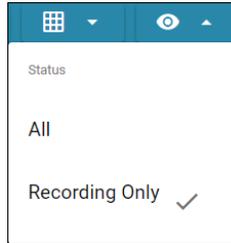


By default, Auto is selected. A range of options can be selected as shown in the diagram above.

Status

The status button is another filter that allows you to select whether to view all the ports or only the ports that are recording on the centralized view.

Click  for a drop-down menu and select between *All* or *Recording Only*:



Port Info / Playback / Liveview Function

Port information, playback and liveview function will appear when moving your mouse cursor over a port on the centralized view.



The labeled components are explained in the table below:

No.	Item	Description
1	Recorded time	This displays how long the port has been recorded for.
2	Resolution	This displays the resolution of the liveview.
3	Logged in Username	This displays the username of the user accessing the port. "Local console" is displayed when local console is accessed.

No.	Item	Description
4	Playback from	Click this for a drop-down menu. The option allows you to choose when you wish to play the video log from.
5	Open in new window	Click this if you wish to view this port in a new window. Refer to <i>Single Port Mode</i> on page 34.
6	Port No.	This displays the port number of the liveview.

Single Port Mode

Click the *Open in new window* icon to enter Single Port Mode.



The window also displays the *Recorded Time, Resolution, Logged in Username*.

Click  for full-screen mode. Press Esc to quit full-screen mode.

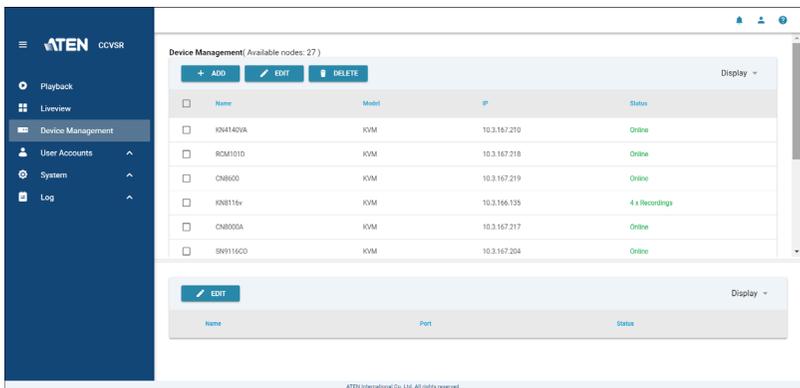
Click  to exit *Single Port Mode*.

Chapter 6

Device Management

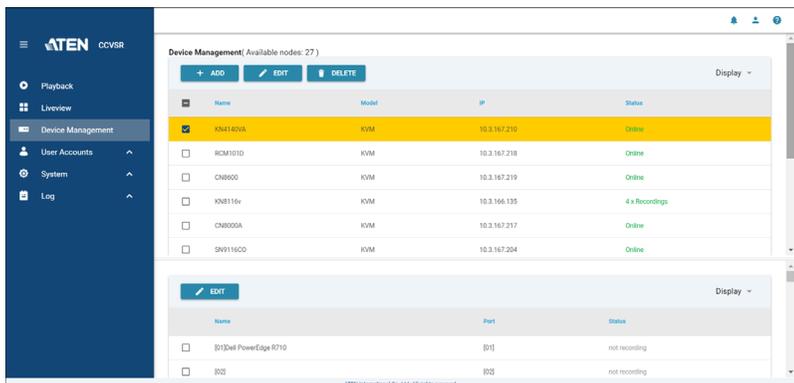
Overview

The purpose of the *Device Management* page is to add KVM devices and configure ports through which the Video Session Recording Software can record video logs. The Device Management page opens the main page showing a list of KVM devices that have been added:



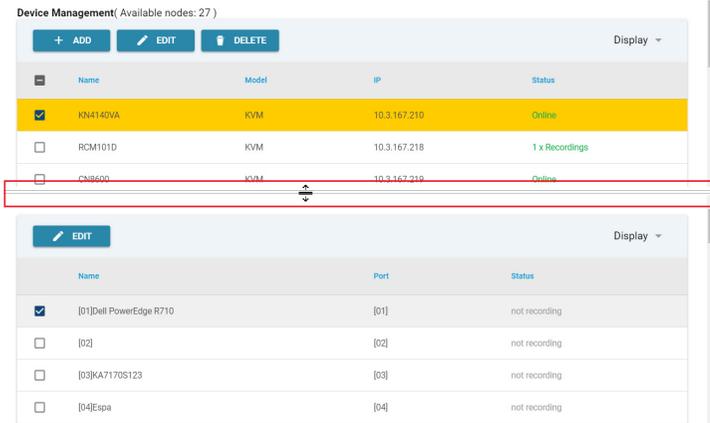
Port List

A port list is available on the lower half of the *Device Management* page. Checking a KVM device will display all the device's ports in the port list as shown:



Note: The port list will only display the ports of the highlighted checked device. From the example above, the port list will only display the ports of KN4140VA.

You can drag the window splitter up or down to show more ports in the list or you can use the scroll bar on the right.



The screenshot shows the 'Device Management' interface. At the top, it says '(Available nodes: 27)'. Below this are three buttons: '+ ADD', 'EDIT', and 'DELETE', along with a 'Display' dropdown menu. The main table has columns for Name, Model, IP, and Status. The first row, 'KN4140VA', is highlighted in yellow and has a checked checkbox. Below it are rows for 'RCM101D' and 'CN8600'. A red box highlights the bottom of the table and the top of the port list below. The port list has columns for Name, Port, and Status. The first row, '[01]Dell PowerEdge R710', is checked. Below it are rows for '[02]', '[03]KA7170S123', and '[04]Espa'.

Name	Model	IP	Status	
<input checked="" type="checkbox"/>	KN4140VA	KVM	10.3.167.210	Online
<input type="checkbox"/>	RCM101D	KVM	10.3.167.218	1 x Recordings
<input type="checkbox"/>	CN8600	KVM	10.3.167.218	Online

Name	Port	Status	
<input checked="" type="checkbox"/>	[01]Dell PowerEdge R710	[01]	not recording
<input type="checkbox"/>	[02]	[02]	not recording
<input type="checkbox"/>	[03]KA7170S123	[03]	not recording
<input type="checkbox"/>	[04]Espa	[04]	not recording

Recording KVM Ports

To record video logs you must add a KVM switch and configure its recording settings (in the *Recording* tab). Enabled ports are recorded by the Video Session Recording Software every time they are accessed through the KVM switch, and are saved as a video log file. Logs can be viewed from the *Playback* tab. As long as you are licensed (see *Licenses* on page 8) to do so, there is no limit to the number of KVM devices that you can add or ports you can enable. The Video Session Recording Software can simultaneously record a maximum of 20 ports at one time, across multiple KVM devices.

Display

Click *Display* (top right-hand corner) to select what information is shown in the list.

Adding KVM Devices

To add a KVM device to the *KVM Device* list, do the following:

1. On the KVM device go to *Device Management* to enable the **Log Server** and enter the **MAC Address** and **Service Port** of the computer running the Video Session Recording Software, as shown below:

Log Server

Enable

MAC Address:

Service Port:

2. On the *Device Management* page, click the **+ ADD** button.
A pop-up window appears:

Add
×

GENERAL **RECORDING**

IP address

Service Port

Note: Please make sure that the Log Server of the device ("Device Management">"ANMS") is enabled in advance.

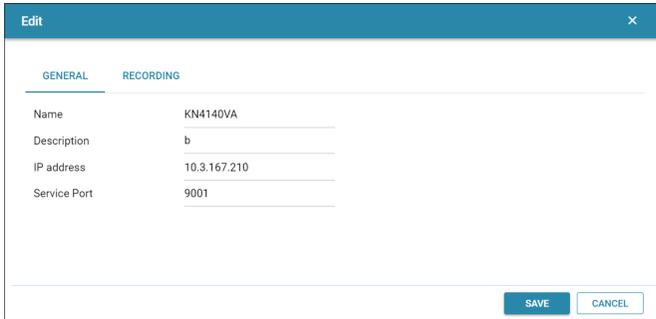
PREVIOUS
NEXT
CANCEL

3. Fill in the IP address and Service Port number of the KVM device you are adding, and click **Next**. The system will bring you to the *Recording* tab.
4. If you wish to enable recording of a port on the KVM device, click the drop-down menu and select “Enable (Video + Audio)” or “Enable (Video)”. For more information, please refer to *Enabling Video/Audio Recording* on page 39.
5. If you wish to enable recording on local console, check the checkbox and enter a time delay value in seconds (0-999) in the entry field.
6. Click *Add* to add the KVM device.
7. The KVM device will appear in the device list, and on the *Device Management* main page.

- Note:** 1. After adding a KVM device, check the *Status* column. If *Online* is shown, you have successfully added the device.
2. An *Offline* status indicates the KVM device can't be reached over the network. Check that the KVM device's IP address and Service Port numbers are correct, the KVM device is online and the Log Server has been enabled and configured with the correct MAC Address.
-

Edit KVM Devices

To edit the name, description, IP address, service port and recording options, check the checkbox of the KVM device and click the  button:

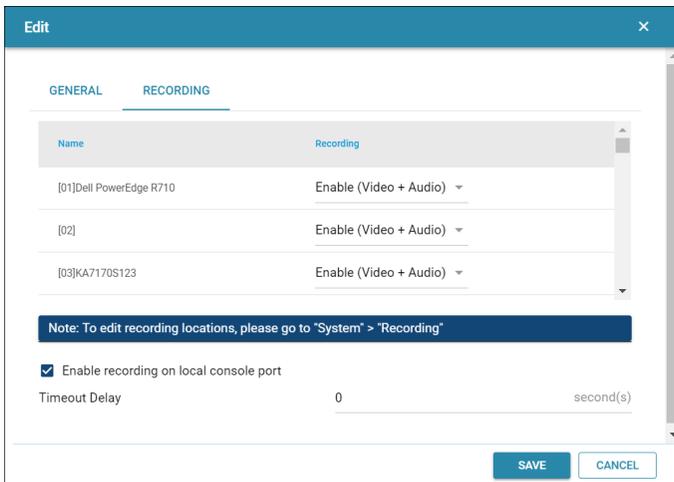


Edit	
GENERAL	
Name	KN4140VA
Description	b
IP address	10.3.167.210
Service Port	9001

Edit the options and click *Save* to save.

Recording

Click the *Recording* tab to edit recording options:



Edit	
RECORDING	
Name	Recording
[01]Dell PowerEdge R710	Enable (Video + Audio) ▾
[02]	Enable (Video + Audio) ▾
[03]KA7170S123	Enable (Video + Audio) ▾

Note: To edit recording locations, please go to "System" > "Recording"

Enable recording on local console port

Timeout Delay: 0 second(s)

Enabling Video/Audio Recording

To enable the ports of a KVM device to record video + audio or video only sessions, do the following:

1. Check the KVM device's checkbox.

2. Click the button for the edit pop-up menu.
3. Click the *Recording* tab.
4. Click the drop-down menu under the *Recording* column.
5. Select “Enable (Video + Audio)”, “Enable (Video)” or “Disable”.
6. Click *Save* to save.
7. The enabled ports will now record anytime they are accessed.

Enable Recording on Local Console Port

Devices added to the CCVSR may be access via local console ports. Check the checkbox to enable recording on the local console whenever they are accessed.

For CN8000A and CN8600, enter a time delay value in seconds (0-180) in the entry field. CCVSR will stop recording if there are no key stroke or mouse movement after the set time. If a **0** is entered here, CCVSR will record indefinitely.

Delete KVM Devices

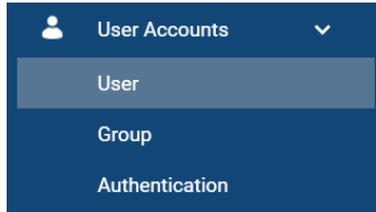
To delete a KVM device, check the checkbox of the KVM device and click the  button.

