Honeywell

IP Security Management Platform

HUS-SWP-32S

Client User Manual

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Contents

1 About This Document

This user manual introduces the functions, installation and operations of HUS-SWP-32S Client which is one of the core components of HUS-SWP-32S IP Security Integration Platform.

This manual supports HUS-SWP-32S 4.3.0 version.

Special Fonts and Symbols

Italic	Indicates referenced chapter, figure number, page number and etc. In electronic edition, click it to switch to the corresponding page.
【】	Indicates it is a button, tab or menu item.
	Alert the user to the presence of important operating and maintenance instruction in the literature accompanying the product.

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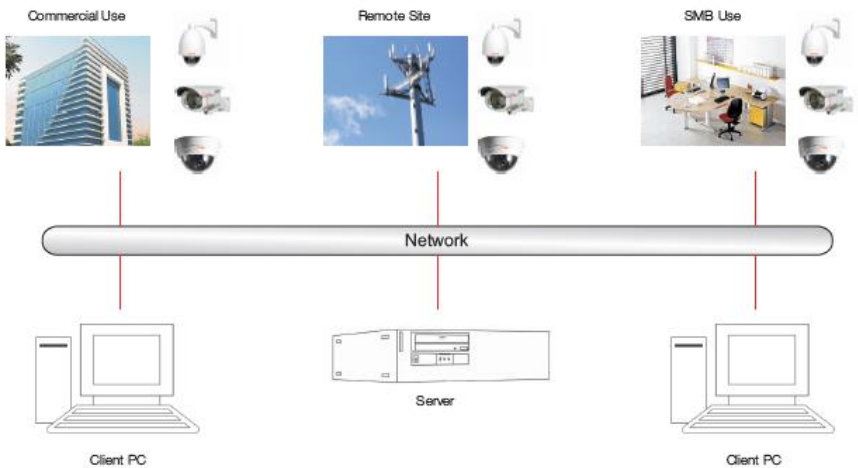
2 Introduction

This chapter provides the general information of HUS-SWP-32S Client and system requirements for running the components.

Overview

The core components of HUS-SWP-32S IP Video Solution are HUS-SWP-32S and HUS-Client, which can implement an effective and reliable IP video surveillance system with front-end security devices.

Figure 2-1 HUS-SWP-32S Architecture



HUS-SWP-32S – HUS-SWP-32S provides data management, video storage trigger and event and control services, also provides streaming service, records, stores and playback videosapplicable to various types of video, intrusion and applicable to various types of video devices (video encoder, decoder, IP camera, alarm panels….).

HUS-Client – Client of HUS-SWP-32S IP Video Solution supports live video display, playback from HUS-SWP-32S, maps, alarms management and PTZ of IP front ends.

HUS Client consists of the following components and tools.

- Management Tool – used for data synchronization of HUS Client, HUS-SWP-32S, automatically accessing date from HUS-SWP-32S and providing functions like connection settings, event viewer, service monitor and etc.

- Client – integrates real time surveillance, history record playback, E-Map and configuration management, implementing central management of video surveillance system and device information and alarm event by electronic map.
- Network Management Tool – used for monitoring, configuring, and controlling all HUS-SWP-32S Services, devices, and HUS Client, enabling real-time monitoring and maintenance of the system.
- HUSPlayer is a standalone video player.
- Internet Explorer is used for accessing HUS-SWP-32S.

System Requirements

A. **HUS-SWP-32S:** HUS-SWP-32S shall require following minimum hardware and operating system configuration:

1. Processor: Intel E3-1230 3.2GHz, 64-bit, 4 Threads, 8 MB Cache
2. System Memory (RAM): 8 GB
3. Optical Drive: DVD-R
4. Hard Disk Drives: Enterprise class hard disk 1TB, 3.5" 7200 RPM, SATA, 16 MB Cache with two partitions
5. Video Storage: The storage shall be of following specification:

a. Storage should be configured as local drive in the operating system.

b. The storage should have recommended IOPS (Input/Outputs Per Second) of 140,000.

c. It is recommended the video storage be configured in RAID 5/6 to avoid data loss in event of single HDD failure.

6. Network Interface Card (NIC): Dual or compatible pair of NICs, with each port having 1 Gbps capacity.
7. Human Interface: 102-key keyboard and a mouse pointing device.
8. Graphics Card: Integrated with 2048MB DDR3 memory and 64-bit memory interface.
9. Operating System: Original software CDs and startup installation diskettes for:

a. Windows® 7 Professional Edition 64-bit

b. Microsoft® .Net Framework 4.0

c. Microsoft® Visual C++ 2010 x86 Redistributable Setup

d. Direct X 9.0c or newer

B. **HUS-CLIENT:** HUS-Client shall require following minimum hardware and operating system configuration:

1. Processor: Intel ® i5 750 2.66 GHz
2. System Memory (RAM): 8 GB
3. Optical Drive: DVD-R
4. Hard Disk Drives: 250G，Ensure 20G available space
5. Network Interface Card (NIC): Dual or compatible pair of NICs, with each port having 1 Gbps capacity.
6. Human Interface: 102-key keyboard and a mouse pointing device
7. Graphics Adapter: NVIDIA 9200 and above, 1GB and above independent graphic card (HUS Client does not recommend integrated graphic card).
8. Operating System: Original software CDs and startup installation diskettes for:

a. Windows® 7 Professional 64-bit

b. Microsoft® .Net Framework 4.0

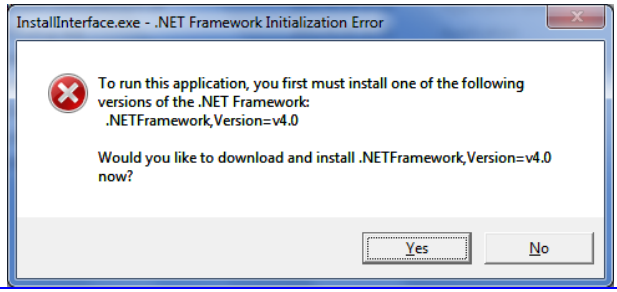
c. Microsoft® Visual C++ 2010 x86 Redistributable Setup

d. Direct X 9.0c or newer

3 Installing HUS Client

This chapter introduces how to install and uninstall HUS Client components.

Microsoft .Net Framework 4.0\4.5 must be installed before installing HUS Client, otherwise the following error occurs:



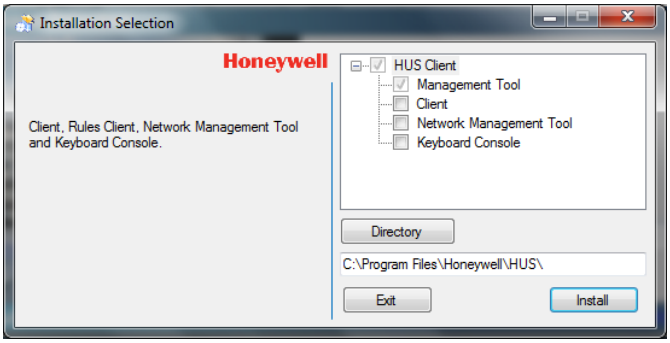
Installation

Double click HUSSetup.exe in the installation CD and the following figure is displayed:

Figure 3-1 Package Selection

Click **HUS Client Install** and the following figure are displayed.

Figure 3-2 Installation Selection



Check the components to be installed (HUS Management Tool is checked, *default*) according to the user's administrative level and operation function.

Normally HUS Management Tool and Client should be installed; while Network Management Tool is optional.

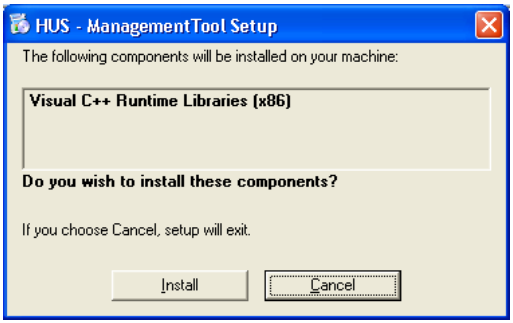
Keyboard Console should not be installed

Click **Destination** to specify the directory of installation files. *Default*: C:\Program Files\Honeywell\

Click **Install** to start the installation wizard.

For the first installation, it pops up the following information if Visual C++ Runtime Libraries have not been installed.

Figure 3-3 Visual C++ Runtime Libraries



Click **Install**. When C++ components installation is complete, the wizard will start installing the selected HUS Client components. A progress bar is displayed during the installation of each component.

When HUS Client components are installed, shortcuts are created on the desktop.

Figure 3-4 HUS Client – Desktop Shortcuts

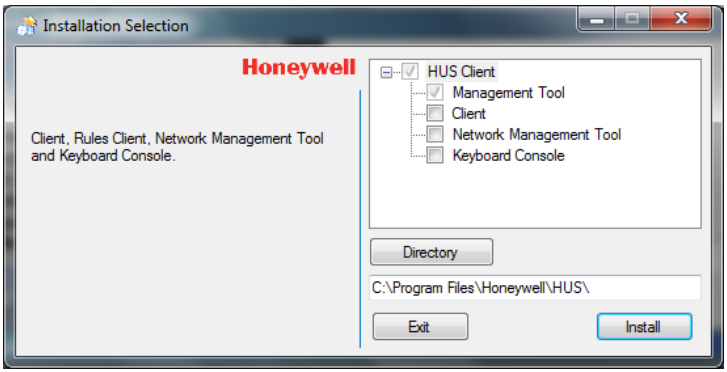
Uninstallation

To uninstall the components, double click “HUSSetup.exe” in the CD and the following figure is displayed.

Figure 3-5 Uninstall HUS Client Components

Click **HUS Client Uninstall**.

Figure 3-6 Select Component



It lists all installed components. Check the components to be uninstalled and click **Uninstall**. The wizard will uninstall the selected components and they will be removed from the list when the uninstallation is complete.

4 Configurations in Management Tool

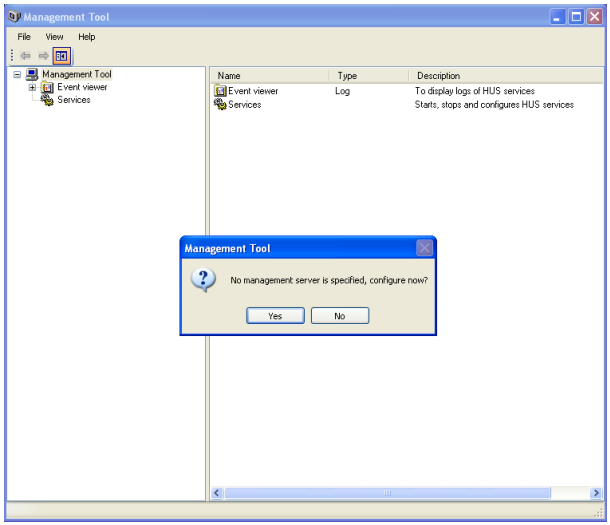
This chapter introduces how to configure settings in HUS Management Tool before accessing HUS Client components.

Start Management Tool

Before logging in HUS Client components, you need to add management sites (HUS-SWP-32S) in Management Tool for client users to control front-end devices connected to corresponding HUS-SWP-32S and manage alarms.

Double click the desktop shortcut of “Management Tool” or open it from **Start → All Programs → Honeywell → HUS Platform → Management Tool**. The main window of Management Tool is displayed and a message pops up for the first launch to remind you to configure HUS-SWP-32S.

Figure 4-1 Information – Configuring Management Sites

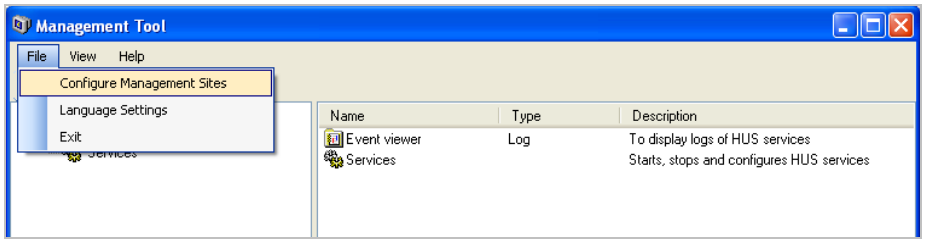


If the message in the above figure is not displayed or you want to configure another HUS-SWP-32S, open **File → Configure Management Sites** from the menu bar (see *Figure 4-2*).

Configuring Management Sites

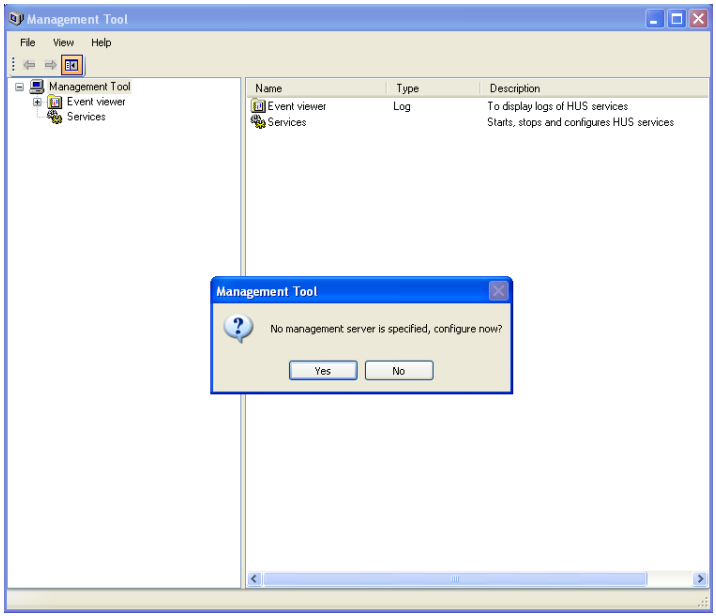
Open **File → Configure Management Sites**.

Figure 4-2 File: Configure Management Sites



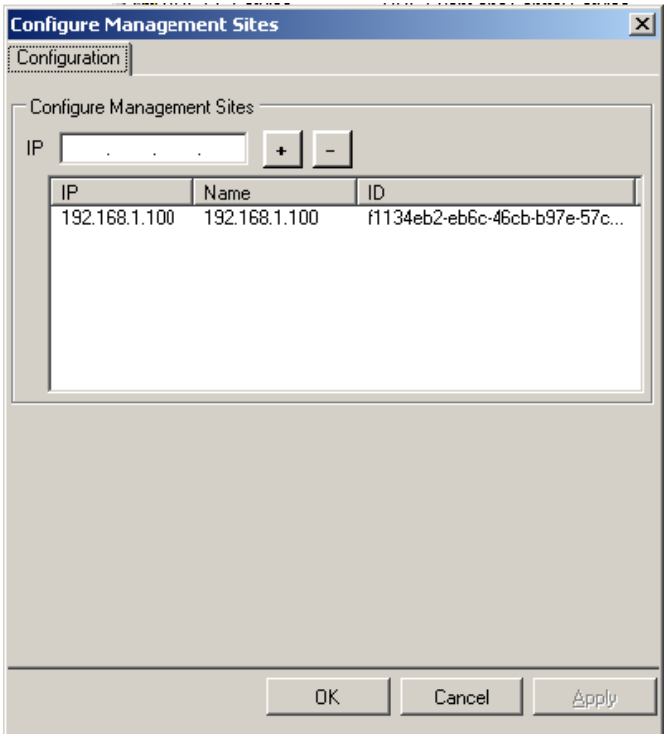
The following figure is displayed.

Figure 4-3 Configure Management Sites



Enter the IP address of the target HUS Managerment Sites and click "+". The system searches for it and displays its information in the list box below if the HUS-SWP-32S of the corresponding IP address is running properly.

Figure 4-4 A Management Site is added

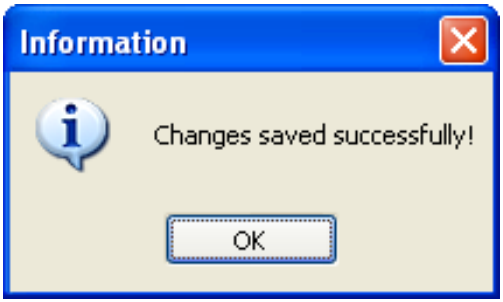


For delete an existing HUS-SWP-32S, click it in the list and then click "  ".

Click **Apply** to enable the new settings without exiting the window and continue configuration; click **OK** to save the configuration and exit the window; click **Cancel** to cancel the modification and close the window.

When all management sites are added, click **OK** and the following message is displayed.

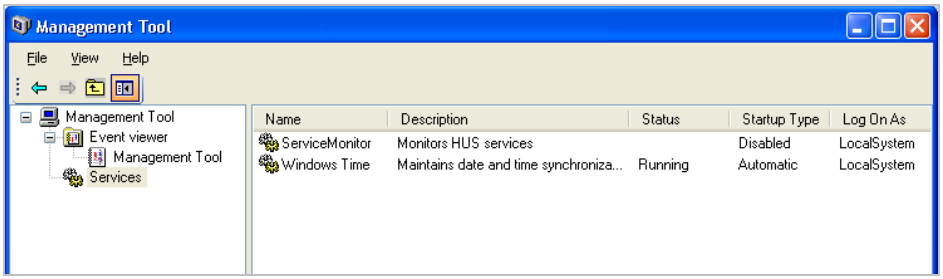
Figure 4-5 Information: Modify Succeeded



Event Viewer & Services

Management Tool includes two components: Event Viewer and Services.

Figure 4-6 Event Viewer and Services



Event Viewer – view and search event logs. In the left pane, right click “Event viewer” or its sub-items and select “Properties”.

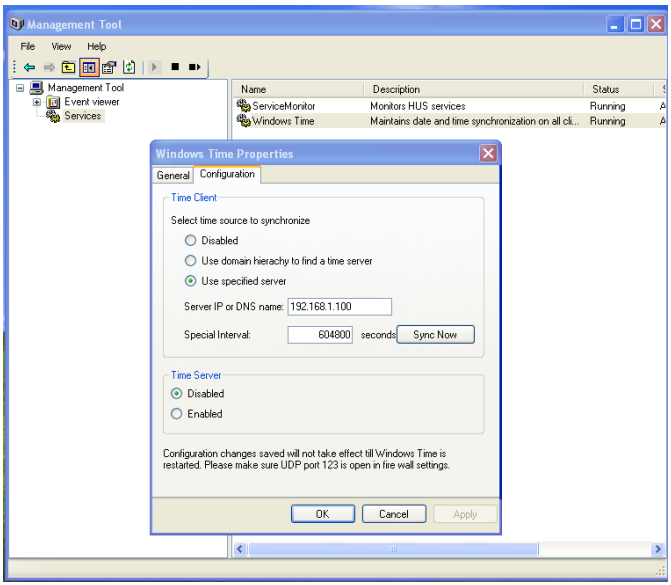
Services – start, stop, restart or refresh the services and view its properties.

- **Windows Time** – Synchronize the time of the whole system.

  User must set Synchronize Time server IP address, for example: 192.168.1.100.

- **Service Monitor** – Supervise the running status of all services in the system.

Figure 4-7 Time Client setting



5 Client

This chapter describes the functions, operations and configurations of Client.

Overview

- Client integrates real-time surveillance, recorded video playback, E-Map and configuration management, device information and alarm event
- Access to front-end video and alarm facilities.
- HUS-NVR for search, playback and remote access from video storage.
- E-Map: based on geographical information system, includes basic operations of the geographical information layer; supports importing vector map files, static pictures and CAD files; and provides the function of creating editable device information layers, adding video monitoring points and alarming points and configuring their properties.
- Management of front-end alarms and commands: analyzing, filtering, receiving and displaying the alarm information, exporting the local log of the alarm information and generation of the log, sending the commands from the front end video devices.
- Video binding and alarm linkage: supports binding of video and alarm device points, displaying the video when receiving the alarm; supports linkage setting of alarm device points, preset linkage operations will be executed in order.
- Receives and processes wide-ranging alarms, events or status information from the HUS-SWP-32S, which can be customized by the Client.
- Concentrative management of configuration data using built-in browser.

Login and Logout

This part describes login, logout of “Client” and management of sites including creating, modifying and deleting sites in the login window.

Login and Site Management

Double-click the desktop shortcut for “Client” or open it from **Start→Programs→Honeywell→HUS Platform→Client→Client**. The following figure is displayed.

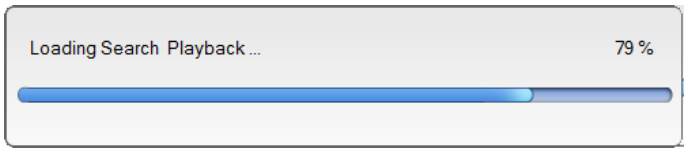
Figure 5-1 Client Login

Enter the user name, password and select the site name.

User name and password are specified in Data Management Center. For how to create users, refer to "*User Management*" section of "*HUS-SWP-32S User Guide*".

Click **OK**. The system begins to load resources and the following figure is displayed:

Figure 5-2 Loading Resources

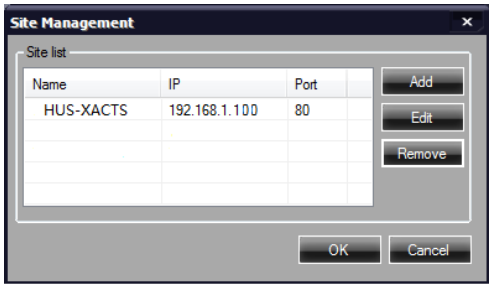


After the resources are loaded, the main window of Client is displayed (See *Figure 5-9*).

In the login window, user can manage the sites.

To manage the sites in the login window (See *Figure 5-1*), click "Site Management" and the following figure is displayed:

Figure 5-3 Site Management

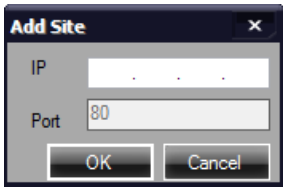


In the “Site Management” window, sites can be added, edited and removed.

Add a Site

To add a site, click **Add** (See *Figure 5-3*) and the following figure is displayed:

Figure 5-4 Add Site

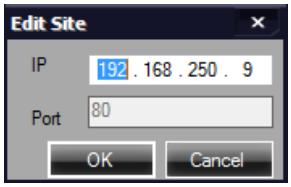


Enter the IP and click **OK**. The new added site is displayed in the Site list (See *Figure 5-3*).

Edit a Site

To modify an existing site, select the target site (See *Figure 5-3*), and click **Edit** and the following figure is displayed:

Figure 5-5 Edit Site



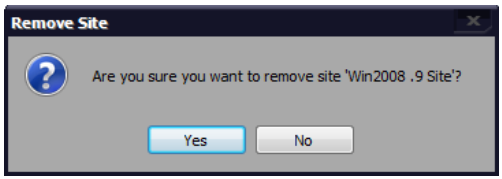
Modify the IP and click **OK**.

In “Site Management” window, only IP can be edited. Site names are specified in Data Management Center. For how to edit site name, refer to “*User Management*” section of “*HUS-SWP-32S User Guide*”.

Remove a Site

To remove a site, select the target site (See *Figure 5-3*) and click **Remove**. The following figure is displayed:

Figure 5-6 Remove a Site



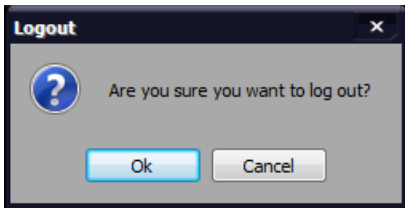
Click **Yes**.

Logout and Exit

Logout

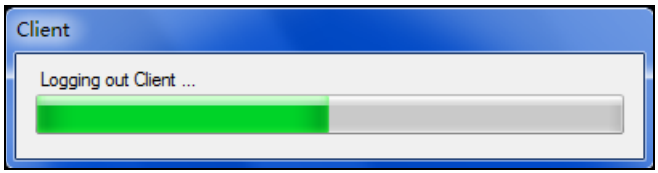
To logout the system click **User→ Logout** from the menu bar and the following figure is displayed:

Figure 5-7 Logout



Click **OK and** the following figure is displayed:

Figure 5-8 Logging out Client



Then, the login window is shown (See *Figure 5-1*).

