

WISeNeT

SSM Transportation

제품 사용 설명서

VER 1.2

SSM Transportation

제품 사용 설명서

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개요

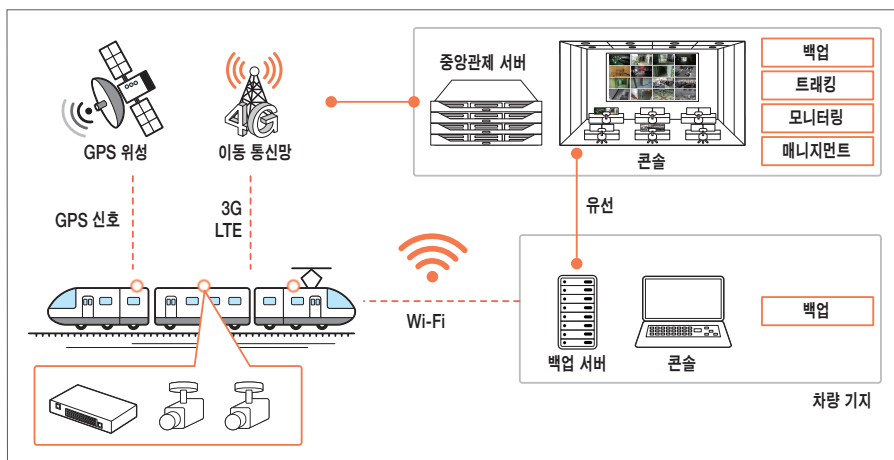
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개요

SSM Transportation은 기차, 버스 등 교통수단의 동선 감시, 운행 중 발생하는 이벤트 관리 및 라이브 모니터링, 차량 내 녹화된 영상의 수동 및 자동 백업을 제공하는 솔루션입니다.

시스템 오버뷰

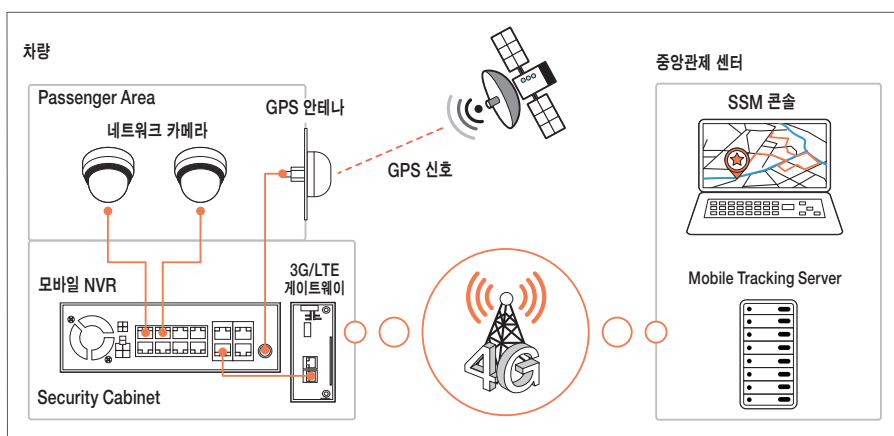


- 운행 중에 동선 정보(GPS 데이터), 이벤트, 스냅샷 데이터 송수신은 주로 3G나 LTE 망을 이용하고, 주차 중에 NVR에 녹화된 데이터를 원격으로 백업할 때는 주로 WiFi 망을 이용합니다.

주요기능

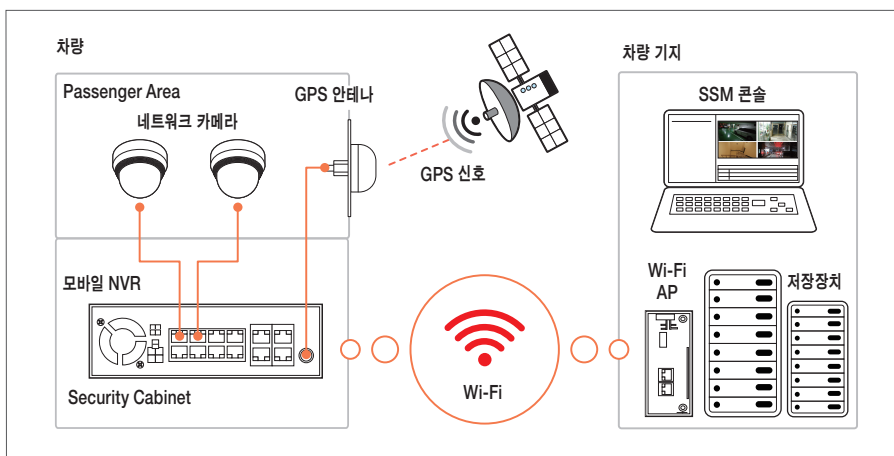
1. 차량 동선 감시

교통수단의 동선 감시는 NVR로부터 수신한 GPS 정보 및 이벤트 정보를 이용하여 맵 상에 표시합니다.



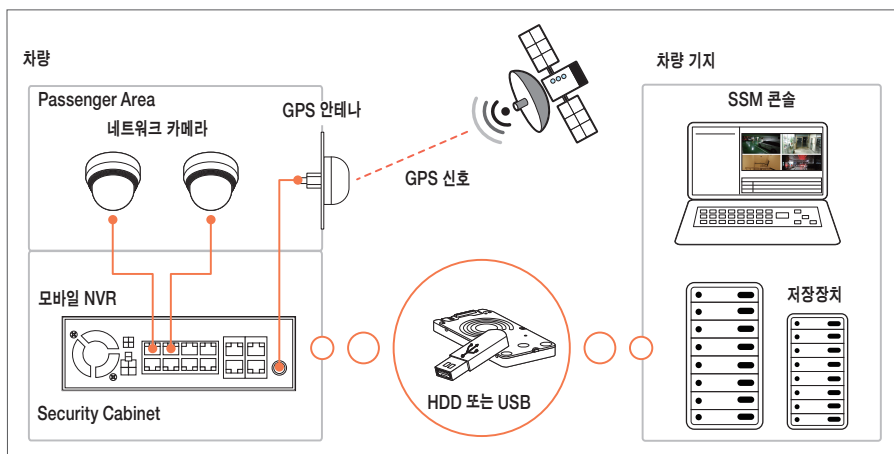
2. 자동 백업

차량 내 NVR에 녹화된 영상의 자동 백업은 WiFi를 이용하여 NVR로부터 원격으로 녹화된 영상을 가져와 백업합니다.



3. 수동 백업

차량 내 NVR에 녹화된 영상의 수동 백업은 NVR의 디스크로부터 직접 녹화된 영상을 가져와 백업합니다.

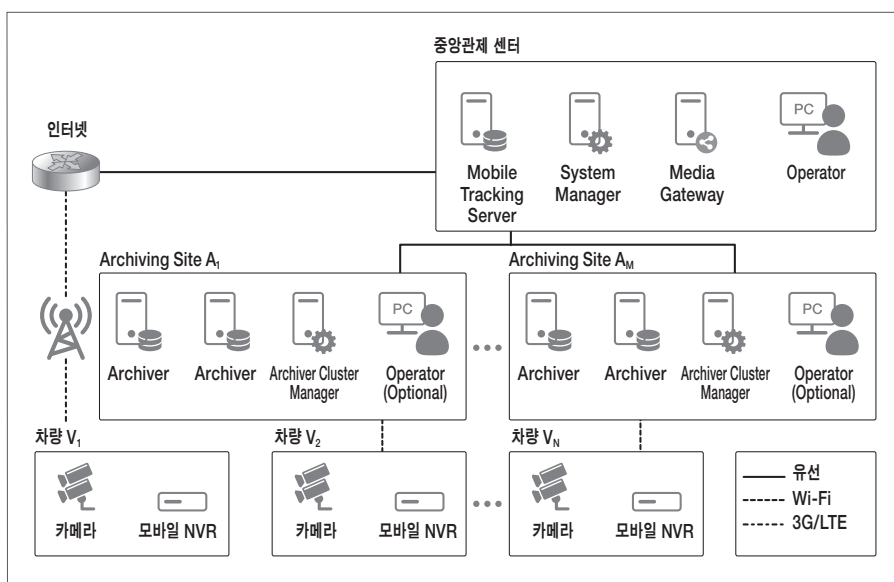


개요

구성

SSM Transportation은 다음과 같이 구성되어 있습니다.

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



모바일 NVR이 WiFi 망 내에 들어오면, Archiver와 모바일 NVR은 WiFi로 연결되어 리모트 백업을 수행합니다. 모바일 NVR이 Cellular(3G, LTE) 망 내에 들어오면, MTS와 모바일 NVR은 데이터 통신을 이용하여 차량 동선 감시, 이벤트 모니터링 등의 기능을 수행합니다.

• Console (Operator PC)

지도 상에서 차량의 동선을 표시하고, 라이브 모니터링 및 차량으로부터 백업한 영상에 대해 검색/재생 기능을 제공합니다.

실시간 이벤트를 모니터링하고, 이미 발생한 이벤트를 검색할 수 있습니다.

차량에 녹화된 영상을 디스크를 통하여 수동 백업하거나, 네트워크로 원격 백업할 수 있습니다.

• Media Gateway

차량으로부터 라이브 영상을 수신하거나, Archiver로부터 백업 영상을 수신하여 Console에게 전달하는 역할을 합니다.