Chapter 7

User Accounts

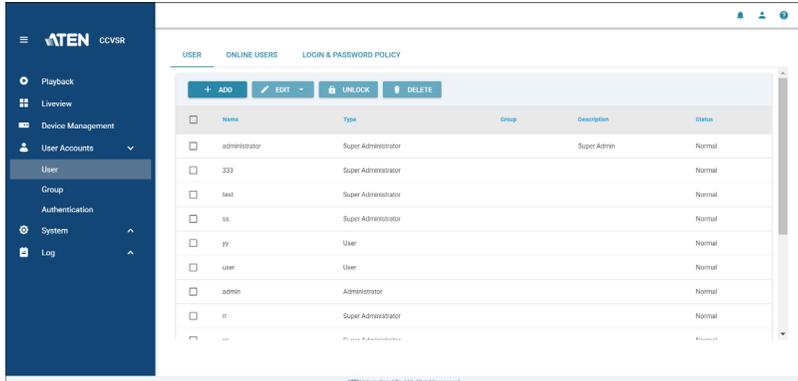
Overview

The User Account in the main menu expands into 3 sub-menus.



User

Below is the User sub-menu:



The main panel provides a more detailed user information at-a-glance.

The sort order of the information displayed can be changed by clicking the column headings.

The buttons on top of the main panel are used to manage users.

User Type

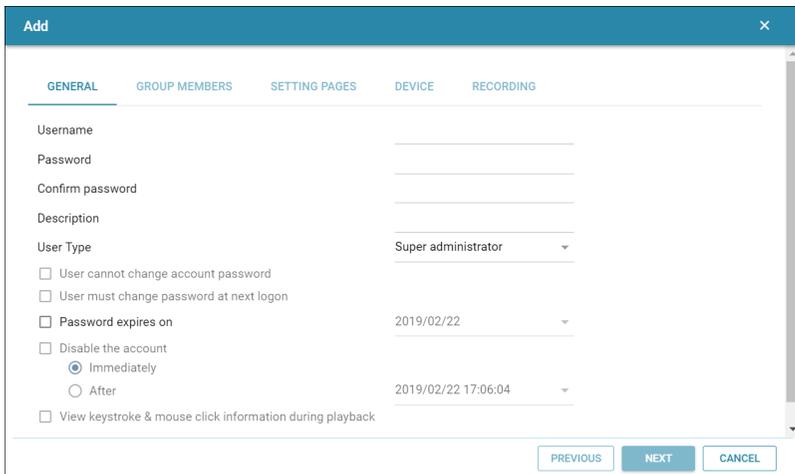
The Video Session Recording Software supports three types of users, as shown in the table, below:

User Type	Role
Super Administrator	Access and manage ports and devices. Manage Users, and Groups. Configure the overall installation. Configure personal working environment.
Administrator	Access and manage authorized ports and devices. Manage Users and Groups. Configure personal working environment.
User	Access authorized ports and devices. Manage authorized ports and devices; configure personal working environment. Note: Users who have been given permission to do so, may also manage other users.

Adding Users

To add a user, and assign user permissions, do the following:

1. Click the  button for the pop-up window below:



The screenshot shows a 'Add' user pop-up window with the following details:

- Header:** Add (with close button)
- Tabs:** GENERAL (selected), GROUP MEMBERS, SETTING PAGES, DEVICE, RECORDING
- Fields:**
 - Username: _____
 - Password: _____
 - Confirm password: _____
 - Description: _____
 - User Type: Super administrator (dropdown)
- Options:**
 - User cannot change account password
 - User must change password at next logon
 - Password expires on: 2019/02/22 (dropdown)
 - Disable the account
 - Immediately
 - After: 2019/02/22 17:06:04 (dropdown)
 - View keystroke & mouse click information during playback
- Buttons:** PREVIOUS, NEXT, CANCEL

2. Enter the required information in the appropriate fields. A description of each of the fields is given in the table below:

Field	Description
Username	1 to 16 characters are allowed depending on the Account Policy settings. <i>see For security purposes, we recommend that you change this string occasionally.</i> , page 65.
Password	0 to 16 characters are allowed depending on the Account Policy settings (see <i>Login & Password Policy</i> on page 47).
Confirm Password	To make sure there is no mistake in the password. The two entries must match.
Description	Additional information about the user that you may wish to include.
User Type	<p>There are three categories: Super Administrator, Administrator and User. There is no limitation on the number of accounts that can be created in each category.</p> <ul style="list-style-type: none"> ◆ The Super Administrator are granted the highest permissions, where you can view/configure Liveview, Playback, Device Management, User Accounts, System and Log. The Super Administrator's permissions (see page 44) are automatically assigned by the system and cannot be altered. ◆ The default permissions for Administrators include everything except User Accounts, but the permissions can be altered for each Administrator by checking or unchecking any of the permissions checkboxes. ◆ The default permissions for Users include Playback, but the permissions can be altered for each User by checking or unchecking any of the permissions checkboxes. <p>Note: Users who have been given User Account privileges cannot access or configure Groups.</p>

Field	Description
Account Condition	<p>Condition allows you to control the user's account and access to the system. Check the checkbox to add the conditions described below:</p> <ul style="list-style-type: none"> ◆ User cannot change account password: To make a password permanent, so that the user cannot change it to something else. Checking this will disable the next two conditions. ◆ User must change password at next logon: Checking this will disable the above condition. When this user changes the password, this option will be unchecked. ◆ Password expires on: Select a date for the condition. ◆ Disable the Account: lets you suspend a user's account without actually deleting it, so that it can be easily reinstated in the future. <ul style="list-style-type: none"> ◆ Immediately ◆ After: Select a date and time to disable the account. ◆ View Keystroke & mouse click information during playback.

3. If you selected the user to be a Super administrator, click add to add the user.

If you selected the user to be an Administrator or a User, the tabs *Group Member*, *Setting Pages*, *Device* and *Recording* may light up for you to configure. Continue configuring the user by clicking the lit tabs or *Next*.

4. **Group Members:** You can assign the new user to a group by selecting the *Group Members* tab, check the group you wish the user to be in and click *Next*.

Note:If the group you wish to assign to has not been created, refer to *Creating Groups* on page 48 to create a new group.

5. **Setting Pages:** You can assign permissions in this tab by checking the options and click *Next*.

Note:For ordinary users, in addition to enabling Device Management, the user must also be given those rights for each device that he will be allowed to manage.

- ◆ Enabling *Liveview* allows a user to use the liveview function (see *Liveview*, page 29).

- ◆ Enabling *Playback* allows a user to use the playback function (see *Playback*, page 21).
 - ◆ Enabling *Device Management* allows a user to view the settings and devices on the Device Management tab (see *Device Management*, page 35).
 - ◆ Enabling *User Accounts* allows a user to create, modify, and delete user and group accounts.
 - ◆ Enabling *Log* allows a user to access the system log (see *Logs*, page 79 for details)
 - ◆ Enabling *System* allows a user to access and configure settings in the System tab.
6. **Device:** You can assign the user's device access rights by selecting the *Device* tab, check the devices you wish to have access rights to and click *Next*.
 7. **Recording:** You can assign CCVSR configuration rights by selecting the *Recording* tab, check the CCVSR you wish the user to be able to configure and click *Next*.
 8. When your selections have been made click **Add**.

Modifying User

To modify a user account, do the following:

1. Check the checkbox of the user.
2. Click the  button and choose *Properties* or *Access right*.
3. **Properties:** Choosing *Properties* allows you to configure the general tab and group members tab.

Access right: Choosing *Access right* allows you to configure the setting pages tab, device tab and recording tab.

Refer to *Adding Users* on page 42 for more information.

4. Click *Save* when the modification is complete.

Deleting User

To delete a user account, do the following:

1. Check the checkbox of the user.
2. Click .

Note: If all users are deleted, the system will automatically generate the original administrator account and password (name: administrator, password: password).

Online Users

The *Online Users* tab lets super administrators see at a glance which super users are currently logged into the Video Session Recording Software, and provides information about each of their sessions.

USER		ONLINE USERS	LOGIN & PASSWORD POLICY		
DISCONNECT		REFRESH			
	Username	IP	Login time	Client	Category
<input type="checkbox"/>	administrator	192.168.1.1	2019/02/22 12:24:18	Web Browser	SA
<input type="checkbox"/>	administrator	192.168.1.1	2019/02/22 15:25:48	Web Browser	SA
<input type="checkbox"/>	administrator	192.168.1.1	2019/02/22 15:25:56	Web Browser	SA
<input type="checkbox"/>	administrator	192.168.1.1	2019/02/22 15:26:23	Web Browser	SA
<input type="checkbox"/>	administrator	192.168.1.1	2019/02/22 15:26:29	Web Browser	SA
<input type="checkbox"/>	administrator	192.168.1.1	2019/02/22 15:26:50	Web Browser	SA
<input type="checkbox"/>	writetest1	192.168.1.1	2019/02/22 16:15:51	Web Browser	Normal User

Note: 1. The Online User page is not available for Administrator or User user types.

2. The *Category* heading lists the type of user who has logged in: SA (Super Administrator); Admin (Administrator); Normal user (User).

The meanings of the headings at the top of the page are fairly straightforward. The *IP* heading refers to the IP address that the user has logged in from; the *Login Time* refers to the time the user logged into the Video Session Recording Software, and the *Client* heading refers to the client the user used to access the system.

- ◆ This page also gives the super administrator the option to disconnect a user from the system by selecting the user and clicking *DISCONNECT*.
- ◆ Click *Refresh* to refresh the list.

The sort order of the information displayed can be changed by clicking the column headings.

Login & Password Policy

In the Login & Password Policy tab, system administrators can set policies governing login, usernames and passwords.

Login Policy

Entry	Explanation
Only one user may log into the same account at any given time	Check this to prevent users from logging in with the same account at the same time.

Password Policy

Entry	Explanation
Minimum Username Length	Sets the minimum number of characters required for a username. Acceptable values are from 1–16. The default is 6.
Minimum Password Length	Sets the minimum number of characters required for a password. Acceptable values are from 0–16. A setting of 0 means that no password is required. The default is 6.
Password Must Contain At Least	Checking any of these items requires users to include at least one uppercase letter, one lowercase letter, one number in their password, or one special character. Note: This policy only affects user accounts created after this policy has been enabled, and password changes to existing user accounts. Users accounts created before this policy was enabled, with no change to the existing password, are not affected.
Enforce password history	When checked, you cannot use the same password when attempting to change the password. The number entered here is how many password changes the system will remember. The system will not let you change to the passwords it remembers.

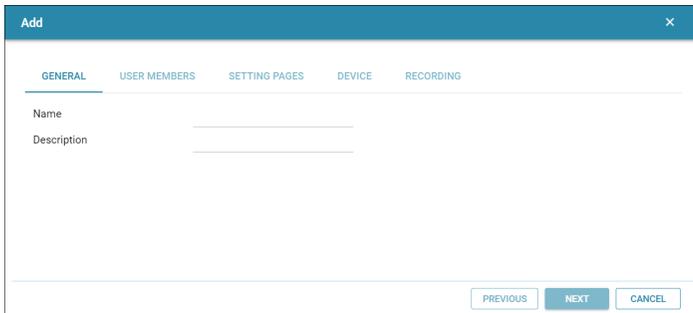
Group

Groups allow administrators to easily and efficiently manage users and devices. Since device access rights apply to anyone who is a member of the group, administrators need only set them once for the group, instead of having to set them for each user individually. Multiple groups can be defined to allow some users access to specific devices, while restricting other users from accessing them.

Creating Groups

To create a group, do the following:

1. Click the  button for the pop-up window below:



2. Enter the required information in the appropriate fields. A description of each of the fields is given in the table below:

Field	Description
Name	A maximum of 16 characters is allowed.
Description	Additional information about the user that you may wish to include. A maximum of 63 characters is allowed.

Click *Next* for the *User Members* tab.

3. **User Members:** You can assign users to the group by checking the members, check the members you wish the group to include and click *Next*.
4. **Setting Pages:** You can assign permissions in this tab by checking the options and click *Next*.
 - ◆ Enabling *Liveview* allows a user to use the liveview function (see *Liveview*, page 29).

- ◆ Enabling *Playback* allows users in the group to use the playback function (see *Playback*, page 21).
 - ◆ Enabling *Device Management* allows users in the group to view the settings and devices on the Device Management tab (see *Device Management*, page 35).
 - ◆ Enabling *User Accounts* allows users in the group to create, modify, and delete user and group accounts.
 - ◆ Enabling *Log* allows users in the group to access the system log (see *Logs*, page 79 for details).
 - ◆ Enabling *System* allows users in the group to access and configure settings in the System tab.
5. **Device:** You can assign the group's device access rights by selecting the *Device* tab, check the devices you wish to have access rights to and click *Next*.
 6. **Recording:** You can assign CCVSR configuration rights by selecting the *Recording* tab, check the CCVSR you wish the group to be able to configure and click *Next*.
 7. When your selections have been made click **Add**.