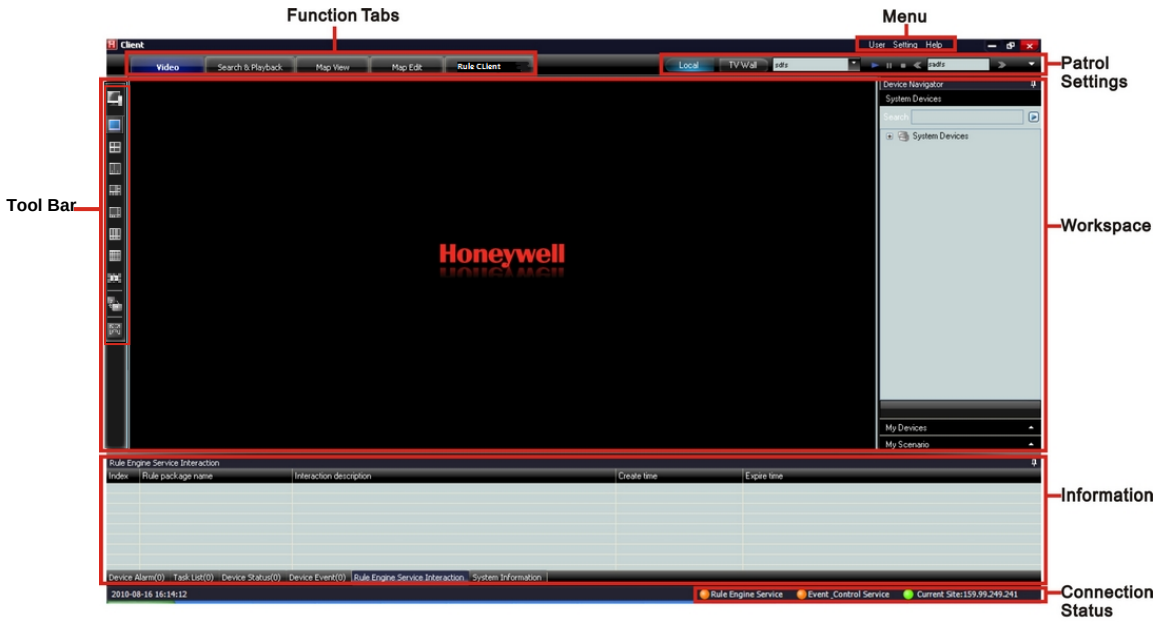
Exit

To exit the Client, click **User → Exit** from the menu bar or click  in the top right corner of the main window.

Main Window of Client

The main window of Client is shown below:

Figure 5-9 Main Window



Function Tabs

There are four function tabs: “Video”, “Search&Playback”, “Map View” and “Map Edit”. “Rule Client” is not supported in this edition of HUS application. For detailed functions of each tab, refer to the following chapters in this manual.

Menu Structure

Refer to the following table for the functions of all menu items in Client:

Table 5-1 Menu Structure of Client

Menu	Submenu	Description
User	Lock	Temporarily lock the user interface and pops up the login window. Log in again and to return to the interface before

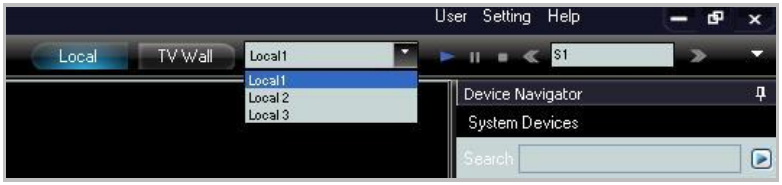
		clicking **User→Lock**.
	Logout	Logout the current user and the Client is closed then the login window is displayed.
	Exit	Exit the Client.
Setting	Data Management	Pop out login window of "Data Management" in explorer. You can log in the Data Management Center. Refer to related chapters in "*HUS-SWP-32S User Guide*".
	Performance Monitor	View the CPU usage in the pop-up window.
	System Tool	Open system components or applications, including HUS Player (for more details about HUS Player, see "*HUS Player*" chapter), AlertConsole….
	User-define Tool	Configure customized shortcut keys of executable applications. Added shortcuts are showed in **Setting → User-define Tool**.
	Rule Package Subscribe Status	Not applicable for this edition of HUS application.
	Alarm Logs	Manage all alarm logs. See "*System Information Management* ".
	Reset Window Layout	Reset the window layout to default mode.
	Options	Set the snapshot storage folder, PTZ step, PTZ shortcut key definition, Bind Camera and Matrix Settings….
Help	About	View version information.

Patrol Setting Shortcut

The patrol setting shortcut is in the top right corner of the main window.

Click **Local** or **TV Wall** to select the patrol type. TV Wall is not supported in this edition of HUS application. For example, click **Local** to highlight the button and list all local patrols in the drop-down list.

Figure 5-10 Patrol Setting



Play a Patrol

Select a patrol in the list and click  to start the patrol. A red point is displayed on the button “Local” or “TV Wall” when there is a running patrol. The right textbox shows the name of the running scenario.

Figure 5-11 Running Patrol

For both of the two types, only one patrol can be running at a time.

Pause, Restart and Stop a Patrol

To pause the patrol, click  . Click  to run it again.

To stop the patrol, click  .

Check the Scenarios of Current Patrol

When a patrol is running or paused, click  or  to view the previous or the next scenario. Performing this operation in a running patrol will cause the patrol to be paused.

- In full-screen mode, the toolbar is hidden in the top. Move the mouse around the window top to show the toolbar.
- When a local patrol is running, double-clicking a video window or manually playing the video (dragging and dropping a video record from the video list into the window) will cause the patrol to be paused.

Tool Bar

The toolbar is different in each function tabs, refer to the following chapters for details.

Information Bar

The information bar is on the bottom of the main window, including “Device Alarm”, “Device Status”, “Task List”, “Device Events”, “Rule Engine Service Interaction” and “System Information”. For details, see “*System Information Management”* chapter.

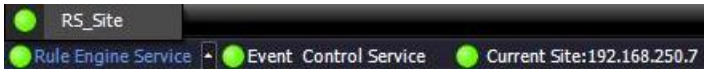
Connection Status Bar

It displays the status of Rule Engine Service, Event Control Service and Current Site in the status bar. The indicator ahead of each service displays the status of the connection.

Check Connection Status of Service

The Client connects to the Service automatically and the status indicator is displayed in the bottom right corner.

Figure 5-12 Connection Status



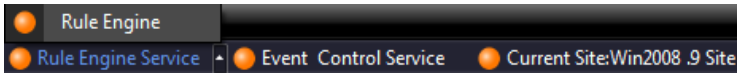
Green – Successfully connected;

Red – Disconnected.

Check Service Information

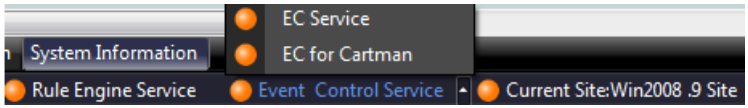
To view the Rule Engine Service, click the indicator of “Rule Engine Service”. This edition of HUS application does not support Rule Engine Service connection.

Figure 5-13 Rule Engine Service



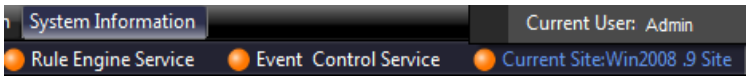
To view the Event Control service, click the indicator of “Event Control Service”. System supports multiple event control services.

Figure 5-14 Event Control Service



To view the current login user, click the indicator of “Current Site”:

Figure 5-15 Current User



System Operation

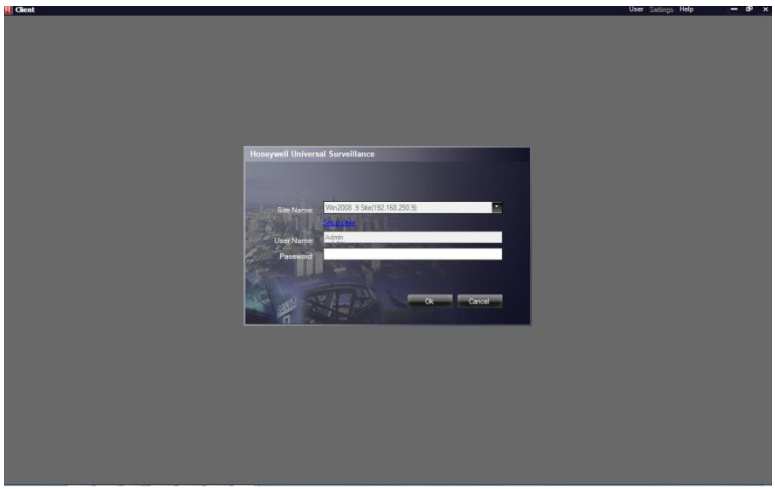
This part introduces system operation including lock, performance monitor, HUS Player, user-defined tool, window operation and tooltips.

Lock and Unlock

A lock is used when multiple users need to access the Client concurrently. This prevents data from being corrupted or invalidated when multiple users try to write to the database.

To lock the Client, click **User→Lock** from the menu and the following figure is displayed:

Figure 5-16 User Lock



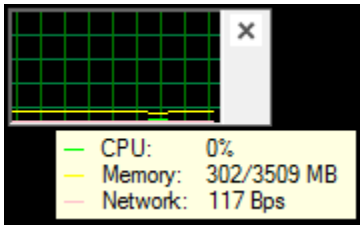
To unlock the Client, enter in “Password” and click **OK.**

Performance Monitor

The performance Monitor displays the CPU, memory and network usage of the Client in the system.

Click **Setup→Performance Monitor** from the menu and the window of performance monitor displays:

Figure 5-17 Performance Monitor



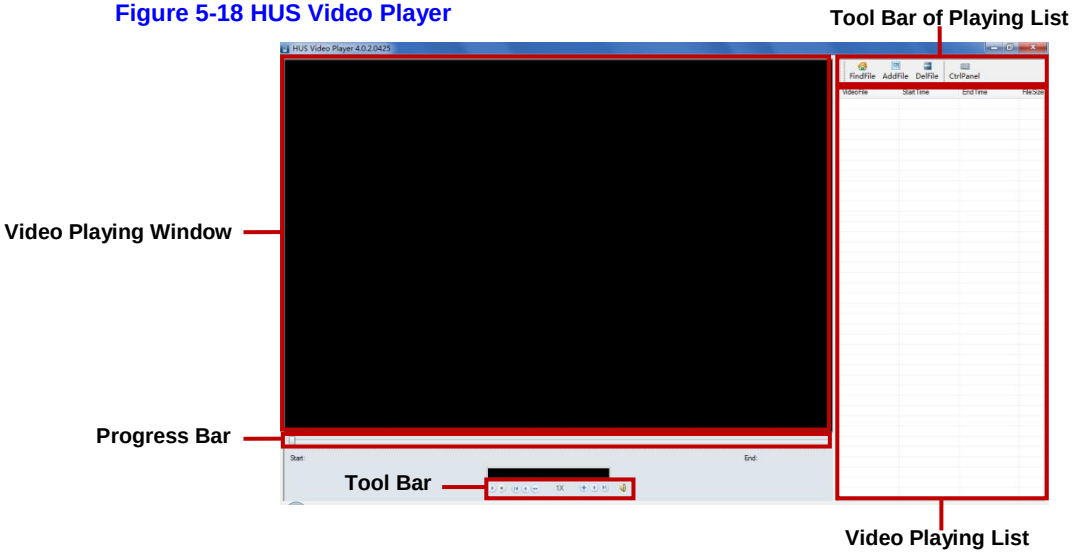
To exit the performance monitor, click **Setup→Performance Monitor** from the menu again or click ☒ in the right corner of the performance monitor window.

HUS Player

HUS Player is a standalone player for playing video. It is attached in the Client; while the HUS player can be downloaded from the "Data Management". To run the HUS Player, proceed as follows:

Click **Setup→System Tools→HUS Player** from the menu and then HUS Player is displayed:

Figure 5-18 HUS Video Player



HUS Player contains the following features:

1. Support playing video files in the system.

2. Support quick play (2, 4, 8, 16 or 32 times), slow play (1/2 or 1/4 times), step forward and step backward.

Find File

Click **Find File**, select target folder in the pop-up window and click **OK**. HUS player will automatically search and put all the.vdo files including those files in the subfolder to the video playing list.

Add File

Click **Add File** and select files in the pop-up window, then click **OK**. All the selected files will be put in the video playing list.

Delete File

Select the target files in the video playing list, click **Delete File**.

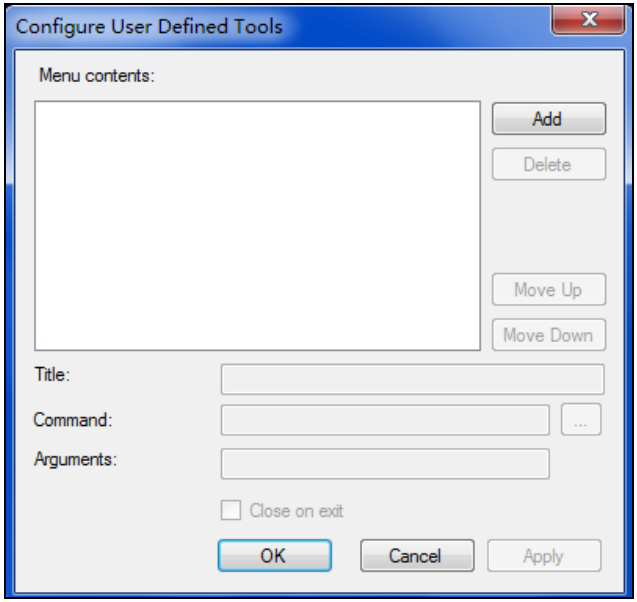
Control Panel

Click **CtrlPanel** to hide or display the control panel.

User-defined Tool

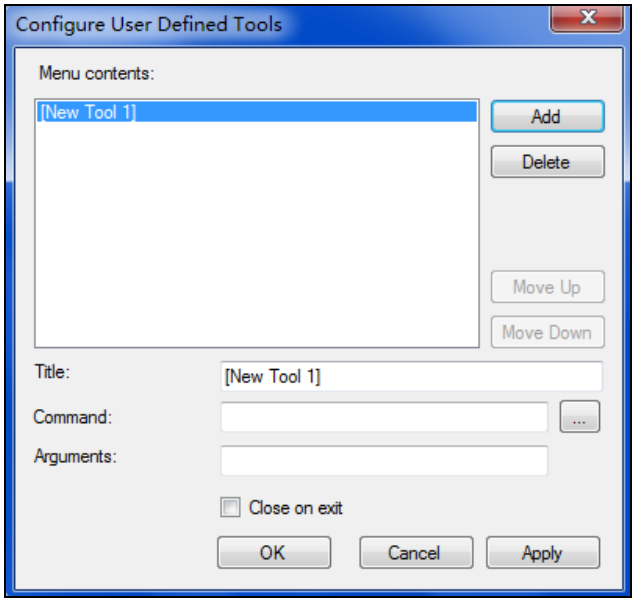
To configure customized shortcut keys of executable applications, click **Setting → User-define Tool**. And the following figure is displayed:

Figure 5-19 User Defined Tools



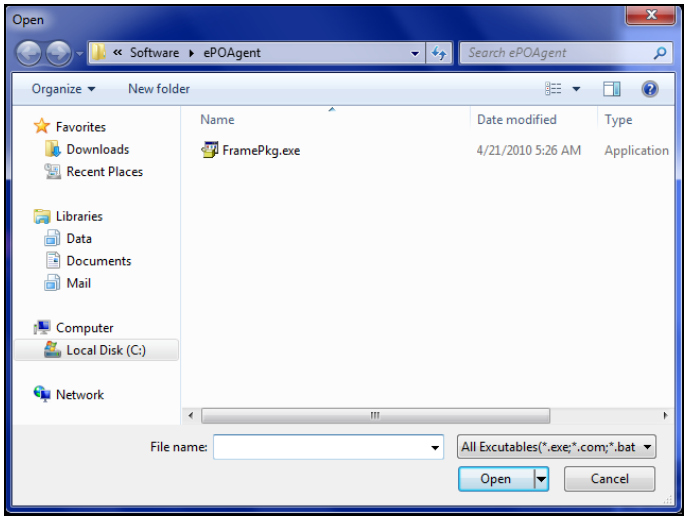
To add a new user-defined tool, Click **Add** and the following figure is displayed:

Figure 5-20 Add a New Tool



Enter the “Title” and click  beside the “Command” and the following figure is displayed:

Figure 5-21 Select the target file



Select the target.exe file, click **Open**. Then in the window of “Configure User defined Tools” enter **Arguments** (*Figure 5-20*), select the checkbox of “Close on exit” and click **OK.**

To delete user-defined tool, select the target tool from the menu contents and click **Delete** (*Figure 5-20*).

To Move the tool, select the target tool from the menu contents, click **Move up** or **Move down** then click **OK** (*Figure 5-20*)**.**

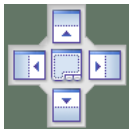
The system only supports adding tool in .exe format.

Pane Operation

The panes of function tab “Search& Playback”, “Map View”, “Map Edit”, “Data Management”, and information tab “Device Alarm”, “Task list”, “Device Status”, “Device Event”, “Rule Engine Service Interaction” and “System Information” can be exchanged, floated and relocated.

Click and drag a tab until the following buttons are displayed:

Figure 5-22 Navigation Buttons



Refer to the following table for functions of the navigation buttons:

Table 5-2 Navigation Button

Icon	Description
	Locate the target pane to the upper part of the whole window.
	Locate the target pane to the lower part of the whole window.
	Locate the target pane to the left of the whole window.
	Locate the target pane to the right of the whole window.
	Reset window layout and put the target tab to the end of the tab list.

Exchange the Tab Positions

Drag a tab and place it on another tab. For example: drag “Search&Playback” and place it on “Map View” as follows:

Figure 5-23 Exchange the Tab Positions

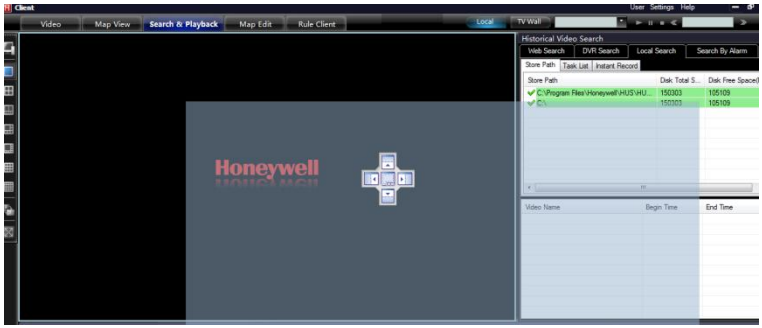
Drop the tab “Search& Playback” and the location of the two tabs are exchanged as shown below:

Figure 5-24 Result of Exchanged Tabs

Float the Pane

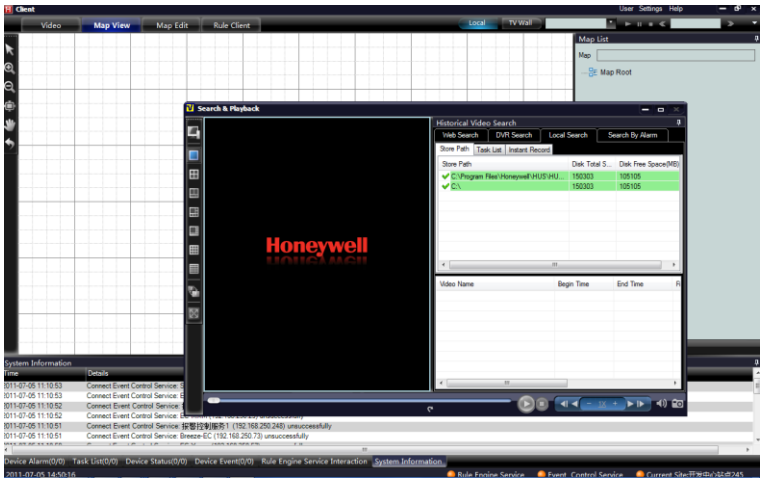
Drag a tab to any location of the window, as shown in the following figure:

Figure 5-25 Float the Pane



Drop this tab and the pane of the tab is floating on the main window, as shown in the following figure:

Figure 5-26 Floating of Panes



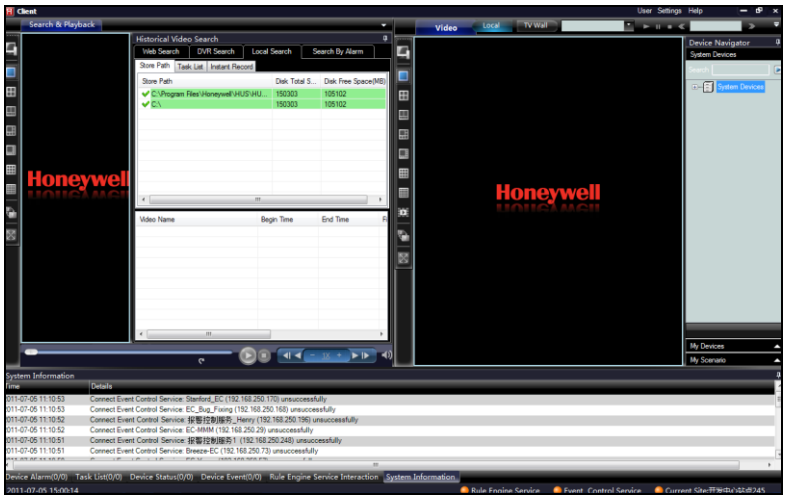
If the current monitor is connected with other monitors, the pane can be dragged to other monitors.

It is not supported to exchange or float the pane of “Video”.

Manage the Panes Layout

Drag the tab and put it on one of the direction button of  , then drop the tab, the pane is departed and relocated to the specific direction of the main window. For example, dragdrop “Search & Playback” to  and the pane of “Search & Playback” are relocated at the left side, as shown below:

Figure 5-27 Manage the Pane’s Layout



Reset the Window Layout

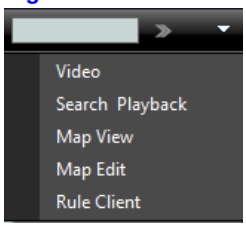
Perform one of the following methods to reset the window layout:

- Dragdrop the moved pane to  . And the target tab is put at the end of the tab list.
- Click **Setup→Reset the Window Layout** from the menu bar. And the window layout is reset to default.

Short cut of Function Tab

Click  beside the Patrol Setting Shortcut of the main window and the following figure is displayed:

Figure 5-28 Menu of the Function Tab Shortcut



Select the target function tab. Then it switches to the main screen of the target tab.