• Archiver Cluster Manager

Archiver가 차량에 녹화된 영상을 원격 백업할 수 있도록 다수의 Archiver에 대해 로드 밸런싱 및 백업 기능을 관리하는 역할을 합니다.

• System Manager

사용자가 설정한 내용 및 이벤트 등의 주요 정보를 저장하고 관리하는 역할을 합니다.

• Mobile Tracking Server

차량으로부터 GPS정보 및 이벤트를 수신하여 차량의 이동 경로를 관리하는 역할을 합니다.

• Archiver

차량에 녹화된 데이터를 리모트 백업하고 저장하는 역할을 합니다.

로컬 HDD 및 NAS 저장소를 지원합니다.

시스템 요구 사양

SSM Transportation을 설치하기 위해 요구되는 PC사양은 다음과 같습니다.

- **Console**
 - CPU Intel Core i7 7세대 이상
 - RAM 8GB 이상
 - HDD 500GB 이상
 - VGA Geforce GTX760 GPU(1024MB이상) 이상
- **MG / ACM**
 - CPU Intel Core i7 7세대 이상
 - RAM 8GB 이상
 - HDD 500GB 이상
- **SM / MTS**
 - CPU Intel Core i7 7세대 이상
 - RAM 8GB 이상
 - HDD 2TB 이상
- **Archiver**
 - CPU Intel Core i7 7세대 이상
 - RAM 16GB 이상
 - HDD 2TB 이상 (백업 데이터의 보존 기간에 따라 용량 선택)
- **OS**
 - Windows 7 서비스 팩 1 이상, 64bit

지원 하드웨어

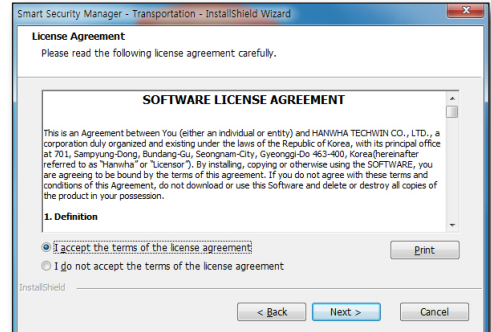
- TRM-1610S

SSM Transportation 설치

SSM TRANSPORTATION 설치하기

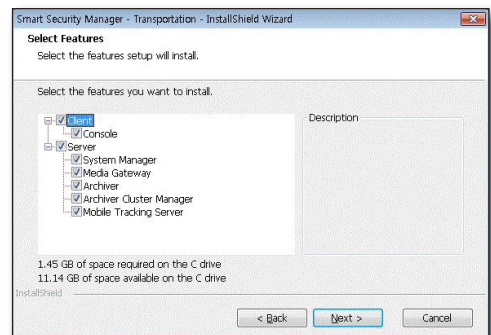
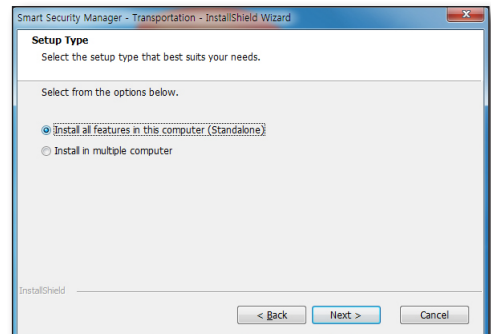
Setup 파일 실행 후, 아래의 절차를 수행하세요.

1. 라이선스를 동의하세요.



2. PC에 프로그램을 모두 설치할지, 일부 프로그램만 설치할지 선택하세요.

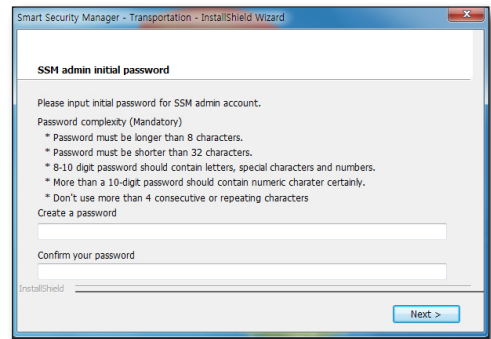
- Install all features in this computer (Standalone) : 인스톨 하는 한 대의 PC에 System Manager / Console / Media Gateway / Archiver / Archiver Cluster Manager / Mobile Tracking Server를 모두 설치합니다.
- Install in multiple computer : System Manager / Console / Media Gateway / Archiver / Archiver Cluster Manager / Mobile Tracking Server를 개별 PC에 설치합니다.



3. admin 계정의 비밀번호를 설정하세요.

- 비밀번호 설정 시 필수 사항

- 아이디와 비밀번호는 동일하지 않아야 합니다.
- 최소 8자리, 최대 32자리 이어야 합니다.
- 8자리 이상 10자리 미만인 경우에는 영문 + 숫자 + 특수문자로 조합되어야 합니다. (특수문자 제약 없음)
- 10자리 이상인 경우에는 최소 영문 + 숫자로 조합되어야 합니다.
- 4개 이상 연속된 문자는 사용할 수 없습니다. (ex. abcd, dcba)
- 4개 이상 반복되는 문자를 사용할 수 없습니다. (ex. 1111, qqqq)
- 필수 사항이 위배되는 경우에는 비밀번호 설정을 할 수 없습니다.
- 비밀번호는 두 번 입력 받아 입력 받은 값이 동일할 경우만 수정할 수 있습니다.
- 설치 후, 설정 페이지에서 비밀번호를 변경할 수 있습니다.



SSM Transportation 시작하기 전에

라이선스 등록하기

License Manager 사용방법

Wisenet SSM 전 제품에 대한 라이선스를 관리하는 프로그램입니다.

License Manager는 SW 라이선스의 라이선스 활성화, 삭제, 이동 기능을 지원합니다.

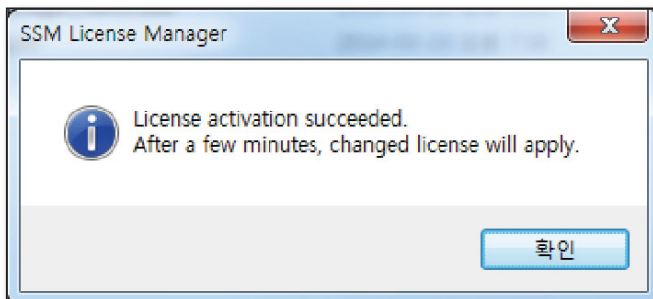
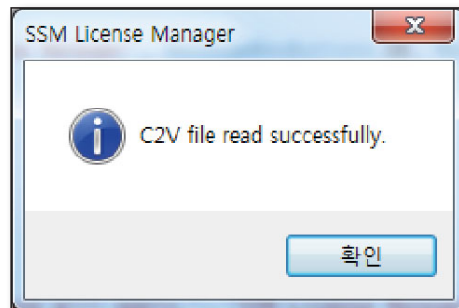
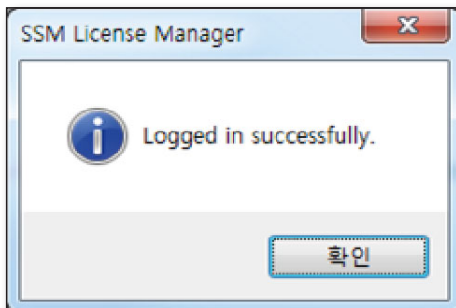
라이선스 활성화 방법

온라인 SW 활성화

Online SW activation 메뉴는 사용자가 웹 페이지를 통해 EMS 서버(라이선스 서버)에 접근 가능한 경우 라이선스 활성화하는 방법입니다.

사용 방법

1. License Manager의 [온라인 SW 활성화] 메뉴를 선택합니다.
2. Product key를 입력 후 [활성화] 버튼을 클릭합니다.
 - 라이선스를 활성화할 경우 3개의 메시지가 나타납니다.



라이선스 서버 정보

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

라이선스 활성화에 실패할 경우

1. online으로 라이선스 인증시 'Trust Failure' 팝업 발생할 경우: 시스템 시간이 인터넷 시간과 시간 동기화가 되어있는지 확인합니다. (서버: time.windows.com)
2. online으로 라이선스 서버에 연결이 불가능한 경우: 인터넷이 가능한 환경인지 확인합니다.
3. 이미 인증 받은 제품 키에 대해 라이선스 재인증을 시도한 경우: 이미 인증 받은 라이선스 키인지 확인합니다. 인증 받은 라이선스의 경우 재인증이 불가능합니다.
4. 라이선스 모듈 서비스가 중지되었을 경우 : ACC 페이지에 접근이 가능한지 확인합니다. 만약 연결이 불가능할 경우 서비스 메뉴의 Sentinel LDK License Manager 서비스가 중지되었는지 확인 후 서비스를 시작시킵니다.
- ACC 페이지: <http://localhost:1947>

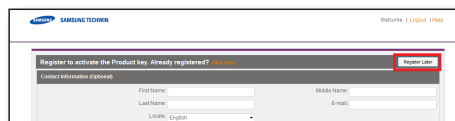
오프라인 SW 활성화

Offline SW Activation 메뉴는 사용자가 웹 페이지를 통해 EMS 서버(라이선스 서버)에 접근이 불가능한 경우 라이선스 활성화하는 방법입니다.