Modifying Groups

To modify a group, do the following:

1. Check the checkbox of the group.
2. Click the  button and choose *Properties* or *Access right*.
3. **Properties:** Choosing Properties allows you to configure the general tab and group members tab.

Access right: Choosing Access right allows you to configure the setting pages tab, device tab and recording tab.

Refer to *Creating Groups* on page 48 for more information.

4. Click *Save* when the modification is complete.

Deleting Groups

To delete a group, do the following:

1. Check the checkbox of the group.
2. Click .

Authentication

The Authentication sub-menu includes settings of AD/LDAP and RADIUS.

AD / LDAP Settings

To allow authentication and authorization for the Video Log Server via AD / LDAP, refer to the information in the table, below:

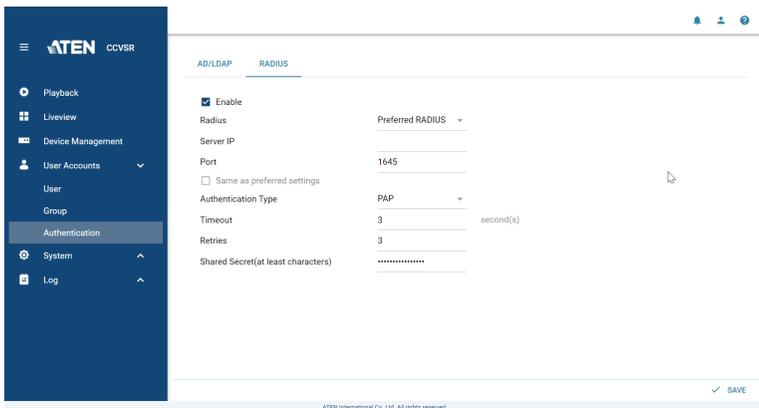
Item	Action
Enable	Check the Enable checkbox to allow AD / LDAP authentication and authorization.
LDAP Type	Click the drop-down menu to select Preferred or Alternate LDAP.
Server IP	Fill in the IP address, you can use the IPv4 address, the IPv6 address or the domain name in the LDAP Server field.
Port	Fill in the port number. Checking <i>Server requires secure connection (SSL)</i> , the default port number is 636. Otherwise, the default port number is 389.
Timeout	Set the time in seconds that the Video Log Server waits for a reply before it times out.
Admin DN	Consult the AD / LDAP administrator to ascertain the appropriate entry for this field. For example, the entry might look like this: ou=kn4132,dc=aten,dc=com
Admin Name	Key in the LDAP administrator's username.
Password	Key in the LDAP administrator's password.
Search DN	Set the distinguished name of the search base. This is the domain name where the search starts for user names.

Click *Save* on the bottom right-hand corner of the window to save the configuration.

On the AD / LDAP server, users can be authenticated with any of the following methods:

- ◆ With MS Active Directory schema.
- ◆ Without schema – Only the Usernames used on the Video Log Server are matched to the names on the LDAP / LDAPS server. User privileges are the same as the ones configured on the switch.
- ◆ Without schema – Only Groups in AD are matched. User privileges are the ones configured for the groups he belongs to on the switch.
- ◆ Without schema – Usernames and Groups in AD are matched. User privileges are the ones configured for the User and the Groups he belongs to on the switch.

RADIUS Settings



To allow authentication and authorization for the Video Log Server through a RADIUS server, do the following:

1. Check **Enable**.
2. Select *Preferred RADIUS* or *Alternate RADIUS* from the drop-down menu.
3. Fill in the IP addresses and service port numbers. You can use the IPv4 address, the IPv6 address or the domain name in the IP fields.
4. Select *PAP* or *CHAP* from the drop-down menu for Authentication Type.

5. In the *Timeout* field, set the time in seconds that the Video Log Server waits for a RADIUS server reply before it times out.
6. In the *Retries* field, set the number of allowed RADIUS retries.
7. In the *Shared Secret* field, key in the character string that you want to use for authentication between the Video Log Server and the RADIUS Server. A minimum of 6 characters is required.
8. Click *Save* on the bottom right-hand corner of the window to save the configuration.

On the RADIUS server, Users can be authenticated with any of the following methods:

- ◆ Set the entry for the user as **su/xxxx**
- ◆ Where *xxxx* represents the Username given to the user when the account was created on the Video Log Server.
- ◆ Use the same Username on both the RADIUS server and the Video Log Server.
- ◆ Use the same Group name on both the RADIUS server and the Video Log Server.
- ◆ Use the same Username/Group name on both the RADIUS server and the Video Log Server.

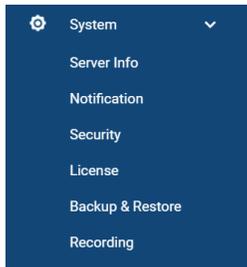
In each case, the user's access rights are the ones assigned that were assigned when the User or Group was created on the Video Log Server. (See *Adding Users*, page 42.)

Chapter 8

System

Overview

The System page is used to view and manage the CCVSR's system settings. Clicking *System* will expand/collapse its sub-menu:



Server Info

Clicking *Server Info* sub-menu will bring you to the page below:

SERVER INFO

Server Information

Name _____

Description _____

Role Primary

IPv4 address _____

IPv6 address _____

MAC address _____

Server Port Settings

HTTP 80

HTTPS 443

CCVSR 9002 ❗

Archive Server Settings

Address _____

Port _____

Server Type ❗

Role Primary ▼

Misc.

Disable keystroke recording

Server Information

Item	Meaning
Name	Displays the computer name of the server hosting the CCVSR application.
Description	Displays the description of the server. You may modify the information here.
Role	Displays the role of the server.
IPv4 Address	Displays the CCVSR's IPv4 address.
IPV6 Address	Displays the CCVSR's IPV6 address.
Server MAC	Displays the MAC address of the computer hosting the CCVSR application.

Server Port Settings

This is used to specify the service ports used to access the CCVSR:

Item	Meaning
HTTP	The port number for a browser login. The default is 9080.
HTTPS	The port number for a secure browser login. The default is 9443.
CCVSR	This is the port number for communication between a CCVSR Primary Server and Secondary Servers. The default is 9002.

As a security measure, if a firewall is being used, the Administrator can specify the port numbers that the firewall will allow. If a port other than the default is used, users must specify the port number as part of the IP address when they log in. If an invalid port number (or no port number) is specified, the CCVSR will not be found.

For Example: To access the CCVSR with an IP address of 192.168.0.100, using a secure browser login (https), enter:

https://192.168.0.100:9443

-
- Note:**
1. Valid entries for all of the Service Ports are from 1–65535.
 2. Service ports cannot have the same value. You must set a different value for each one.
 3. If there is no firewall (on an Intranet, for example), it does not matter what these numbers are set to since they have no effect.
-

Archive Server Settings

If you have installed a CCVSR Archive Server, input the IP Address and Port number of the computer hosting the software. For more information on configuring the Archive Server see *CCVSR Archive Server*, page 85, for details.

Server Type

You can change the role of the server here. Select *Primary* or *Secondary* using the drop-down menu. **Primary Server**

Select *Primary Server* for a computer that is running as the main Video Session Recording Software. This computer will host and manage all aspects of the Video Session Recording Software, and can add computers running as *Secondary Servers* for extended storage of video log files.

Secondary Server

Select *Secondary Server* if the computer is being used as a storage for video log files from the *Primary Server* and they do not support any system management functions such as settings configuration, device management, and user management.

As a *Secondary Server*, one of its functions is to store video log files for the *Primary Server*. If you choose this option, provide the following information:

Server Address: enter the IP address of a computer running the *Primary* Video Session Recording Software.

Service Ports: in the *Server Port Settings* above, enter the CCVSR / HTTP / HTTPS service port numbers of the *Primary Server*. The default service ports are 9002 / 9080 / 9443. Additional information about service ports is provided in *Server Port Settings* on page 55.

The Secondary Server must be added to the *Primary Server* in order to work. See *Recording*, page 73, for details.

When you log in locally (<https://127.0.0.1:9443>) after changing the server to a secondary server, only the *Server Info* sub-menu is shown.

When the primary server fails, one of the secondary servers will act as a redundant server to make sure that the service is always available. In this case, this secondary server will have access to viewing the management settings. The other secondary servers in your setup will still act as storages. Once the primary server is back online, the redundant server will resume to its original role as a storage server. If the primary server is broken down permanently, administrators can change a secondary server to a primary server from the local management webpage (<https://127.0.0.1:9443>).

Note: If you try to enter the secondary server using its IP address (e.g. <https://192.168.0.100:9443>), the system will automatically direct you to the primary server.

Misc

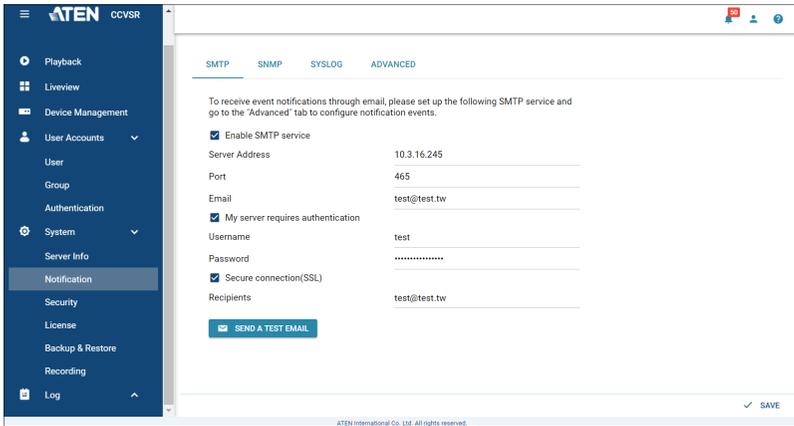
Check the checkbox to disable keystroke recording.

If you modified any of the settings here, you can click *Save* on the bottom right-hand corner of the window to save the configuration.

Notification

The notification page allows you to setup notification methods.

SMTP



To have the CCVSR email reports from the SMTP server to you, do the following:

1. Enable the *Enable SMTP service*, and key in either the IPv4 address, IPv6 address, or domain name of the SMTP server.
2. Key in the SMTP port.
3. Key in the email address of where the report is being sent from in the *Email* field.

Note:

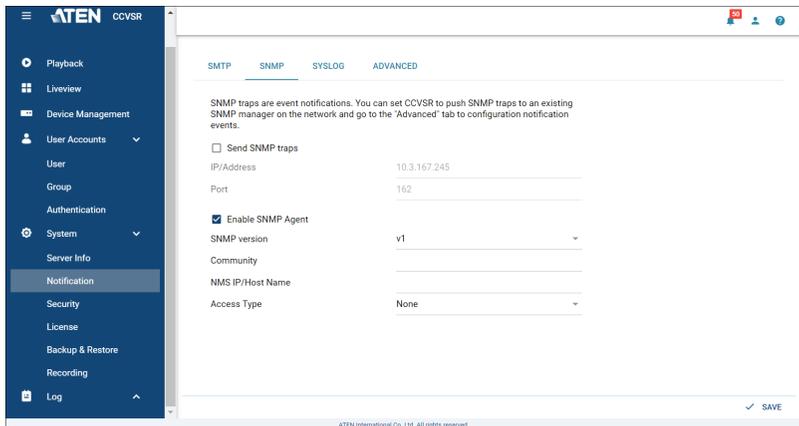
1. Only one email address is allowed in the *Email* field, and it cannot exceed 64 Bytes.
 2. 1 Byte = 1 English alphanumeric character.
-
4. If your server requires authentication, check the *My server requires authentication* checkbox, and key in the appropriate account information in the *Username* and *Password* fields.
 5. If your server requires a secure SSL connection, check the *Secure connection (SSL)* checkbox.