The Tooltips

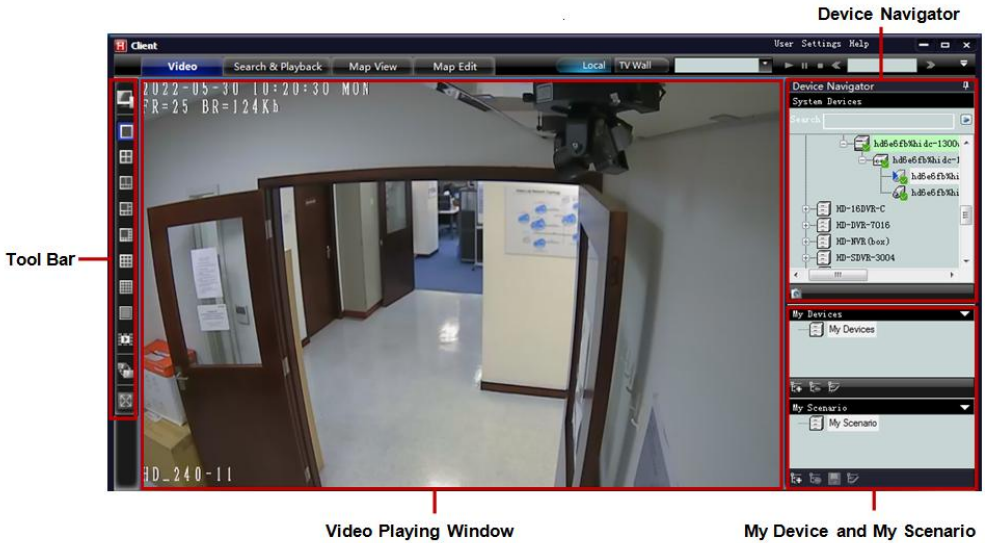
Tooltips help you learn the function of each button. If you move the pointer above any button in the interface, a tooltip with the button name displayed. The tool tips remains visible until you move your cursor away from the button.

Real-time Surveillance

In the main window of Client, click the “Video” tab.

In the workspace of the “Video” tab, you can view the real-time surveillance video and video records and configure the device settings. The workspace includes the toolbar, video playing window, device navigator and My Device and My Scenario.

Figure 5-29 Real-time Surveillance



Tool Bar

Refer to the following table for information of tools in the left tool bar.

Table 5-3 Video – Tool Bar

Icon	Description	Function
	Display Mode	Set the display mode: Local / TV Wall. TV Wall is not supported in this edition of HUS application.
	1-Window	When the “Display Mode” is set to “Local”, these icons are displayed. To set the window layout, click the corresponding icon.
	4-Window	
	6-WindowA	
	6-WindowB	
	8-Window	
	9-window	
	16-Window	
	36-Window	
	Surround View	
	TV Wall Layout	When the “Display Mode” is set to “TV Wall”, this icon is displayed. TV Wall is not supported in this edition of HUS application.
	Patrol Settings	Configure patrol settings and scenario settings. See “*Patrol*” section.
	Full Screen	Display the video window in full-screen mode.

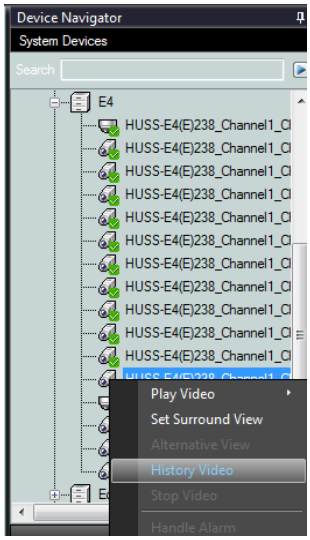
Device Navigator

Video devices are classified in folders and displayed in “Device Navigator” in the main window. The device data is defined in the Data Management Center and the structure cannot be modified in the HUS Client.

A video folder indicates a group of video devices, which is assigned with a certain position in the video window area. Each folder can contain several subfolders.

Right-click a device to show the menu items:

Figure 5-30 Right-click menu of Device Navigator



The right-click menu structure varies depending on device types (the table below does not cover all possible menu items):

Table 5-4 Right-click menu of Device Navigator

Menu item	Description
Play Video	Play video from the channel in the selected video window.
Play Surround View	Display the surround view of selected device. See *Surround View*.
Alternative view	Display the alternative view in the selected video window. See *Play the Alternative View*.
Historical Video	Display the historical video search window. You can search and view the historical video. See *Historical Video Search*.
Stop Video	Stop playing the video.
Delete Video	Delete the video or folder (only available in “My Devices”).
Handle Alarm	Process the alarm of the video channel.
Video Quality	Encode Type, Resolution, Video Quality, Frame Rate, Brightness and saturation (only available for certain device

	types).
OSD Location/Text/Font	Specify the OSD position, edit OSD text or set the text font (only available for certain encoder types).
Relay Control	Open/Close the relay of the encoder and control the output signal.
Dialogue	Start/Stop the intercom.

Device Type and Icon Definition

Refer to the following table for all the default device types. Users can customize icons of those devices in Data Management except “Folder”. For details refer to related chapters in “*HUS-SWP-32S User Guide*”.

Table 5-5 Device Types and Icon

Device Type	Status				
	Non-Status	Unknown	Online	Offline	Playing
Folder					
General					
Channel					
Streamer					
PTZ Streamer					

Alarm Level and Display Color

Refer to the following table for default color of each alarm displayed in alarm list view and device tree view, which are defined in Data Manage Center. For details refer to related chapters in “*HUS-SWP-32S User Guide*”.

Table 5-6 Alarm Display

Alarm Level	RGB
> 80	RGB (255, 34, 34)
> 60	RGB (255, 188, 188)

> 40	RGB (255, 240, 240)
> 20	RGB (187, 252, 187)
<= 20	RGB (153, 252, 153)

Video Window Layout

To select the display mode, click  of the tool bar, and select **Local** or **TV Wall** mode.

TV Wall is not supported in this edition of HUS application.

Local Window Layout

There are eight types of local window layout: 1-Window, 4-Window, 6-WindowA, 6-WindowB, 8-Window, 9-window, 16-Window and Surround View. When the “Display Mode” is set to “Local”, these icons are displayed in the tool bar. To set the window layout, click the corresponding icon. Then the button will be highlighted in blue.

Patrol

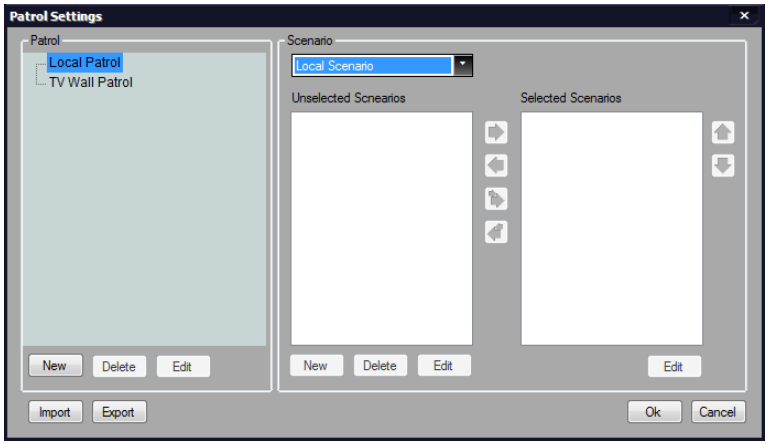
Patrol is one of the methods to automatically play videos of multiple channels in specified windows by turns. It includes two types:

- Local Patrol – Patrol video is played in the video window of the Client.
- TV Wall Patrol – TV Wall is not supported in this edition of HUS application.

A patrol includes several scenarios and a scenario includes several video channels.

Click  in the tool bar and the following figure is displayed.

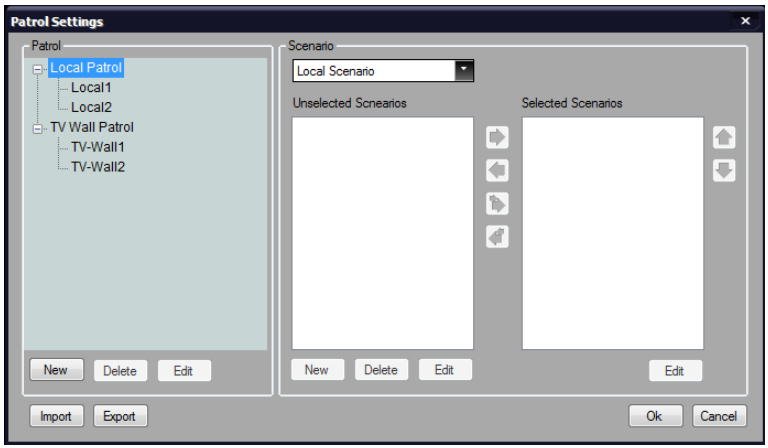
Figure 5-31 Patrol Settings



Patrol Setting

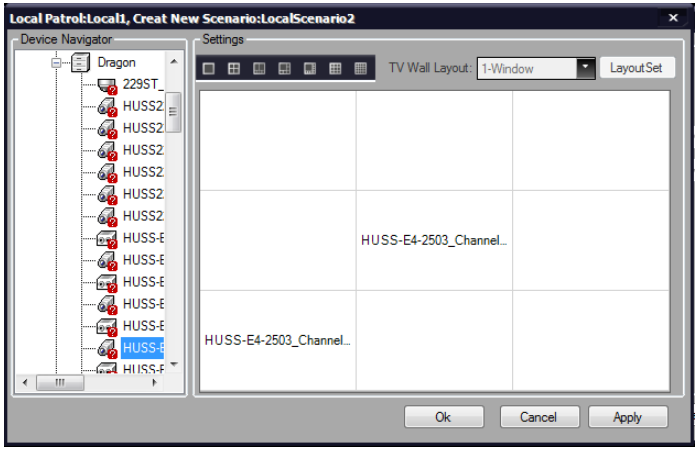
Explode “Local Patrol” and “TV Wall Patrol” in the Patrol Pane, all created patrols are listed as follows:

Figure 5-32 Set the Patrol



Click a patrol, and then under “Selected Scenarios” list all the scenarios under this patrol. Select a scenario and click **Edit**, the following window displaying all the setting information including window layout and every video device that added into each window is displayed:

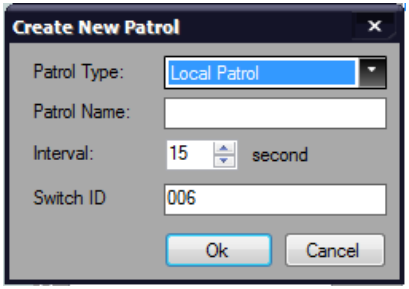
Figure 5-33 Scenario Settings of Patrols



Create a New Patrol

To create a new patrol, click **New** in *Figure 5-31* and the following window is displayed.

Figure 5-34 Create New Patrol



- Patrol Type – Local Patrol and TV-Wall Patrol
- Patrol Name – Enter the name of the new patrol
- Interval – Set the time interval (second)
- Switch ID –Switch ID is not supported in this edition of HUS application.

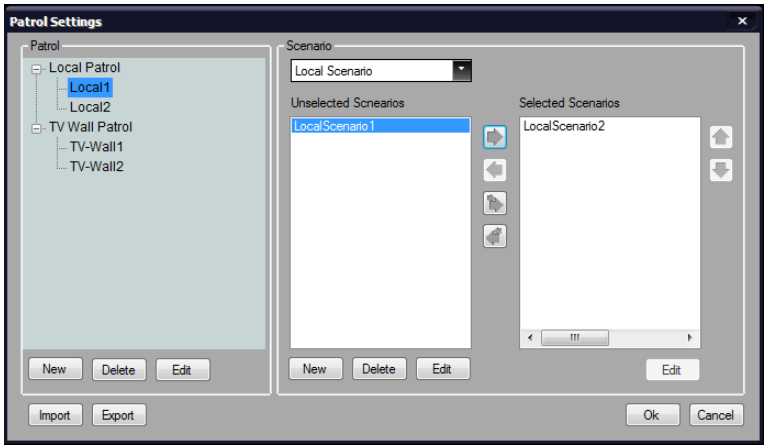
Switch ID is not supported in this edition of HUS application.

Click **OK** to save the new patrol.

Adding Scenarios to Patrols:

Select the new patrol just created in the “Patrol” pane, then in the “scenario” lists all scenarios created in Patrol Setting and My Scenarios. To add a local scenario, select Local Scenarios or Surround View Scenarios as follows:

Figure 5-35 Patrol Settings



Refer to the following table for button functions:

Table 5-7 Button Description of Patrol Settings

Icon	Function
	Move the target unselected scenario to selected scenarios.
	Move the target select scenario back to unselected scenarios.
	Move all the unselected scenarios to selected scenarios.
	Move all the selected scenarios back to unselected scenarios.
	Move the target scenario upper a location.
	Move the target scenario down a location.

To add a scenario, select one unselected scenario and click  . Follow this way to add more scenarios to the patrol. Click  to delete a selected scenario. To arrange the selected scenarios, click  .

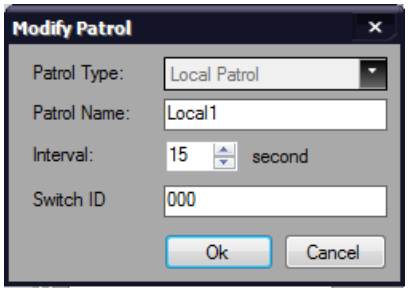
Delete a Patrol

To delete a patrol, select the target patrol in the “Patrol” pane (*Figure 5-31*) and click **Delete**.

Modify a Patrol

To modify an existing patrol, select the target patrol in the “Patrol” pane (*Figure 5-31*) and click **Edit.** Modify the patrol settings in the pop-up window.

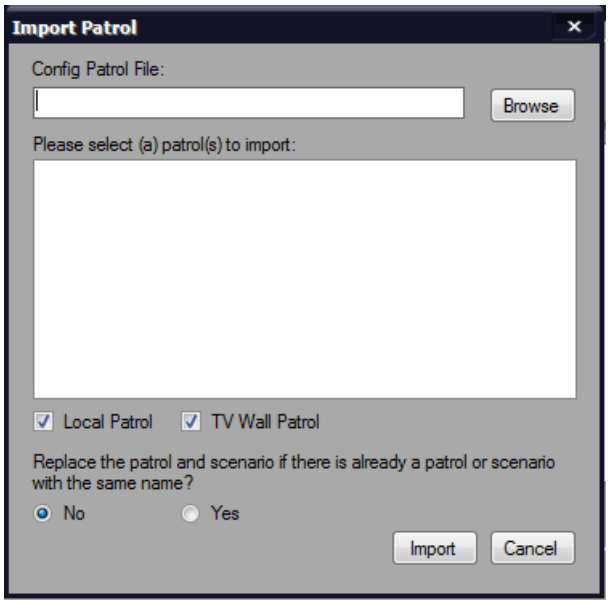
Figure 5-36 Modify Patrol



Import a Patrol

To import a patrol, click **Import** in *Figure 5-31* and the following window pops up.

Figure 5-37 Import Patrol



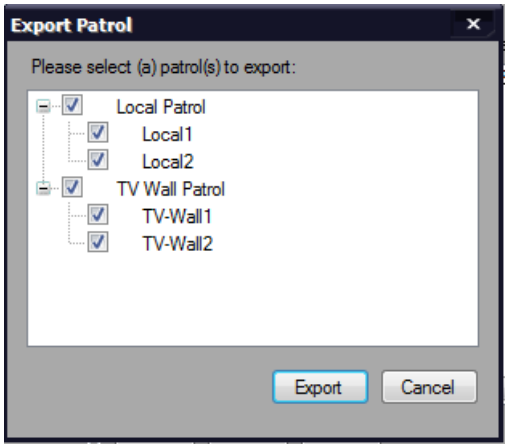
XML patrol file can be imported. Select the patrol type and specify whether to overwrite the duplicated file.

Some devices cannot be displayed if the devices configured for the current user in Data Management Center do not cover all devices in the imported patrol.

Export a Patrol

To import a patrol, click **Export** in *Figure 5-31* and export the patrol file as XML file.

Figure 5-38 Export Patrol



Check the target patrol and click **Export**. Specify the directory in the pop-up window and the patrol is saved as XML file.

Scenario Setting

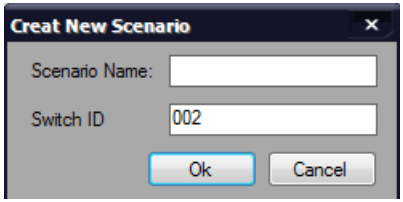
Create a new Scenario

There are two type of scenario: Local Scenario and TV Wall Scenario.

To create a new local scenario:

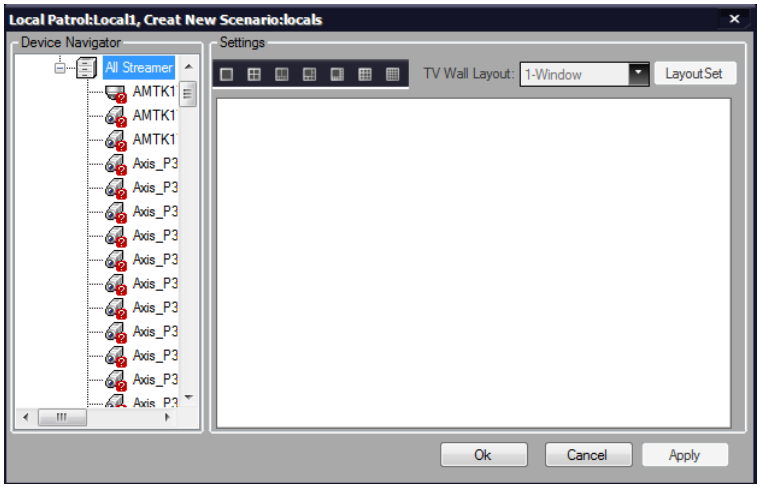
Select a local patrol in the patrol pane and click **New** in the “Scenario” pane (*Figure 5-31*) and the following window pops up.

Figure 5-39 Create New Scenario



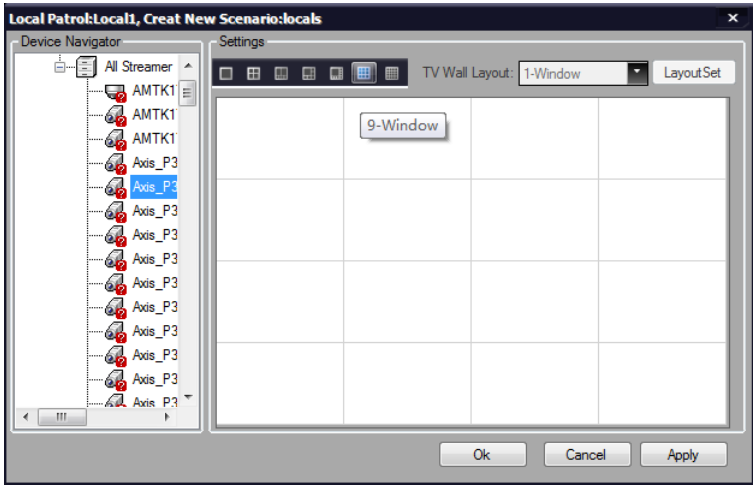
Enter the name of the new scenario, set the switch ID and click **OK** to save the setting, and the following figure is displayed:

Figure 5-40 New Scenario Settings



Select the window layout on the top and the selected one is highlighted in blue as follows:

Figure 5-41 Select the Window Layout



Drag video devices from the Device Navigator to corresponding windows and click **OK**.

To create a TV Wall scenario:

TV Wall is not supported in this edition of HUS application.

Delete a Scenario

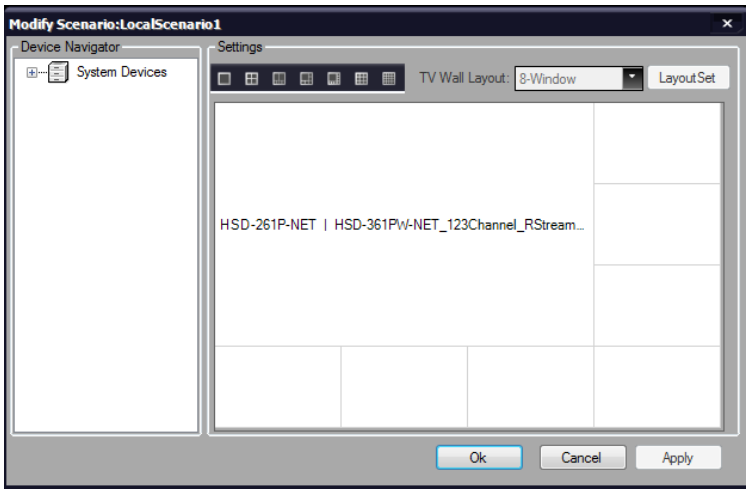
To delete a scenario, perform one of the following methods:

- Select the target one in the “Scenario” pane and click **Delete** (*Figure 5-31*).
- In “ My Scenario”, delete the scenarios, see “*My Device and My Scenario*” section on page *47*

Modify a Scenario

To modify an existing scenario, select the target in the “Scenario” pane (*Figure 5-31*) and click **Edit**. The following window is displayed:

Figure 5-42 Modify Scenario



Video devices in the left pane can be dragged into windows. For a TV-Wall patrol, the video device should be compatible with the corresponding decoder.

To modify the scenario name, see “*My Device and My Scenario”* section on Page *47*.

To delete the video device in a window, right-click the window and select **Delete** as shown in the following figure.

Figure 5-43 Delete Video Device

The scenarios only can be edited when no patrol is playing otherwise error message will pop up.

Play the Patrol

See "*Patrol Setting Shortcut*" section.

Video Control Operation

Figure 5-44 Video

Playing the Video

- Right-click a device group and select **Play Video**. The videos in the folder will be played in the video windows (the videos in its subfolder will not be played). Right-click a

video channel and select **Play Video** and the video will be played in the currently selected window.

- Click a video channel in the Device Navigator and drag and drop it into a video window. The video of the channel will be played in the window.

Surround View

Surround View is a special video playing window layout. In a surround view, this video of the specific device is playing in the centre and the other surround video can be configured. Every video device can be configured one surround view scenario (See *Figure 5-45*).

Every user has the authority to play the surround view. To configure the surround view, the user must be assigned the authority. Refer to "*User Management*" section of "*HUS-SWP-32S User Guide*".

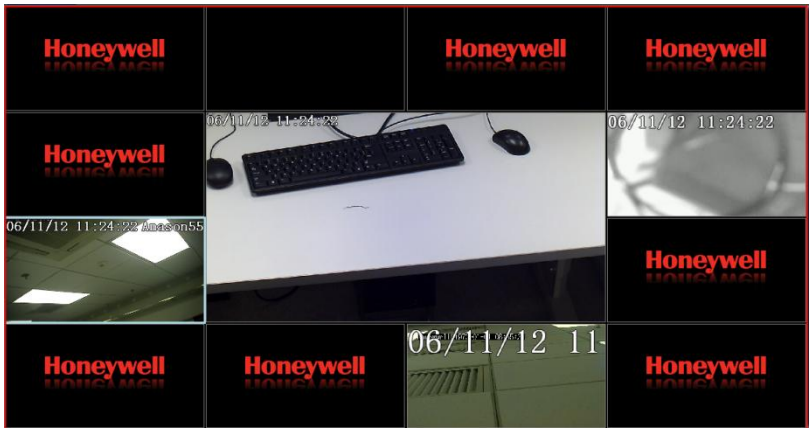
To play the surround view:

Right-click the target video device in the device navigator, select **Play Surround View.**

To figure the surround view:

Right-click the target video device in the device navigator, select **Configure Surround View.** The video of target device is playing in the centre as follows:

Figure 5-45 Surround View



Drag other video devices in the device navigator to the surround windows and click on the tool bar to save the settings. The surround view is saved as a surround view scenario and can be used in Patrol Setting.

Play the Alternative View

Each video device can be configured only one alternative view. The alternative device is related with the target device. For example, if the target device is abnormal, it will play the video of the alternative device.

The alternative view is configured in "*Adding Devices*" in Data Management. Refer to "*Adding Devices*" section of "*HUS-SWP-32S User Guide*".