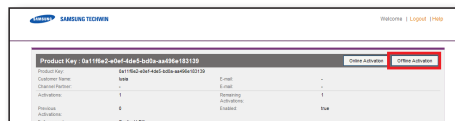
라이선스 인증 받을 PC에서 C2V파일 생성 후 라이선스 서버에 접근 가능한 PC에서 V2C 파일 생성 후 라이선스 인증 수행합니다.

사용 방법

1. LicenseManager의 [오프라인 SW 활성화]를 선택합니다.
2. Collect Status Information 메뉴에서 [정보 수집] 버튼을 클릭하여 라이선스를 활성화할 PC 정보를 수집합니다.
 - [정보 수집] 버튼으로 C2V파일 생성(라이선스를 인증 받을 PC정보 수집)
3. Online으로 라이선스 서버에 연결 가능한 PC에서 라이선스 서버 웹페이지(EMS)에 접속합니다.
 - 주소: <https://ems.hanwha-security.com/ems/customerLogin.html>
4. 제공받은 제품의 product key로 로그인 합니다.
5. 오른쪽 상단의 [Register Later] 버튼을 클릭합니다.

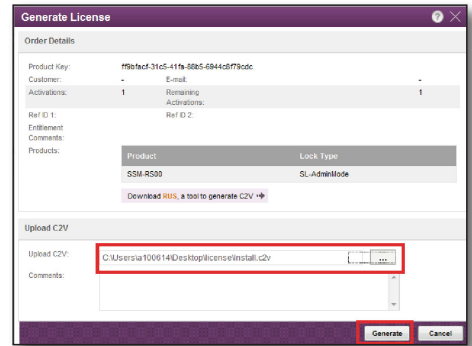


6. 오른쪽 상단의 [Offline Activation] 버튼을 클릭합니다.



SSM Transportation 시작하기 전에

7. Generate License 팝업 다이얼로그에서 1번에서 수행한 C2V파일을 업로드 후 **[Generate]** 버튼을 클릭합니다.
생성한 V2C파일을 다운받습니다.
 - PC정보를 수집한 C2V파일을 이용하여 V2C 파일(라이선스 파일) 생성
8. 다운로드 받은 V2C 파일을 License Manager의 **[오프라인 SW 활성화]** 메뉴의 **[라이선스 파일 적용]**에서 불러옵니다. 그 후 Apply Update를 클릭하여 License를 해당 PC에 등록합니다.



라이선스 삭제

SW 라이선스에 대해서만 지원하는 기능입니다. 고객이 제품을 구매한 후 환불을 요구할 경우 사용하는 메뉴입니다.

환불 요구 시 구매한 제품의 Key ID를 업체에 전달하여 라이선스 삭제를 수행합니다.

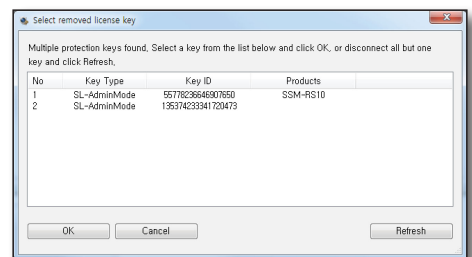
제품 Key ID 확인방법

ACC 페이지의 왼쪽 Options > Products에서 해당 키의 Feature 선택합니다.

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

사용 방법

1. 라이선스 서버 관리자에게 제품 Key ID를 전달하여 라이선스 삭제를 요청합니다.
환불 요구 시 발급받은 라이선스 키 정보를 전달합니다. (제품 Key ID 확인방법 참조)
2. 라이선스 서버(EMS)로부터 수신한 V2C파일(라이선스 삭제 파일)을 이용하여 라이선스를 삭제합니다. License Manager의 **[SW 라이선스 삭제]** 메뉴 [1]번에서 수행합니다.
 - V2C(라이선스 삭제) 파일을 업데이트하면 해당 제품의 Product 정보가 삭제됩니다.
3. 라이선스가 정상적으로 삭제된 것을 확인하기 위하여 C2V 파일을 생성합니다.
License Manager의 **[SW 라이선스 삭제]** 메뉴 [2]번에서 **[정보 수집]** 버튼을 클릭합니다.
 - 인증 받은 라이선스가 여러 개일 경우 라이선스 리스트 창이 팝업되며, 사용자가 삭제한 제품 키를 선택한 후 해당 키에 대한 C2V 파일을 생성합니다.
 - 인증 받은 라이선스가 1개 일 경우 라이선스 리스트 창은 팝업되지 않고, 자동으로 삭제한 제품 키에 대한 C2V파일이 생성됩니다.
4. 생성한 C2V파일을 라이선스 관리자에게 전달합니다.



라이선스 이동

PC 고장 및 업그레이드 등의 이슈로 라이선스를 이동하고자 할 경우 사용하는 메뉴입니다.

- Source PC: 라이선스 인증 받은 PC
- Recipient PC: 라이선스를 새로 받을 PC

사용 방법

1. Recipient PC에서 PC 정보를 수집하는 ID 파일을 생성합니다.
License Manager의 **[SW 라이선스 이동]** 메뉴 [1]번을 수행합니다.
2. Source PC에서 이동 라이선스 파일을 생성합니다.
License Manager의 **[SW 라이선스 이동]** 메뉴 [2]번을 수행합니다.
 1. Recipient PC에서 생성한 id 파일을 Read the recipient information file에 설정합니다.
 2. 이동 라이선스 파일의 파일명을 설정합니다.
 3. 라이선스 리스트에서 이동할 라이선스 키를 선택합니다.
 4. **[라이선스 이동 파일 생성]** 버튼을 클릭하여 이동 라이선스 파일(H2H 파일)을 생성합니다.
 - 라이선스 키 이동 시 이동할 라이선스 키 정보가 리스트에서 삭제됩니다.
3. Recipient PC에 이동 라이선스 파일(H2H파일)을 적용합니다.
 - H2H 파일 업로드 후 라이선스 리스트에 이동한 라이선스 키를 확인할 수 있습니다.
 - ACC 페이지에서도 이동한 라이선스를 확인할 수 있습니다.



SW 라이선스 사용 시 주의사항

- 업데이트 설치 및 삭제 후 재설치 시 라이선스를 다시 활성화하지 않아도 됩니다.
라이선스는 HDD 포맷하지 않는 이상 PC에 존재합니다.
- 노후 PC 교체 시에는 라이선스를 먼저 교체 PC로 이동하세요.
- OS 재설치 시(HDD format)에는 라이선스를 임시로 다른 PC로 이동 후 다시 가져와서 사용하세요.
- VMWare 보다 실제 PC에서 사용하시길 권장합니다.
VMWare의 경우 SW 라이선스가 정상동작하지 않을 수 있습니다. (예, VMWare 복제후 사용)

라이선스 종류

- Basic (SSM-TR00L) : 기본 라이선스이며 리모트 백업을 제외한 나머지 기능을 사용할 수 있습니다.
- Archiver License (SSM-TR10LA) : 리모트 백업 기능을 제공하며, 설치한 Archiver 마다 각각 라이선스 등록이 필요합니다.

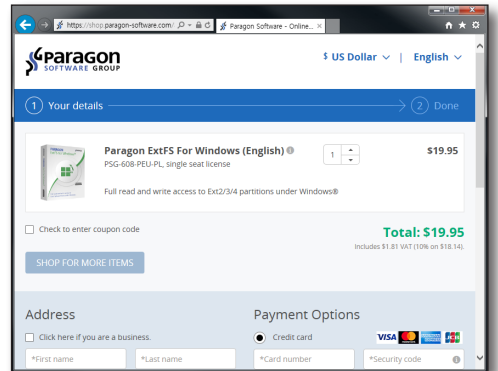
SSM Transportation 시작하기 전에

PARAGON SW 라이선스 인증하기

드라이브 백업 기능을 사용하려면 아래와 같이 Paragon SW 라이선스를 인증해야 합니다.

Paragon SW 라이선스 구매하기

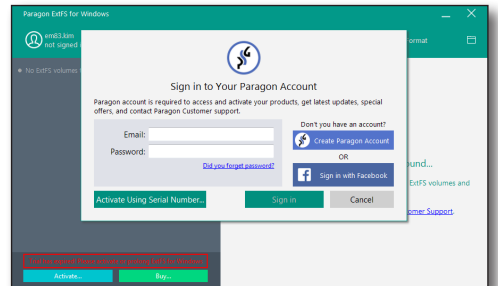
아래의 사이트에 접속하여 구매를 진행하세요.
<https://shop.paragon-software.com>



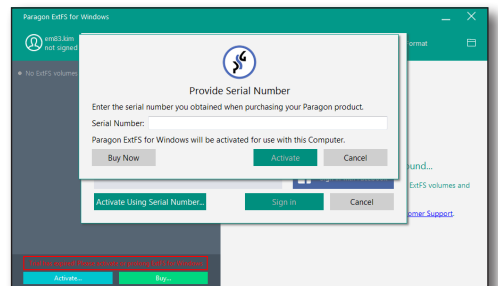
Paragon SW 라이선스 인증하기

아래의 사이트에 접속하여 라이선스 인증을 진행하세요.
<https://my.paragon-software.com/activate>

1. Paragon Account를 생성하세요.

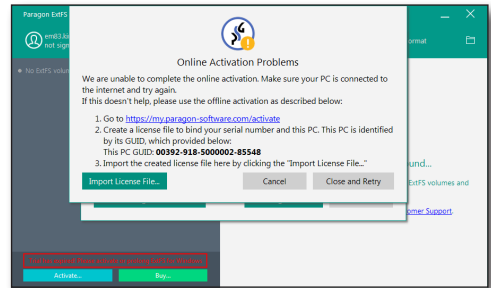


2. 구매한 serial number를 입력하여 라이선스를 인증 받습니다.