6. Key in the email address of where the report is being sent to in the *Recipients* field.

Note: If you are sending the report to more than one email address, separate the addresses with a semicolon “;”. The total cannot exceed 256 Bytes

7. Click *Save* on the bottom right-hand corner of the window to save the configuration.

SNMP Server



To be notified of SNMP trap events, do the following:

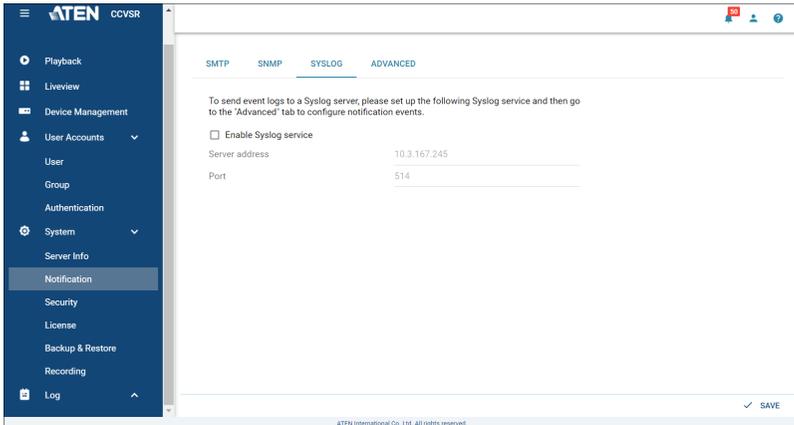
1. Check *Send SNMP traps*.
2. Key in either the IPv4 address, IPv6 address, or domain name of the computer to be notified of SNMP trap events.
3. Key in the port number. The valid port range is 1–65535.

Note: The logs that are notified of SNMP trap events are configured on the Notification Settings page under the *Log* tab. See *Advanced (Notification)*, page 61 for details.

4. Check *Enable SNMP Agent*.
5. Select SNMP version by clicking the drop-down menu.
6. Key in the community value(s) if required for the SNMP version.

7. Enter the NMS IP/Host Name.
8. Select Access Type by clicking the drop-down menu.
9. Click *Save* on the bottom right-hand corner of the window to save the configuration.

Syslog Server

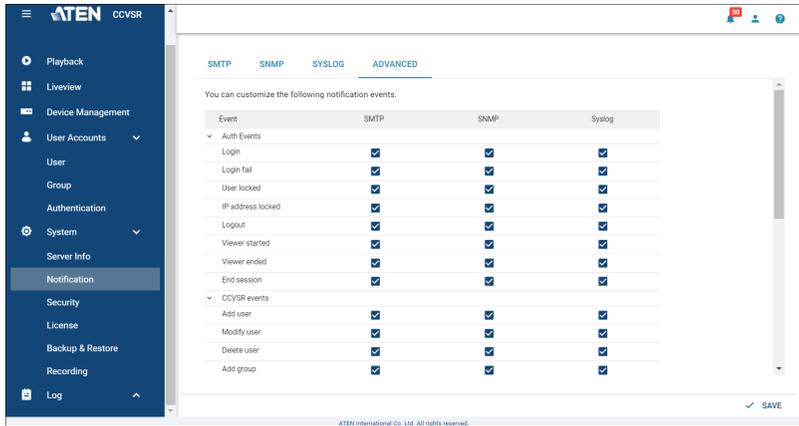


To record all the events that take place on the CCVSR and write them to a Syslog server, do the following:

1. Check *Enable Syslog service*.
2. Key in either the IPv4 address, IPv6 address, or domain name of the Syslog server.
3. Key in the port number. The valid port range is 1-65535.
4. Click *Save* on the bottom right-hand corner of the window to save the configuration.

Advanced (Notification)

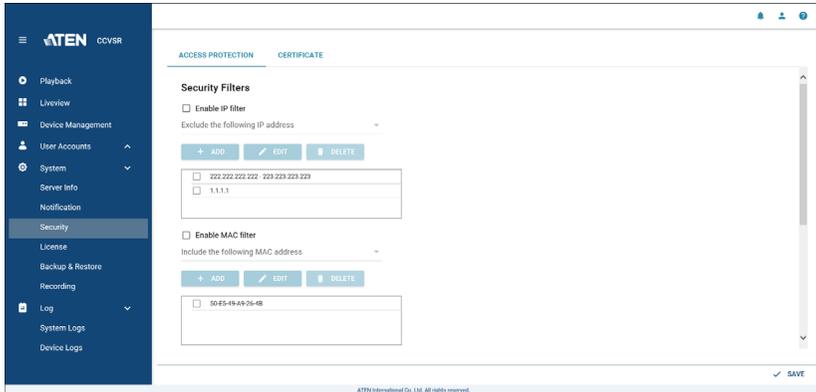
The *Advanced (Notification)* page lets you decide which events trigger a notification, and how the notifications are sent out:



Notifications can be sent via SNMP trap, SMTP email, written to the SysLog file, or any combination of the three. A check mark indicates that notification of the event is permitted for the method specified in the column heading. An empty box indicates that notification is not restricted.

Security

The Security sub-menu includes 2 tabs.



Access Protection

IP / MAC Filtering

IP / MAC filters control access to the Video Session Recording Software based on the IP / MAC addresses of the client computers attempting to connect. A maximum of 100 IP or MAC filters are allowed. If any filters have been configured, they appear in the IP Filter list box.

To enable and add IP / MAC filtering,

1. Check the *Enable IP Filter* or *Enable MAC Filter* checkbox.
2. Select between *Exclude the following IP/MAC address* or *Include the following IP/MAC address* from the drop-down menu.
3. Click the **+ ADD** button.

A pop-up window appears:

Add×

Please enter a specific IP address or IP range

Specific IP IP range

0.0.0.0

SAVE
CANCEL

Add×

Please enter a specific MAC address

00-00-00-00-00-00

SAVE
CANCEL

4. For IP filter, select between *Specific IP* and *IP range*.
For MAC filter, enter the MAC address.
5. For specific IP, enter the IP. For IP range, enter the first IP of the IP range in the first field and the second IP in the second field.
6. Repeat these steps for any additional IP / MAC addresses you want to filter.
7. Click *Save*.

To edit IP / MAC filtering, check an IP / IP range / MAC address and click the  button. Configure as described in page 62.

To delete IP / MAC filtering, check an IP / IP range / MAC address and click the  button..

♦ IP Filter / MAC Filter Conflict

If there is a conflict between an IP filter and a MAC filter – in other words, if a computer’s address is allowed by one filter but blocked by the other – then the blocking filter takes precedence (the computer’s access is blocked).

Lockout Policy

For increased security, the lockout policy section allows administrators to set policies governing what happens when a user fails to log in successfully.

Lockout Policy

- Lockout users after invalid login attempts

Maximum login failures	2
Timeout	5
- Lock client PC
- Lock User Account

To set the lockout policy, check *Lockout users after invalid login attempts* (the default is for Login Failures to be enabled). The meanings of the entries are explained below.

Entry	Explanation
Maximum login failures	Sets the number of consecutive failed login attempts that are permitted from a remote computer. The default is 5 times.
Timeout	Sets the amount of time a remote computer must wait before attempting to login again after it has exceeded the number of allowed failures. The default is 3 minutes.

Entry	Explanation
Lock Client PC	If this is enabled (checked), after the allowed number of failures have been exceeded, the computer attempting to log in is automatically locked out. No logins from that computer will be accepted. The default is enabled. Note: This function relates to the client computer's IP. If the IP is changed, the computer will no longer be locked out.
Lock Account	If this is enabled (checked), after the allowed number of failures have been exceeded, the user attempting to log in is automatically locked out. No logins from the username and password that have failed will be accepted. The default is enabled.

Note: If lockout policy is not enabled, users can attempt to log in an unlimited number of times with no restrictions. For security purposes, we recommend that you enable this function and enable the lockout policies.

Block List: Clicking this button will bring out a window. The window includes the locked accounts.



To unlock the accounts, check the IP address and click the *Unlock* button.

Login String

The *Login String* entry field lets the administrator specify a login string (in addition to the IP address) that users must add to the IP address when they access the Video Session Recorder with a browser.

For example, if *192.168.0.126* were the IP address, and *atencvsvr* were the login string, then the user would have to key in:

```
192.168.0.126:9443/atencvsvr
```

- Note:** 1. Users must place a forward slash between the IP address and the string.
2. If no login string is specified here, anyone will be able to access the Video Session Recorder login page using the IP address alone. This makes your installation less secure.

The following characters are allowed in the string:

0-9 a-z A-Z ~ ! @ \$ & * () _ - = + [] .

The following characters are not allowed:

% ^ ” : / ? # \ ‘ { } ; ’ < > [Space]

Compound characters (É Ç ñ ... etc.)

For security purposes, we recommend that you change this string occasionally.

Click *Save* on the bottom right-hand corner of the window to save the configuration.

Certificate

You can import a private certificate or signed certificates from a third-party certificate authority for secure SSL service such as a web connection (https) certificate.

Subject: C=TW,ST=New Taipei City,L=Sijihh District,O=ATEN INTERNATIONAL CO.,LTD.,OU=R&D,CN=ATEN INTERNATIONAL CO.,LTD.,emailAddress=eservice@aten.com.tw
 Issuer: C=TW,ST=New Taipei City,L=Sijihh District,O=ATEN INTERNATIONAL CO.,LTD.,OU=R&D,CN=ATEN INTERNATIONAL CO.,LTD.,emailAddress=eservice@aten.com.tw
 Validity period: Apr 10 06:55:07 2019 GMT to Apr 10 06:55:07 2029 GMT
 Serial number: 48457659295397182148
 SHA-1 thumbprint: 1457C37646C7C5859E065629733C1660BF8A486E

Private Certificate

Private Key
0 (0.0 B) +

Certificate
0 (0.0 B) +

Certificate Signing Request

Certificate
0 (0.0 B) +

Private Certificate

When logging in over a secure (SSL) connection, a signed certificate is used to verify that the user is logging into the intended site. For enhanced security, the *Certificate* section allows you to use your own private encryption key and signed certificate, rather than the default ATEN certificate.

There are two methods for establishing your private certificate: generating a self-signed certificate; and importing a third-party certificate authority (CA) signed certificate.

- ◆ **Generating a Self-Signed Certificate**

If you wish to create your own self-signed certificate, a free utility – `openssl.exe` – is available for download over the web. See *Self-Signed Private Certificates*, page 101 for details about using OpenSSL to generate your own private key and SSL certificate.

- ◆ **Obtaining a CA Signed SSL Server Certificate**

For the greatest security, we recommend using a third party certificate authority (CA) signed certificate. To obtain a third party signed certificate, go to a CA (Certificate Authority) website to apply for an SSL certificate. After the CA sends you the certificate and private encryption key, save them to a convenient location on your computer.

- ◆ **Importing the Private Certificate**

To import the private certificate, do the following:

1. Click **+** to the right of *Private Key*; browse to where your private encryption key file is located; and select it.
2. Click **+** to the right of *Certificate*; browse to where your certificate file is located; and select it.
3. Click **Upload** to complete the procedure.

Note: 1. Clicking **Restore Default** returns the device to using the default ATEN certificate.

2. Both the private encryption key and the signed certificate must be imported at the same time.
-

Certificate Signing Request

The Certificate Signing Request (CSR) section provides an automated way of obtaining and installing a CA signed SSL server certificate.

To perform this operation do the following:

1. Click **Create CSR**. The following dialog box appears:

2. Fill in the form – with entries that are valid for your site – according to the example information in the following table:

Information	Example
Country (2 letter code)	TW
State or Province	Taiwan
Locality	Taipei
Organization	Your Company, Ltd.
Unit	Tech Department
Common Name	mycompany.com Note: This must be the exact domain name of the site that you want the certificate to be valid for. If the site's domain name is <i>www.mycompany.com</i> , and you only specify <i>mycompany.com</i> , the certificate will not be valid.
Email Address	administrator@yourcompany.com

3. After filling in the form (all fields are required), click **Create**.
A self-signed certificate based on the information you just provided is now stored on the CCVSR.
4. Click Get CSR, and save the certificate file (*csr.cer*) to a convenient location on your computer.

This is the file that you give to the third party CA to apply for their signed SSL certificate.

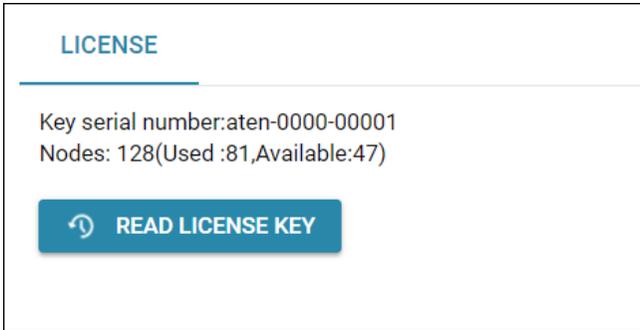
5. After the CA sends you the certificate, save it to a convenient location on your computer. Click **+** to locate the file; then click **Upload** to store it on the CCVSR.

