

WISENET

SSM Transportation

User Manual

VER 1.2



SSM Transportation

User Manual

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❖ Design and specifications are subject to change without prior notice.

❖ The initial administrator ID is "admin" and the password should be set at initial installation.

To prevent from your personal information being exposed, please change your password every 3 months. Note that the security and other related issues caused by careless management of password shall be in the charge of the user.

Overview

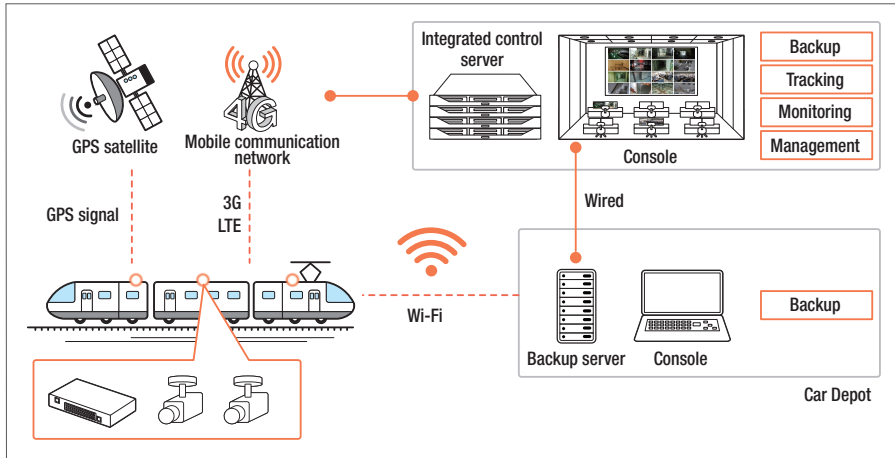
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Overview

SSM Transportation is a solution that enables monitoring of moving routes of trains, buses, etc., event management and live monitoring during driving, and manual and automatic backup of recorded videos in vehicles.

SYSTEM OVERVIEW

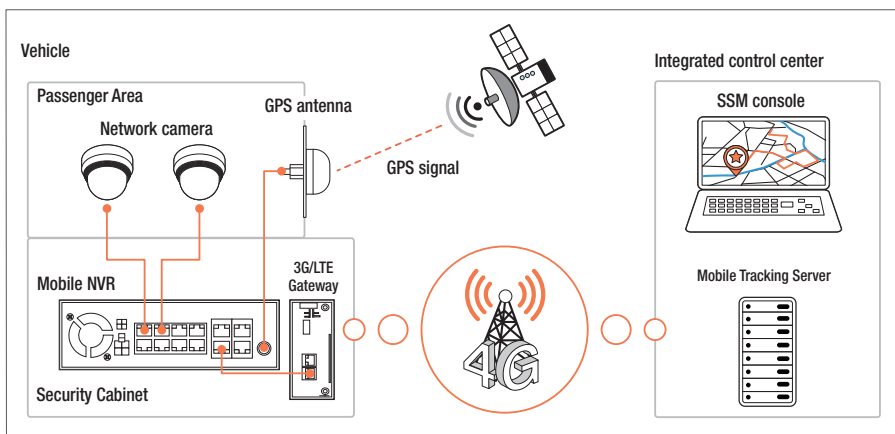


- The moving route information (GPS data), events, and snapshot data are mainly transmitted and receive using the 3G or LTE network while the vehicle is running. For backing up data recorded in the NVR during parking, the WiFi network is mainly used.

MAIN FUNCTIONS

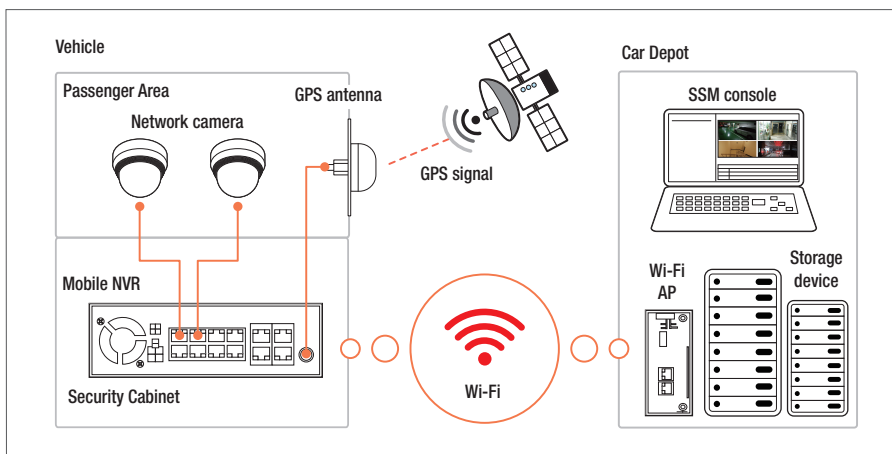
1. Vehicle moving route monitoring

Vehicle moving route monitoring is displayed on the map using GPS information and event information received from the NVR.



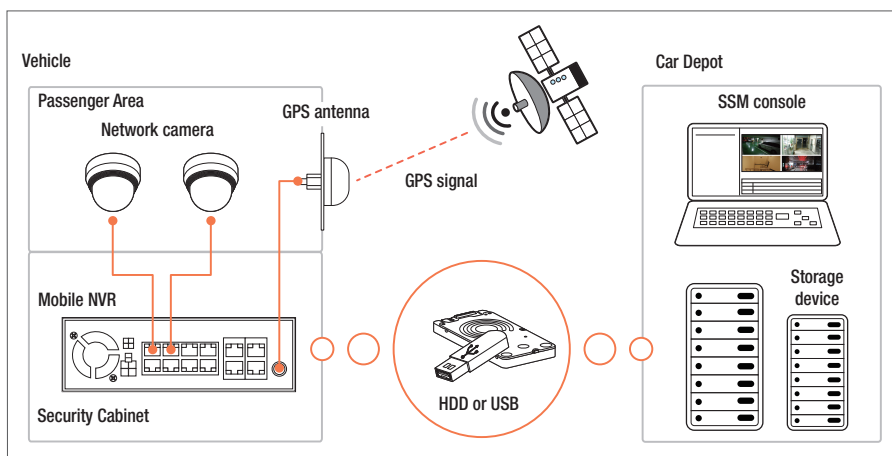
2. Automatic backup

Automatic backup of video recorded in the NVR in the vehicle is performed using Wi-Fi to take the recorded video remotely from the NVR and back it up.



3. Manual backup

Manual backup of the recorded video in the NVR in the vehicle takes the recorded video directly from the NVR disk and backs it up.

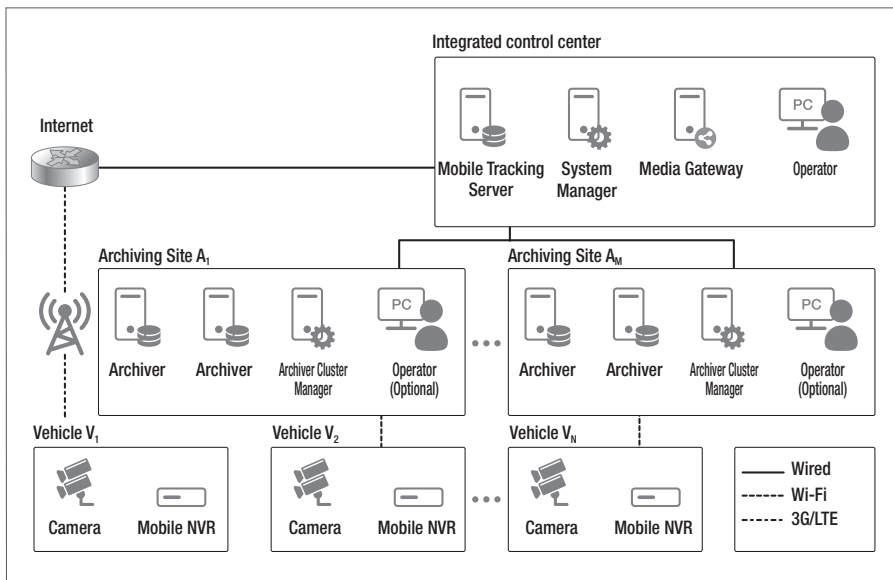


Overview

CONFIGURATION

SSM Transportation consists of the following:

- Console
- MG (Media Gateway)
- ACM (Archiver Cluster Manager)
- SM (System Manager)
- MTS (Mobile Tracking Server)
- Archiver



When the mobile NVR enters the WiFi network, the Archiver and the mobile NVR connect to WiFi to perform the remote backup.