Perform one of the following methods to play the alternative view:

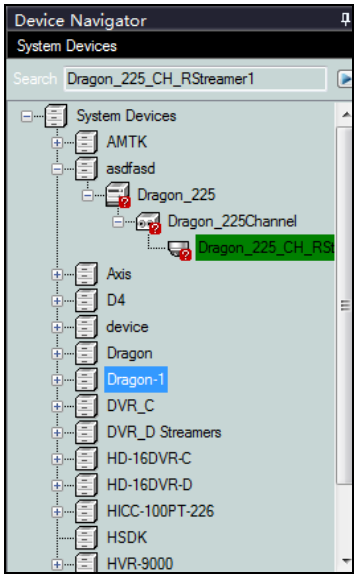
- Right-click the target video device and select **Alternative View**.
- Right-click the target device video playing window and select **Alternative View**.

Searching Video

In the video list, you can search videos by entering the information in the "Search" field and clicking  .

The target videos are highlighted with green, otherwise a window pops up showing that no result is available. Keep clicking  to highlight the video one by one.

Figure 5-46 Video Search



Stopping Video

- Right-click the target video device in the Device Navigator and select **Stop Video**.

- Right-click the playing window and select **Stop Video**.

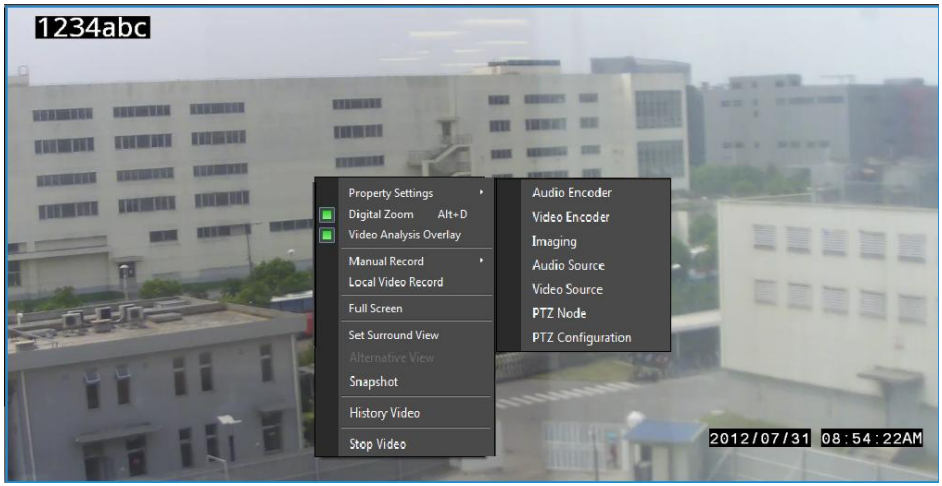
Video Switch between Windows

Click a video window and drag and drop it into another window. The video of these two windows will exchange places.

Video Window Operations

Right-click menu of the video window is shown in the following configure:

Figure 5-47 Right-click Menu of Video Window



The menu structure varies depending on device types.

Table 5-8 Right-click Menu of Video Window

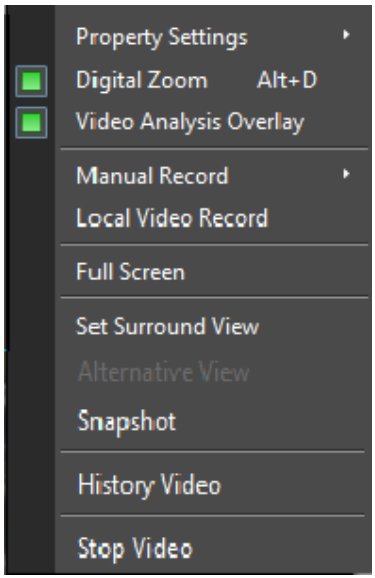
Menu Item	Description
Property Settings	Configure settings including Video quality, character overlap, Device recording, OSD and so on.
Digital Zoom	Enable or disable digital zoom. When digital zoom is disabled PTZ zoom is enabled.
Manual Record	Manually start recording and specify the Streaming Service for storing the video files.
Local Video Record	Record the current video and save it in a local directory. The default directory is "*C:\Program Files\Honeywell\HUSClient\Video Client\DownloadFolder*"

Snapshot	Take a snapshot of the video image and the image is saved in "*C:\Program Files\Honeywell\HUSClient\Video Client\Pic*". To modify the directory, select **Setting→Options**.
Full Screen	Display the video window in full-screen mode.
Close Video	Stop the video playing in the current window.

Digital Zoom

Digital zoom allows viewing the desire image in a larger view by zooming the image digitally. Right-click the video window and check **Digital Zoom** as the zoom mode:

Figure 5-48 Digital Zoom



In the video window, move the cursor to the left bottom corner, and the video control tool bar is displayed including zoom in, zoom out, snapshot, dialogue, local record and manual record as follows from left to right:

Figure 5-49 Digital Zoom Control Panel

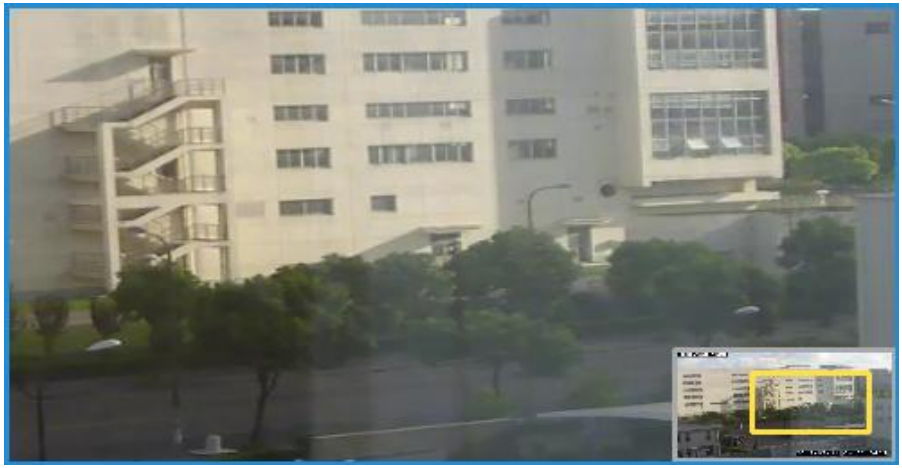
To zoom in the target area of video, click and drag in the playing video, and then this area is highlighted with red line as follows:

Figure 5-50 Digital Box Selection

After the image is zoomed in, a navigator of the entire camera view, displays at the bottom right corner of the video window. The yellow frame in the navigator indicates the zoomed area and it is for orientation and navigation. And drag the board of the navigator to adjust its size or directly drag it to relocate it:

You can drag the yellow frame to move the image, or drag the boarder of the yellow frame to zoom in or zoomed out; or select “Pan” from the right-click menu (Alt+P) and the cursor turned in to  icon, move the icon to pan the image to the corresponding direction.

Figure 5-51 Digital Navigator



To restore the image of 100% of the normal size, double-click inside the navigator or right-click the video window and select “Reset the scaling (**Alt+ Z**)” while the navigator is closed automatically.

PTZ Control

To select PTZ Control, right-click the video playing window and uncheck **Digital Zoom** (*Figure 5-48*)**.** Users can select either Digital Control or PTZ control.

PTZ control is used for adjusting PTZ movement and setting the focus, aperture and preset bit of the camera. It is only available when the property of the device channel is set as “Dome” and a dome is directly connected to the channel.

Common PTZ control can be achieved directly in the video window. For example, move the focus to the right edge while the focus changes into and click the mouse for the PTZ to turn right. Video Control toolbar (*Figure 5-52*) includes all PTZ operations.

Preset settings:

- Set a preset point: Click on the video control toolbar, enter the “Present Number” and click **OK**. The present location of the view is set as a present point.

- Locate to a present: Click on the video control toolbar, enter the “Present Number” and click **OK**. The present view is set to the target present point.

- Delete a present point: Click on the video control toolbar, enter the “Present Number” and click **OK**.

Video Control Toolbar

Select a video window which is playing video and move the focus to the bottom of the window, so the video control toolbar is displayed.

Figure 5-52 Video Control Toolbar

You can perform related operations using the buttons, including Zoom in and out, preset point settings, Video Quality and so on.

The toolbar function varies depending on the device and user authorities.

Switching to 1-window mode

Double-click a video window to switch to 1-window mode. Double-click it again to return to the previous display mode.

View Full-screen

Right-click a video window and select “Full Screen” to enlarge the scale of all video windows to full-screen. To return to the previous display mode, right-click it and select “Exit Full Screen”.

Instant Playback

Instant Playback is used for playing the latest 30 seconds video. It is used for monitoring emergent situation. This function is enabled by default. If the user wants to disable this function, click **Settings→Options** and uncheck “Enable Instant Playback”.

- View the instant playback: Click  on the bottom right corner of the video window. And it displays instant playback while the left top corner displays “Live” and “Playback”. The “Playback” label is highlighted in blue as follows:

Figure 5-53 Instant Playback

- Store the instant playback video: In the playback window, click  in the right bottom corner. In the pop-up window, enter the file name and specify the file directory and click **OK**.

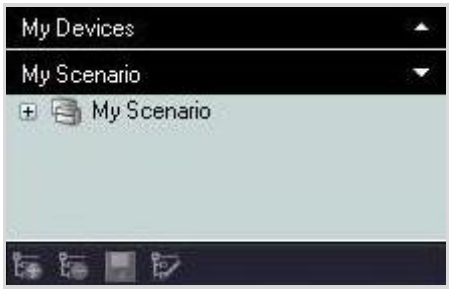
- Close the instant playback video: In the playback window, click  in the bottom right corner and click **OK** to close the instant playback video.

- Switch to the real-time video: In the playback window, click “Live” on the top left corner and it switches to the real time video.

My Device and My Scenario

Below the “Device Navigator”, there are two panes: “My Devices” and “My Scenario”, where you can create a device/scenario folder and drag devices/scenarios into it.

Figure 5-54 “My Devices” and “My Scenario”



Refer to the following tool bar introduction:

Table 5-9 Tool Bar

Icon	Function
	Add folders or scenarios.
	Delete folders or scenarios.
	Overwrite scenario.
	Rename folders or scenarios.

Manage My Devices

- Add a folder: Select a document in” My Devices”, click and enter the document name and press **Enter** on the keyboard.
- Delete a folder: Select the target folder. Click or right-click target folder and select **Delete**.
- Rename a folder: Select the target folder, click and enter the new name of the folder and then press **Enter** on the keyboard.
- Add devices to a folder: Drag a device from the “Device navigator” to the target folder and drop.
- Delete devices in the document: Select the target device, click or right-click the folder and select **Delete**.

Manage My Scenarios

- Play a scenario: Right-click the target scenario and select **Play the scenario.**

- Stop a scenario: Select the playing scenario and click **Stop Playing**.
- Reset the Switch ID: **Switch ID** is not supported in this edition of HUS application.
- Delete a scenario: Select the target scenario and click  or right-click the target scenario and select **Delete**.
- Store the current window playing view as a scenario: In Video function tab, unselect any scenario, click  and enter “Scenario name” and “Switch ID”. The current window playing view will be stored as a new scenario.
- Rename a scenario: Select the target scenario, click  , enter the new name and press **Enter**.
- Overwrite the scenario: Select the target scenario, click  and click **OK** in the pop-up window. The target scenario is overwritten by the current window playing view.

Video Search and Playback

Click the “Search & Playback” tab in the main window of Client to search and play video records. It includes the toolbar, video window and the “Historical Video Search” pane.

Figure 5-55 Search & Playback

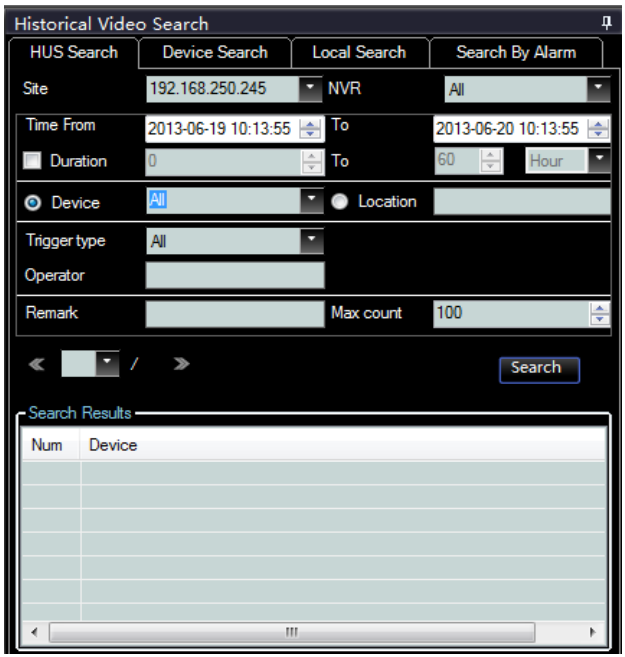
Toolbar

See "*Tool Bar*" section.

Historical Video Search

"Historical Video Search" pane contains four tabs: "Web Search", "DVR Search", "Local Search" and "Search By Alarm".

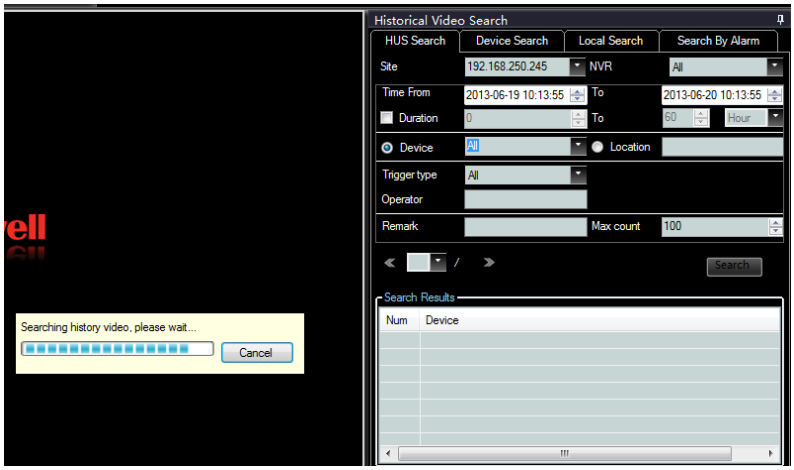
Figure 5-56 Historical Video Search



Web Search

To search video records in the HUS-NVR, click the "Web Search" tab and set the searching criteria. Click **Search** to start searching and a progress bar is displayed.

Figure 5-57 Web Search



The results are listed in the “Search Results” field, as shown in the following figure:

Figure 5-58 Search Results

Click **<<** to view the previous page; click **>>** to view the next page; select the page number in the drop-down list to switch to the corresponding page.

To play a video record, you can directly double-click it or drag and drop it into a video window.

DVR Search

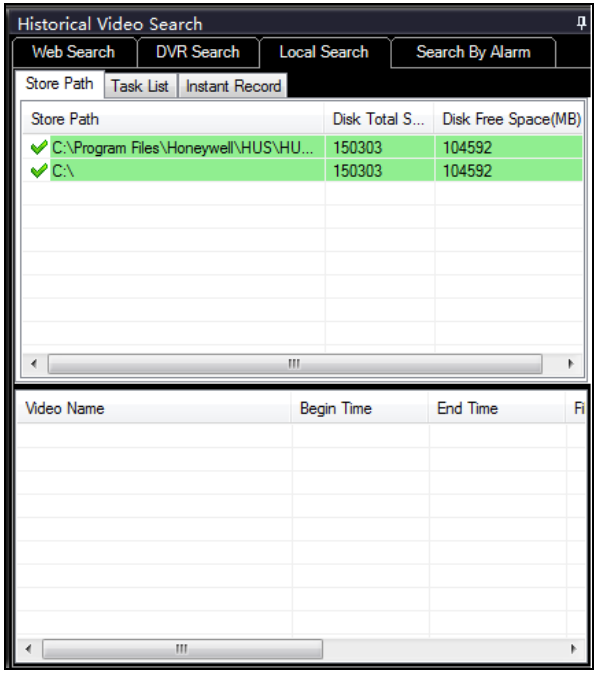
“DVR Search” is not supported in this edition of HUS application

Local Search

To view local video records, click the “Local Search” tab. It includes three tabs:

- Store Path – The records are listed according to the store path;

Figure 5-59 Local Search – Store Path

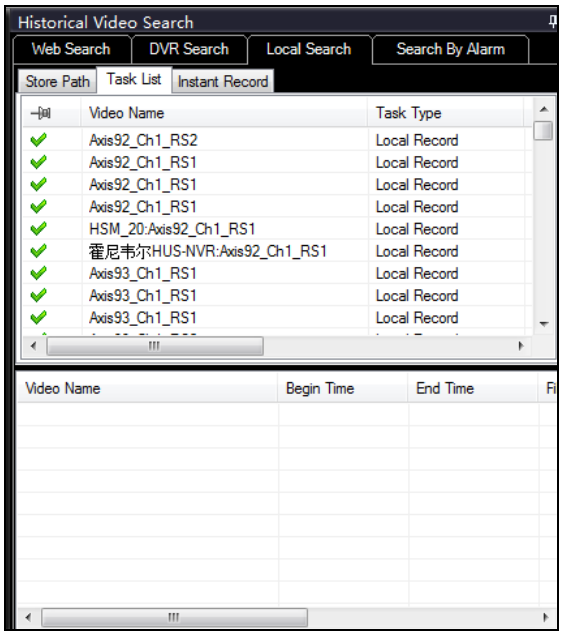


Right-click a record to display the pop-up menu, select “Add a new store path” or “delete an existing store path (Keep at least one store path).

Right-click one record from the “Search Result”, select “Play”, “Copy” or “Delete”.

- Task List – The records are listed according to the task (recording and download).

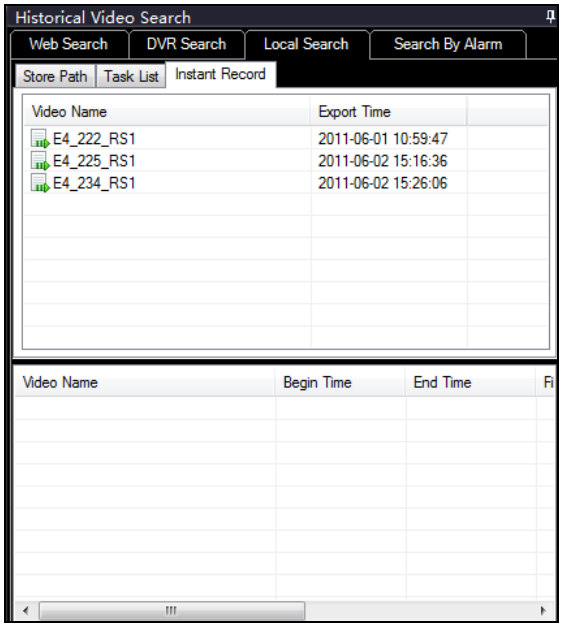
Figure 5-60 Local Path – Task List



Right-click the task and it displays the menu items by which you can end or delete the task; to perform the same operation to all tasks, select “All” first.

- Instant Record – The records are listed according to stored time.

Figure 5-61 Instant Record

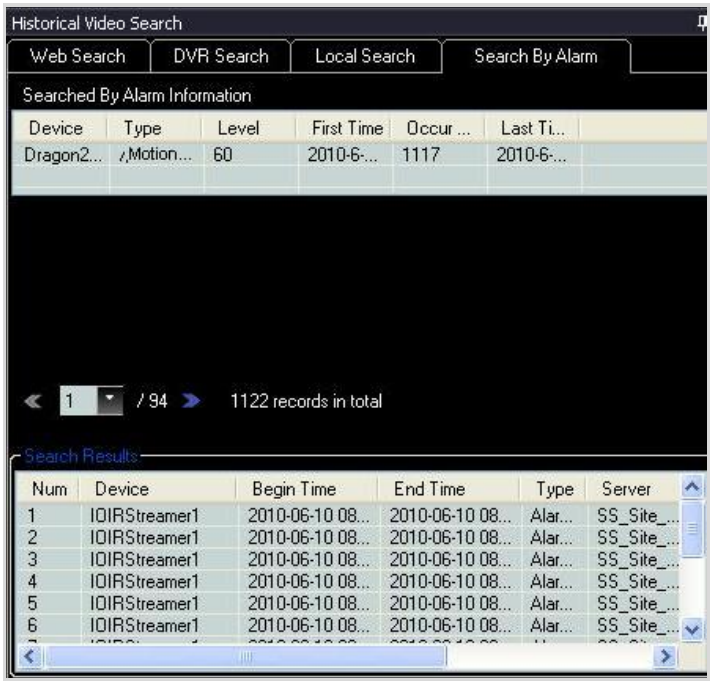


In this window, the user can check the property, delete or copy the recorded instant record.

Search by Alarm

To view alarm video records, directly click the “Search By Alarm” tab; or select **View Video→History Video** from the right-click menu in the “Device Alarm” tab of the “Information” pane and it switches to the “Search By Alarm” tab, as shown in the following figure.

Figure 5-62 Search By Alarm



Right-click the video record and it displays the menu items by which you can play the video record or download the video record.

Historical Video Play

Perform one of the following methods to play the historical video:

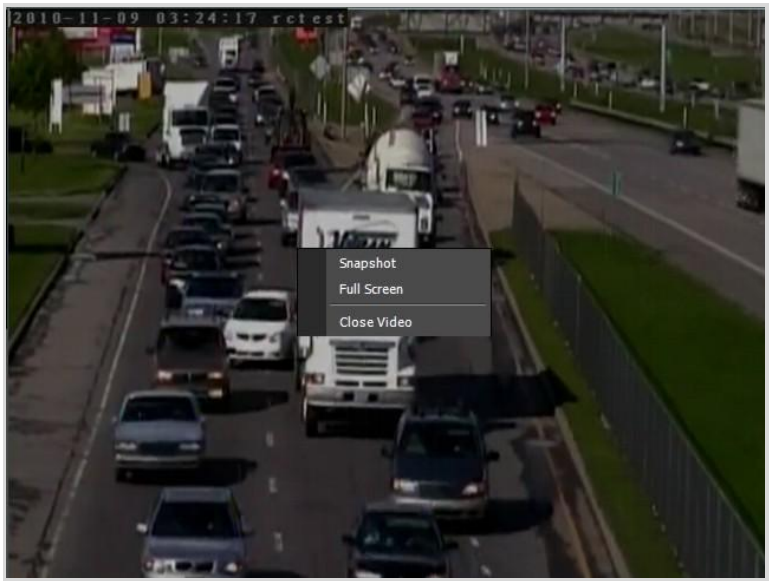
- Right-click the target record of the Search Result list and selects **Play,** or double-clicks the target record.
- Drag the target record of the Search Result list to a window.

Users can do the relative operation and timeline operation in the video playback window.

Video Playback Window Operation

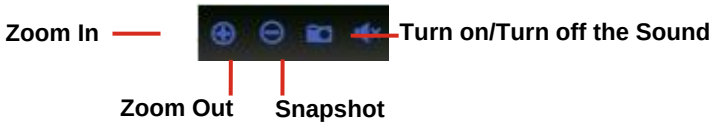
In the video playback window, you can take snapshots, display in full screen or close video, right-click the playback window and it displays the menu items:

Figure 5-63 Video Playback Window



Place the cursor at the lower left corner of the window, from the hidden control panel you can zoom in, zoom out, take snapshots, turn on or turn off the sound as follows:

Figure 5-64 Hide Control Panel



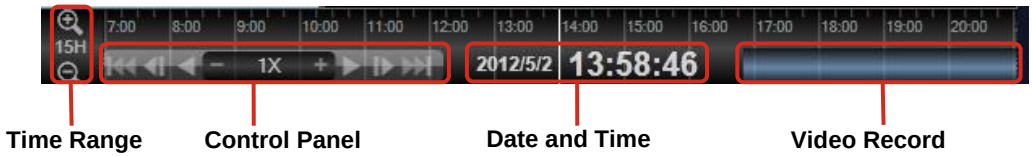
To modify the default stored location of snapshots, click **Setting→Option.**

Snapshot function is only available for a user that has the corresponding privilege.