Note: When you upload the file, the CCVSR checks the file to make sure the specified information still matches. If it does, the file is accepted; if not, it is rejected.

If you want to remove the certificate (to replace it with a new one because of a domain name change, for example), simply click **Remove**.

License

The License tab is used to upgrade your software and add server licenses.



Upgrading the License

The license controls the total number of purchased **Nodes**, used and available **Nodes** permitted with your Video Session Recording Software installation. The license information is contained on the USB License Key that came with your purchase.

Upon completion of the CCVSR software installation, a default license for one primary server is automatically provided. To add more CCVSR nodes, you must upgrade the license.

To upgrade the license:

1. Use the USB key that came with your package or contact your dealer to obtain a new license key for the number of primary and/or secondary servers you want to add.
2. Insert the license key into a USB port on your Video Session Recording Software.
3. Login to the CCVSR application, and from the License tab click **Read License Key**.

You can now install and use additional CCVSRs (per the number of licenses purchased), which will communicate and work in conjunction over a network.

Note: 1. Once the upgrade has completed, it is no longer necessary to keep the key plugged into the USB port. Remove the key and place it somewhere safe, since you will need it for future upgrades.

- 2. If you lose the USB license key, contact your dealer to obtain another one. If you supply the key's serial number the new key will contain all of the information that was stored on the lost key.
-

Backup & Restore

The *Backup & Restore* page is used to *Backup* and *Restore* system configuration settings and user account information to/from a file or system created *Checkpoint*. There are two sections:

Backup

To create a backup file, click *Backup* to save the file. A window will pop-up to ask you to enter a password.

Leave the *Password* field blank if you do not want to use a password. Press *OK* to backup the system configuration. The saved data file contains the current system configuration and all user account information.

Restore

To restore data,

1. Select where you are restoring the configurations from by selecting from the drop-down menu. Select between *Restore from a backed-up file* or *Restore from a checkpoint*.
2. For back-up file, click **+** and select a file.

For checkpoint, select the checkpoint from the checkpoint list.

3. Click Restore.

Recording

This page allows you to select the destinations (Primary Server, Secondary Servers, or shared network folder) and you wish to store the video log files. *Secondary CCVSR Servers* are also used to save video log files on alternative computers in order to consolidate disk space across different computers. To configure a secondary computer to work as a *Secondary CCVSR Server*, see *Server Type*, page 56 for details. When you select *Recording*, the following screen appears:

The screenshot displays the 'RECORDING' configuration page in the ATEN CCVSR interface. The left sidebar contains a navigation menu with options like Playback, Liveview, Device Management, User Accounts, System, Server Info, Notification, Security, License, Backup & Restore, Recording, Log, System Logs, and Device Logs. The main content area features a warning message: 'The recorded videos are saved in the following locations. Please note that for proper system operations, at least one partition with more than 4GB recording quota in the primary and secondary servers should be reserved and its recording enabled.' Below this, there are buttons for '+ ADD', 'EDIT', 'DELETE', and 'OPTION'. A table lists recording locations with columns for Location, Capacity (Free / Total), Recording Quota, and Status. One location is listed: 3700F13814, with a status of Online. The footer of the page reads 'ATEN International Co., Ltd. All rights reserved.'

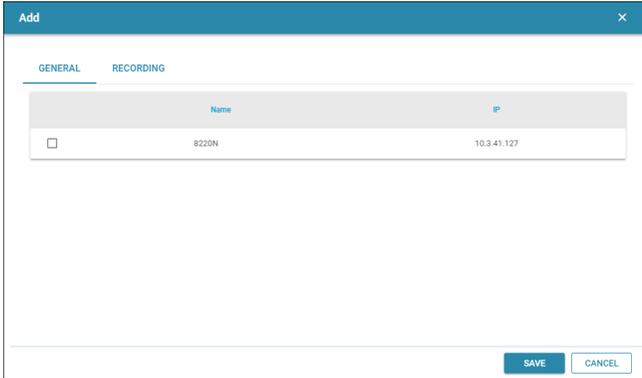
From the *Recording* menu page you can:

- ◆ *Add* or *Delete* CCVSR Servers
- ◆ *Add* or *Delete* Network shared folder
- ◆ *Enable* or *Disable* recording locations
- ◆ Set retention policy for video log files

Adding Secondary CCVSR Servers

The Secondary CCVSR Server you are adding must be on a computer available over the network. To add a CCVSR Server, do the following:

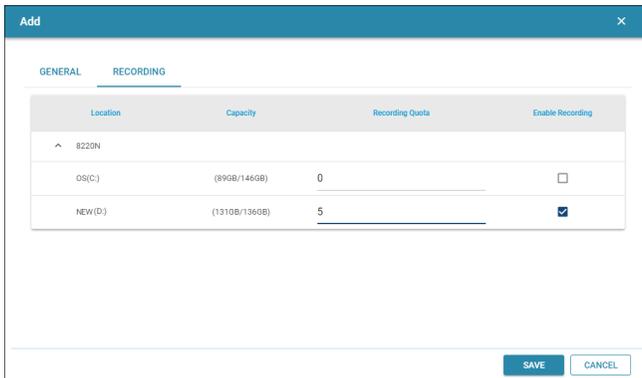
1. Click *Add*.
2. A pop-up screen appears to bring you to the *General* tab:



The screenshot shows a dialog box titled "Add" with a close button (X) in the top right corner. It has two tabs: "GENERAL" (selected) and "RECORDING". Below the tabs is a table with two columns: "Name" and "IP". There is one row with a checkbox on the left, the name "8220N", and the IP "10.3.41.127". At the bottom right of the dialog are "SAVE" and "CANCEL" buttons.

	Name	IP
<input type="checkbox"/>	8220N	10.3.41.127

3. Select a CCVSR Server from the list (in the same LAN as the primary server) and click **Next** for the *Recording* tab:



The screenshot shows the same "Add" dialog box, but now the "RECORDING" tab is selected. It displays a table with four columns: "Location", "Capacity", "Recording Quota", and "Enable Recording". The "Location" column is expanded to show "8220N" with a caret icon. Below it are two rows: "OS(C:)" and "NEW(D:)", each with its capacity and a "Recording Quota" input field. The "Enable Recording" column has checkboxes. At the bottom right are "SAVE" and "CANCEL" buttons.

Location	Capacity	Recording Quota	Enable Recording
^ 8220N			
OS(C:)	(89GB/145GB)	0	<input type="checkbox"/>
NEW(D:)	(131GB/136GB)	5	<input checked="" type="checkbox"/>

4. Select the recording location by checking the checkbox of the *Enable Recording* column. Enter a value in the corresponding field of the *Recording Quota* column.
5. Click *Save* to save the configuration and the CCVSR Server will now appear on the Recording main page.

Adding Shared Network Folder

To add a Shared Network Folder, do the following

1. Click *Add*.
2. A pop-up screen appears to bring you to the *General* tab:

3. Fill in the information of the top three entries that are valid for your network folder location using the following table:

Item	Description
IP/Name	Enter the IP address of the server sharing the network folder.
Username	Enter a username with permission to access the shared network folder.
Password	Enter a password.

4. Click *Connect* to retrieve path information automatically. If retrieved correctly, you can select the recording path from the drop-down menu. You may also enter a description in the description entry.

Note: Please make sure that SMBv2 & v3 are supported.

Alternatively, you can enter the rest of the information using the table below:

Item	Description
Recording Path	Enter the folder location of the server where you want to save the video log files. Example: Share\Department2\Security\VideoLogs
Description	Enter a description for the network folder.

5. Click *Next* for the *Recording* tab:

Location	Capacity	Recording Quota	Enable Recording	
10.3.41.127	\CC2000	(900B/1440B)	5	<input checked="" type="checkbox"/>

6. Select the recording location by checking the checkbox of the *Enable Recording* column. Enter a value in the corresponding field of the *Recording Quota* column.
7. Click *Save* to save the configuration and the Shared Network Folder will now appear on the Recording main page.

Editing Secondary CCVSR Servers

To edit a CCVSR server, do the following:

1. On the *Recording* page, check the checkbox of the CCVSR server.
2. Click *Edit* for the pop-up page below:

Name	8220N
Description	
Role	Primary
IP	10.3.41.127
<input type="checkbox"/> Save recorded videos in network folders first	

3. You can edit the name and description of the CCVSR server and enable (check)/disable (uncheck) *Save recorded videos in network folders first* here. Click the *Recording* tab to edit the options there (e.g. disable recording).
4. After making the changes, click *Save* to save the configuration.

Editing Shared Network Folder

To edit a Shared network folder, do the following:

1. On the *Recording* page, check the checkbox of the Shared network folder.
2. Click *Edit* for the pop-up page below:

3. You can edit the username and password and click *Connect* again to retrieve path information and re-select the recording path from the drop-down menu. Click the *Recording* tab to edit the options there (e.g. disable recording).
4. After making the changes, click *Save* to save the configuration.

Deleting Secondary CCVSR Servers/Shared Network Folder

To delete a CCVSR server/Shared network folder, do the following:

1. On the *Recording* page, check the checkbox of the entry you wish to delete.
2. Click *Delete*.

Option - Retention Policy

If *Continue recording without overwriting any video* is selected, CCVSR will continue recording until the recording quota is reached.

If *Keep the videos within (days)* and a number (1-365) is entered, the videos older than the entered number will be deleted.

For example, if you entered 7 days, the Video Session Recording Software will delete recordings that are older than 7 days and leaves all video files created in the past 7 days untouched.

The retention policy is refreshed at 00:00 everyday.

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Chapter 9

Logs

Overview

The Video Session Recording Software logs all the events that take place on it. To view the contents of the log, click *Log* to expand the Log main menu and click to select the type of log you wish to see. The System Logs and Device Logs are respectively shown below:

The screenshot displays two screenshots of the ATEN CCVSR web interface. The top screenshot shows the 'SYSTEM LOGS' page, and the bottom screenshot shows the 'DEVICE LOGS' page. Both pages feature a dark blue sidebar with navigation options and a main content area with a table of log entries.

SYSTEM LOGS

Severity	User	Description	Date
Information	System	Create check point.	2019/02/23 11:56:47
Information	administrator	User administrator modified user administrator account.	2019/02/23 11:55:46
Information	administrator	User administrator modified user administrator account.	2019/02/23 11:55:44
Information	administrator	User administrator logged in	2019/02/23 11:48:44
Information	administrator	User administrator (IP: 10.3.41.138) attempting to login	2019/02/23 11:48:44
Information	administrator	User administrator logged out	2019/02/23 11:30:48
Information	administrator	User administrator logged in	2019/02/23 11:29:21
Information	administrator	User administrator (IP: 10.3.41.138) attempting to login	2019/02/23 11:29:21
Information	administrator	User administrator logged in	2019/02/23 11:27:00
Information	administrator	User administrator (IP: 10.3.41.138) attempting to login	2019/02/23 11:27:00

DEVICE LOGS

Device Name	Severity	Device IP	Description	Date
SN9136C0	Information	10.3.167.204	NTP server connection was successful (Server: 10.3.167.245).	2019/02/23 11:59:42
KN8116V	Information	10.3.166.135	OP: User administrator (IP: 10.3.166.132) logged out. Online time : 0D 17H 09M 35S.	2019/02/23 11:57:27
KN4140VA	Information	10.3.167.210	OP: User administrator gain full access privilege, and switch to [0]Dell PowerEdge R710.	2019/02/23 11:57:05
KN4140VA	Information	10.3.167.210	OP: User administrator gain full access privilege, and switch to [0]Dell PowerEdge R710.	2019/02/23 11:57:05
KN4140VA	Information	10.3.167.210	OP: User administrator gain full access privilege, and switch to [0]Dell PowerEdge R710.	2019/02/23 11:56:53
KN4140VA	Information	10.3.167.210	OP: User administrator gain full access privilege, and switch to [0]Dell PowerEdge R710.	2019/02/23 11:56:53
KN4140VA	Information	10.3.167.210	SYS: Power 1 is on.	2019/02/23 11:56:06
KN4140VA	Information	10.3.167.210	OP: User administrator from 10.3.167.241 (84 8F 69 F7 65 A6) attempting to login via browser.	2019/02/23 11:56:01
CN8000A	Warning	10.3.167.217	Video Log Server start- 10.3.167.207	2019/02/23 11:52:50
CN8000A	Information	10.3.167.217	Invalid Video Log Server: 10.3.166.186 (40 AB F0 58 03 80) attempting to login.	2019/02/23 11:52:03

Log Information

The System and Device log tables display events that take place on the Video Session Recording Software, and provide sorting columns with headings of time, severity, user, and a description. Click any of the headings to sort the order of the events.