- online 접속이 안 될 경우에는 아래와 같이 offline 라이선스 인증을 받을 수 있습니다.



서비스 매니저 시작하기

서비스 매니저를 통해 아래 각 서비스의 실행 상태를 확인하고 시작/중지 시킬 수 있습니다.

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



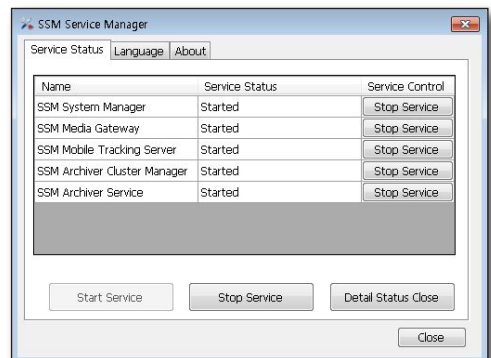
- Console을 사용하기 앞 서, 반드시 서비스 매니저를 통해 각 서비스가 실행된 상태임을 확인하세요.

서비스 매니저 실행하기

1. 바탕화면의 서비스 매니저 아이콘을 더블 클릭하여 실행하세요.
2. 각 서비스의 상태가 모두 <Started> 임을 확인하세요.
3. 상태가 <Running>이 아니라면 <Stopped> 상태인 항목을 선택한 후, 오른쪽 아래의 <Start Service> 버튼을 눌러 서비스를 실행하세요.



- 본 서비스가 모두 <Started> 상태에서 SSM Transportation이 올바르게 정상 작동하니, 프로그램 사용 전 <Started> 임을 반드시 확인하세요.



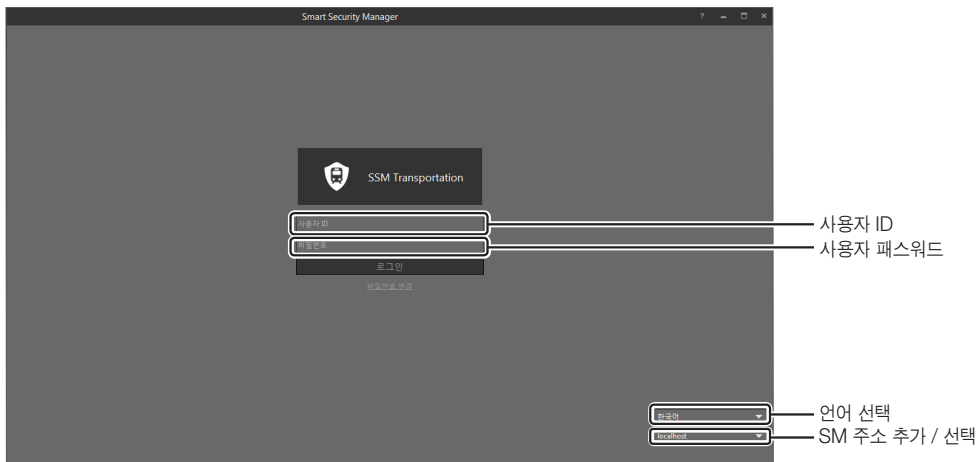
SSM Transportation 설정하기

CONSOLE의 환경 설정 페이지

Console의 환경 설정 페이지에서 아래의 설정을 수행할 수 있습니다.

- 디바이스 등록/삭제 : Media Gateway 등록/삭제, NVR 등록/삭제
- Archiver 등록/삭제 : ACM 등록/삭제, Archiver 등록/삭제
- 사용자 등록/삭제 : 사용자 그룹 및 사용자 등록/삭제
- MTS 접속정보 설정

로그인하기



1. [시작] > [모든 프로그램] > [Wisenet] > [SSM] > [SSM Transportation Console]을 실행하세요.

■ 바탕화면에 생성된 바로가기 아이콘을 더블 클릭해도 됩니다.

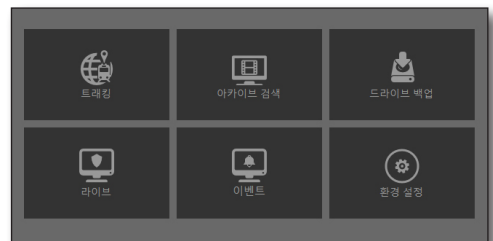
2. 우측 하단의 서버 주소 추가 기능을 이용하여 접속할 SM 서버의 주소를 추가하세요.
서버 주소 목록에서 [+]를 선택하면 새로운 서버 주소를 입력할 수 있습니다.
만약, 동일한 PC에 SM 서버가 설치되어 있다면 localhost를 선택하면 됩니다.

3. Console에서 사용하는 언어를 설정할 수 있습니다.

- 지원하는 언어 : 영어, 한국어, 프랑스어, 이탈리아어

4. 사용자ID, 비밀번호를 입력하고 [로그인]을 클릭하여 접속하세요.

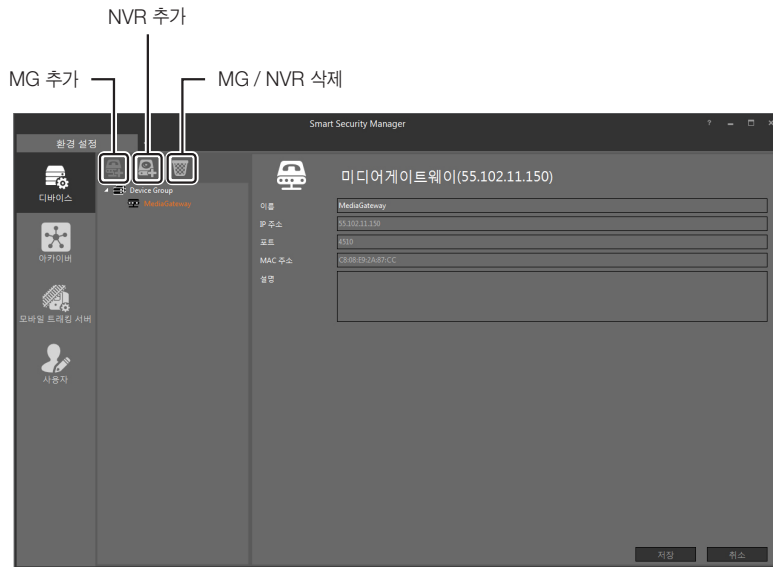
5. 홈 화면에서 [환경 설정] 버튼을 클릭하세요.



디바이스 설정하기

Media gateway 및 NVR을 등록하고 설정합니다.

Media Gateway 등록 및 설정하기



MG 등록하기

자동 검색된 MG 항목들 중에 하나를 선택하고 [] 버튼을 누르면 등록이 됩니다.
등록할 항목이 보이지 않을 경우에는, 수동 추가 버튼을 클릭한 후, 주소와 포트 값을 입력한 후 [등록] 버튼을 클릭하세요.

- 포트 기본 값은 4510 입니다.

새로 고침	수동 추가
주소(ex. 127.0.0.1)	장비(기본 값 : 4510)

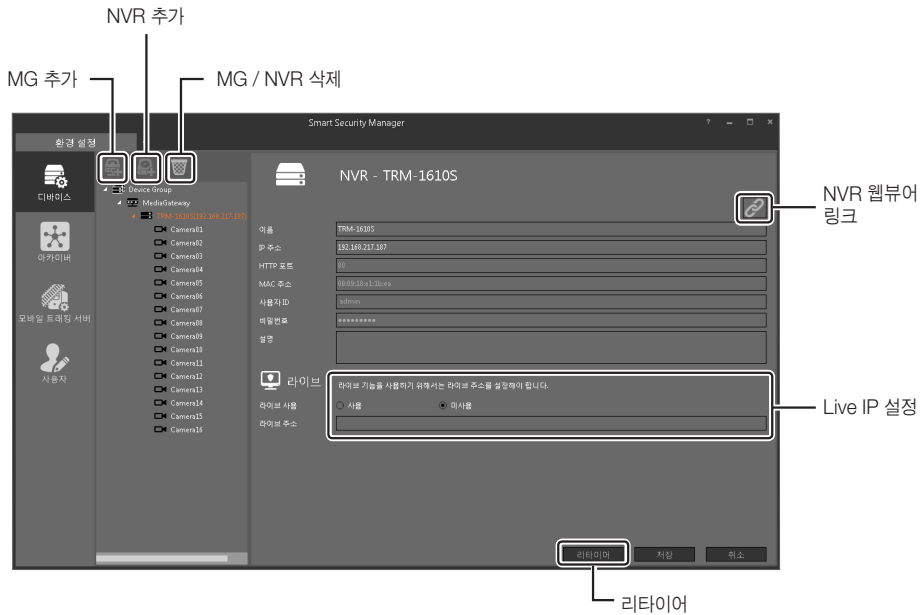
MG 설정하기

등록된 MG의 이름 및 설명을 설정할 수 있습니다.

MG 삭제하기

삭제할 MG를 선택한 후 [] 버튼을 클릭하여 MG를 삭제하세요.