Timeline

Timeline at the bottom of the historical video window includes Time Range, Control Panel, Date and Time and Video Record. HUS provides a clear overview of historical video record over extended periods of the specific devices on HUS-SWP-32S server. Using timeline, the user can easily search and play the video by specifying the date and time, frame-by-frame, at different speeds, forward and reverse.

Figure 5-65 Timeline

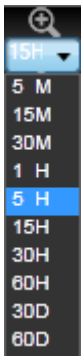


Scaling the Timeline

A time range is displayed in the lower part of the timeline window. The number indicates the timescale: 5M (5 minutes), 15M (15 minutes), 30M (30 minutes), 1H (1 hour), 5H (5 hours), 15H (15hours), 30H (30 hours), 60H (60 hours), 30D (30 days) and 60D (60 days). Perform one of the following methods to set the time range:

- Click 15H , select the time range from the pop-up menu as follows:

Figure 5-66 Timeline Scale



- Click to switch to the next time range or click to switch to the previous time range.
- Place the cursor on the timeline and move the mouse's scroll wheel to switch the time range. Move the mouse's scroll wheel forward and release to switch to the previous time range; move the mouse's scroll wheel backward and release to switch to the next time range.

Playing the Historical Video by Specifying Date and Time

Click the range of date and time, a calendar is displayed as follows:

Figure 5-67 Playing the Historical Video by Specifying Date and Time

Select the target date and time, click **OK** to play the historical video.

Setting the Video Play Time by Dragging the Timeline

Drag the timeline rightward or leftward and release the mouse to play the video record. Drag rightward to play previous video record; drag leftward to play next video record.

Video Record

Color-coded parts on the timeline are used to indicate information of the current device.

- Black (blank area) – No video.
- Blue – Video is recorded on HUS-SWP-32S.
- Grey – Video is recorded on HUS-SWP-32S but video task (HUS-NVR) is failed.

Viewing Video Information

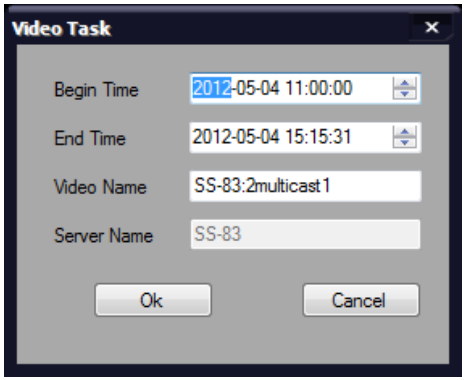
Place the cursor on the blue part and it displays the device name.

Click the grey part, and it displays the alarm information for record failure. (Currently it only displays record failure of HUS-NVR.)

Downloading the Record to Local

Right-click the blue part and select “Download”. And the following window is displayed:

Figure 5-68 Downloading the Record to Local

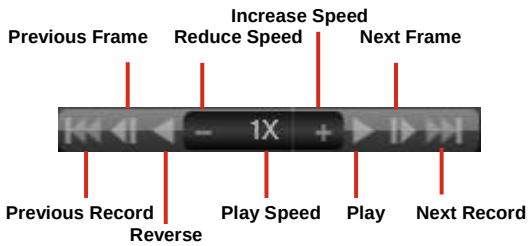


Select the begin Time and end time to download and click **OK.** A task will be displayed in "Task list" of "Local Research" tab in" Historical Video Search" which indicates the download is correct. You can check the information of the downloading record and the download progress.

Control Panel

Use control panel to precise playback, frame-by-frame playback, and adjustable-speed playback.

Figure 5-69 Video Record Control Panel



Playing the Video

Click to play video. The icon changes to . Click this icon again to stop.

Playing Frame-by-frame

Click to skip one frame forward and click to skip one frame backward of the selected historical video.

Next Record and Previous Record

Click to skip to the next video record and click to skip to the previous video record.

Adjustable-speed Playback

Click  to switch to the previous slower level speed, or click  to switch to the next faster speed level then click  to play or click  to play in reverse.  indicates the playing speed. The speeds range from 0.25X to 64X.

The following devices support Reverse, Next Frame and Previous Frame:

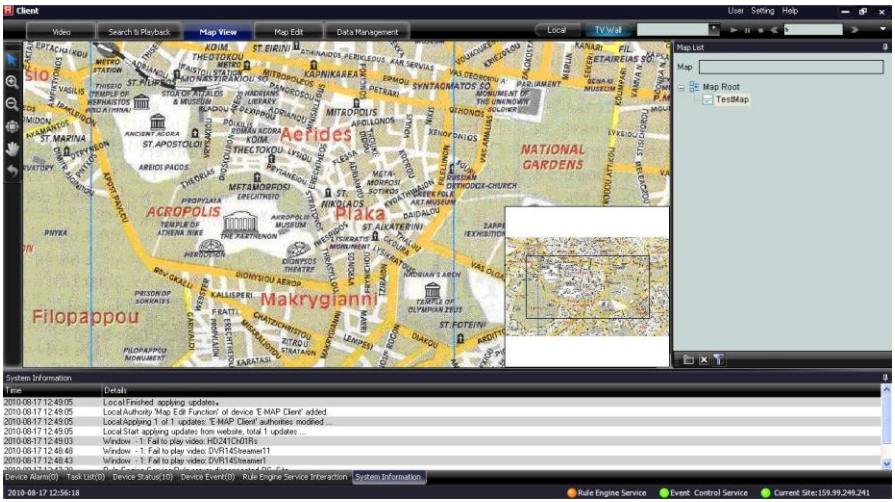
Super HD, AniraX and Fisheye.

Map View

In the main window of Client, click the “Map View” tab.

The “Map View” workspace provides central management of alarm points in a map view, including the toolbar, map window, map preview and map list.

Figure 5-70 Map View



Toolbar

Refer to the following table for information of tools in the left tool bar and at the bottom of the “Map List”.

Table 5-10 Map View – Toolbar

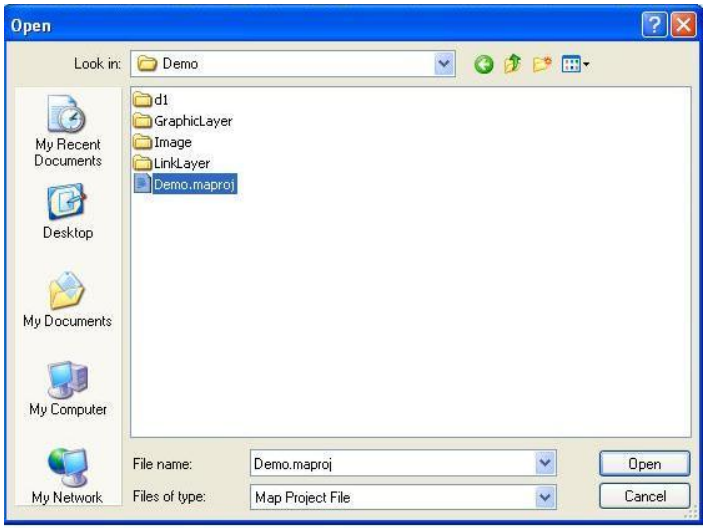
Icon	Name	Function
	Select	Select device point or link point in the map.
	Zoom In	Zoom in the map.
	Zoom Out	Zoom out the map.
	Full Extent	Display the map in the original scale.
	Pan	Move around the map to view all areas.
	Parent Map	Display the previous map view.
	Open Map	Open a map project.
	Close Map	Close the map project.
	Close All	Close all opened projects.
	Point Filter	Display the icons of link points of the selected map.

Map Operations

Opening a Map Project

Click  on the toolbar and the following window pops up:

Figure 5-71 Open Map Project



Select a ".mapproj" file and click **Open**. The map is displayed in the map window.

Closing a Map Project

To close a map, select it in the map list and click on the toolbar or select **Close** from the right-click menu; to close all maps, select **Close All**.

Selecting a Map Point

Click on the toolbar and click the point in the map. The selected map point is displayed within a red rectangle. Right-click it to view and perform available operations.

Zoom In

To zoom in on the map, click on the toolbar and perform one of the two methods below:

- Click a point in the map and the map display will be zoomed in by 150% focusing on the point as the center.
- Press the left button of the mouse and drag it to select an area and the Map display will be zoomed in.

Zoom Out

To zoom out, click and click at a point in the map. The map display will be zoomed out by 75% focusing on the point as the center till its original size

Full Extent

To display the map in full-screen mode, click  on the toolbar and click in the map window.

Moving around the Map

To move around the map, click  and then drag the map in the window to move the map view.

Viewing the Higher-level Map

If a sub-level map is currently displayed, click  on the toolbar to display the higher-level map.

Display/Hide the Map Point

Select a map node in the map list and click  on the toolbar. The icons of all map points will be listed under the map node. The map point is highlighted in the map by clicking corresponding icon in the list. To hide the map points, click  again.

Linkage Alarm

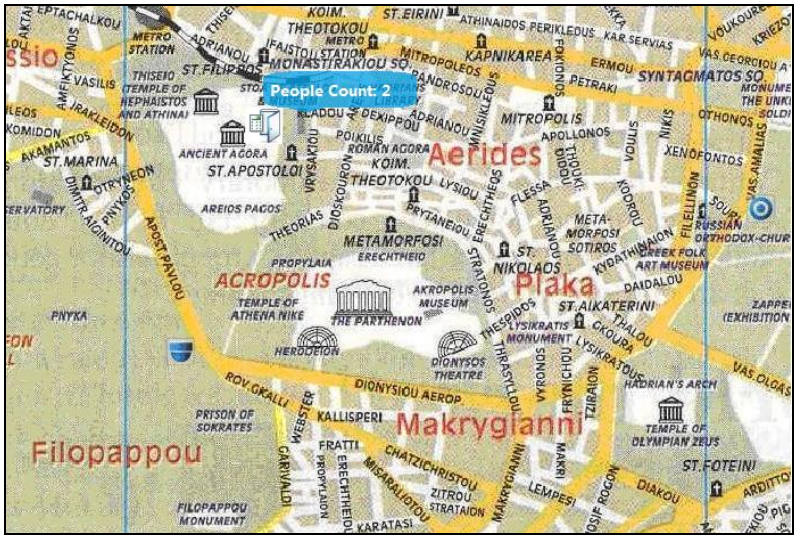
When an alarm occurs, the alarm information is displayed in the “Device Alarm” pane and the device point which is linked with the alarm device flickers.

If the point has a binding video, a video window will pop up playing the video when an alarm occurs. When the alarm has been processed, it will play the next alarm video; otherwise it will continue playing the current video.

If a linkage alarm has been set for the point, it will execute linkage commands according to priority levels when an alarm occurs.

If Pro-Watch devices are added to a map, the label on the device will display people count

Figure 5-72 Pro-Watch People Count

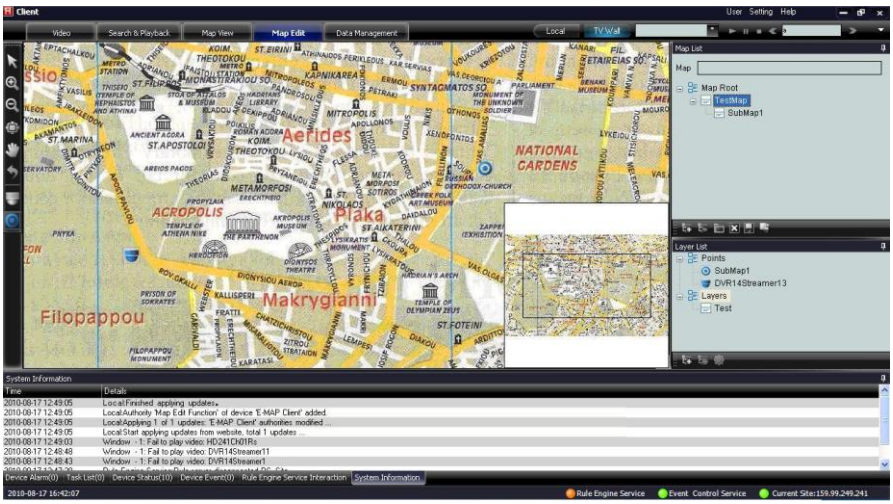


To check details, click the label. The displayed detail is related with the Pro-Watch card configuration.

Map Edit

To edit the map project, click the “Map Edit” tab. The “Map Edit” workspace includes the toolbar, map window, map list and layer list.

Figure 5-73 Map Edit



Toolbar

In the “Map Edit” tab page, the toolbar includes several icons which are the same as in the “Map View” tab and the following ones.

Table 5-11 Map Edit – Toolbar

Icon	Name	Function
	Add Device Point	Add a device point in the map.
	Add Map Point	Add sub-level map point.
	New Map	Create a new map project.
	Remove Map	Delete the map project.
	Save Map	Save modifications of the map project.
	Export Map	Export the map project.
	Add Layer	Add a layer to the current map project.
	Remove Layer	Delete the current layer.
	Layer Property	Pop up layer property setting window.

Editing Map Project

New Map Project

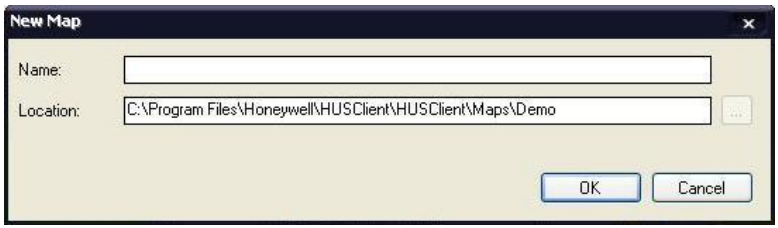
In the “Map Edit” tab, you can create a new map project or modify existing ones.

When creating a new map project or modifying an existing map project, click  to save the settings.

Creating a New Map Project

Select the “Map Root” in the map list and click  on the toolbar. The following window pops up.

Figure 5-74 New Map Project



Enter the map name and specify the directory. Click **OK**.

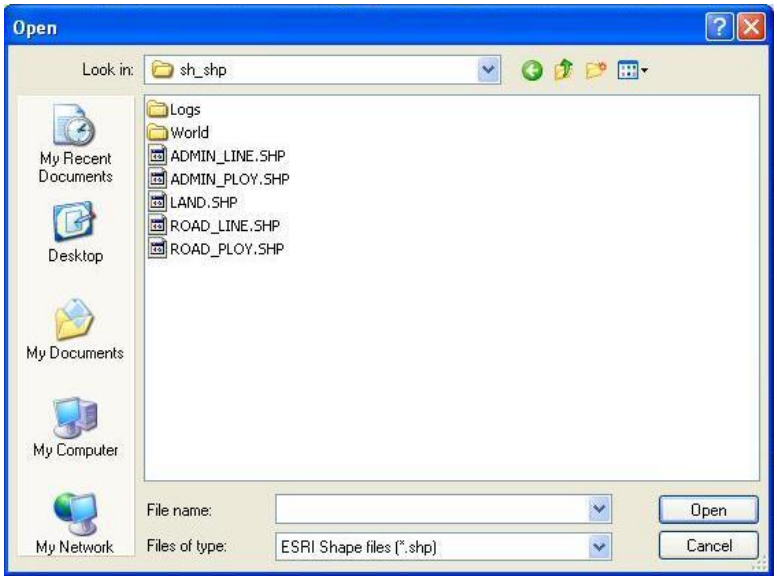
Adding a Sub-level Map project

Select the target map node in the map list and click on the toolbar. Enter the map name and specify the directory in the pop-up window. Click **OK** to add the new sub-level map project to the target map project.

Loading a Layer

To load a layer to the new map project, select the target map node and click . The following window pops up:

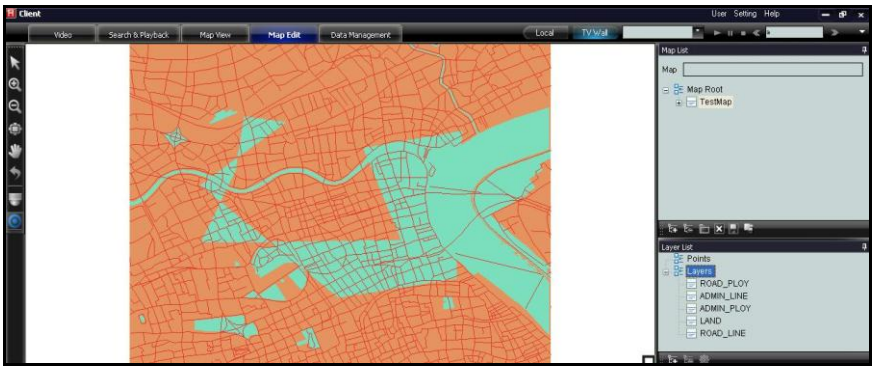
Figure 5-75 Select Layer File



Three types of layer file are supported: shape file, AutoCAD 2000 and static image. Select the file and click **Open**.

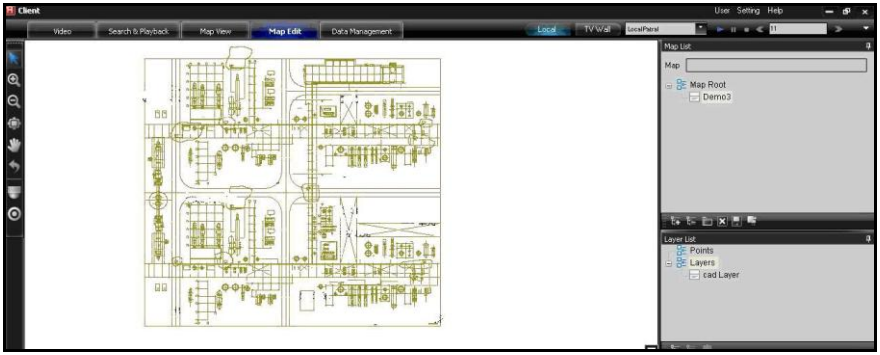
The following figure shows the display when the shape file is loaded.

Figure 5-76 Loading Shape File Complete



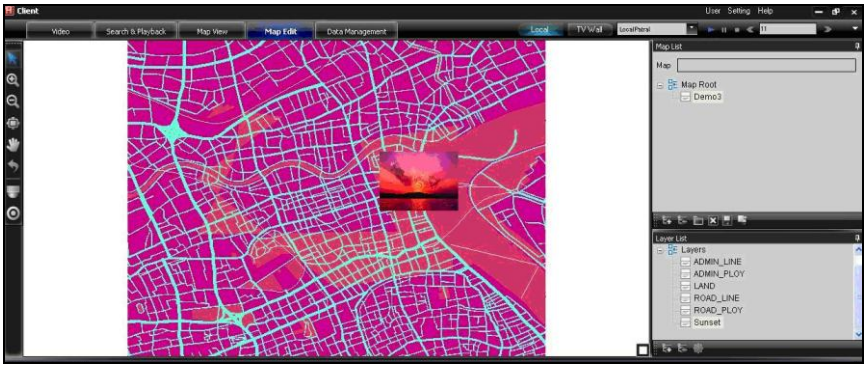
The following figure shows the display when the AutoCAD 2000 file is loaded.

Figure 5-77 Loading CAD 2000 File Complete



To load a static image file, select the file in *Figure 5-75* and click **Open**. Click at the point in the map and the static image will be displayed at its original size. Or press the left button of the mouse and drag an area in the map and the static image will be displayed within the set area. The following figure shows the display when the static image is loaded.

Figure 5-78 Loading Static Image is Complete



Adding Map Points

Link points includes device points and sub-level map points.

- The layout of the device points shows the distribution of the front-end devices in the system.
- The layout of the sub-level map points shows the layout of the sub-level maps in the map project.

To add a device point, click  and then click the point in the map where you want to place the device. Configure the device properties (see "*Device Point Property*" section) in the pop-up window and the device icon will be displayed at the target place.

To add a sub-level map point, click  and then click the point in the map where you want to place the sub-level map. Configure the properties of the sub-level map in the pop-up window and the icon of the sub-level map will be displayed at the target location.

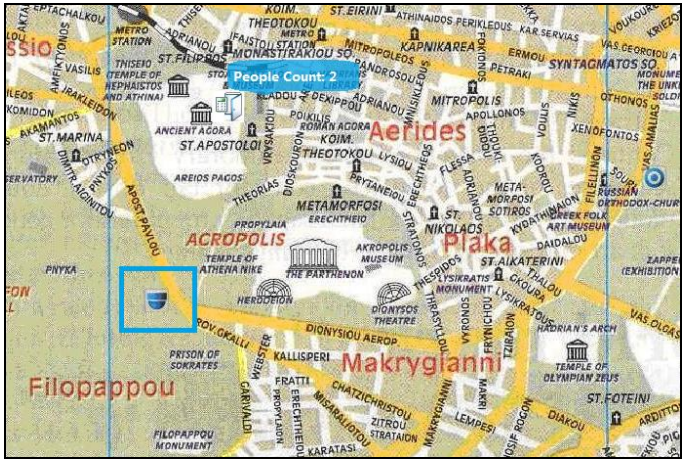
Sub-level map points can only be added in a map project which contains sub-level maps.

Adding Map Highlight Area:

This function is to highlight target area,

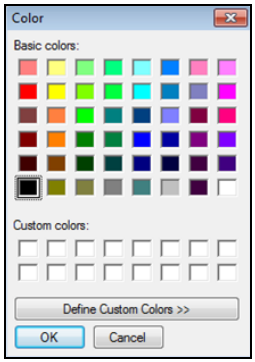
To add a highlight area, drag on the map and a red transparent marquee is displayed as below:

Figure 5-79 Adding Highlight Area



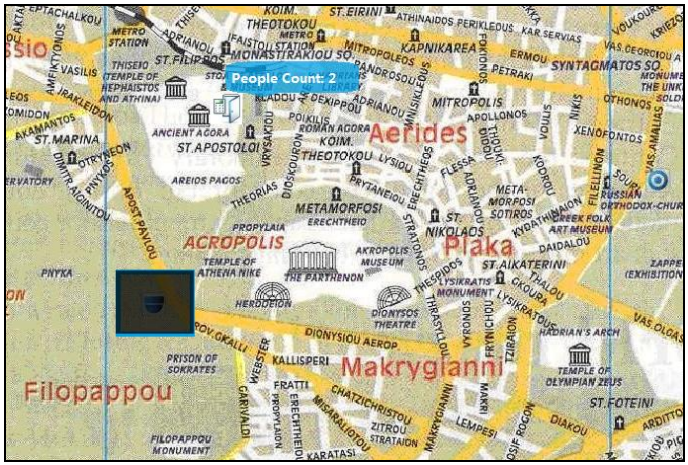
Drop the mouse, the follow window is displayed:

Figure 5-80 Selecting the Background Color



Select the color to be the background color and click **OK.** Then the following window is displayed:

Figure 5-81 Highlight Area Effect



To delete the highlight area, click on the area and press Enter.

Saving the Map Project

After finishing operations and settings in a map project, click  to save the modifications.

Exporting the Map Project

A map project can be exported as a folder and the map project can be applied in another computer in which the HUS Client is installed by copying the folder in the computer.

To export the map project, click  and specify the file directory. Click **OK**.

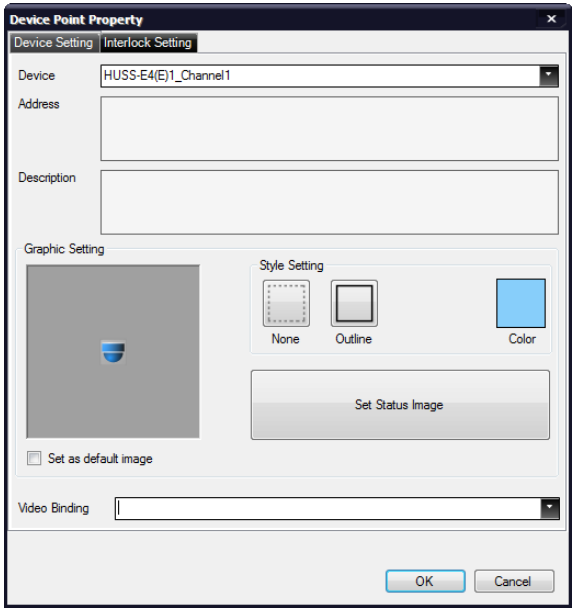
A stored map document can be copied, but don't modify any file in the document nor add, delete files in. Otherwise this document is unavailable. If files are added manually, the files added must be manually deleted when uninstalling the application.