When the mobile NVR enters the Cellular (3G, LTE) network, the MTS and the Mobile NVR perform functions such as vehicle moving route monitoring and event monitoring using data communication.

- **Console (Operator's PC)**

This displays the vehicle moving route on the map, and provides a search/playback function for live monitoring and video backed up from the vehicle.

It can monitor live events and search for events that have already occurred.

It can manually back up the recorded video on the vehicle, or back it up remotely over the network.

- **Media Gateway**

Receives a live video from the vehicle, or receives a backup video from the Archiver and delivers it to the console.

- **Archiver Cluster Manager**

This manages load balancing and backup functions for multiple archivers so that the Archiver can remotely back up the images recorded in the vehicle.

- **System Manager**

This stores and manages important information such as contents set by users and events.

- **Mobile Tracking Server**

This receives GPS information and events from the vehicle and manages the vehicle moving route.

- **Archiver**

This remotely backs up and store data recorded in the vehicle.

It supports local HDD and NAS storage.

SYSTEM REQUIREMENTS

The PC specifications required to install SSM Transportation are as follows.

- **Console**
 - CPU Intel Core i7 or higher
 - RAM 8GB or more
 - HDD 500GB or more
 - VGA Geforce GTX760 GPU(1024MB or more) or higher
- **MG / ACM**
 - CPU Intel Core i7 or higher
 - RAM 8GB or more
 - HDD 500GB or more
- **SM / MTS**
 - CPU Intel Core i7 or higher
 - RAM 8GB or more
 - HDD 2TB or more
- **Archiver**
 - CPU Intel Core i7 or higher
 - RAM 16GB or more
 - HDD 2TB or more (Capacity is based on the required retention period for backup data)
- **OS**
 - Windows 7 Service Pack 1 or higher, 64bit

SUPPORTED HARDWARE

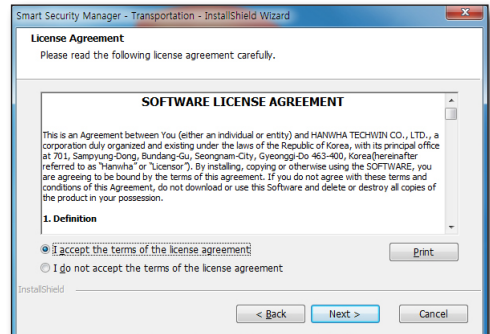
- TRM-1610S

SSM Transportation Installation

HOW TO INSTALL SSM TRANSPORTATION

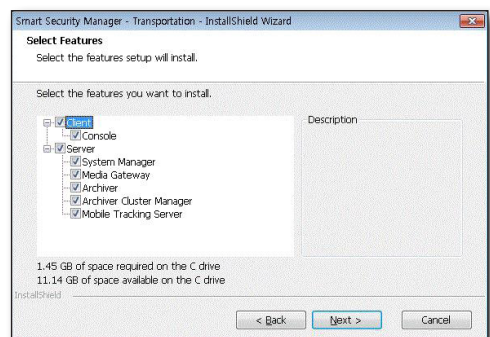
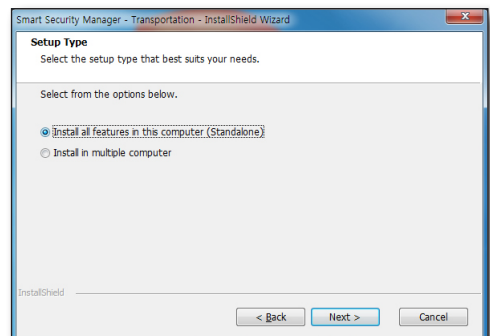
After running the Setup file, follow the procedure below.

1. Accept the license.



2. Select whether you want to install all or part of the program on your PC.

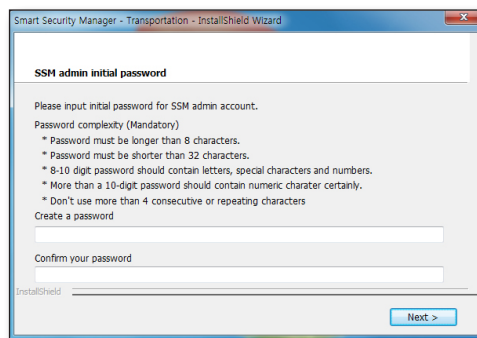
- Install all features in this computer (Standalone): Install System Manager / Console / Media Gateway / Archiver / Archiver Cluster Manager / Mobile Tracking Server on one PC.
- Install in multiple computers: Install System Manager / Console / Media Gateway / Archiver / Archiver Cluster Manager / Mobile Tracking Server on each PC.



3. Set the password for the admin account.

- Password requirements

- The ID and password should not be the same.
- Should be a minimum of 8 characters and a maximum of 32 characters.
- If the password is 8 or 10 characters in length, it should be a combination of English letters + numbers + special characters. (No special character restrictions)
- If the password is longer than 10 characters in length, it should be a combination of alphanumeric characters.
- 4 or more consecutive characters are not allowed. (ex. abcd, dcba)
- You cannot use more than 4 repeated characters. (ex. 1111, qqqq)
- You cannot set the password if the mandatory requirements have been violated.
- You can change your password only after entering it twice correctly.
- After installation, you can change your password using the Settings page.



Before you start using SSM Transportation

HOW TO REGISTER THE LICENSE

How to use the License Manager

License Manager can be used to manages licenses for all Wisenet SSM products. It supports the activation, deletion, and migration of SW licenses.

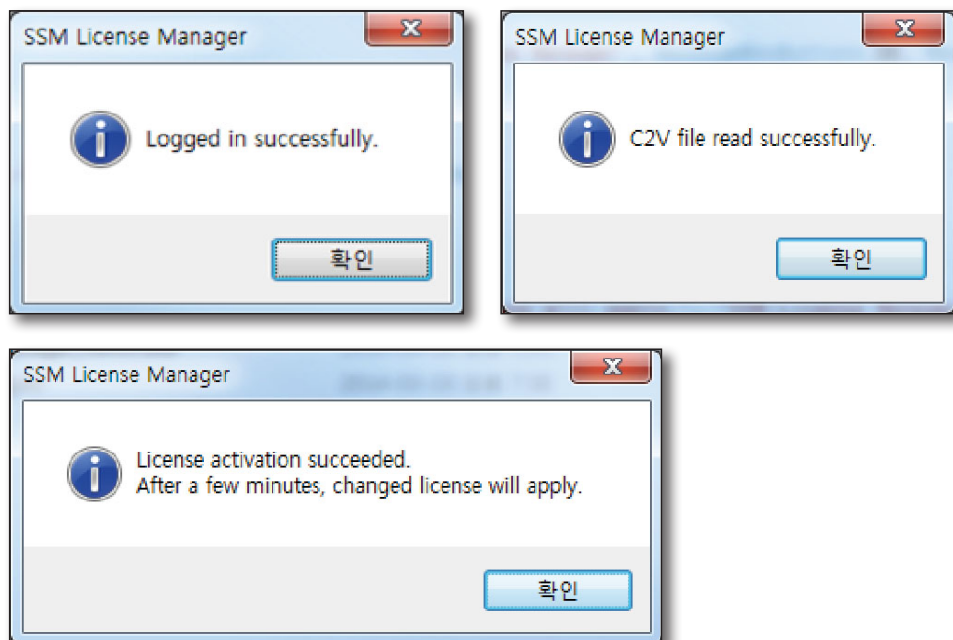
How to activate the license

Activating online

The online software activation menu is a way to activate licenses if the user can access the EMS server (license server) through a web page.