At the bottom right-hand corner of the tables, you can select the number of displayed entries (rows), and go to previous/next page of entries.

Rows per page
10 ▾
1-10 of 58
<
>

To select the number of displayed entries, click the drop-down menu and select from the menu.

Click the < or > to go to previous or next page of entries.

Export Logs

You can export *Logs in current page* or *All logs* using the export button. Click for a drop-down menu and select either of the options. The log file is saved in the .dat format.

Print Logs

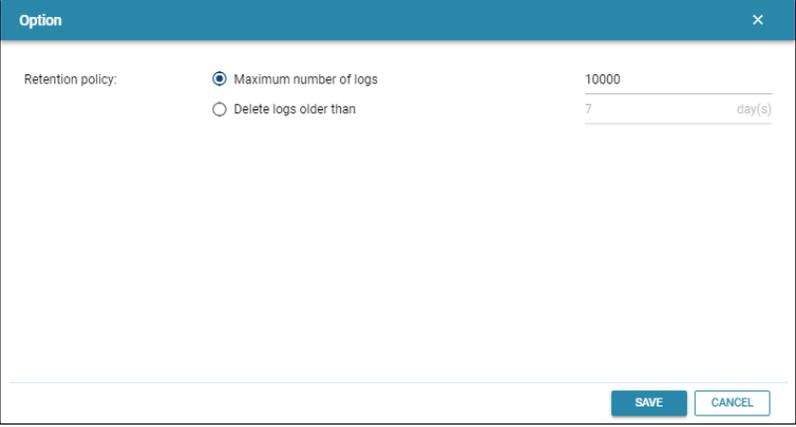
You can print logs using the *Print* button. When clicked, the system will bring you to a printable log page as shown:

System Logs				
PRINT		CLOSE		
No.	Severity	User	Description	Date
0	Information	administrator	User administrator logged in	2019/03/27 14:03:47
1	Information	administrator	User administrator (IP=10.3.41.138) attempting to login	2019/03/27 14:03:47
2	Information	administrator	User administrator logged out	2019/03/27 14:02:49
3	Information	administrator	User administrator logged in	2019/03/27 13:07:33
4	Information	administrator	User administrator (IP=10.3.41.138) attempting to login	2019/03/27 13:07:33
5	Information	administrator	User administrator logged out	2019/03/27 11:21:49
6	Information	administrator	User administrator logged in	2019/03/27 11:21:49
7	Information	administrator	User administrator (IP=10.3.41.138) attempting to login	2019/03/27 11:21:49
8	Information	System	System start.	2019/03/27 11:21:34
9	Information	System	Create check point.	2019/03/27 11:21:07

Click *Print* for the print setup of your system or *Close* to leave this page.

Option

You can set the retention policy of the logs by clicking the *Option* button:



The screenshot shows a dialog box titled "Option" with a close button (X) in the top right corner. The dialog contains a "Retention policy:" label followed by two radio button options. The first option, "Maximum number of logs", is selected and has a text input field containing "10000". The second option, "Delete logs older than", is unselected and has a text input field containing "7" and a "day(s)" label to its right. At the bottom right of the dialog, there are two buttons: "SAVE" and "CANCEL".

The system is set to keep a maximum of 10,000 log events by default. The system will overwrite the oldest entries. You can enter a different number here.

If you wish to keep the log events within a number of days, select *Delete logs older than* and enter a value (in days). Log entries older than the entered value will be discarded automatically.

Search Logs

The *Search* function allows you to do a general search or an advanced search, and *Advanced Search*.

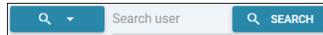
General Search

For a general search, you can search according to the *Description* or *User*:

1. Click the  button for a drop-down menu.
2. Select *Description* or *User*. The search field will display the selection.



Search description



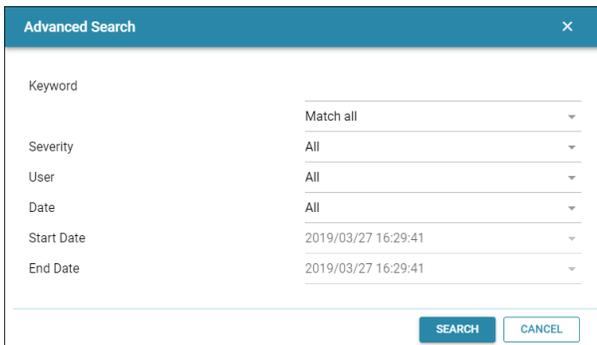
Search user

3. Enter the information you wish to search for in the entry field and click the  button.

Advanced Search

For an advanced search:

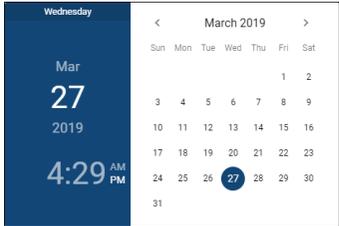
1. Click the  button for a drop-down menu.
2. Select *Advanced Search* for the pop-up window below:



Advanced Search ×

Keyword	<input type="text"/>
Severity	Match all <input type="button" value="v"/>
User	All <input type="button" value="v"/>
Date	All <input type="button" value="v"/>
Start Date	2019/03/27 16:29:41 <input type="button" value="v"/>
End Date	2019/03/27 16:29:41 <input type="button" value="v"/>

3. Refer to the table below on how to use the advanced search:

Field	Explanation
Keyword	<p>Searches for a particular word or string. Key the word or string into the entry. Only events containing that word or string are displayed. Wildcards (? for single characters; * for multiple characters) and the keyword or are supported.</p> <p>E.g., h*ds would return hands and hoods; h?nd would return hand and hind, but not hard; h*ds or h*ks would return hands and hooks.</p>
Match all / Match any	<p>Click the drop-down menu to select between <i>Match all</i> and <i>Match any</i>.</p> <p>Match all: The search has to meet all specified information.</p> <p>Match any: The search only has to meet any of the specified information.</p>
Severity	<p>Click the drop-down menu to search by the severity level. Available entries include <i>Information</i>, <i>Warning</i> and <i>Critical</i>.</p>
User	<p>Click the drop-down menu to search according to the user type. Available entries include <i>All</i>, <i>System</i> and <i>administrator</i>.</p>
Date	<p>Click the drop-down menu to search according to the date range. Available entries include <i>All</i> and <i>Range</i>.</p> <p>If <i>Range</i> is selected, the next two entries (<i>Start Date</i> and <i>End Date</i>) will light up and can be used.</p> <p>Start Date: From the drop-down menu, select a specific date and time. Clicking the drop-down menu will bring up date and time selection as shown:</p>  <p>As shown on the left of the diagram above, the day of the month is lit, indicating we are selecting the day as reflected on the left of the diagram. For other selections (month, year, hour, minute, am/pm), click the dimmed section you wish to change.</p> <p>End Date: Follow the selection method as in <i>Start Date</i>.</p>
Search	Click to search according to the filter choices.
Cancel	Click this to cancel advanced search.

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Chapter 10

CCVSR Archive Server

Overview

The CCVSR Archive Server allows you to store, playback, import, and export data created on CCVSR servers. The software automatically transfers a copy of the video log files from the Primary CCVSR server into an organized archive separate from the main system. This gives you the ability to purge older files from the main system but keep a safe archive of all videos for future use. The Archive Server runs in the background and updates the archive automatically every 15 minutes. To purchase this software, please see *Licenses*, page 8, for details.

Installing the CCVSR Archive Server

Starting the Installation

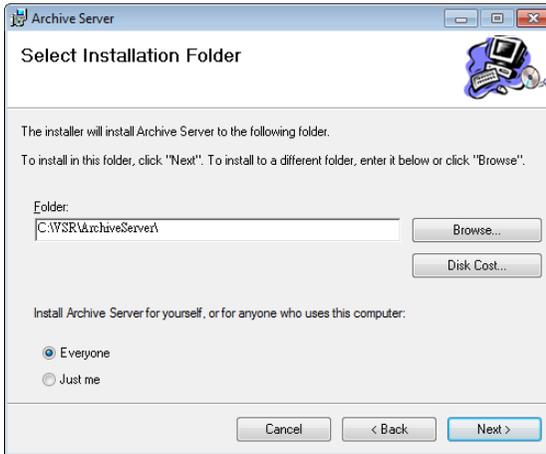
To install the Archive Server on a Windows system, insert the USB License Key into your computer, and do the following:

1. Put the software CD that came with your package into the computer's CD drive, or open the folder with the installation file.
2. Go to the folder where the *setup.exe* is located and double click it. A screen similar, to the one below, appears:



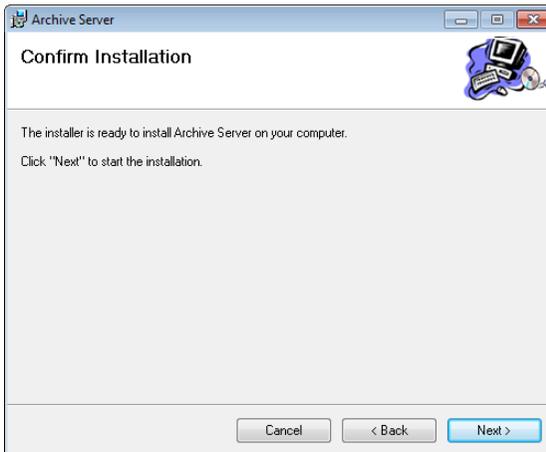
Click **Next** to continue.

3. On the *Select Installation Folder* page, specify the installation folder, or click **Browse** to choose the location where you want to install it. Then choose if you want to install it for yourself (**Just me**), or for anyone who uses this computer (**Everyone**). Click **Disk Cost** to view available drives and disk space.

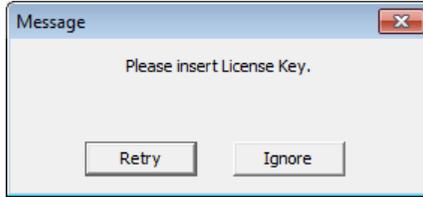


Click **Next** to continue.

4. The *Confirm Installation* window appears, click **Next** to continue:

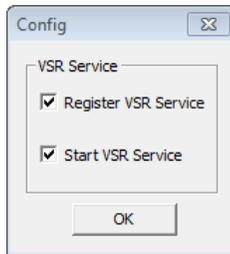


5. If a message appears to insert the License Key, re-plug the USB License Key into your computer or try a different USB port, then click **Retry**.



Clicking **Ignore** will install the software but you will not be able to use it until the USB License Key has been made available.

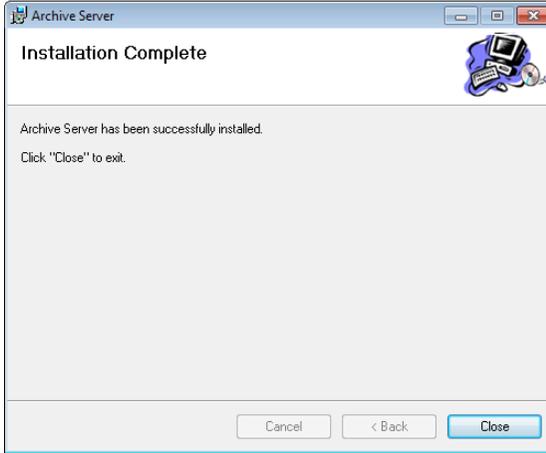
6. The **Config** dialog box appears, select the options and click **OK**:



Register CCVSR Service: This option registers the CCVSR Service with the Windows operating system so that it can run the software in the background.

Start CCVSR Service: This option will start the CCVSR Service automatically after the installation is complete. It is recommend to select both options.