Device Management

Device Point Property

When adding a device point in the map project, the following window pops up for configuring device properties:

Figure 5-82 Device Point Property

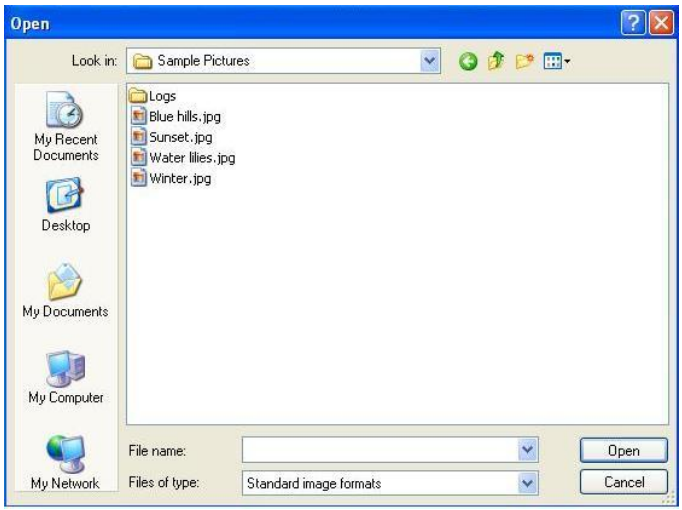


Select the target front-end device to link with the added device point.

In a map project, multiple device points cannot be linked to the same front-end device; otherwise an information window will be displayed.

Double-click the icon in the "Graphic Setting" field and the following window is displayed.

Figure 5-83 Select the Icon



Select a file and click **Open**. The new icon is displayed in the “Graphic Setting” field in the “Device Point Property” window.

If “Set as default image” is checked, the icon will be applied to newly added device points which link with the devices of the current type.

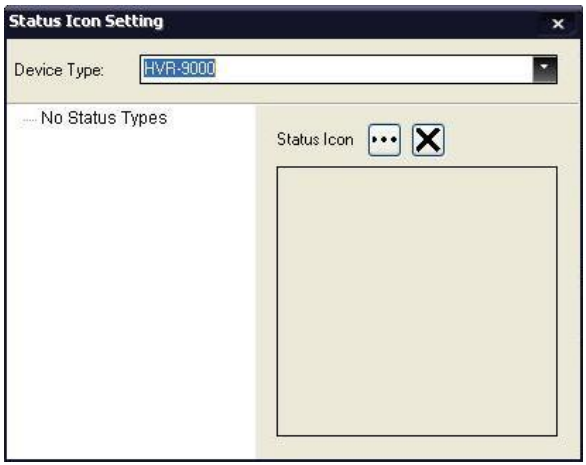
In the “Style Setting” field, click “None” or “Outline” to select whether or not to apply borders to the icon; click “Color” to set the color of the borders in the pop-up window.

For a non-video device, a video binding can be set to the device by selecting in the drop-down list of “Video Binding”. . When alarms come in, the link video will popped up.

Setting Status Icon

In the “Device Point Property” window (*Figure 5-82*), click **Set Status Image** and the following window pops up.

Figure 5-84 Status Icon Setting



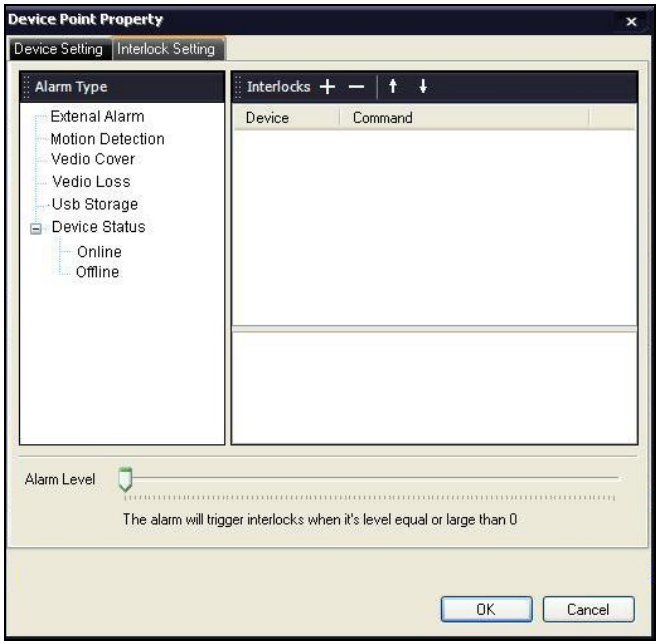
To set an icon to a status type, select a device type in the drop-down list of “Device Type” and it lists all status of the device if it has any. Select one of the statuses and click . Select an icon file in the pop-up window and click **Open**. The icon is displayed in the window and the status is highlighted with light blue, so the icon has been successfully set to the status.

To delete the icon set to a status, select the status in the list and click .

Alarm Interlock Setting

When receiving an alarm, the device can execute preset operations in order. In *Figure 5-82* , click the “Interlock Setting” tab.

Figure 5-85 Interlock Setting



Select an item in “Alarm Type” list and click + to add a new interlock item in the right pane showing available commands. Select the target commands. Repeat the above steps to add more alarm interlock operations.

To delete an interlock item, select the target item and click − .

Click ↑ or ↓ to change the order of the interlock items.

A device can add at most 4 interlock items. When receiving an alarm, the interlock video window will popped up. If there are more than 4 interlock items, the video winnow will pop up in order. But the video window can be locked and can not be replaced.

Alarm Level Setting

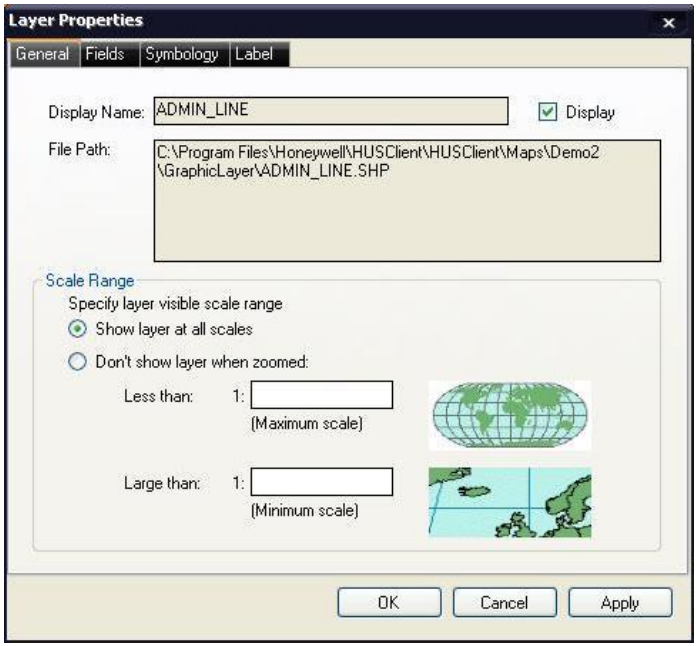
Drag “Alarm Level” bar to filter the alarms. Only the alarms of higher level than the set value trigger the interlock operation; the rest do not, however the related map points will flicker and the binding video will be played.

Layer Management

Setting Properties of Shape File

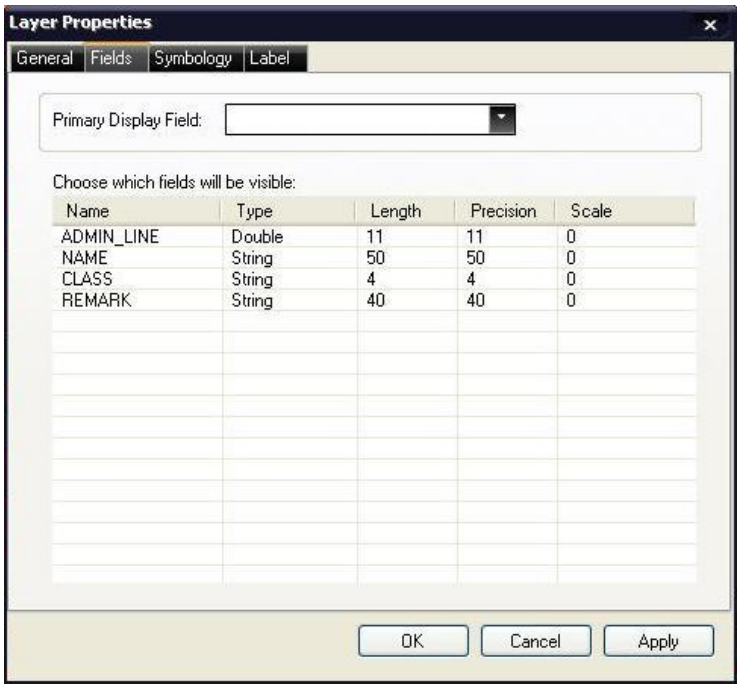
Select a Shape file in the layer list and click  on the toolbar. The following window pops up:

Figure 5-86 Layer Properties – General



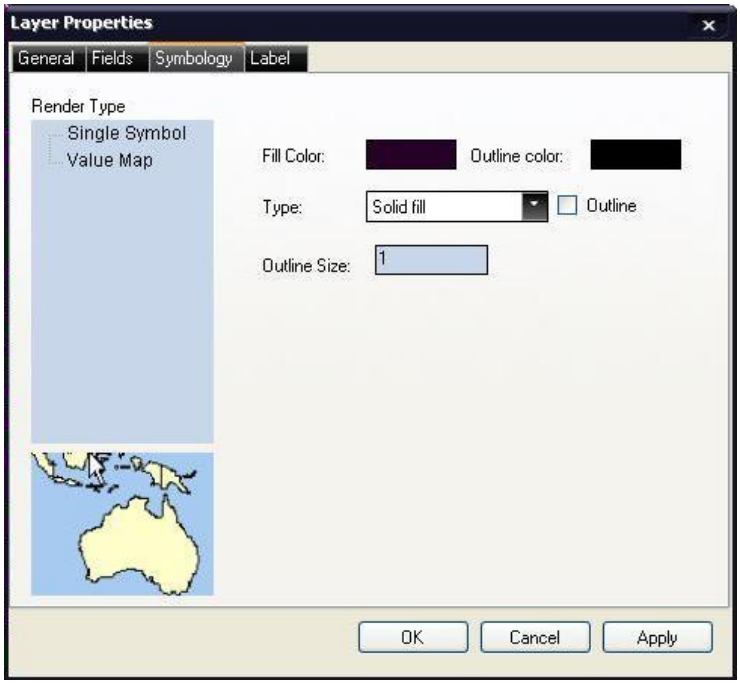
Check/uncheck “Display” to set whether the present layer displays in the map or not. When setting the scale, if “Show layer at all scales” is checked, the layer will be displayed always; if “**Don’t show layer when zoomed:**“ is checked, the layer will not be displayed if the map scale is either out beyond the minimum scale or in beyond the maximum scale.

Figure 5-87 Layer Properties – Fields



Select a field in the drop-down list of “Primary Display Field”, which will be displayed in the label as the layer property.

Figure 5-88 Layer Properties – Symbology – Single Symbol

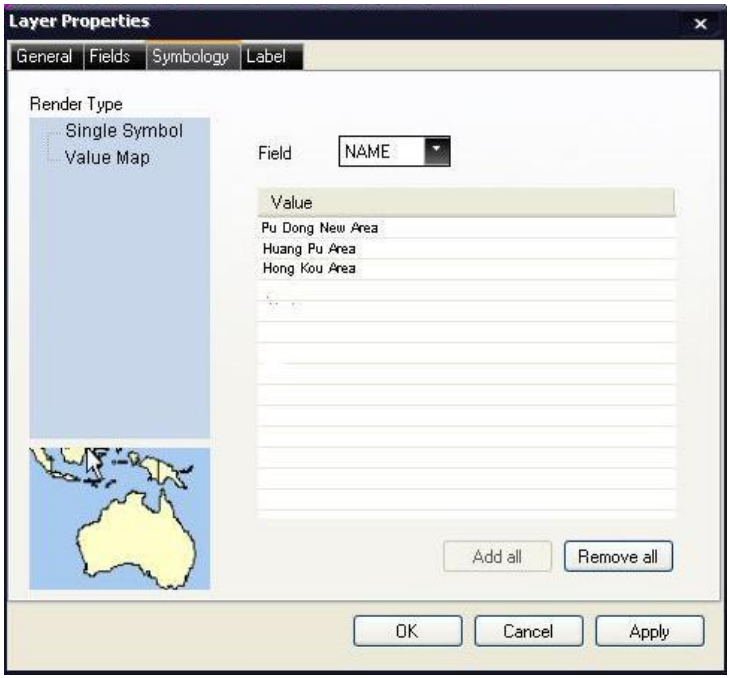


Single Symbol – the current layer is symbolized with single attribute. Set the “Fill Color”, “Type” and “Outline Size” for all the characteristics in the current layer.

For the layer that includes only lines, “Outline” options are not displayed in the figure above.

Value Map – the current layer is symbolized according to attribute values.

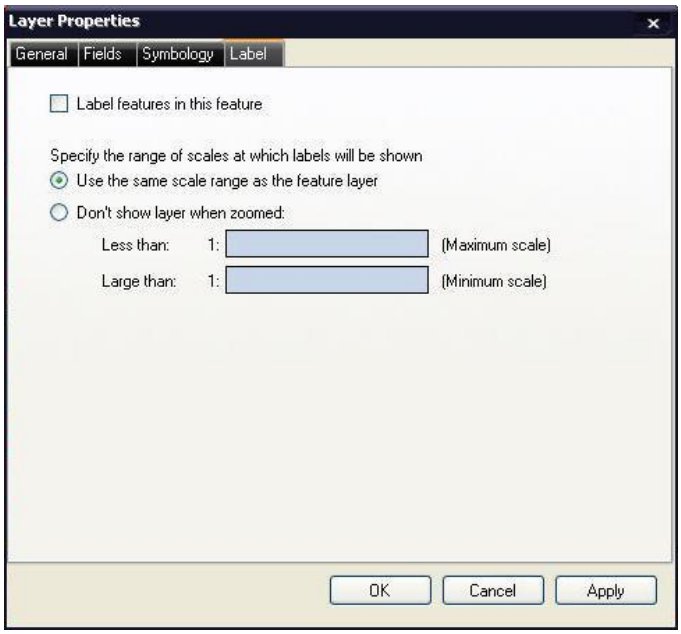
Figure 5-89 Layer Properties – Symbology – Value Map



First, select the field. For example, when symbolizing the road layer, select road class in **Field**, click **Add all** and the system will generate a symbology style for the existing unique value of the current layer randomly and display it in the list. Double-click one of them and set the customized symbology style in the popup window.

Click the “Label” tab, as shown in the following figure:

Figure 5-90 Layer Properties – Label



If **Label features in this layer** is checked and a field is selected, the selected label field will be used in this layer.

When specifying the range of scales, if **Use the same scale range as the feature layer** is selected, the label will display in the map with the same scale as the layer; if **Don't show layer when zoomed:** is selected, the label will not display when the scale range is either out beyond the minimum scale or in beyond the maximum scale.

Image Layer Operations

In the "Layer List", right-click the layer and it displays the menu items, by which you can perform operations to the layer.

Figure 5-91 Right-click Menu of Image Layer

System Information Management

The system information pane contains six tabs: Device Alarm, Task List, Device Status, Device Event, Rules Engine Service Interaction and System Information.

Device Alarm Management

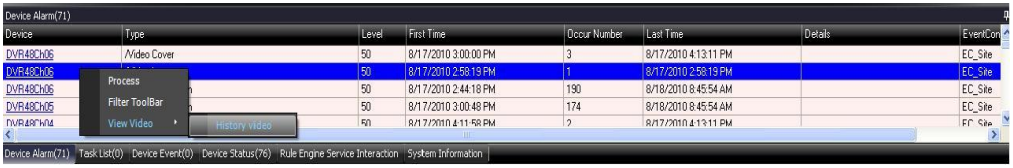
Device Alarm

Only information about the latest 2000 alarms are listed in “Device Alarm” and the rest can be viewed in **Setting→ Alarm Logs**; the alarm information are highlighted with different colors according to their levels.

Figure 5-103 Device Alarm

Right-click an alarm and the menu is shown as below.

Figure 5-104 Device Alarm – Right-click Menu



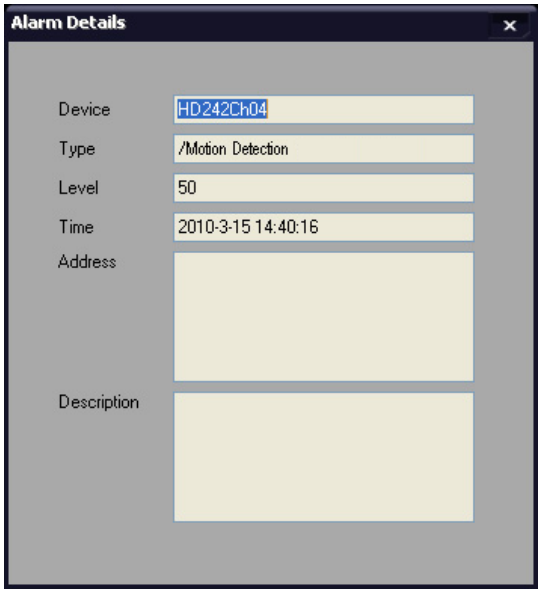
Process – Move the alarm to “Task List” waiting for process.

Filter Toolbar – Display/hide the toolbar on the top of the list.

View Video – Select “History Video” and the focus will be switched to “Search By Alarm” tab of “Historical Video Search” in the right pane if there are videos recorded.

Check the detail Information – Click the device name to view detailed information, as shown below:

Figure 5-105 Alarm Details



It is recommended to process the alarms in time; otherwise it may cause the channel to be blocked.

Task List Management

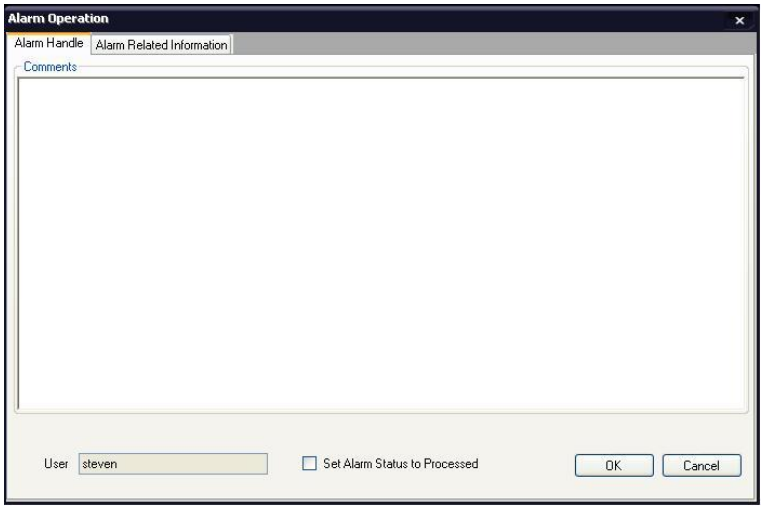
In “Task List”, the alarms moved from “Device Alarm” to be processed are listed. The right-click menu is shown in the following figure:

Figure 5-106 Task List – Right-click Menu

Handle Alarm (or clicking on the device name) – the following window pops up. It includes two tab pages:

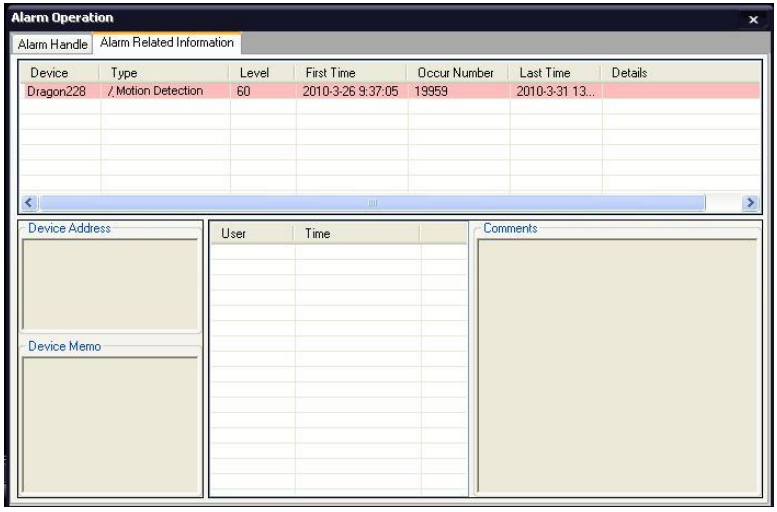
- Alarm Handle – check “Set Alarm Status to Processed” and optionally add comments about the alarms.

Figure 5-107 Alarm Operation



- Alarm Related Information – view information including alarm type, level, and time and so on.

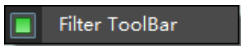
Figure 5-108 Alarm Related Information



Filter ToolBar – Display/Hide the filter toolbar at the top of the “Task List”. Filter ToolBar is available for Device Alarm, Task List, Device Status and Device Event.

Right-click a device status and the menu is shown below:

Figure 5-109 Filter ToolBar



Check Filter Toolbar and a filter bar is displayed as below:

Figure 5-110 Filter Bar

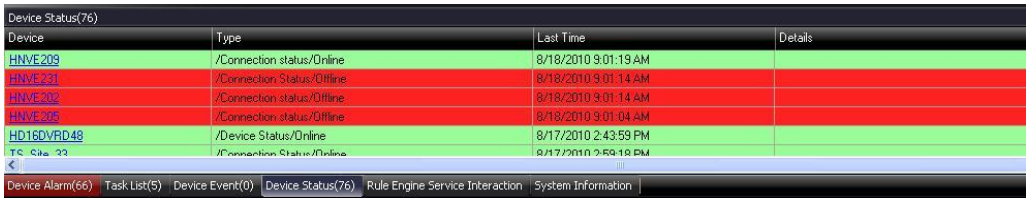
Information can be filtered by Device, Device Type, Type, Level, Last Time, Detail or EventControl Service. Fuzzy search is available.

Clear Processed Alarms – Clear all alarms marked as “Processed”.

Device Status

In “Device Status” tab, the status of all devices is shown.

Figure 5-111 Device Status



Device Event

In the “Device Event” tab, it shows the information about device events.

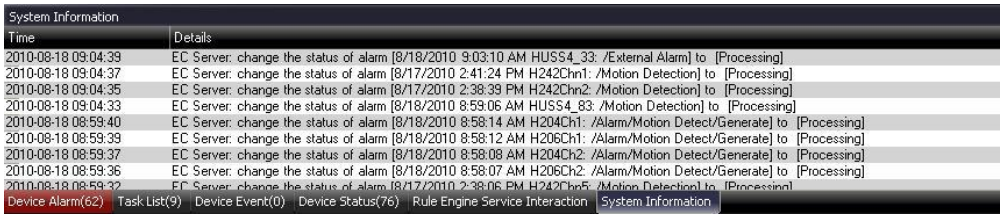
Rules Engine Service Interaction

“Rule Engine Server Interaction” is not supported in this edition of HUS application.

System Information

In “System Information” tab, it shows the operation information between the Client and HUS-SWP-32S in the system and abnormal information.