How to Activate

1. Select **[Activate Online SW]** from the License Manager menu.
2. Enter Product Key and click the **[Activate]** button.
 - If you activate the license, three messages will appear.



Server Information

<https://ems.hanwha-security.com/ems/customerLogin.html>

If license activation fails

1. When you are activating your license online, if a 'Trust Failure' pop-up page appears: Make sure that the system time is synchronized with the Internet time. (Server: time.windows.com)
2. If you can not connect to the license server online: Make sure that you have an Internet-enabled environment.
3. If you are trying to reactivate a product key that has already been verified: Verify that you already have a valid license key. Re-authentication is not possible for activated licenses.
4. When the license module service is stopped: Make sure that the ACC page is accessible.
If the connection cannot be made, confirm that the Sentinel LDK License Manager service from the service menu has stopped, and start the service.
- ACC Page: <http://localhost:1947>

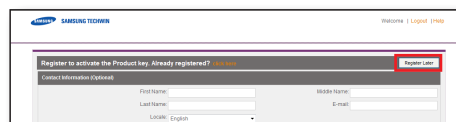
Activating the offline software

The offline software activation menu is a way to activate licenses if the user cannot access the EMS server (license server) through a web page.

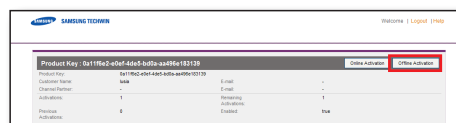
After generating a C2V file from the PC to be licensed, create a V2C file on the PC that has access to the license server and perform license authentication.

How to Activate

1. Select **[Offline SW Activation]** in LicenseManager.
2. From the Collect Status Information menu, click the **[Collect Information]** button to collect the PC information to activate the license.
 - Generate a C2V file with the **[Collect Information]** button. (collect PC information to be licensed)
3. Access the license server web page (EMS) from a PC that can connect to the license server online.
 - Address: <https://ems.hanwha-security.com/ems/customerLogin.html>
4. Log in using the product key of the product you received.
5. Click the **[Register Later]** button in the upper right corner.

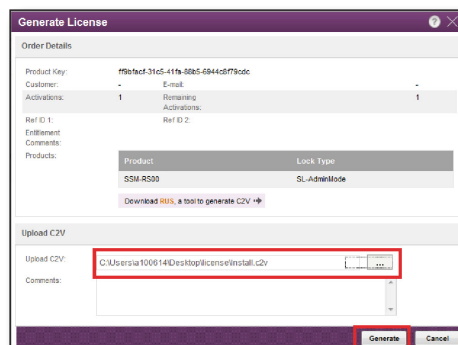


6. Click the **[Offline Activation]** button in the upper right corner.



Before you start using SSM Transportation

7. In the Generate License pop-up dialog box, upload the C2V file you generated in step 1 and click the **[Generate]** button. Download the generated V2C file.
 - Generate a V2C file (license file) using C2V file that collected PC information.
8. Import the downloaded V2C file from **[Apply License File]** the **[Offline Software Activation]** menu of the License Manager. Then click Apply Update to register the license on that PC.



Deleting the license

This function is only available for SW licenses. This menu is used when a customer requests a refund after purchasing the product.

When a refund is requested, the license is deleted by passing the key ID of the purchased product to the dealer.

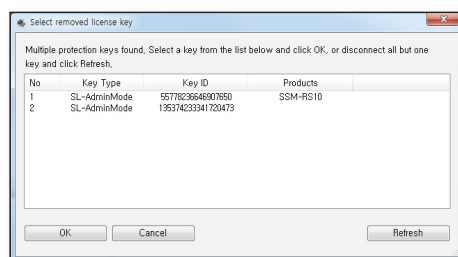
How to check Product Key ID

Select a feature for that key in Options > Products on the left side of the ACC page.

- ACC Page URL: <http://localhost:1947/>

How to Delete a License

1. Contact your license server administrator to request that the license be removed by passing the product key ID.
Pass the license key information that was issued when a refund request was made. (Refer to 'How to check Product Key ID')
2. Deletes the license using the V2C file (License Delete File) received from the License Server (EMS). Select **[Delete SW License]** [1] in the License Manager.
 - When you update the V2C (Delete License) file, the product information of the corresponding product is deleted.
3. Generates a C2V file to confirm that the license has been successfully deleted.
Click the **[Collect Information]** button in **[Delete SW License]** [2] in the License Manager.
 - If you have multiple verified licenses, the License List window will pop up. Select the product key you deleted, and generate a C2V file for that key.
 - If you have only one license, the License List window will not pop up and a C2V file will be created automatically for the product key that you deleted.
4. Pass the generated C2V file to the license manager.



License Transfer

This is used when you need to move a license due to an issue such as a PC malfunction or upgrade.

- Source PC: Licensed PC
- Recipient PC: PC to be licensed

How to Transfer a License

1. Create an ID file that collects PC information from the recipient PC.
Select **[SW License Transfer]** [1] from the License Manager.
2. Creates a license file to transfer from the source PC.
Select **[SW License Transfer]** [2] from the License Manager.
 1. Set the id file created on the recipient PC to 'Read the recipient information' file.
 2. Set a file name for the license file transfer.
 3. From the list of licenses, select the license key you want to transfer.
 4. Click the **[Generate License Transfer File]** button to create a license transfer file (H2H file).
 - The license key information to be moved when the license key is transferred is deleted from the list.
3. Apply a license transfer file (H2H file) to the recipient PC.
 - After you upload the H2H file, you can check the license key that you transferred to the license list.
 - You can also check the transferred license on the ACC page.



▪ Precautions regarding SW license

- You will not need to reactivate the license if you reinstall the software after deleting it, or after you install updates. The license remains on the PC unless you format the HDD.
- If you are replacing an old PC, transfer the license to the new PC first.
- If you are reinstalling the OS (HDD format), temporarily transfer the license to another PC and then retrieve it later.
- We recommend using the software on a physical PC rather than in a VMWare environment.
In a VMWare environment, the SW license may not work properly. (For example, when using it after cloning VMWare)

License types

- Basic (SSM-TR00L): This is the default license and allows you to use all functions other than remote backup.
- Archiver License (SSM-TR10LA): This provides a remote backup function, and license registration must be performed for each installed Archiver.

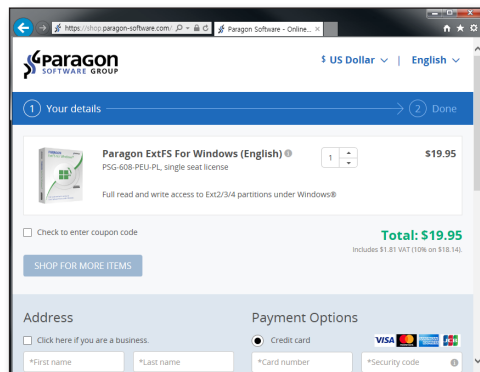
Before you start using SSM Transportation

CERTIFYING THE PARAGON SW LICENSE

To use the drive backup feature, the Paragon SW license should be certified as follows:

Purchasing the Paragon SW License

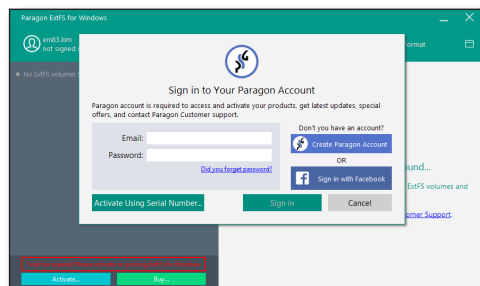
Go to the site below and proceed with your purchase.
<https://shop.paragon-software.com>



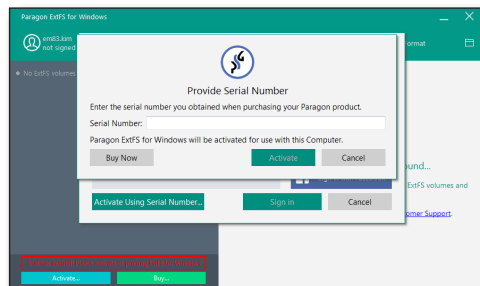
Certifying the Paragon SW License

Go to the site below and proceed with license authentication.
<https://my.paragon-software.com/activate>

1. Create a Paragon Account.

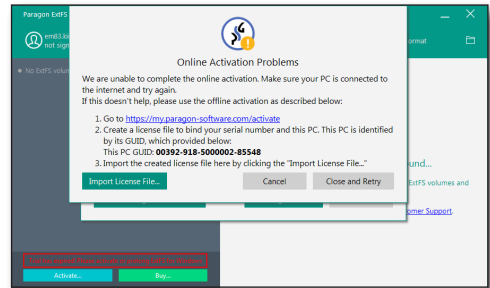


2. Enter your purchased serial number to verify your license.





- If you cannot access the site online, you can perform an offline license authentication as described below.