7. When the installation is complete the following message will appear:

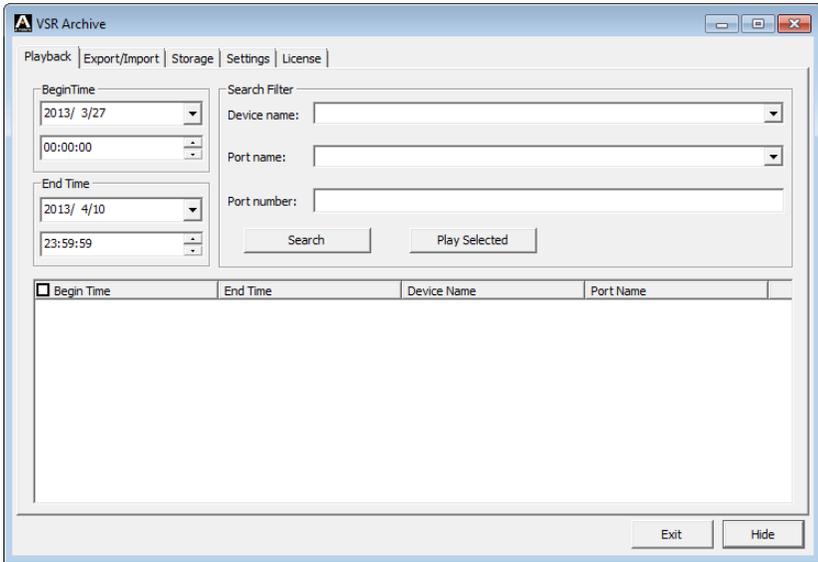


Licenses

Upon completion of the CCVSR software installation, a default license for one server is automatically provided. To add more Video Session Recording Softwares, you must upgrade the license. To upgrade the license, See *License*, page 19, for details. For License options See *Node Options*, page 9, for details.

Archive Server GUI

The Archive Server's interface has 5 tabs: *Playback*, *Export/Import*, *Storage*, *Settings*, and *License*; all described below. Once the software has been installed, double click the *Archive GUI* icon located on the desktop, and the *Playback* page appears:



Use the **Exit** button to shutdown the Archive Server, or **Hide** button to minimize the window to the task bar.

Setup

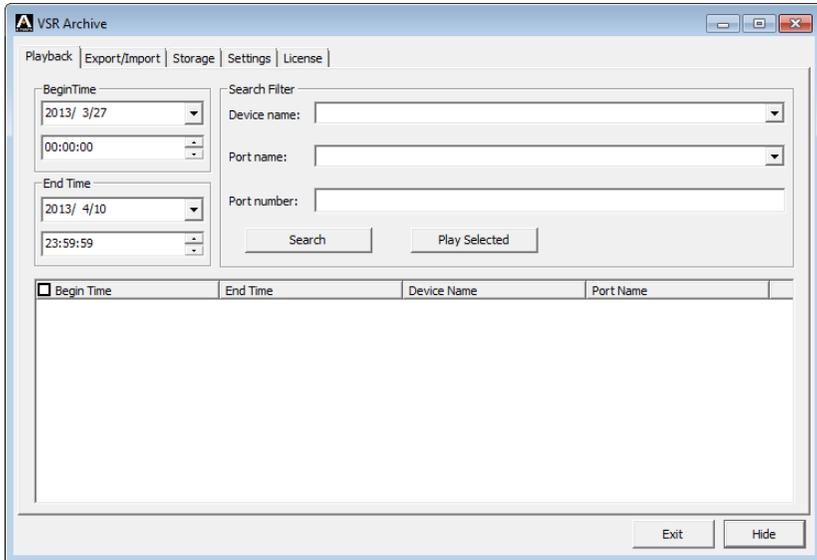
There are two steps to setup the Archive Server- set the Archive Server's IP address on the Primary CCVSR server, and add a storage location from the Archive Server's **Storage** tab.

First, configure the Archive Server's IP Address on the Primary CCVSR Server (see *Archive Server*, page 16). Next, add a storage location from the **Storage** tab (see *Storage*, page 94). The storage location is where the archived video log files are saved.

After the IP address is configured and a storage location is added, the Archive Server will begin to automatically archive all video log files created after the installation. The archive is updated every 15 minutes. To check for new video log files, go to the **Playback** tab and click *Search*. All new video log files will appear in the search window.

Playback

The *Playback* tab is used to search and playback video log files which have been archived or manually imported. To see a list of all video log files that have been archived, simply click the *Search* button.



The screenshot shows the 'VSR Archive' application window with the 'Playback' tab selected. The interface includes a menu bar with 'Playback', 'Export/Import', 'Storage', 'Settings', and 'License'. Below the menu bar, there are two main sections: 'Begin Time' and 'End Time' on the left, and 'Search Filter' on the right. The 'Begin Time' section has a date dropdown set to '2013/ 3/27' and a time dropdown set to '00:00:00'. The 'End Time' section has a date dropdown set to '2013/ 4/10' and a time dropdown set to '23:59:59'. The 'Search Filter' section has three input fields: 'Device name:', 'Port name:', and 'Port number:'. Below these fields are 'Search' and 'Play Selected' buttons. At the bottom of the window, there is a table with columns for 'Begin Time', 'End Time', 'Device Name', and 'Port Name'. The table is currently empty. At the bottom right of the window are 'Exit' and 'Hide' buttons.

The *Playback* tab has 3 sections used to search and playback archived video log files.

Begin Time/End Time

This section allows you to filter the search results by the begin and end time. The *Begin Time* and *End Time* refers to the time when the actual video log recording took place on the KVM switch.

Search Filter

The *Search Filter* is used to search for archived video log files by the *Port Name*, *Device Name*, or *Port Number* of the KVM switch they were recorded on. After inputting the search data, click **Search**. Your search results* will appear at the bottom of the page, and you can sort your results using the columns provided. If you would like to view all archived video logs, simply leave the fields blank and click **Search**.

Play Selected

To playback video logs, click **Search*** for a list of the archived video log to appear:

Begin Time 2013/ 4/15 00:00:00 End Time 2013/ 4/29 23:59:59	Search Filter Device name: <input type="text"/> Port name: <input type="text"/> Port number: <input type="text"/> <input type="button" value="Search"/> <input type="button" value="Play Selected"/>
--	--

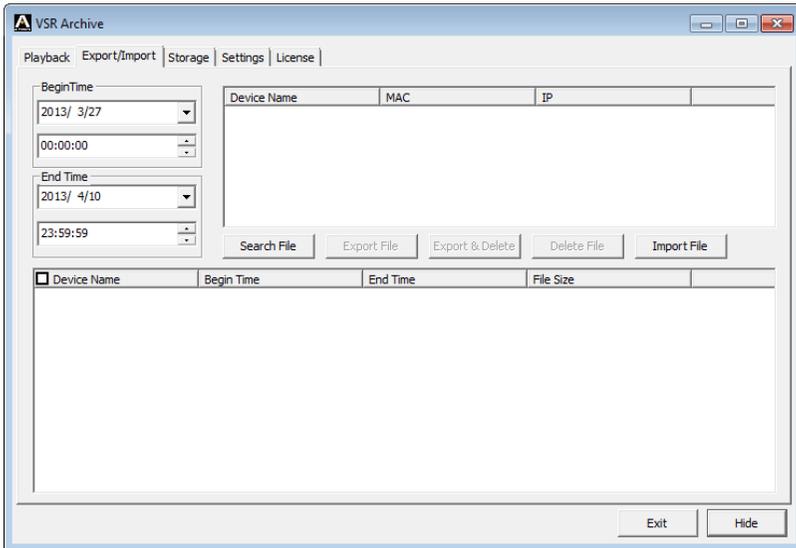
<input type="checkbox"/> Begin Time	End Time	Device Name	Port Name
<input type="checkbox"/> 2013-04-26 10:10:25	2013-04-26 10:10:36	Windows_Sec_01a	[02]2008_SAP_Dev
<input type="checkbox"/> 2013-04-26 10:14:33	2013-04-26 10:15:16	Windows_Sec_01a	[02]2008_SAP_Dev
<input type="checkbox"/> 2013-04-26 10:39:09	2013-04-26 10:40:34	Windows_Sec_01a	[02]2008_SAP_Dev
<input type="checkbox"/> 2013-04-26 10:40:45	2013-04-26 10:41:55	Windows_Sec_01a	[02]2008_SAP_Dev
<input type="checkbox"/> 2013-04-26 10:48:21	2013-04-26 10:49:45	Windows_Sec_01a	[02]2008_SAP_Dev
<input type="checkbox"/> 2013-04-26 11:39:39	2013-04-26 11:42:21	Windows_Sec_01a	[02]2008_SAP_Dev
<input type="checkbox"/> 2013-04-26 11:46:41	2013-04-26 11:47:14	Windows_Sec_01a	[02]2008_SAP_Dev
<input type="checkbox"/> 2013-04-26 11:47:23	2013-04-26 11:49:50	Windows_Sec_01a	[02]2008_SAP_Dev
<input type="checkbox"/> 2013-04-26 11:51:50	2013-04-26 11:54:37	Windows_Sec_01a	[02]2008_SAP_Dev
<input type="checkbox"/> 2013-04-26 11:54:48	2013-04-26 11:55:41	Windows_Sec_01a	[02]2008_SAP_Dev
<input type="checkbox"/> 2013-04-26 11:56:49	2013-04-26 11:58:08	Windows_Sec_01a	[02]2008_SAP_Dev
<input type="checkbox"/> 2013-04-26 14:34:22	2013-04-26 14:34:41	Windows_Sec_01a	[02]2008_SAP_Dev

Select the checkboxes of the video(s) you want to playback, then click **Play Selected**. The video will open in a new window with the Video Log Viewer application. For information on the Video Log Viewer, see *VSR Viewer*, page 24.

-
- Note:**
1. If no video log files appear after clicking *Search*, either the archive hasn't updated, in which case you should wait 15 minutes; or a storage location needs to be added on the **Storage** tab (see *Storage*, page 94).
 2. Only video logs created after the Archive Server was installed are automatically archived from the Primary CCVSR server. Video logs created before the installation must be manually imported from the **Export/Import** tab (see *Export/Import*, page 92).
-

Export/Import

The *Export/Import* tab is used to export and import video log files in a single database (.vse) file format. The database (.vse) files can combine a large number of individual video logs into a single compressed file to reduce disk space, which can be exported for storage and imported for use. The Export/Import tab also allows you to import individual video log files (.dat) created on the CCVSR Primary Server.



You can search for files to export (which are already archived) by selecting a **Device Name** and clicking **Search File**; or manually import .vse or .dat files into the Archive Server by clicking **Import File**. For more information on imported files see *Import File* below.

Begin Time/End Time

This section allows you to filter the search results by the begin and end time. The *Begin Time* and *End Time* refers to the time when the actual video recording took place on the KVM switch.

Device Name

This section lists the name(s) of the KVM switches which have been added to the Primary CCVSR server. You can select a device(s) and click Search for a list of individual video log files which have been archived from that KVM switch. After doing so you can select video logs to export into a .vse database file.

Search File

The *Search File* button is used to search for video log files on the **Device Name** you have selected. The results will appear in the lower section of the window, as shown below. After doing so you can select video logs to export into a .vse database file.

Device Name	Begin Time	End Time	File Size
<input type="checkbox"/> Windows_Sec_01a	2013-04-29 14:57:45	2013-04-29 15:01:15	48 MB
<input type="checkbox"/> Windows_Sec_01a	2013-04-29 15:01:15	2013-04-29 15:02:59	48 MB
<input type="checkbox"/> Windows_Sec_01a	2013-04-29 15:02:59	2013-04-29 15:04:18	48 MB
<input type="checkbox"/> Windows_Sec_01a	2013-04-29 15:04:18	2013-04-29 15:05:37	48 MB
<input type="checkbox"/> Windows_Sec_01a	2013-04-29 15:05:37	2013-04-29 15:06:33	48 MB
<input type="checkbox"/> Windows_Sec_01a	2013-04-29 15:06:33	2013-04-29 15:27:45	5 MB

Export File

When you export logs they are saved in a single compressed .vse database file. Select the video log file(s) displayed in the lower window that you want to export, click **Export File** and provide a name to save the .vse file as.

Export & Delete

The *Export & Delete* button exports the selected files into a .vse database file and deletes the individual video log files that you are exporting from the Archive Server. This is a fast way to purge the individual files you are archiving into a single database.