NVR 등록 및 설정하기



NVR 등록하기

트리에서 MG를 선택하고, [] 버튼을 클릭하세요. 자동 검색된 NVR 항목들 중에 하나를 선택하고 사용자 ID와 비밀번호를 입력한 후 등록 버튼을 누르면 NVR이 등록됩니다.

등록할 항목이 보이지 않을 경우에는, 수동 추가 버튼을 클릭한 후, 주소와 포트, 사용자 ID와 비밀번호를 입력한 후 등록 버튼을 클릭하세요.

- 포트 기본 값은 80 입니다.

새로 고침	수동 추가
주소 종류	주소(ex. 127.0.0.1)
SUNAPI	장비(기본 값 : 80)

NVR 설정하기

등록된 NVR의 이름 및 설명, 접속 정보를 설정할 수 있습니다.

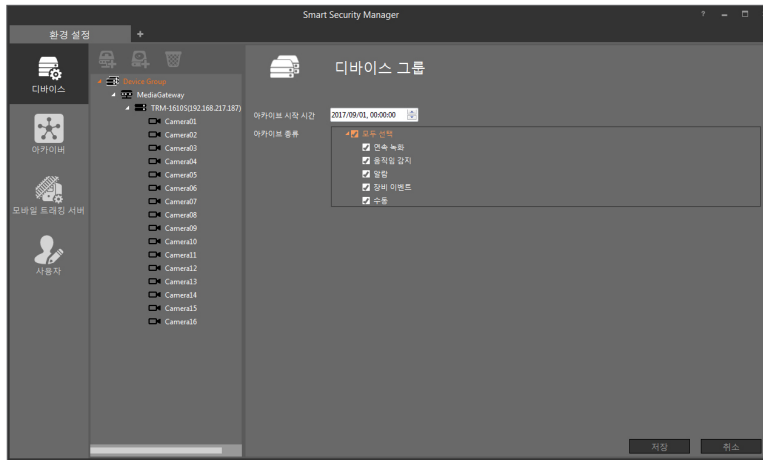
[] 버튼을 누르면 NVR의 웹 뷰어가 실행됩니다.

- "리타이어 기능"은 NVR 삭제와 유사하지만, 해당 NVR로부터 이미 백업한 영상을 재생할 수는 있습니다.
- 차량 운행 중 라이브 모니터링 기능을 사용하려면 해당 장비의 Live IP 정보를 설정해야 합니다. Live IP를 설정하기 위해서는 NVR의 Live IP를 입력한 후, Live IP 사용 체크 박스를 체크합니다.

NVR 삭제하기

삭제할 NVR을 선택한 후 [] 버튼을 클릭하여 NVR을 삭제하세요.

Drive Group 설정하기



아카이브 옵션 설정하기

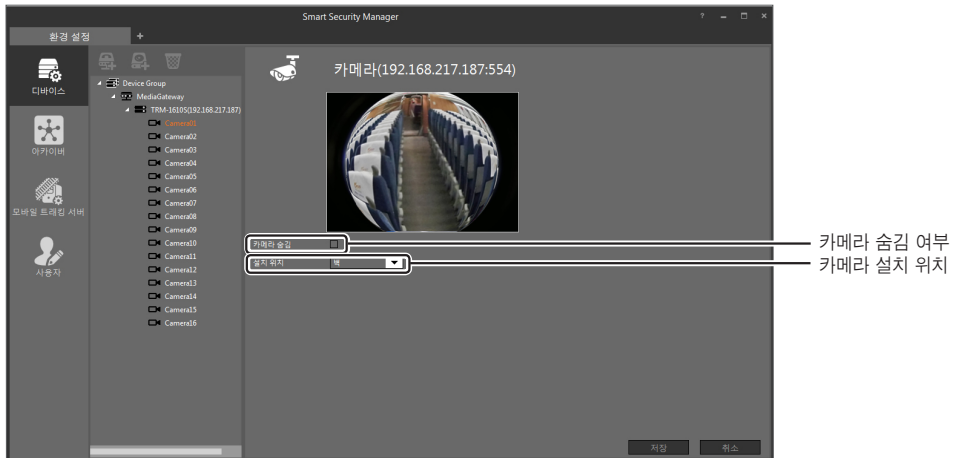
리모트 백업 관련 옵션을 설정할 수 있습니다. 해당 조건에 해당하는 NVR의 녹화데이터만 리모트 백업을 수행합니다.

해당 설정은 하위 NVR 모두에게 적용됩니다.

- 아카이브 시작 시간은 Archiver가 백업할 NVR에 저장된 영상의 시작 시간입니다.
Archiver는 NVR 전체 녹화데이터 중에서 설정된 시간 이후 녹화데이터를 리모트 백업 수행합니다.
- 아카이브 종류는 백업할 영상의 종류입니다.
Archiver는 NVR 전체 녹화데이터 중에서 해당 타입에 해당하는 녹화데이터만 리모트 백업 수행합니다.

SSM Transportation 설정하기

카메라 설정하기



카메라의 미리보기 이미지를 확인하고 카메라 숨김, 설치 위치 등을 설정할 수 있습니다.

- 카메라 숨김 : 카메라 사용 여부를 설정할 수 있습니다. 숨겨진 카메라의 경우, 라이브/검색 기능 트리에서 표시되지 않습니다.
 - 라이브/검색 기능을 이미 사용 중인 경우, 해당 기능을 종료한 뒤 다시 실행하면 카메라 숨김이 적용됩니다.
- 설치 위치 : 카메라의 설치 위치를 설정할 수 있습니다.
 - 벽
 - 천장
 - 바닥

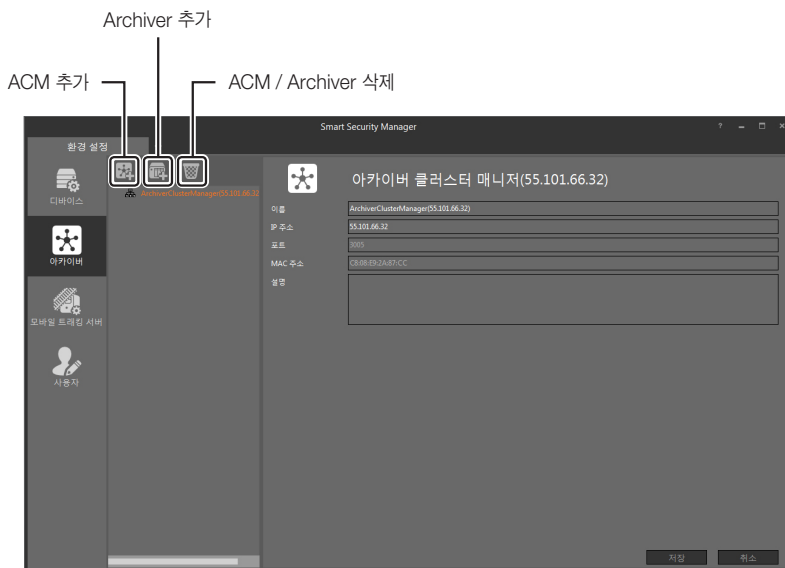
Archiver 설정하기

Archiver Cluster Manager 및 Archiver를 등록하고 설정합니다.

Archiver Cluster Manager 등록 및 설정하기

ACM 등록하기

자동 검색된 ACM 항목들 중에 하나를 선택하고 [] 버튼을 누르면 ACM이 등록됩니다.
등록할 항목이 보이지 않을 경우에는, 수동 추가 버튼을 클릭하고 주소와 포트 값을 입력한 후 등록 버튼을 클릭하세요.



ACM 설정하기

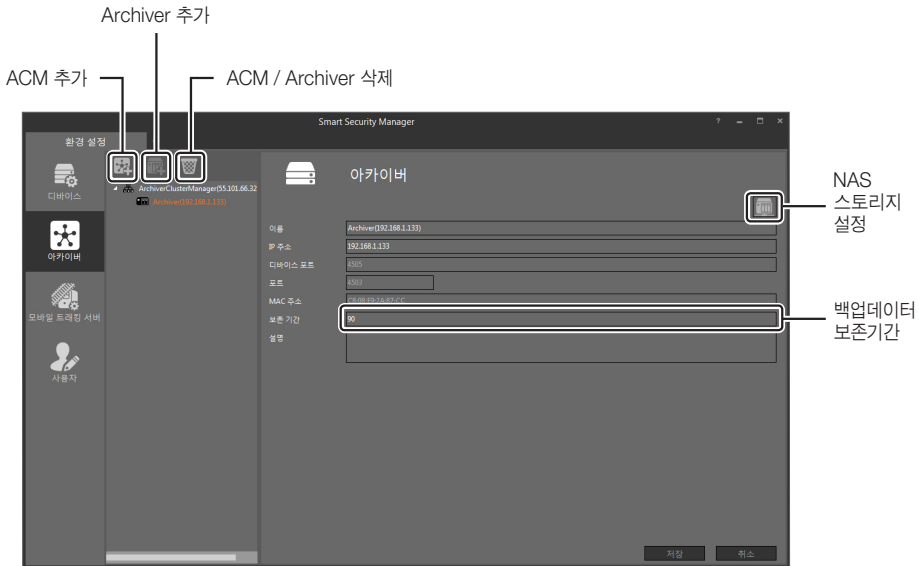
등록된 ACM의 이름 및 설명, 네트워크 정보를 설정할 수 있습니다.