STARTING SERVICE MANAGER

Through the Service Manager, you can check the execution status of each of the following services and start/stop them.

- SSM System Manager
- SSM Media Gateway
- SSM Mobile Tracking Server
- SSM Archiver Cluster Manager
- SSM Archiver Service



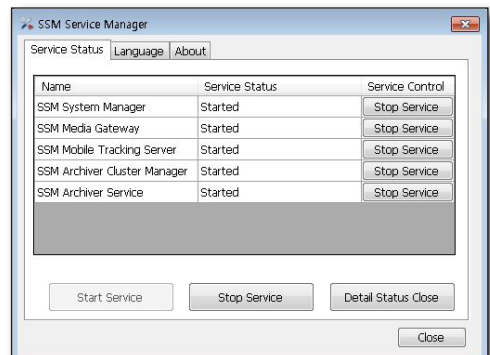
- Before using the Console, make sure that each service is running through the Service Manager.

Running Service Manager

1. Double-click the Service Manager icon on the desktop to launch it.
2. Make sure that the status of each service is **<Started>**.
3. If the status is not **<Running>**, select the item that is in the **<Stopped>** status, then press the **<Start Service>** button on the bottom right to start the service.



- Make sure that this service is **<Started>** before the program is used, as SSM Transportation works normally only in **<Started>** status.



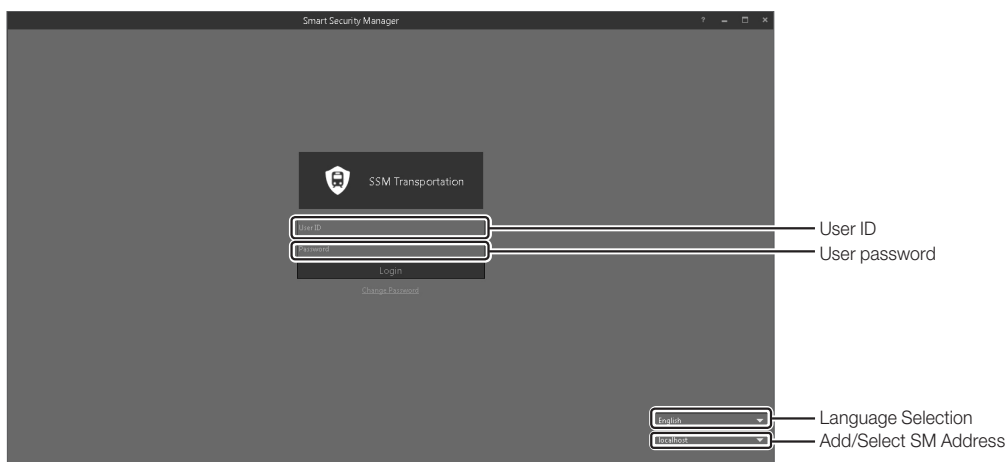
SSM Transportation Setting

CONSOLE PREFERENCES PAGE

You can configure the following settings through the Console Preferences Page.

- Device registration/deletion: Media gateway registration/deletion and NVR registration/deletion
- Archiver registration/deletion: ACM registration/deletion and Archiver registration/deletion
- User registration/deletion: Registration/deletion of user groups and users
- MTS connection information setting

LOGGING IN

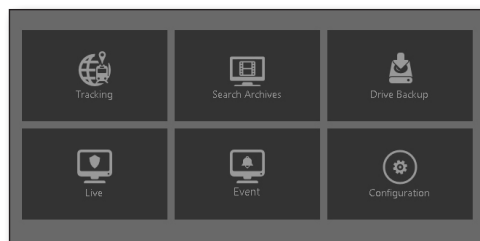


1. Execute [Start] > [All Programs] > [Wisenet] > [SSM] > [SSM Transportation Console].



■ You can also double-click the shortcut icon created on your desktop.

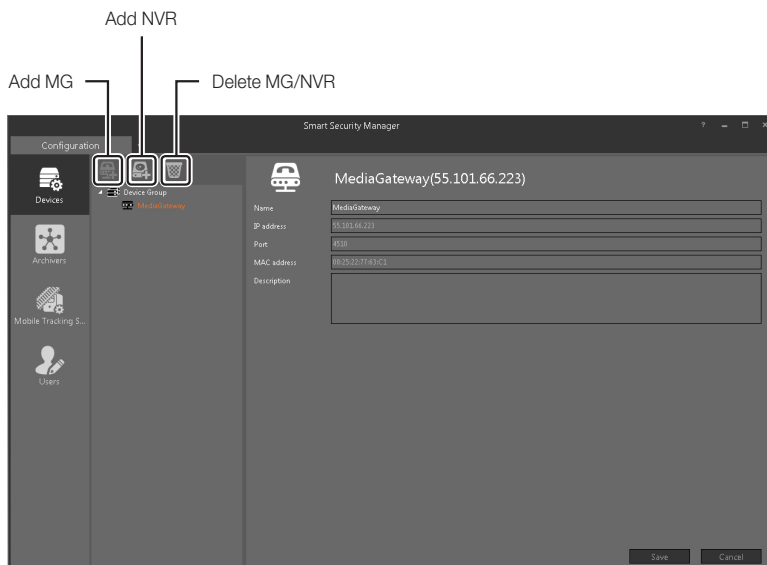
2. Add the address of the SM server to be connected by using the server address addition function on the lower right side.
You can enter a new server address by selecting [+] from the server address list.
If the SM server has been installed on the same PC, you can select localhost.
3. You can specify the language used by the Console.
 - Languages supported: English, Korean, French, and Italian
4. Enter your user ID and password, and click [Login] to log in.
5. Click the [Configuration] button on the home screen.



SETTING DEVICES

Registers and sets up the media gateway and NVR.

Registering and setting up Media Gateway

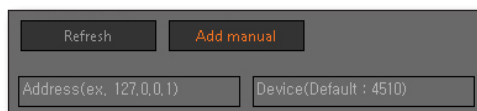


Registering MG

Select one of the automatically detected MG items and press the [] button to register it.

If you cannot find the item you want to register, click the Manually Add button, enter the address and port value, and click the [Register] button.

- The default port is 4510.