Delete File

The *Delete File* button deletes the selected video log file from the Archive Server.

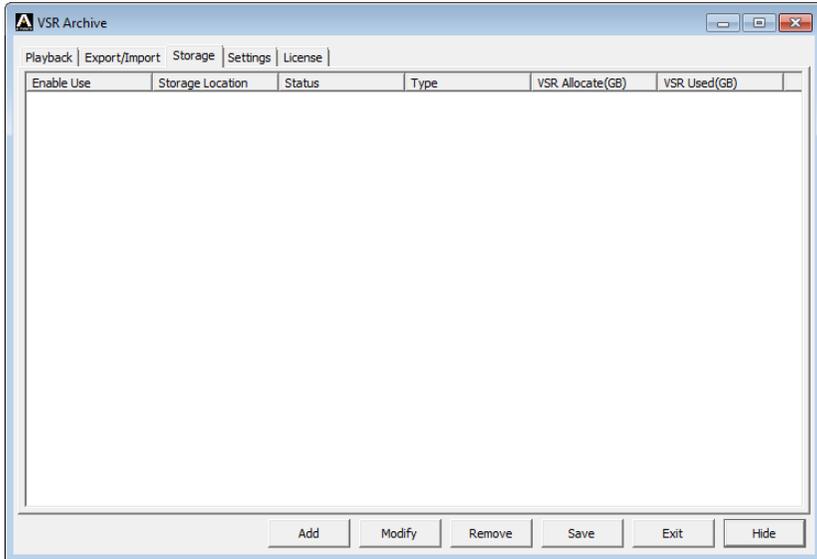
Import File

The *Import File* button is used to import database files (.vse) and individual video log files for viewing, archiving, or creating a new database- for export.

Click **Import File**, to browse and select the (.dat or .vse) file(s) to import, click **Open**. If you open a .vse database file: select the files from the list and click **Import**. Importing files will copy them into the Archive Server, therefore before you can import files, a storage location needs to be added from the **Storage** tab (see *Storage*, page 94). The storage location is where the archived files are saved, by the date they were created.

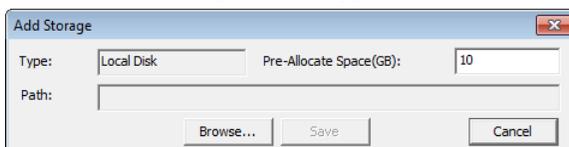
Storage

The *Storage* tab is used to add storage locations. This is where archived video logs are saved. You can add multiple storage locations for video logs. When the first location becomes full, the second will be used, and so on. Video logs are archived into folders according to the date they were created. The Archive Server cannot archive video logs until a storage location is **added** and **enabled**.



To add and enable a storage location, do the following:

1. Click **Add**, and the following window appears:

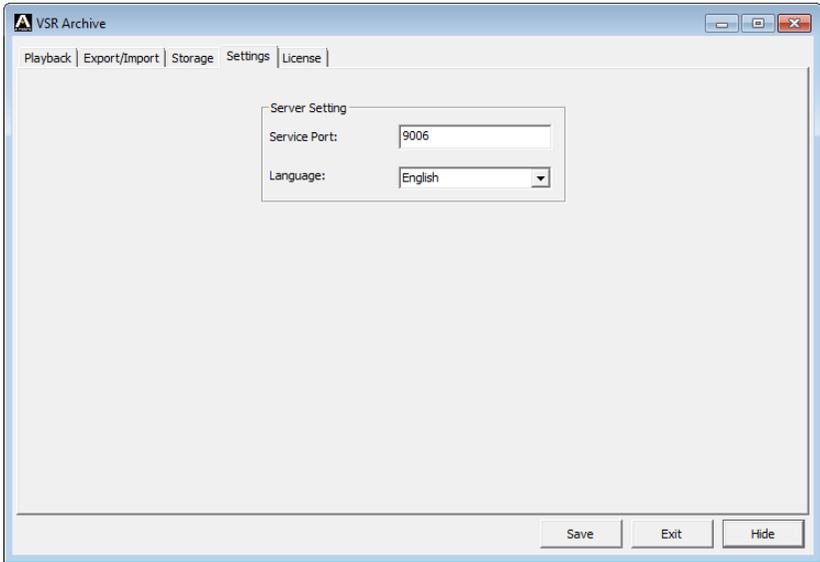


2. Type in the *Path* or click **Browse** to select a storage location.
3. In the *Pre-Allocate Space(GB)* field enter the maximum amount of disk space to use, then click **Save**. The storage location appears in the lower window.
4. Next, check the **Enable Use** box and click **Save**.

Select a Storage Location and click **Modify** to modify it, or **Remove** to remove it. Click **Save** to save the changes.

Settings

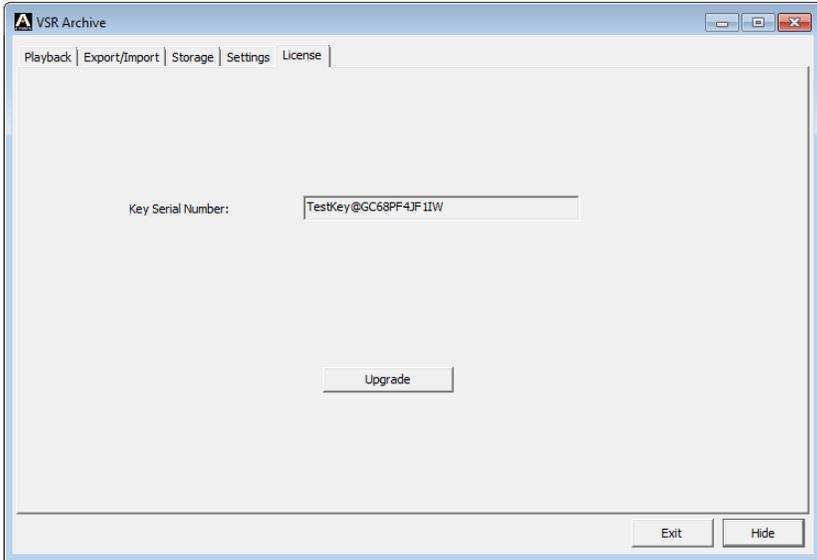
The Settings tab is used to set the Server Settings:



On this tab you can set the *Service Port* and *Language*. The default Service Port is **9006**.

License

Use the License tab to upgrade your license key. Insert the USB License Key into your computer, then click **Upgrade**.



If the upgrade fails, re-insert the USB License Key, or try a different USB port on your computer.

Appendix

Technical Support

International

- ◆ For online technical support – including troubleshooting, documentation, and software updates: <http://support.aten.com>
- ◆ For telephone support, see *Telephone Support*, page ii.

North America

Email Support		support@aten-usa.com
Online Technical Support	Troubleshooting Documentation Software Updates	http://support.aten.com
Telephone Support		1-888-999-ATEN ext 4988

When you contact us, please have the following information ready beforehand:

- ◆ Product model number, serial number, and date of purchase.
- ◆ Your computer configuration, including operating system, revision level, expansion cards, and software.
- ◆ Any error messages displayed at the time the error occurred.
- ◆ The sequence of operations that led up to the error.
- ◆ Any other information you feel may be of help.

USB Authentication Key Specifications

Function		Key
Environment	Operating Temp.	0–40° C
	Storage Temp.	-20–60° C
	Humidity	0–80% RH, Non-condensing
Physical Properties	Composition	Metal and Plastic
	Weight	14 g
	Dimensions	8.36 x 2.77 x 1.37cm

Supported KVM over IP Switches

Supported KVM Switches that the Video Log Sever requires to record port access connections and create video logs, include the following:

Recordable via remote sessions or through the local console:

- ◆ KN2116VA, KN2124VA, KN2132VA, KN2140VA, KN4124VA, KN4116VA, KN4124VA, KN4132VA, KN4140VA, KN4164VA, KN4164V, KN8132V, KN8164V, CN8600.

Recordable via remote sessions:

- ◆ KL1108V, KL1116V, KN1108V, KN1116V, KN1132V, KN1108VA, KN1116VA, KN2116A, KN4132, KN2140v, CN8000A.

Serial Console Servers:

- ◆ SN9116, SN9108, SN0148, SN0132, SN0116A, SN0108A.

Note: These are the supported devices available when the user manual was initially published. Please visit our web page to see if additional devices have been added since this manual was published.

Linux Installation

When installing or uninstalling the CCVSR software on a computer running Linux, use the following commands:

Linux installcommand:> sudo ./vlsman.run

Linux uninstall command:> sudo /usr/local/bin/ccvsr/uninstallvlsmon

Trusted Certificates

Overview

When you try to log in to the device from your browser, a Security Alert message appears to inform you that the device's certificate is not trusted, and asks if you want to proceed.



There is a problem with this website's security certificate.

The security certificate presented by this website was not issued by a trusted certificate authority.
The security certificate presented by this website was issued for a different website's address.

Security certificate problems may indicate an attempt to fool you or intercept any data you send to the server.

We recommend that you close this webpage and do not continue to this website.

-  [Click here to close this webpage.](#)
-  [Continue to this website \(not recommended\).](#)
-  [More information](#)

- If you arrived at this page by clicking a link, check the website address in the address bar to be sure that it is the address you were expecting.
- When going to a website with an address such as <https://example.com>, try adding the 'www' to the address, <https://www.example.com>.
- If you choose to ignore this error and continue, do not enter private information into the website.

For more information, see "Certificate Errors" in Internet Explorer Help.

The certificate can be trusted, but the alert is triggered because the certificate's name is not found on the Microsoft list of Trusted Authorities. You can ignore the warning and click:



Self-Signed Private Certificates

If you wish to create your own self-signed encryption key and certificate, a free utility – `openssl.exe` – is available for download over the web at www.openssl.org. To create your private key and certificate do the following:

1. Go to the directory where you downloaded and extracted `openssl.exe` to.
2. Run `openssl.exe` with the following parameters:

```
openssl req -new -newkey rsa:1024 -days 3653 -nodes -x509
-keyout CA.key -out CA.cer -config openssl.cnf.
```

Note: 1. The command should be entered all on one line (i.e., do not press [Enter] until all the parameters have been keyed in).

2. If there are spaces in the input, surround the entry in quotes (e.g. "ATEN International").
-

To avoid having to input information during key generation the following additional parameters can be used:

```
/C /ST /L /O /OU /CN /emailAddress.
```

Examples

```
openssl req -new -newkey rsa:1024 -days 3653 -nodes -x509
-keyout CA.key -out CA.cer -config openssl.cnf -subj
/C=yourcountry/ST=yourstateorprovince/L=yourlocationor
city/O=yourorganization/OU=yourorganizationalunit/
CN=yourcommonname/emailAddress=name@yourcompany.com
```

```
openssl req -new -newkey rsa:1024 -days 3653 -nodes -x509
-keyout CA.key -out CA.cer -config openssl.cnf -subj
/C=CA/ST=BC/L=Richmond/O="ATEN International"/OU=ATEN
/CN=ATEN/emailAddress=eservice@aten.com.tw
```

Importing the Files

After the `openssl.exe` program completes, two files – `CA.key` (the private key) and `CA.cer` (the self-signed SSL certificate) – are created in the directory that you ran the program from. These are the files that you upload in the *Private Certificate* panel of the Security page (See *Security*, page 62, and *Certificate*, page 65).

Limited Warranty

ATEN warrants its hardware in the country of purchase against flaws in materials and workmanship for a Warranty Period of two [2] years (warranty period may vary in certain regions/countries) commencing on the date of original purchase. This warranty period includes the LCD panel of ATEN LCD KVM switches. Select products are warranted for an additional year (see *A+ Warranty* for further details). Cables and accessories are not covered by the Standard Warranty.

What is covered by the Limited Hardware Warranty

ATEN will provide a repair service, without charge, during the Warranty Period. If a product is defective, ATEN will, at its discretion, have the option to (1) repair said product with new or repaired components, or (2) replace the entire product with an identical product or with a similar product which fulfills the same function as the defective product. Replaced products assume the warranty of the original product for the remaining period or a period of 90 days, whichever is longer. When the products or components are replaced, the replacing articles shall become customer property and the replaced articles shall become the property of ATEN.

To learn more about our warranty policies, please visit our website:

<http://www.aten.com/global/en/legal/policies/warranty-policy/>