ACM 삭제하기

삭제할 ACM을 선택한 후 [] 버튼을 클릭하여 ACM을 삭제하세요.

SSM Transportation 설정하기

Archiver 등록 및 설정하기



Archiver 등록하기

트리에서 ACM을 선택하고, [] 버튼을 클릭하세요.
자동 검색된 Archiver 항목들 중에 하나를 선택하고 등록 버튼을 누르면 Archiver 이 등록됩니다.
등록할 항목이 보이지 않을 경우에는, 수동 추가 버튼을 클릭하고 주소와 포트 값을 입력한 후 등록 버튼을 클릭하세요.

- 포트 기본 값은 4503 입니다.

새로 고침	수동 추가
주소(ex, 127.0.0.1)	장치(기본 값 : 4503)

Archiver 설정하기

등록된 Archiver의 이름 및 설명, 접속 정보를 설정할 수 있습니다.

• NAS 스토리지 설정

- 1) NAS 접속 정보 (경로, 아이디, 비밀번호)를 설정하세요.
- 2) [테스트] 버튼을 클릭하여 NAS와 정상적으로 연결할 수 있는지 확인할 수 있습니다.

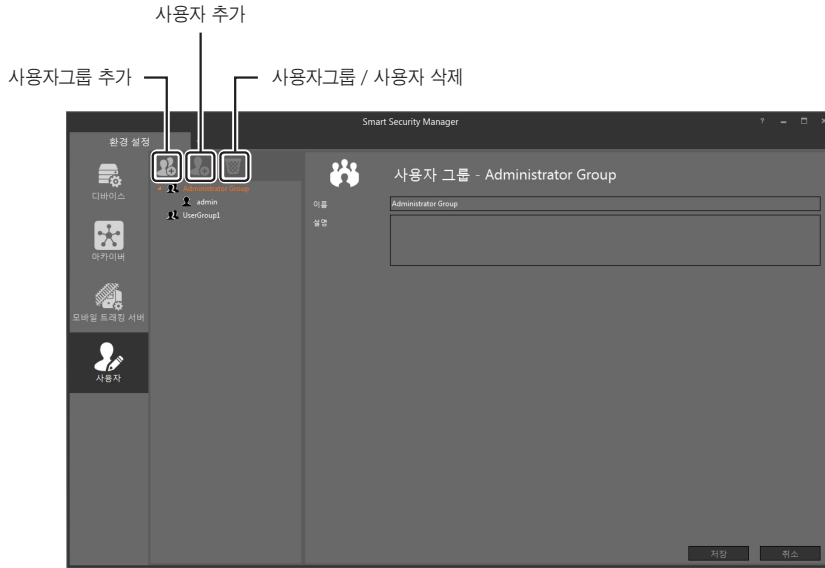
NAS - 상태	
NAS 주소	
NAS ID	
NAS 비밀번호	
테스트 저장 삭제 취소	

Archiver 삭제하기

삭제할 Archiver 를 선택한 후 [] 버튼을 클릭하여 Archiver를 삭제하세요.

사용자 설정하기

사용자 그룹 및 사용자를 등록하고 설정합니다.



사용자 그룹 등록 및 설정하기

사용자 그룹 등록하기

등록 버튼을 클릭하면 사용자 그룹이 생성되어 트리에 표시됩니다.

사용자 그룹 설정하기

등록된 사용자 그룹의 이름 및 설명을 설정할 수 있습니다.

사용자 그룹 삭제하기

삭제할 사용자 그룹을 선택한 후 [🗑️] 버튼을 클릭하여 사용자 그룹을 삭제하세요.

SSM Transportation 설정하기

사용자 등록 및 설정하기

사용자 등록하기

트리에서 사용자 그룹을 선택하고, 등록 버튼을 클릭하세요.
사용자 ID와 비밀번호, 기타 정보를 입력한 후 등록 버튼을 클릭하세요.

사용자 설정하기

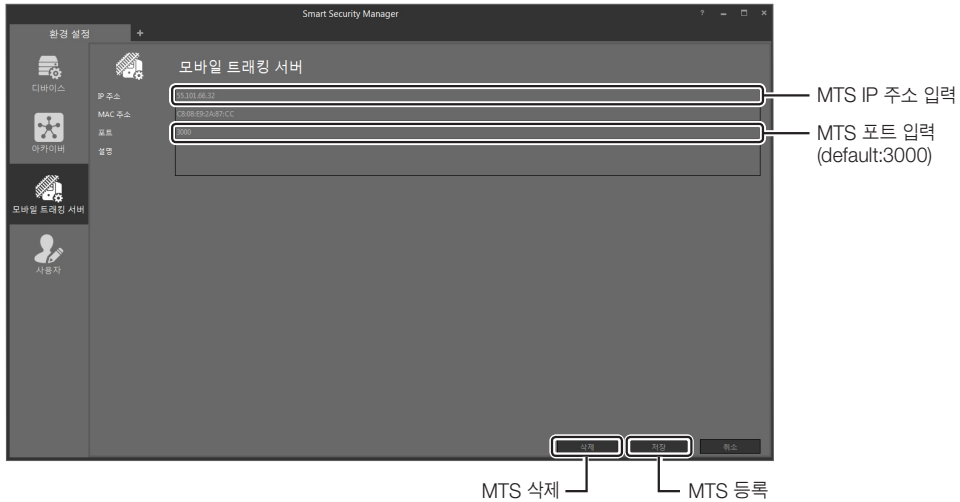
등록된 사용자의 비밀번호 및 기타 정보를 설정할 수 있습니다.

사용자 삭제하기

삭제할 사용자를 선택한 후 [] 버튼을 클릭하여 사용자를 삭제하세요.

MTS 설정하기

MTS를 등록하고 설정합니다.



MTS 등록 및 설정

MTS 등록하기

이름, IP 주소, 포트를 입력한 후 저장 버튼을 클릭하세요.

MTS 설정하기

등록된 MTS의 이름을 설정할 수 있습니다.

MTS 삭제하기

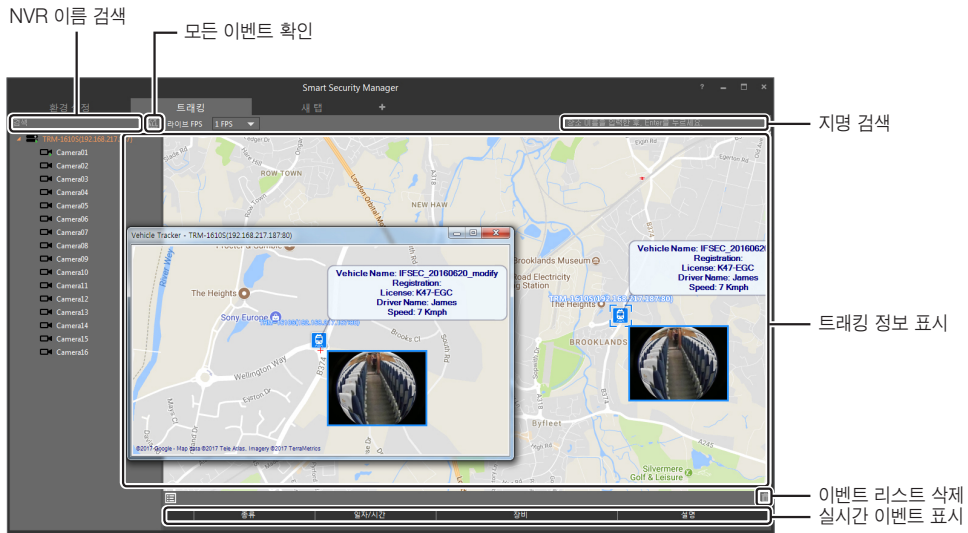
[] 버튼을 클릭하여 등록된 MTS를 삭제하세요.

-  차량 동선 감시 등의 기능을 사용하려면, 모바일 NVR에 MTS의 접속 정보를 설정해야 합니다. 설정 방법은 모바일 NVR의 사용 설명서를 참고하세요.

SSM Transportation 설정하기

트래킹

트래킹 페이지에서 등록된 NVR들이 맵 상에서 이동하는 경로를 모니터링할 수 있습니다.



NVR 목록

1. 왼쪽 트리에서 등록되어 있는 NVR 및 하위 카메라 목록을 확인할 수 있습니다.
2. NVR 이름으로 검색을 할 수 있습니다.
3. NVR을 더블 클릭하면 맵 팝업 창을 띄웁니다.
4. 카메라 아이콘을 더블 클릭하면 맵 상의 NVR 아이콘 위치에 해당 카메라의 라이브 이미지를 표시합니다.

맵

맵 상에 NVR의 현재 위치가 표시됩니다.

1. NVR의 현재 상태를 맵 상의 NVR 아이콘의 색상으로 구분할 수 있습니다.
 -  : 온라인 상태는 파란색으로 표시됩니다.
 -  : 오프라인 상태는 회색으로 표시됩니다.
 -  : 이벤트 수신 상태는 빨간색으로 표시됩니다.
2. NVR 아이콘을 클릭하면 풍선 도움말로 상세 정보가 표시됩니다.