Setting MG

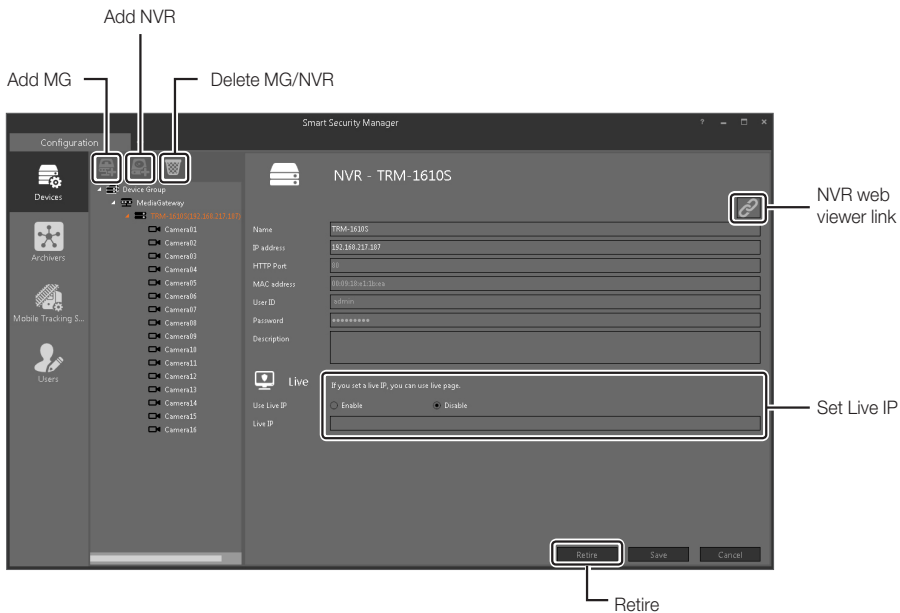
The name and description of the registered MG can be set.

Deleting MG

Select the MG to delete and click the [] button to delete the MG.

SSM Transportation Setting

Registering and setting NVR

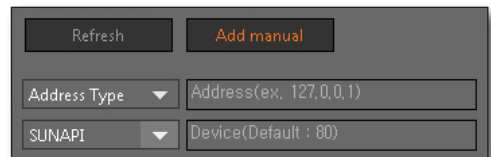


Registering NVR

Select MG in the tree and click the [] button. Select one of the automatically detected NVR items, enter the user ID and password, and press the register button to register the NVR.

If you cannot find the item you want to register, click the Manually Add button, enter the address, port, user ID, and password, and click the Register button.

- The default port is 80.



Setting NVR

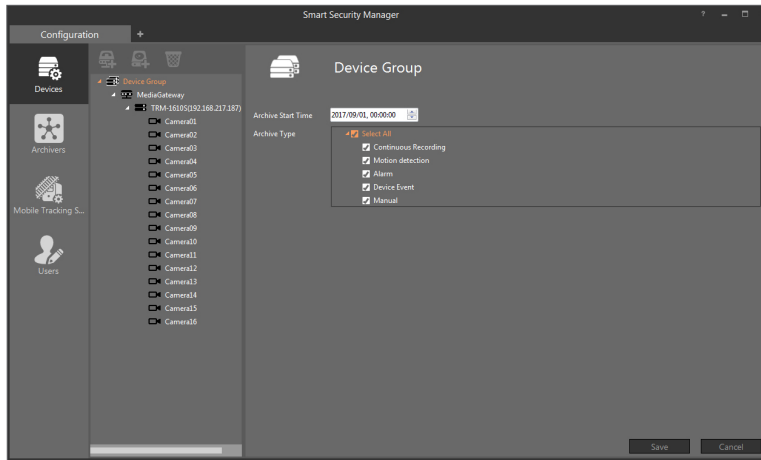
The name, description, and access information of the registered NVR can be set. Press the [] button to launch the NVR web viewer.

- **"Retire function"** is similar to NVR deletion, but you can play back videos that have already been backed up from the NVR.
- To use the Live Monitoring function during driving, you need to set the Live IP information for the device. To configure Live IP, enter the Live IP of the NVR and check the Enable Live IP checkbox.

Deleting NVR

Select the NVR to delete and click the [] button to delete the NVR.

Setting Drive Group



Setting Archive Options

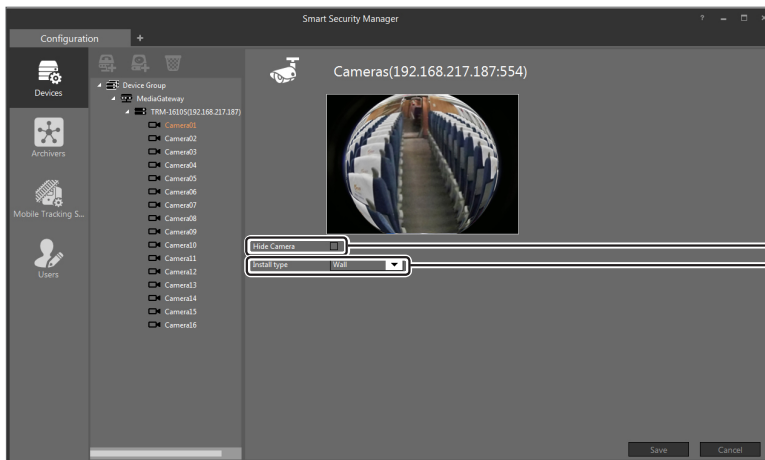
You can set various options for remote backup. Perform a remote backup of recorded data of the NVR according to the conditions.

These settings apply to all NVRs in the lower layer.

- The archive start time is the start time of the video stored in the NVR to be backed up by the Archiver.
The Archiver performs remote backup of recording data after the set time of all NVR recording data.
- Archive type is the type of video to be backed up.
The Archiver performs remote backup only of the recording data corresponding to the corresponding type in the entire NVR recording data.

SSM Transportation Setting

Setting Camera



Whether to hide the camera
Camera installation
nstallation

You can check the preview image of the camera, and set Hide Camera, installation location, etc..

- Hide Camera: You can set whether to use the camera. Hidden cameras are not displayed in the Live/Search function tree.
 - If the Live/Search function is already in use, close the function and run it again to apply the Hide Camera function.
- Install type: You can set the installation location of the camera.
 - Wall
 - Ceiling
 - Floor

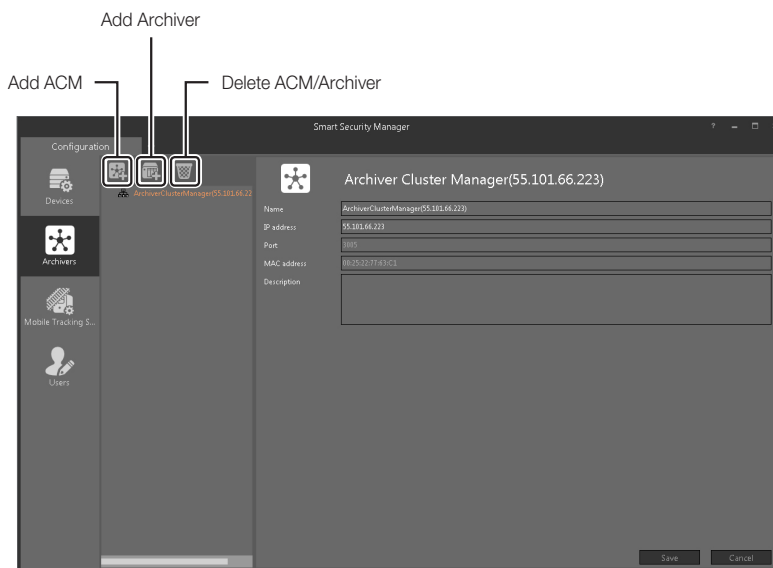
SETTING ARCHIVER

Registers and sets the Archiver Cluster Manager and Archiver.

Registering and setting Archiver Cluster Manager

Registering ACM

Select one of the automatically detected ACM items and press the [] button to register the ACM. If you cannot find the item you want to register, click the Manually Add button, enter the address and port value, and click the Register button.