Figure 5-112 System Information



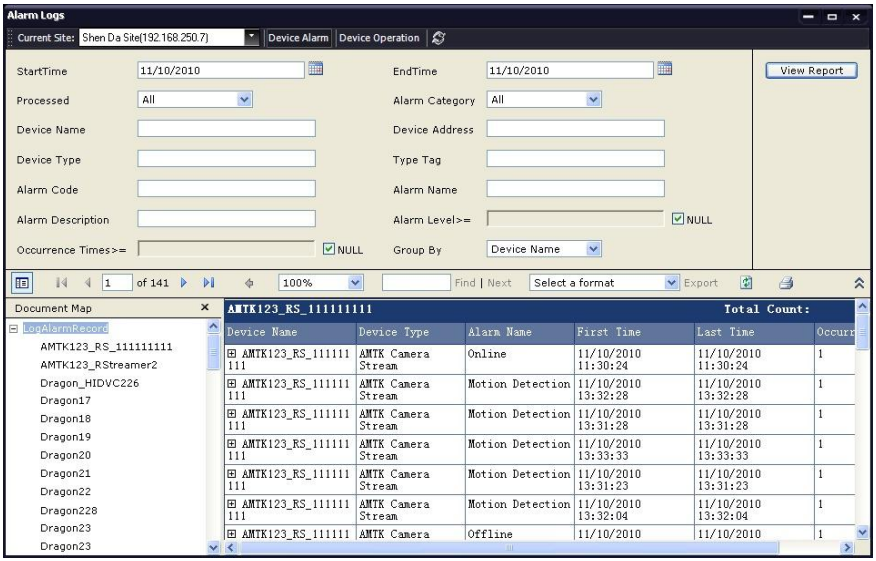
Alarm Logs

Click **Setting→Alarm Logs** and it pops up the “Alarm Logs” window (*Figure 5-*).

Search

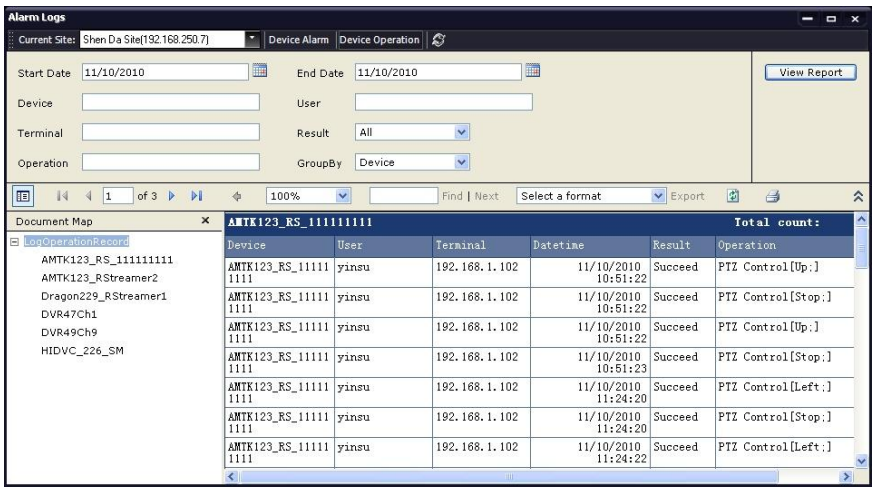
In the “Device Alarm” tab, input the search criteria and click **View Report** to view the result.

Figure 5-113 Search – Device Alarm



In the “Device Operation” tab, input the search criteria and click **View Report** to view the result.

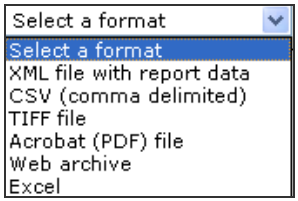
Figure 5-92 Search – Device Operation



Exporting Device Alarm and Operation Data

Select a format in the drop-down list of “Export” and click **Export** to save the device alarm and operation data as a file of the specified format.

Figure 5-93 Export Alarm – File Format



6 Network Management Tool

This chapter describes the functions and operations of HUS Network Management Tool.

Overview

Net Manager monitors, configures, and controls HUS-SWP-32S Service, devices, and HUS Client, enabling real-time monitoring and maintenance of the system.

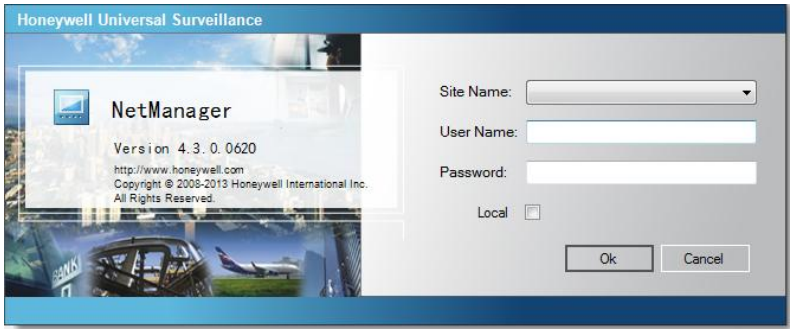
The main functions of Net Manager are listed as follows:

- Monitor the online or offline status of HUS-SWP-32S (video storage trigger, event and control and rules engine services) and HUS-NVR Service(streaming service); monitor the performance of the running services, including CPU usage, memory usage, and network traffic; control the service, including starting service and stopping service.
- Monitor the online or offline status of the devices in system; control and configure the parameter of the online device (if this device supports remote configuration and opens its configuration authority).
- Collect the statistics of the information of the user currently using the client application and is able to force the user to terminate the client application.

Login and Logout

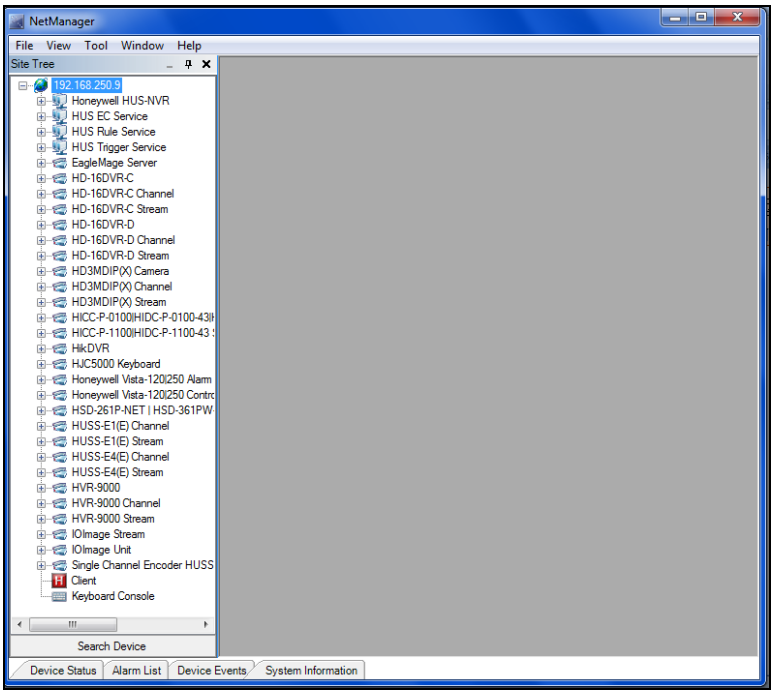
Double click the desktop shortcut of Network Management Tool or open it from **Start→All Programs→ Honeywell → HUS Platform → Client → Network Management Tool**. The following window is displayed.

Figure 6-1 Login Page of Network Management Tool



Input the correct username and password, and click **OK** to access the main window.

Figure 6-2 Main Window of Network Management Tool



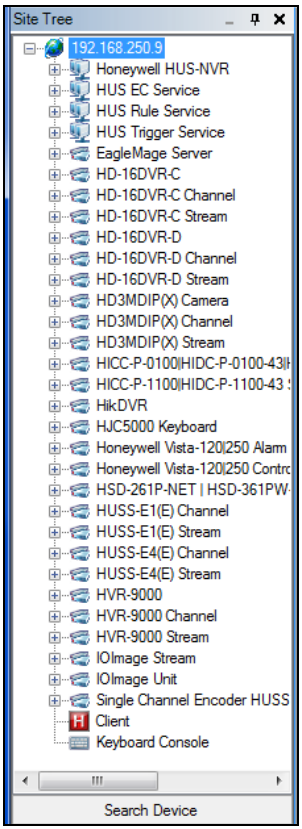
The main window of Net Manager includes menu bar, site tree, main pane, and information bar.

Select **File→Exit**, or click  on the top right of the Net Manager window to exit Net Manager.

Site Tree

The site tree lists all the devices to be monitored in types and is categorized by website. The website node is the root node in the tree, and the device-type nodes are the sub-nodes of the root node. These device-type nodes contain the child nodes for specific devices.

Figure 6-3 Site Tree of a Single Site



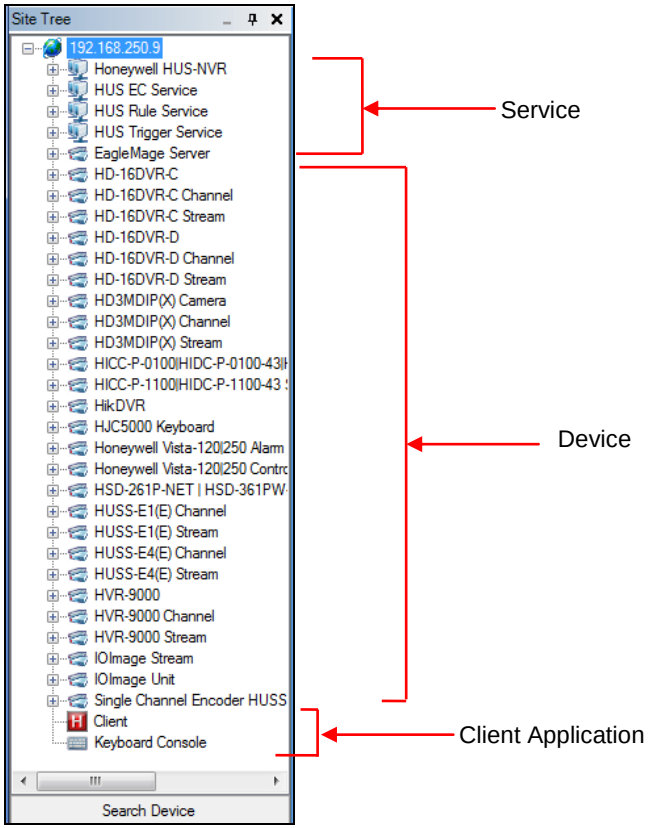
If you log onto the center website of HUS-SWP-32S, all the child websites and devices of the center website are also listed in the site tree.

Figure 6-4 Site Tree Displayed When Login Web

Site Tree Structure

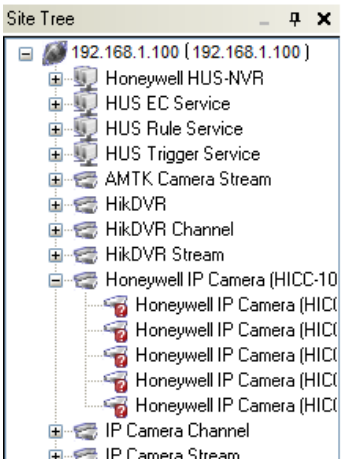
1. The first level of the site tree contains HUS-SWP-32S, and the second level contains device types, including the three major parts that are services, devices, and client applications.

Figure 6-5 Site Tree



The device type node has the child nodes of all devices in this type.

Figure 6-6 Site Tree – Devices



The following table displays the tree-node icons and their corresponding descriptions.

Table 6-1 Site Tree Icons

Icon	Description	Icon	Description
	Sites free from monitoring		Devices in unknown status
	Sites under monitoring		Devices offline
	Service types free from monitoring		Devices online
	Service types under monitoring		Electronic-map client free from monitoring
	Services in unknown status		Electronic-map client under monitoring
	Services offline		Video management client free from monitoring
	Services online		Video management client under monitoring
	Device types free from monitoring		Keypad console free from monitoring

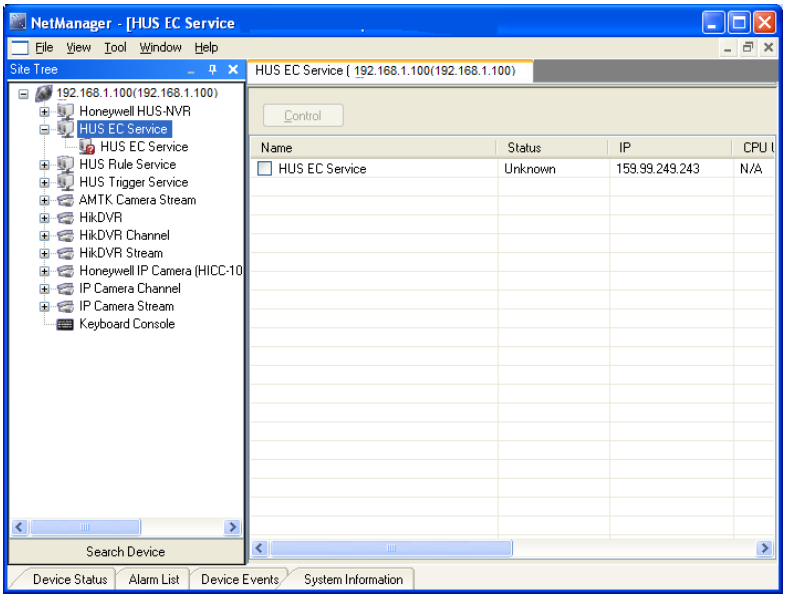
	Device types under monitoring		Keypad console under monitoring

Device List

Click the device type nodes in the site tree to open the corresponding device list pane, which includes the panes of service list, devices, and client application.

1. Service module list

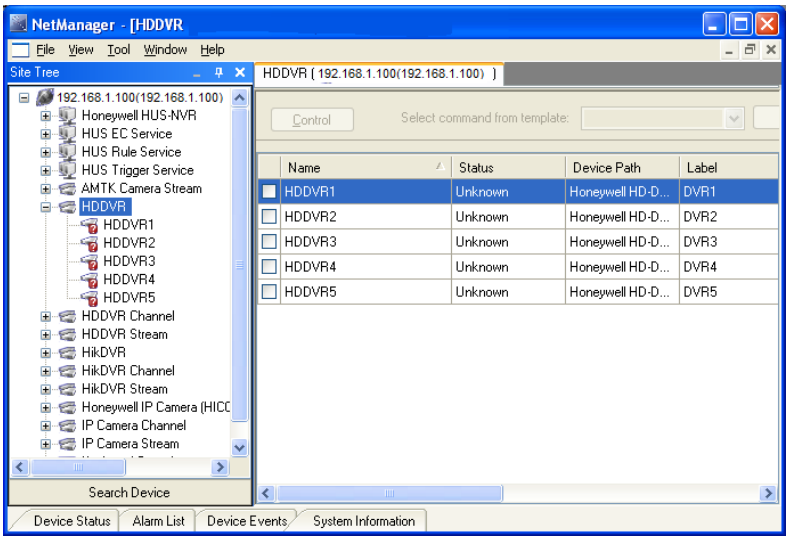
Figure 6-7 Service Module List



The service-module-list pane shows all the services in this type of the current site. Each record contains the service name, status, IP address, and the performance data of the server that run the service, including CPU usage, memory usage, and network traffic.

2. Device list

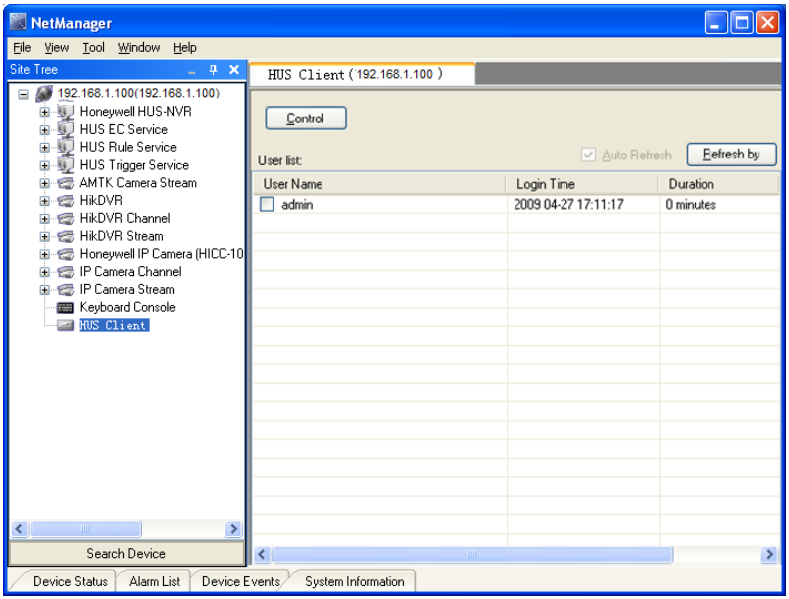
Figure 6-8 Device List



The device-list pane lists all the devices in this type of the current site. Each record contains the device name, status, tag, and so on.

3. Client-application properties

Figure 6-9 Client Application Properties

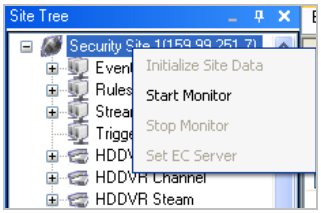


The client-application-properties pane lists the information of the login users using the client application. Each record contains the information of user name, start time, elapsed time, the IP address of the client, and so on.

Site Control

Right-click the website of HUS-SWP-32S and its context menu opens as follows.

Figure 6-10 the Context Menu of Site

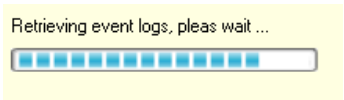


Site control includes the menu items such as **Initialize Site Data**, **Start Monitor**, **Stop Monitor**, and **Set EC Server**.

1. Initial site data

When you log onto the center website, the sub-device type tree does not exist by default. You must click **Initialize Site Data** on the context menu, or synchronize the site data to generate the device tree when you expand the child site node for the first time. You can see the following progress bar when initializing the site data.

Figure 6-11 Initializing the Site Data

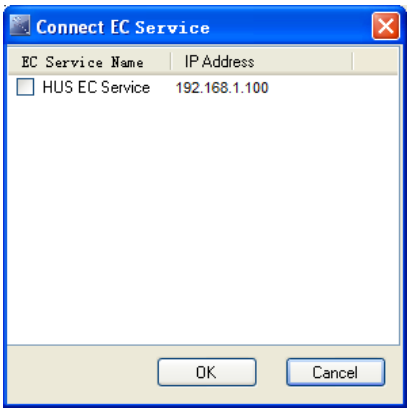


2. Start monitoring

Only after you start site-monitoring, can you monitor the device status of the site and the service's performance data, as well as perform related operations on the device.

Click **Start Monitor**, and the "EC (Event and Control Service) Setting" dialog opens as follows.

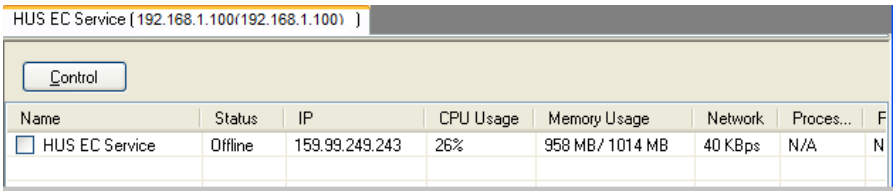
Figure 6-12 EC Setting



Select the corresponding EC Service, and click **OK** to receive the updated device status and alarm messages from the connected EC Service. When you start site monitoring, you can observe the online or offline status of all devices.

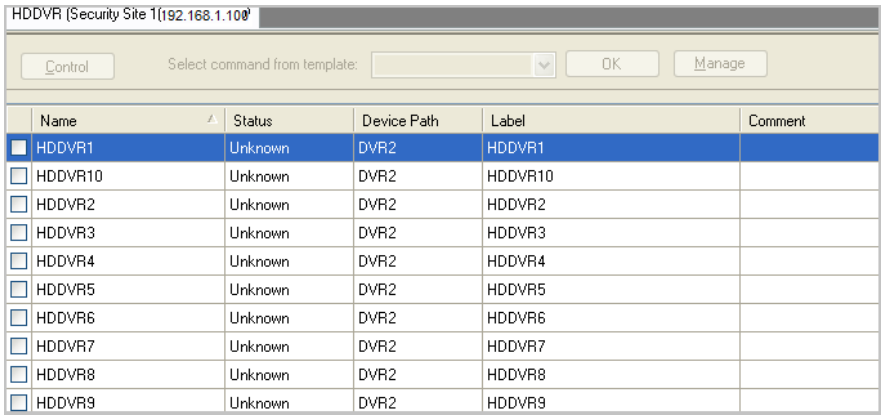
The service-monitoring-information list is as follows.

Figure 6-13 Service Monitoring Information List



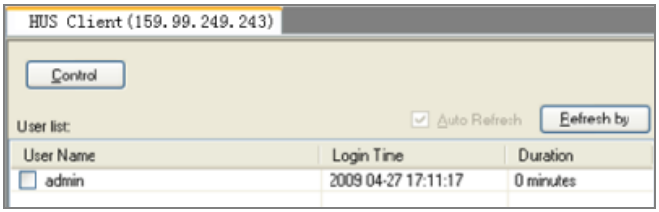
The device-monitoring-information list is as follows.

Figure 6-14 Device Monitoring Information List



The information list of client-application-properties monitoring is as follows.

Figure 6-15 Client Application Monitoring Information List



3. Stop Monitoring

For stop monitoring and controlling all the devices of the current site, reset the device type to “Unknown”.

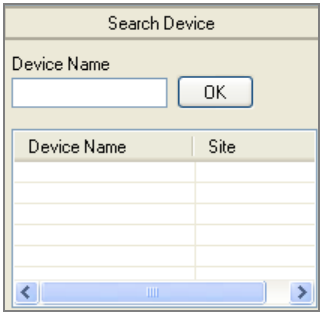
4. Setup the connection with EC Service

Open the EC setting window to add or delete the connection with EC Service.

Searching Devices

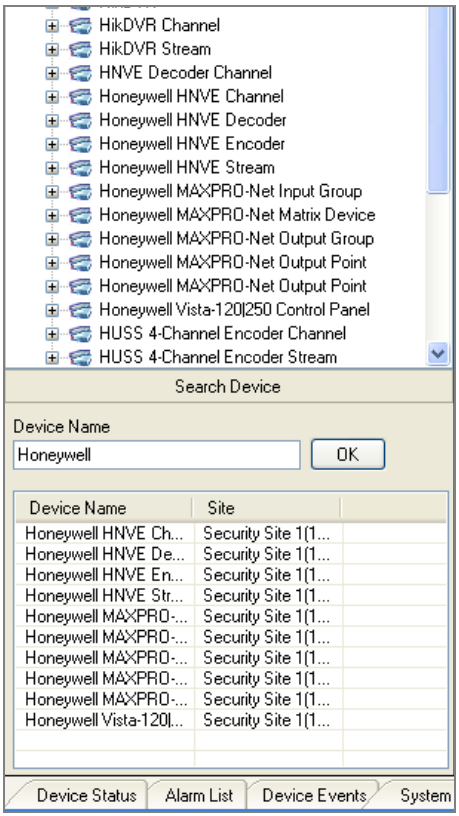
Click **Search Device** button beneath the site tree to expand the pane.

Figure 6-16 Search Devices



Input the device name in the “Device Name” textbox, and click **OK** to get the result list (generated by way of fuzzy query) of the devices that match the query.

Figure 6-17 Device List



Double-clicking the device in the result list selects the corresponding device node in the device site tree.