3. NVR 아이콘에서 마우스 오른쪽 버튼을 클릭하면 실행 가능한 컨텍스트 메뉴들이 나타납니다.
 - 녹화 시작 : 현재 모니터링 중인 라이브 이미지를 로컬 디스크에 저장합니다.
저장 경로는 설치 위치 아래의 카메라 폴더입니다.
 - x1, x2, x4 : 현재 모니터링 중인 라이브 이미지 창의 크기를 변경합니다.
 - 닫기 : 현재 모니터링 중인 라이브 이미지 창을 닫습니다.
 - 이벤트 확인 : NVR 아이콘에 표시된 이벤트 발생 표시를 제거합니다.
4. 라이브 FPS 변경
맵 상에 표시되는 라이브 이미지의 갱신 주기를 변경합니다.
5. 장소 검색
맵 상의 특정 장소를 이름으로 검색하여 이동합니다.

이벤트

NVR 및 시스템으로부터 수신한 이벤트를 표시합니다.
이벤트 종류는 아래와 같습니다.

- 사용자
 - 로그인, 로그아웃
- NVR
 - 연결 됨, 연결 끊김
 - 디스크 꽂참, 디스크 실패
 - 긴급 이벤트
 - 충격 센서 이벤트
 - 디스크 예러(SMART) 이벤트
- 카메라
 - 모션, 비디오로스, 알람
- 아카이빙
 - 리모트 백업 시작, 완료, 실패
- 드라이브 백업
 - 수동 백업 시작, 완료, 실패
- 시스템
 - SM 시작, SM 중지



카메라의 알람 이벤트가 발생하면, 트리의 아이콘에는 표시되지 않으며 이벤트 리스트 및 맵 위에 표시됩니다.

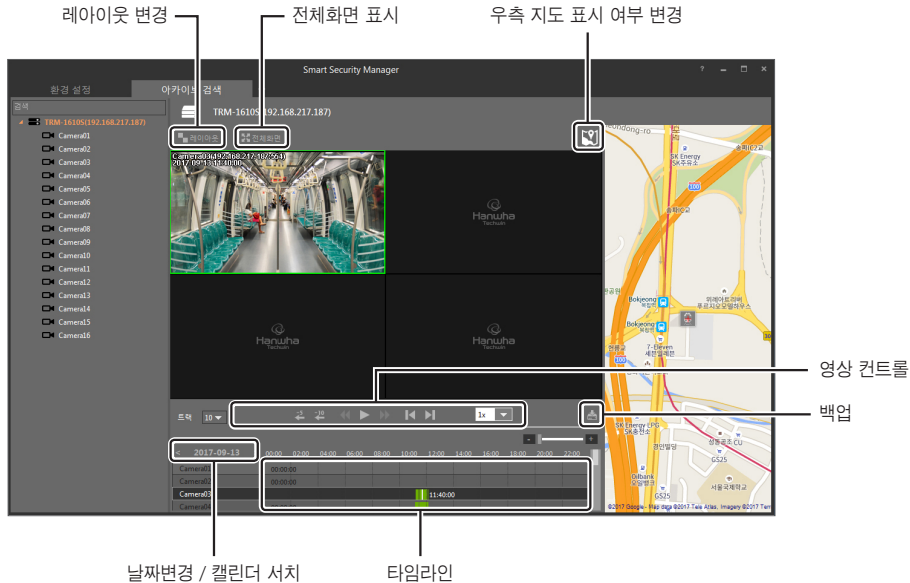
이벤트 확인하기

NVR 아이콘의 팝업 메뉴에서 이벤트 확인을 클릭하면 이벤트 표시가 해제됩니다.

SSM Transportation 설정하기

아카이브 검색하기

NVR로부터 리모트 백업한 영상을 검색 및 재생할 수 있습니다.



NVR 목록 및 캘린더

1. 왼쪽 트리에서 등록되어 있는 NVR 및 하위 카메라 목록을 확인할 수 있습니다.
2. NVR 이름으로 검색을 할 수 있습니다.
3. NVR을 선택하고 캘린더 검색을 할 수 있습니다.
캘린더 상에 백업된 영상이 있는 날짜가 강조 표시됩니다.
4. 캘린더 상에서 백업된 영상이 있는 날짜를 선택하면, 타임라인 검색 결과가 표시됩니다. 타임라인의 색상은 아래와 같습니다.
 - 긴급(Emergency) 이벤트 녹화 : 갈색
 - 충격 센서(G-Sensor) 이벤트 녹화 : 검정색
 - 모션 이벤트 녹화 : 파란색
 - 알람 이벤트 녹화 : 주황색
 - 연속 녹화 : 초록색
 - 수동 녹화 : 회색
5. 타임라인을 축소 및 확대하여 볼 수 있습니다.
6. DST (Daylight Saving Time)에 의한 중복 구간은 타임라인 상에 보라색으로 표시되며 중복 구간 중 하나를 선택하여 재생할 수 있습니다.

영상 재생하기

1. 특정 타임라인을 더블 클릭하면 해당 영상이 재생됩니다.
2. 현 재생 시점보다 -10초 전, -5초 전 영상을 재생하는 기능을 제공합니다.
3. 역방향 재생 및 배속 재생 기능을 제공합니다.
4. 프레임 단위 이동 기능을 제공합니다.

영상 메뉴

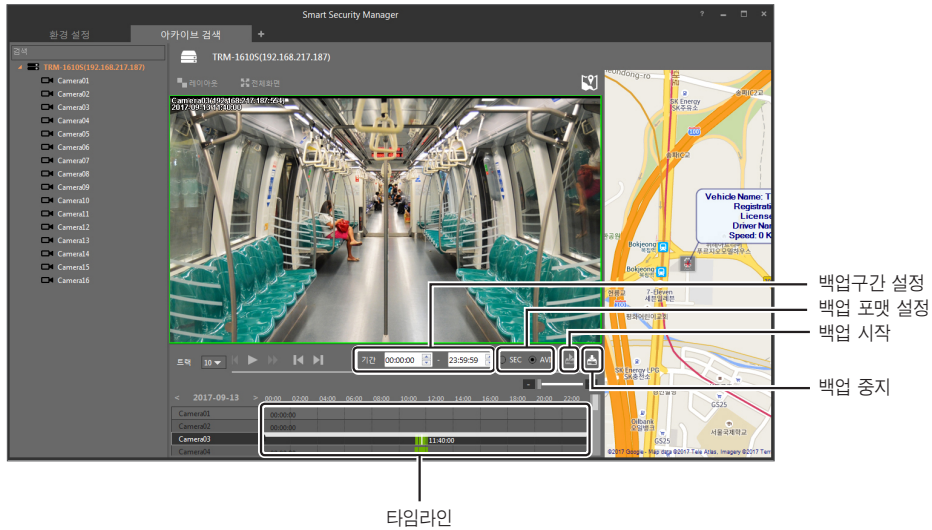
1. 영상을 실제 크기로 보여주는 옵션을 선택할 수 있습니다.
2. Fisheye 카메라의 경우에는 view mode를 선택할 수 있습니다.
 - 환경 설정에서 지정한 카메라 설치 위치에 따라 지원하는 view mode가 달라질 수 있습니다.
3. 영상 위의 텍스트 표시 여부를 선택할 수 있습니다.
4. 녹화 및 오디오 상태를 아이콘으로 표시합니다.
5. 카메라 정보(이름, PTZ)를 표시합니다.
6. 영상 위에서 마우스로 PTZ를 제어할 수 있습니다.
 - 줌 인/아웃은 마우스 휠로 제어합니다.

맵

맵 상에 NVR의 영상 재생 시의 위치가 표시됩니다.

SSM Transportation 설정하기

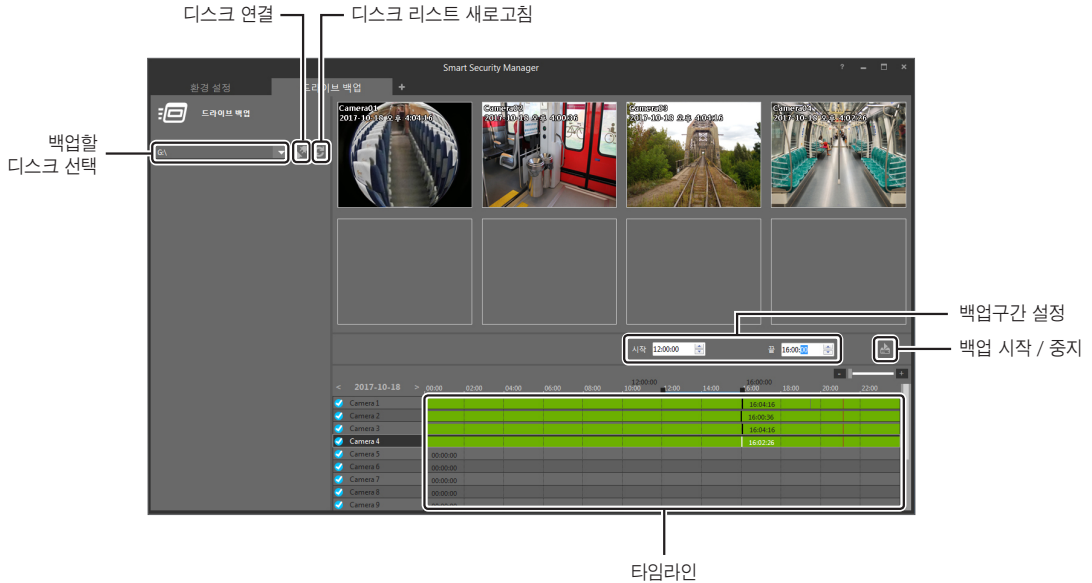
백업



1. 재생 영상을 SEC 또는 AVI 포맷으로 백업할 수 있습니다.
2. 백업할 구간을 설정하고 원하는 백업 포맷을 선택한 후 백업 버튼을 클릭합니다.
 - 백업 구간 (시작 시간, 끝 시간)은 직접 입력하거나, 타임라인 상에서 드래그 앤 드롭을 이용하여 설정할 수 있습니다.
3. 백업 진행율이 타임라인 상에 표시되며 도중에 취소할 수 있습니다.
4. 백업이 완료되면 백업 파일이 생성된 폴더가 자동으로 팝업됩니다.