Setting ACM

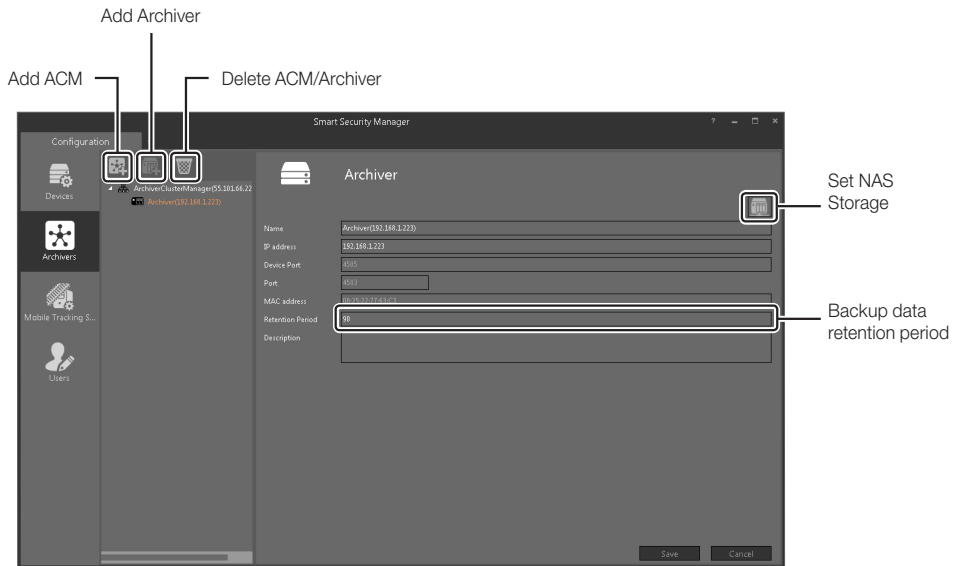
The name, description, and network information of the registered ACM can be set.

Deleting ACM

Select the ACM to delete and click the [] button to delete the ACM .

SSM Transportation Setting

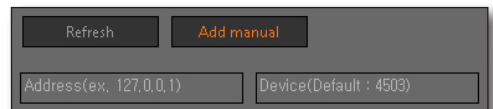
Registering and setting Archiver



Registering Archiver

Select ACM in the tree and click the [] button. Select one of the automatically detected Archiver items and press the register button to register the Archiver. If you cannot find the item you want to register, click the Manually Add button, enter the address and port value, and click the Register button.

- The default port is 4503.

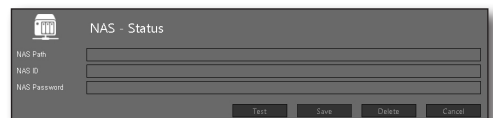


Setting Archiver

The name, description, and access information of the registered Archiver can be set.

• Setting NAS Storage

- 1) Set NAS connection information (path, ID, password).
- 2) Click the [Test] button to check if you can connect to NAS properly.

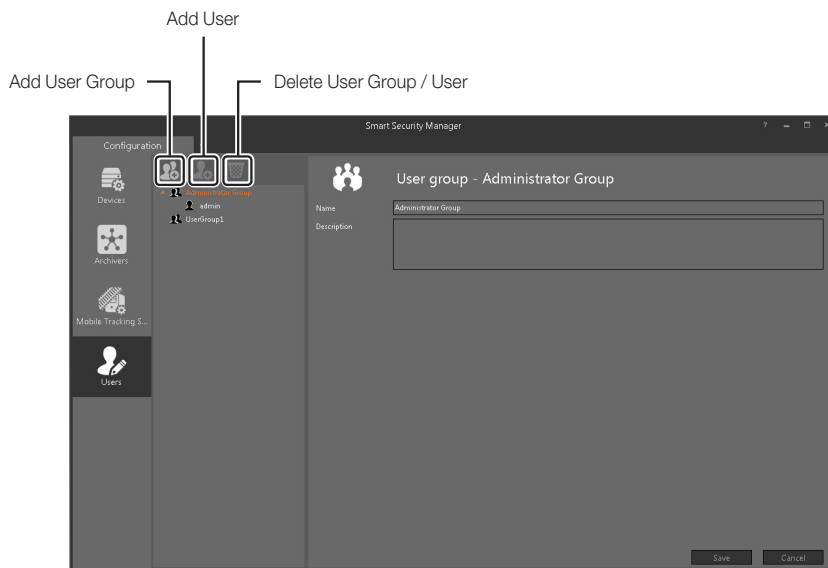


Deleting Archiver

Select the Archiver to delete and click the [] button to delete the Archiver.

SETTING USERS

Registers and sets user groups and users.



Registering and Setting User Group

Registering User Group

When you click the Register button, a user group is created and displayed in the tree.

Setting User Group

The name and description of the registered user group can be set.

Deleting User Group

Select a user group to delete and click the [] button to delete the user group.

SSM Transportation Setting

Registering and Setting User

Registering User

Select a user group in the tree and click the Register button.
Enter your user ID, password, and other information, and then click the Register button.

Setting User

You can set the registered user's password and other information.

Deleting User

Select a user to delete and click the [] button to delete the user.

SETTING MTS

Registers and sets MTS.



Registering and Setting MTS

Registering MTS

Enter the name, IP address, and port, and click the Save button.

Setting MTS

You can set the name of the registered MTS.

Deleting MTS

Click the [] button to delete the registered MTS.

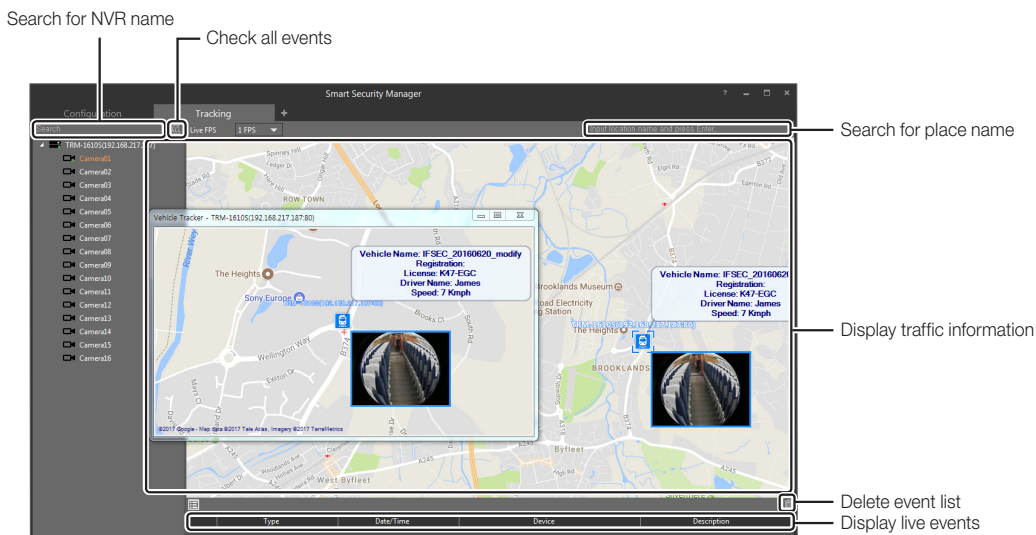


- In order to use the functions such as monitoring of the vehicle moving route, you need to set the MTS connection information in the mobile NVR. Refer to the mobile NVR manual for the setting method.

SSM Transportation Setting

TRACKING

On the Tracking page, you can monitor the paths the registered NVRs move along on the map.



NVR list

1. In the tree on the left, you can see the list of registered NVRs and cameras in the lower layer.
2. You can search by NVR name.
3. Double-click the NVR to display the map popup window.
4. Double-click the camera icon to display the live image of the camera in the NVR icon location on the map.

Map

The current location of the NVR is displayed on the map.

1. You can determine the current state of the NVR based on the color of the NVR icon on the map.
 -  : Online status is displayed in blue.
 -  : Offline status is displayed in gray.
 -  : Event reception status is displayed in red.
2. Click on the NVR icon and the details will be displayed in the balloon help message.

3. When you right-click on the NVR icon, the contextual menu will be displayed.
 - Start recording: Saves the live image currently being monitored to the local disk. The storage path is the camera folder under the installation location.
 - x1, x2, x4: Changes the size of the live image window currently being monitored.
 - Close: Closes the live image window currently being monitored.
 - Check Event: Removes the event occurrence indication on the NVR icon.
4. Live FPS change
Changes the refresh rate of the live image displayed on the map.
5. Search for places
Searches for and navigates to a specific place on the map by name.