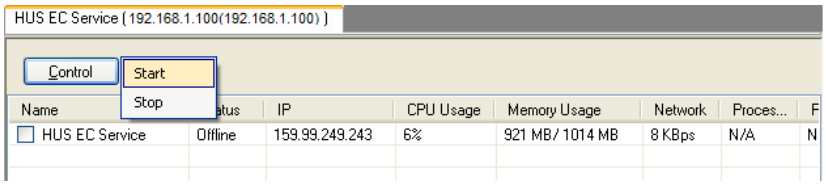
Device List

The device-list pane includes service-module-list, device-list, and client-application-properties pane.

Service Module List

Start or stop the services. Select the services you want to control in the service-list pane, click **Control**, and click **Start** or **Stop** on the pop-up context menu.

Figure 6-18 Start or Stop the Services



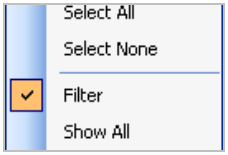
After you click **Start** or **Stop**, you can see the information of sending the control command successfully on the system-information bar. Wait a moment for the status update of the service you have controlled.

Device List

Device Filtering

The device list might contain too many device records so that the device-filter function is designed in the device-list pane, including “and “Filter by Device Path”. Right click a device in the device list (see Figure 6-8).

Figure 6-19 Filtering

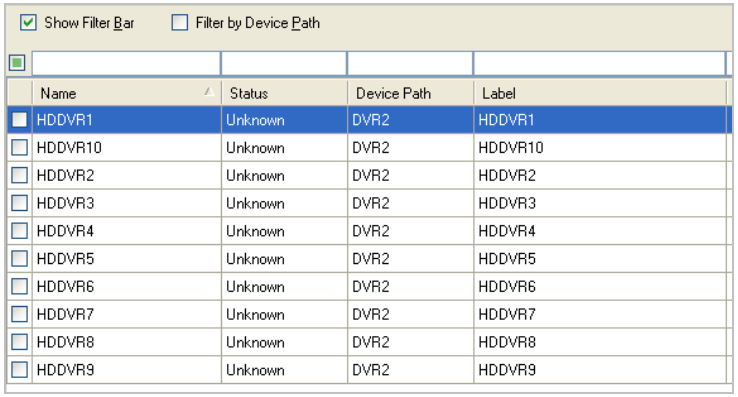


Click **Filter** on the menu, and the two checkboxes named “Show Filter Bar” and “Filter More Device Path” is displayed above the list.

Figure 6-20 Filtering Options

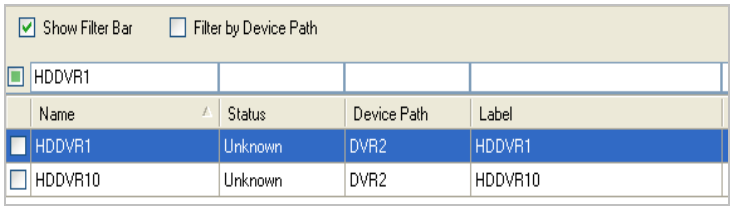
Check “Show Filter Bar”, and a filtering textbox is displayed on each column.

Figure 6-21 Showing the Filter Bar



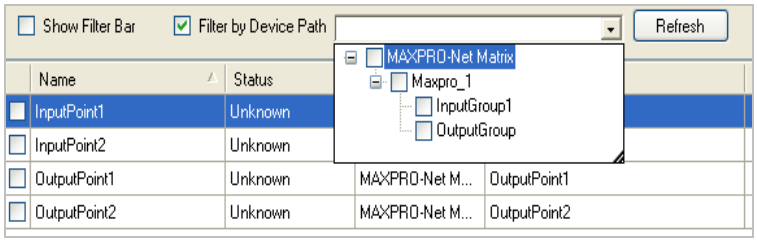
Input the filtering query in the textbox, and the device list automatically displays the filtered list records.

Figure 6-22 Filtered Results



User can filter the devices easily according to the parent device by following the device path.

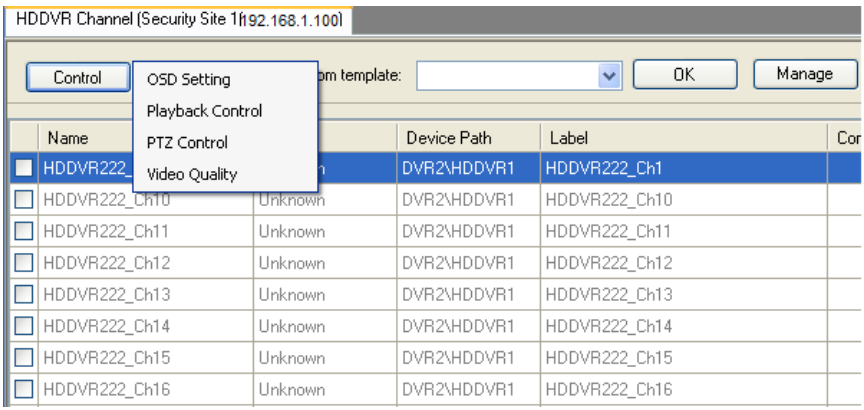
Figure 6-23 Filtering by Device Path



Controlling

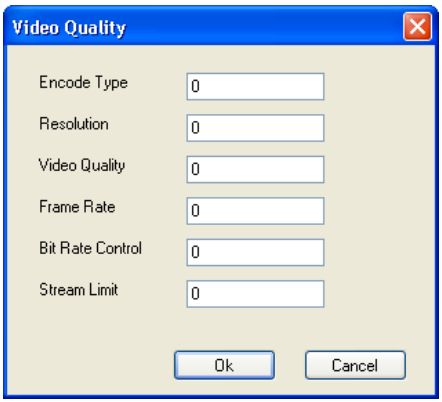
Click **Control** to open its context menu that displays the available control options for the device type. Click the control item to set the parameter, and send the command to the device to modify the parameter configuration of the device or to operate the devices.

Figure 6-24 Controlling



The parameter configuration dialog (related to the corresponding devices; the dialog display might differ among different devices) is shown as follows.

Figure 6-25 Video Quality



User can see the generated results on the system information bar after you run the command.

Generally, the operation on the devices takes effective only when they are online.

Managing Command Template

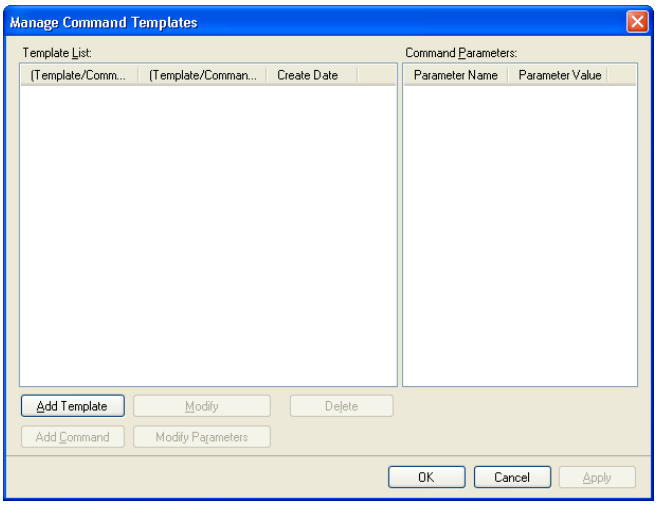
Control command template contains a set of configured parameter control commands. After saving the configured control commands into the template, you can execute them all in one time, which easies the operation.

Every device type with the executable control command can be used to create the control command template.

Figure 6-26 Control Command Template

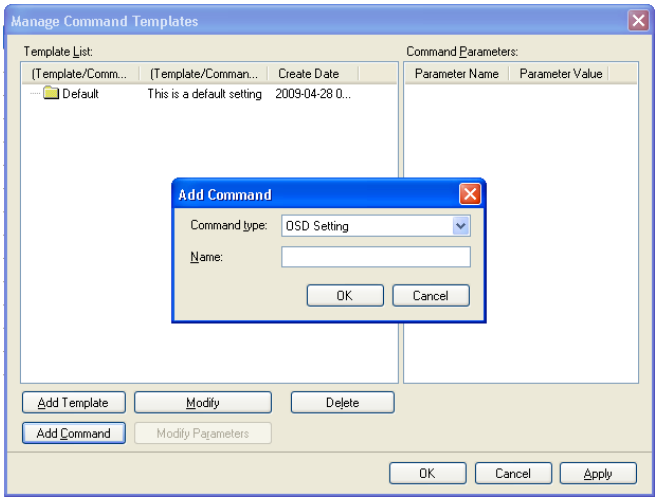
Click **Manage**, and you can create, modify, or delete the template in the “Manage Command Templates” window, which is shown in the following screenshot.

Figure 6-27 Managing the Template



Click **Add Template** to add a control template. The control template is like a folder. After user creates a template, you can add command items into the template.

Figure 6-28 Adding Command

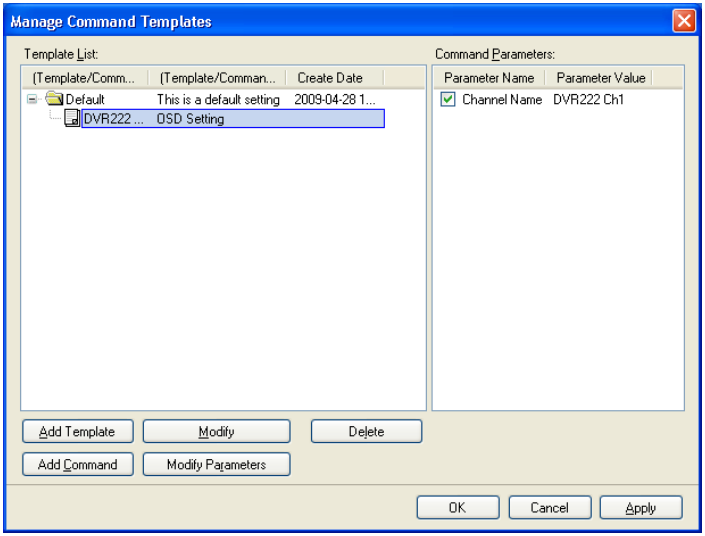


The “Command Type” is the control command type available to the current device type. Input the name, click **OK**, and a parameter configuration dialog pops up as follows.

Figure 6-29 Video Quality Configuration

Click **OK** after you finish configuring the parameters, and the command is added successfully.

Figure 6-30 Adding the Command Item Successfully



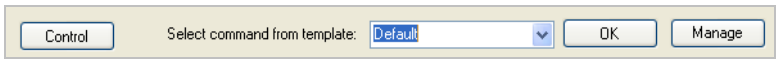
You can select a template and command item from the template list to modify or delete the selected template or command item. When you select a command item, you can see its parameter settings in the right parameter list.

There is a checkbox in front of each command parameter. You can modify the status of the checkbox only when the parameter is of single type.

Click **OK** or **Apply** to save the modification.

After you create the template, you can select a template in the device-list pane to send command to the corresponding device.

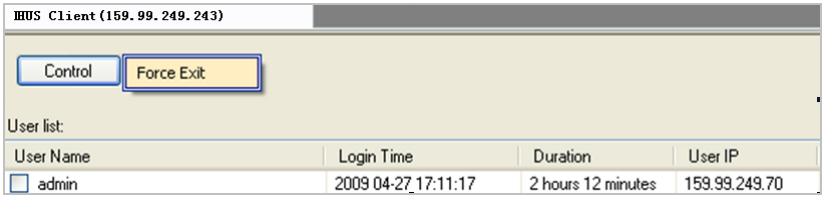
Figure 6-31 Select a New Template to Send the Command



Client Application

The client-application-properties pane displays the list of the users that are using the client application.

Figure 6-32 Client Application User List



Click **Control**, and click **Force Exit** to forcedly close the selected user's client application.

Click **Refresh** to view the latest user list and confirm whether the controlling is successfully.

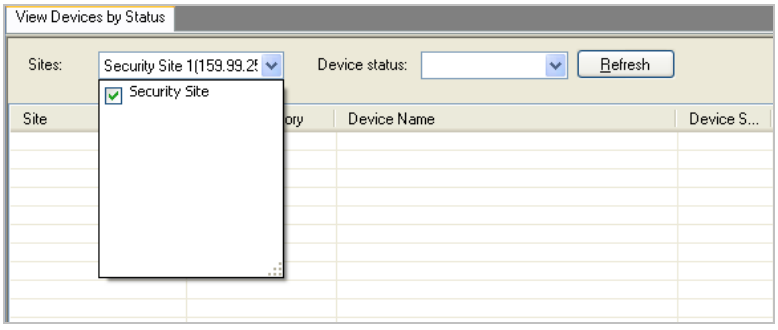
Main Menu

View

Viewing Devices by Status

Select View → **View Devices by Status** on the menu and the pane displays the view of the devices of multiple sites according to the device status.

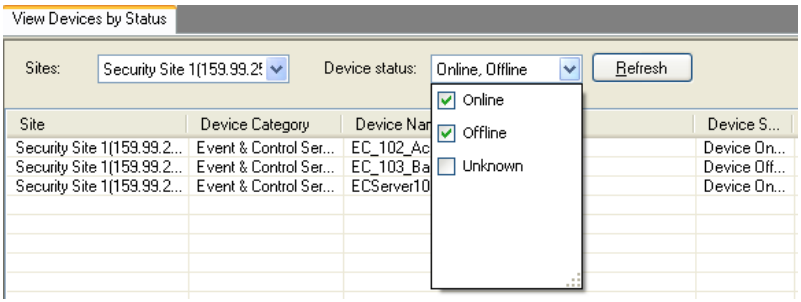
Figure 6-33 Viewing Devices by Status



Select the site you want to look for in the "Sites" field.

Select the device type you want to look for in the "Device Status" field.

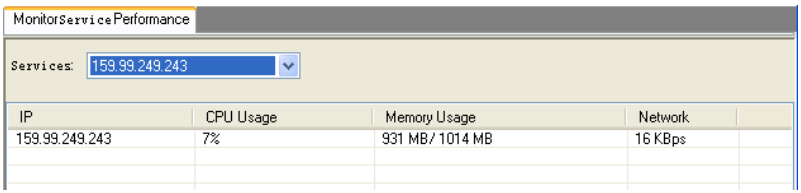
Figure 6-34 Selecting the Devices



Monitoring Servers Performance

Select View → **Monitoring Servers Performance** on the menu and the pane displays the view of the performance of the service module running the site services under monitoring.

Figure 6-35 Monitor Servers Performance



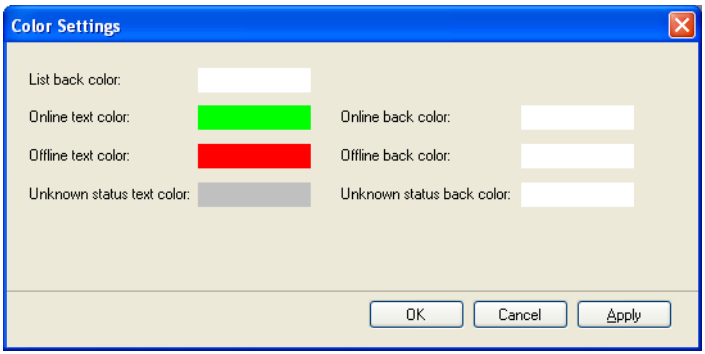
Select or deselect a certain service on the “Servers” menu list, and you can delete or add a monitoring event for the server.

Only the initialized service in the site of HUS-SWP-32S can be displayed in the pane.

Tool

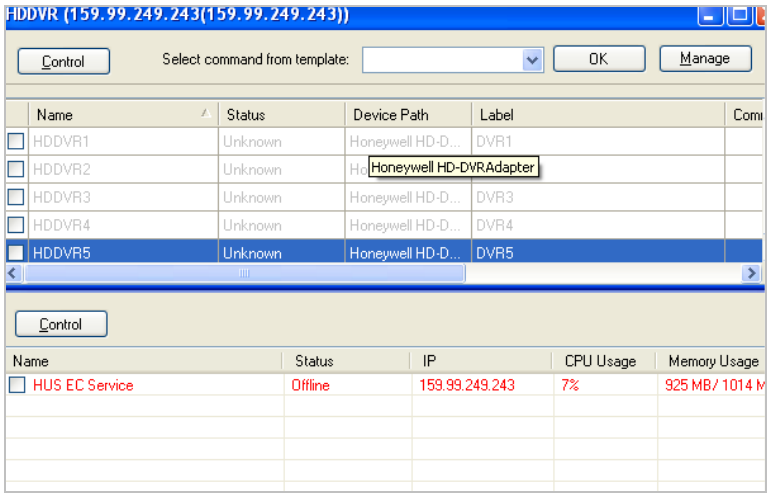
Color setting: Select **Tool→Color Settings** from the menu. You can choose colors for the text and background in the color-setting window.

Figure 6-36 Color Settings



Click **OK** to apply the settings to the service-list, device-list, and view-by-service-status pane.

Figure 6-37 Completing Color Setting



Information Bar

The information bar is on the bottom of the main window, including “Device Status”, “Alarm List”, “Device Events”, and “System Information”. The content of these items is similar to the content displayed in the Video Management Client and Electronic Map Client, providing a more convenient way for users to monitor the system information in Net Manager.

Device Type

Displays the connection status (online or offline) of various devices, and timely records the device-status changes as well as the occurring time.

Alarm List

The “Alarm List” pane lists the real-time alarm information currently received by the system.

Device Events

Displays the information and occurring time of the device event and records the information of different types of events, which is similar to the device status.

System Information

Besides the updated information of the device type, it also displays the sending and feedback information of control command, as well as the user’s operation results.

7 NVR Client

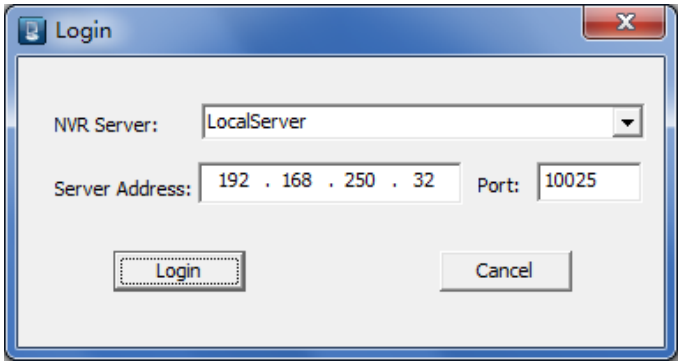
This chapter introduces the functions and operations of the HUS NVRClient.

When Streaming Service of the current HUS-NVR Service starts, the user can check the running state of Streaming Service in the NVRClient main screen.

Start NVRClient

Double-click the desktop shortcut of “Management Tool”  or open it from **Start→Programs→Honeywell→HUS→NVRClient**. The login window of NVRClient is displayed for the first launch:

Figure 9-1 NVRClient Login Window

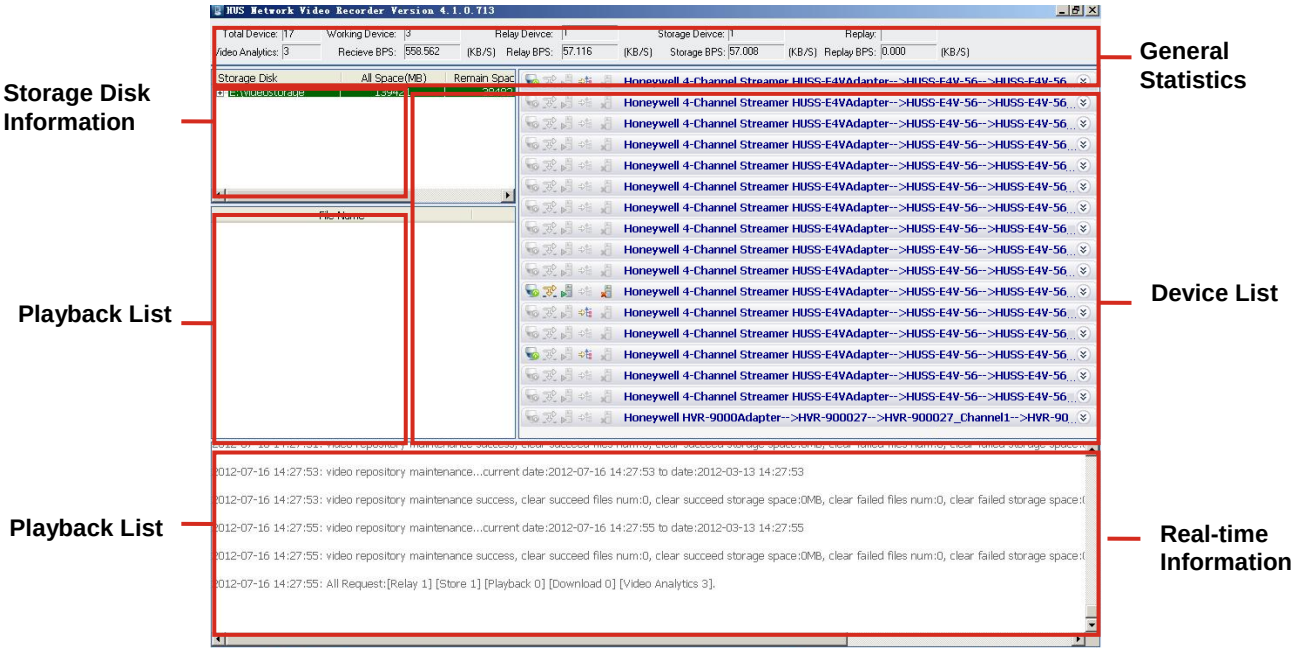


Enter a customized name in “NVR Server”, and enter “Server Address” then click **Login.**

The user can check the Server Address in the “Device Management” tab of **Data Management Center.**

The user must enter “NVR Server” and “Server Address” for the first time. Then select “NVR Server” from the dropdown list for the later login. And multiple NVRClient can be started for the same time.

Figure 9-2 Monitoring Console of HUS-NVR



General Statistics

Total Device – The total number of connected streamings according to the settings configured of the HUS-NVR (here the streamings refer to the Streamer of the next level of the channel defined on Data Management Center).

Working Device – The actual number of streamings connected to the HUS-NVR (when it is relaying or storing the real-time videos).

Receive BPS (KB/S) – The total bit rate of receiving videos from the front-end video devices of the HUS-NVR.

Relay Device – The number of requested real-time streamings relayed of the HUS-NVR.

Relay BPS (KB/S) – The current bit rate of relaying videos to the HUS Client by the HUS-NVR (the value should be greater than or equal to that of “Receive BPS”).

Storage Device – The number of requested real-time streamings relayed of the HUS-NVR.

Storage BPS (KB/S) – The total speed at which the current HUS-NVR writes to the disk.

Replay – The number of historic streamings requested to be played of the HUS-NVR.

Replay BPS (KB/S) – The total bit rate of playing historic streamings on the HUS Client by the HUS-NVR.

Storage Disk Information

Storage Disk – The specified paths for storing videos.

All Space (MB) – The total physical space of the memory.

Remain Space (MB) – The remaining space of the memory. When the HUS-NVR is recording videos, the corresponding remaining capacity decreases.

Playback List

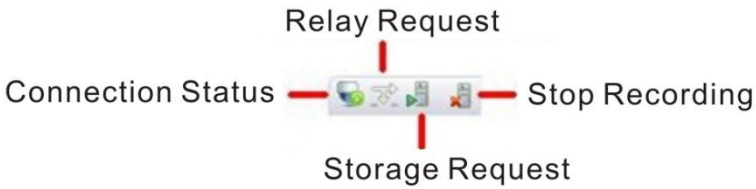
It shows the information of the currently requested replay files and the information of the requesting user.

Device List

Expand the information pane of each device and it shows the status of each streaming, including the device connection status, recording status, relay status, device type, rate parameters, user information, storage plan….

Refer to the following figure for functions of the icons on each steaming pane.

Figure 9-3 Functions of the Icons



Real-time Information

It lists the status information, operation records, and error reports. The data can be used to estimate the work condition of the HUS-NVR.