Event

Displays events received from the NVR and the system.
Event types are as follows.

- User
 - Login, Logout
 - NVR
 - Connected, Disconnected
 - Disk full, Disk fail
 - Emergency event
 - Gravity sensor event
 - Disk error (SMART) event
 - Camera
 - Motion, video loss, alarm
 - Archiving
 - Remote backup start, completed, and fail
 - Drive backup
 - Manual backup start, completed, and fail
 - System
 - SM start, SM stop
-  ■ When an alarm event occurs on the camera, it is not displayed on the icon in the tree but displayed on the event list and on the map.

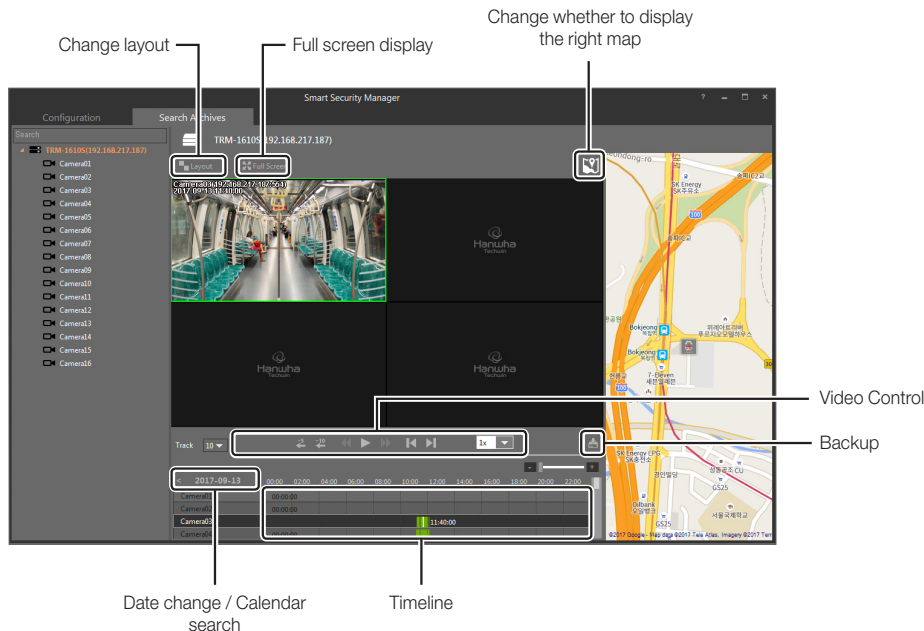
Checking Events

When you click Check Event in the pop-up menu of the NVR icon, event display is canceled.

SSM Transportation Setting

SEARCHING ARCHIVE

You can search and play back videos remotely backed up from NVR.



NVR List and Calendar

1. In the tree on the left, you can see the list of registered NVRs and cameras in the lower layer.
2. You can search by NVR name.
3. You can select NVRs and search the calendar.
The date with the backed up video is highlighted on the calendar.
4. If you select a date that has backed up videos on the calendar, the timeline search results are displayed.
The color of the timeline is as follows
 - Emergency Event Recording: Brown
 - Gravity Sensor (G-Sensor) Event Recording: Black
 - Motion Event Recording: Blue
 - Alarm Event Recording: Orange
 - Continuous Recording: Green
 - Manual Recording: Gray
5. You can zoom in and out of the timeline.
6. DST (Daylight Saving Time) overlaps are shown on the timeline in purple, and one of the overlapping sections can be selected for playback.

Replaying Video

1. Double-clicking on a specific timeline will play the corresponding video.
2. Provides function to play video 10 and 5 seconds before the current playback point.
3. Provides reverse playback and double speed playback.
4. Provides frame-by-frame search function.

Video Menu

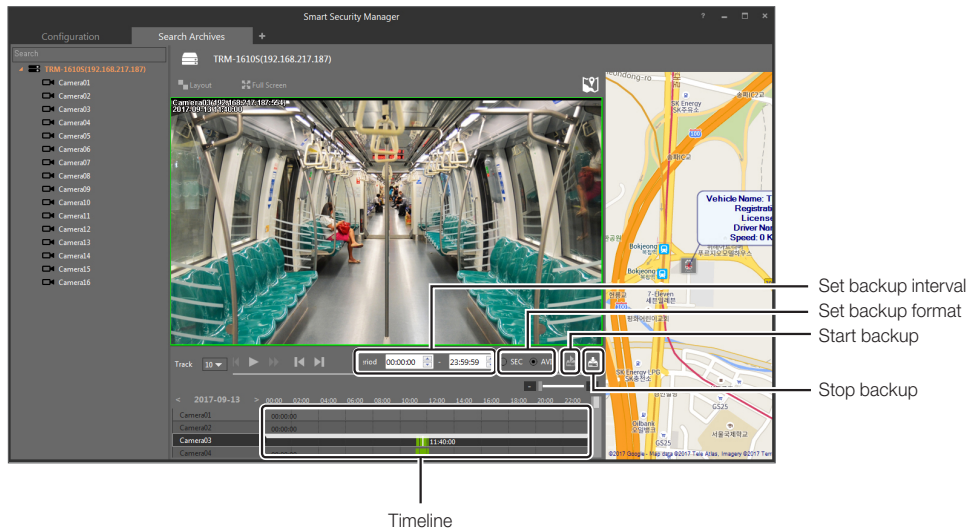
1. You can select the option of showing the video at its actual size.
2. For Fisheye cameras, you can select the view mode.
 - Supported view modes may vary depending on the camera installation location specified in the preferences.
3. You can select whether the text on the video is displayed or not.
4. Displays the recording and audio status as icons.
5. Displays camera information (Name, PTZ).
6. You can control the PTZ with the mouse over the video.
 - Zoom in/out is controlled by placing the mouse over the video.

Map

The position of the NVR is displayed on the map.

SSM Transportation Setting

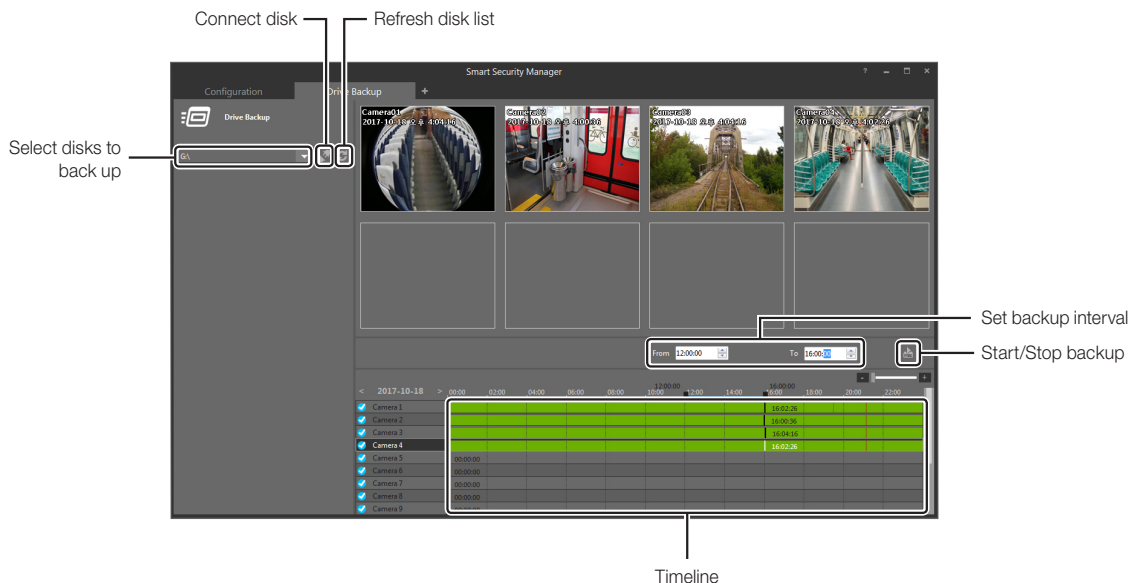
Backup



1. The playback video can be backed up in SEC or AVI format.
2. Select the desired backup format, and then click the Backup button.
 - The backup interval (Start time, End time) can be set manually or by dragging and dropping on the timeline.
3. The backup progress is displayed on the timeline and can be canceled while in progress.
4. When the backup is completed, the folder where the backup file was created is opened automatically.

BACKING UP DRIVE

Backs up recorded video from disc in NVR.



Preparing for Backup

1. Connect the disc that was brought from NVR to PC.
2. Select the appropriate disk from the drive list.

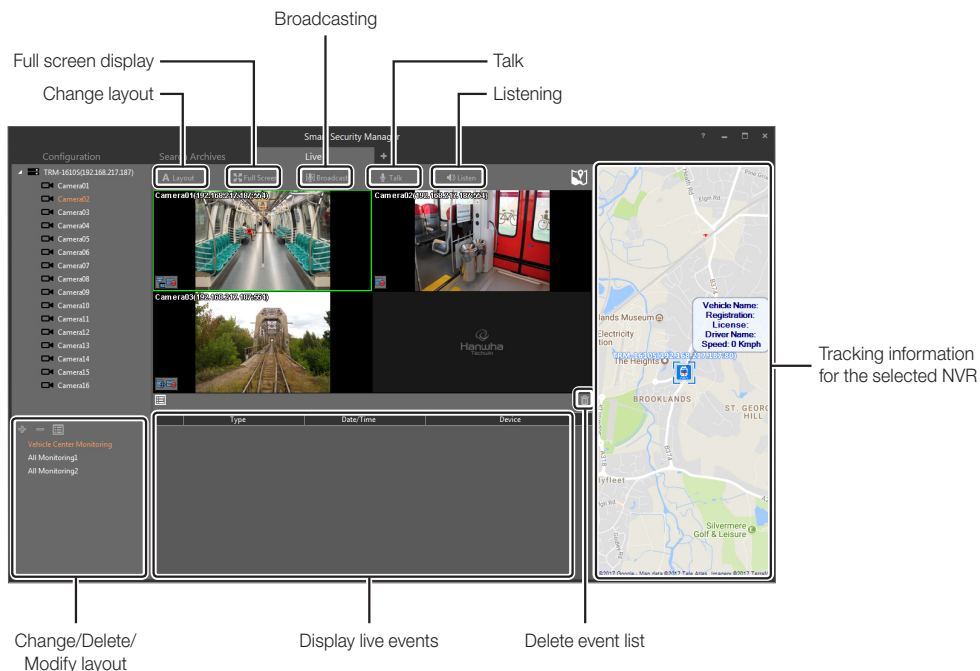
Performing backups

1. Specify the path and file name where the backup file will be created.
2. Select the backup target camera.
3. Dates on the calendar with recorded video are highlighted.
4. If you select a date with videos to back up on the calendar, the timeline search results are displayed.
The color of the timeline is as follows.
 - Emergency Event Recording: Brown
 - Gravity Sensor (G-Sensor) Event Recording: Black
 - Motion Event Recording: Blue
 - Alarm Event Recording: Orange
 - Audio Detection Event Recording: Light blue
 - Continuous Recording: Green
5. Click the point you want to see in the timeline to display the snapshot at that point in time.
6. Specify the backup interval (start time, end time) on the timeline.
7. Click the Start Backup button.
You can cancel the backup while it is in progress.

SSM Transportation Setting

LIVE PAGE

You can monitor live video of NVR.



Camera List

1. The camera list of NVR with Live IP address is displayed.
2. Double-click the camera you want to monitor.

Video Menu

1. You can select the option of showing the video at its actual size.
2. For Fisheye cameras, you can select the view mode.
Supported view modes may vary depending on the camera installation location specified in the preferences.
3. You can select whether the text on the video is displayed or not.
4. Displays the recording and audio status as icons.
5. Displays camera information (name, PTZ).
6. You can control the PTZ with the mouse over the video.
Zoom in/out is controlled by placing the mouse over the video.

Audio

1. Press the [ Listen] button to output/stop the sound of the selected camera.
2. Press the [ Talk] button to transfer sound from a PC microphone to the selected camera.
3. Press the [ Broadcast] button to transmit sound to multiple cameras.
However, one NVR can only talk to only one camera.

Event

The following live events are displayed.

- User
 - Login, Logout
- NVR
 - Connected, Disconnected
 - Disk full, Disk fail
 - Emergency event
 - Gravity sensor event
 - Disk error (SMART) event
- Camera
 - Motion, Video loss, Alarm
- Archiving
 - Remote backup start, Completed and fail
- Drive backup
 - Manual backup start, Completed and fail
- System
 - SM start, SM stop



- All displayed events can be cleared from the list.

Layout

1. The following split modes are supported.
 - Auto, 2x2, 3x3, 8, 4x4
2. Supports the maximized screen mode. Press ESC to restore.
3. User layout
You can save the currently configured layout.
Layout can be saved, renamed, and deleted only when logged in with admin ID.

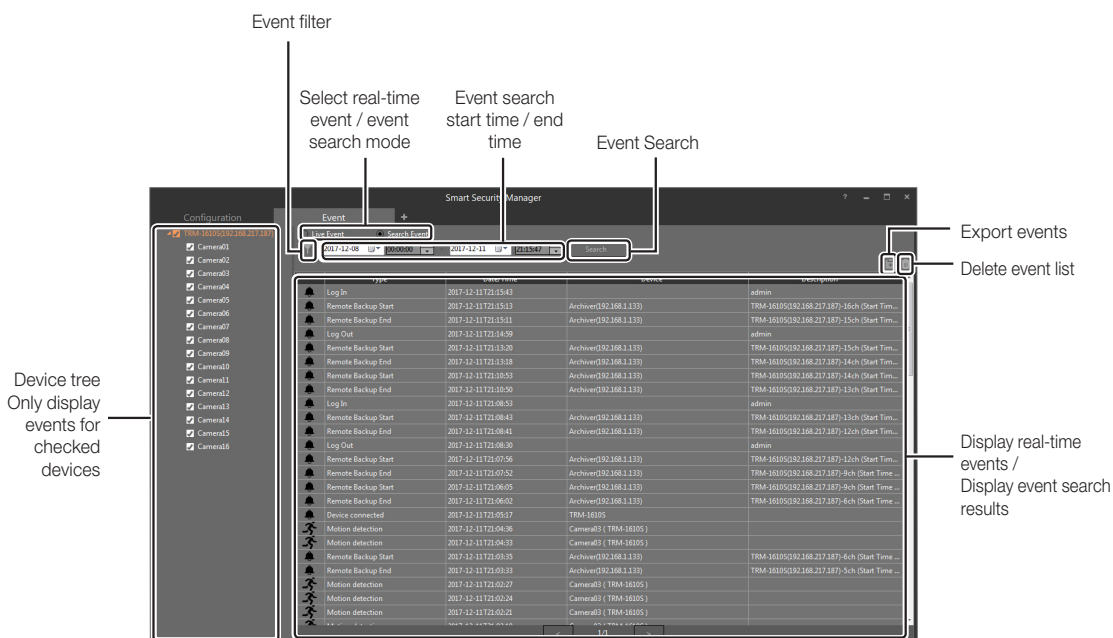
Map

When you select the live video you are monitoring, the position of the NVR is displayed on the map.

SSM Transportation Setting

EVENT PAGE

You can monitor real-time events received from the NVR and MTS, or search for events that are already stored.



Live Events

If you select live event mode, events received from the NVR or the system are displayed on the list in real time.

1. You can select and filter the devices and event types you want to monitor. Press the [▼] button to select the event type.
2. All displayed events can be deleted from the list.
3. You can freeze or release the scrolling of the event list.
4. Provides a sorting function by each header in the event list.

Event Search

Events received in real time from the NVR or the system are saved separately. You can search saved events by selecting the search event mode and entering the following conditions.

- Device
- Start/End time
- Event Type

Export as a file

You can export the contents of the event list to a file in CSV format.

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