드라이브 백업하기

NVR의 디스크로부터 녹화된 영상을 백업합니다.



백업 준비하기

1. NVR로부터 가져온 디스크를 PC에 연결하세요.
2. 드라이브 목록에서 해당 디스크를 선택하세요.

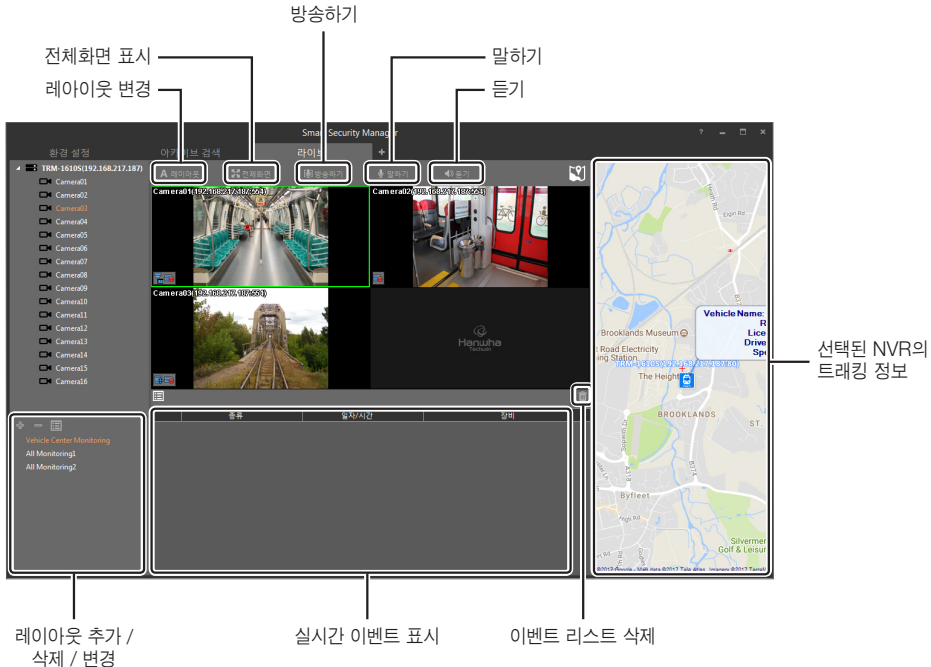
백업 수행하기

1. 백업 파일이 생성되는 경로 및 파일 이름을 지정하세요.
2. 백업 대상 카메라를 선택하세요.
3. 캘린더 상에 녹화된 영상이 있는 날짜가 강조 표시됩니다.
4. 캘린더 상에서 백업할 영상이 있는 날짜를 선택하면 타임라인 검색 결과가 표시됩니다.
타임라인의 색상은 아래와 같습니다.
 - 긴급(Emergency) 이벤트 녹화 : 갈색
 - 중력 센서(G-Sensor) 이벤트 녹화 : 검정색
 - 모션 이벤트 녹화 : 파란색
 - 알람 이벤트 녹화 : 주황색
 - 오디오 감지 이벤트 녹화 : 하늘색
 - 연속 녹화 : 초록색
5. 타임라인에서 보고싶은 시점을 클릭하면 해당 시점의 스냅샷이 표시됩니다.
6. 타임라인 상에서 백업 구간(시작 시간, 끝 시간)을 지정하세요.
7. 백업 시작 버튼을 클릭하세요.
백업 도중에 백업을 취소할 수 있습니다.

SSM Transportation 설정하기

라이브 페이지

NVR의 실시간 영상을 모니터링할 수 있습니다.



카메라 목록

1. Live IP address가 설정된 NVR의 카메라 목록이 표시됩니다.
2. 모니터링 하기를 원하는 카메라를 더블 클릭하세요.

영상 메뉴

1. 영상을 실제 크기로 보여주는 옵션을 선택할 수 있습니다.
2. Fisheye 카메라의 경우에는 view mode를 선택할 수 있습니다.
환경 설정에서 지정한 카메라 설치 위치에 따라 지원하는 view mode가 달라질 수 있습니다.
3. 영상 위의 텍스트 표시 여부를 선택할 수 있습니다.
4. 녹화 및 오디오 상태를 아이콘으로 표시합니다.
5. 카메라 정보 (이름, PTZ)를 표시합니다.
6. 영상 위에서 마우스로 PTZ를 제어할 수 있습니다.
줌 인/아웃은 마우스 휠로 제어합니다.

오디오

1. [] 버튼을 통해 선택된 카메라의 음향을 출력/정지합니다.
2. [] 버튼을 통해 PC 마이크로폰으로 입력한 음향을 선택된 카메라로 전달할 수 있습니다.
3. [] 버튼을 통해 다수의 카메라에 음향을 전달할 수 있습니다.
단, 하나의 NVR에서는 하나의 카메라에 대해서만 말하기를 할 수 있습니다.

이벤트

아래의 실시간 이벤트를 표시합니다.

- 사용자
 - 로그인, 로그아웃
- NVR
 - 연결 됨, 연결 끊김
 - 디스크 꽂참, 디스크 실패
 - 긴급 이벤트
 - 충격 센서 이벤트
 - 디스크 에러(SMART) 이벤트
- 카메라
 - 모션, 비디오로스, 알람
- 아카이빙
 - 리모트 백업 시작, 완료, 실패
- 드라이브 백업
 - 수동 백업 시작, 완료, 실패
- 시스템
 - SM 시작, SM 중지



■ 표시된 모든 이벤트를 목록에서 지울 수 있습니다.

레이아웃

1. 다음의 분할 모드를 지원합니다.
 - Auto, 2x2, 3x3, 8, 4x4
2. 화면 최대화 기능을 지원합니다. ESC 키를 누르면 복원됩니다.
3. 사용자 레이아웃
 - 현재 구성한 레이아웃을 저장할 수 있습니다.
 - admin 아이디로 로그인한 경우에만 레이아웃 저장, 이름 변경, 삭제가 가능합니다.

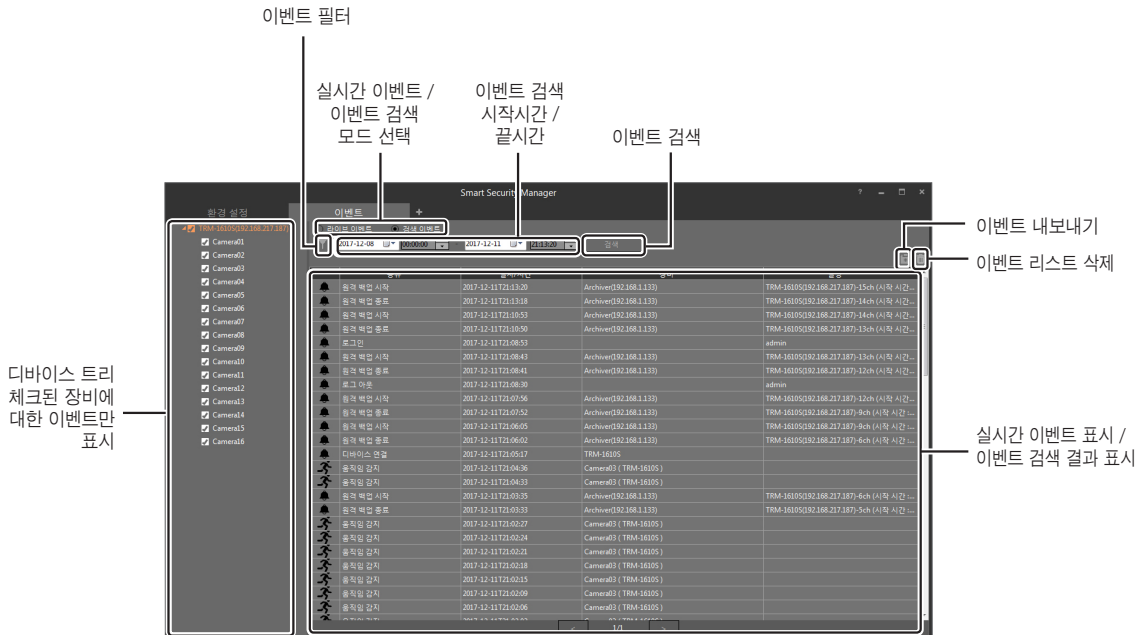
맵

모니터링하고 있는 라이브 영상을 선택하면 해당 NVR의 위치가 맵 상에 표시됩니다.

SSM Transportation 설정하기

이벤트 페이지

NVR 및 MTS로부터 수신하는 실시간 이벤트를 모니터링 하거나 이미 저장된 이벤트를 검색할 수 있습니다.



실시간 이벤트

라이브 이벤트 모드를 선택하면 NVR이나 시스템으로부터 수신하는 이벤트를 실시간으로 리스트에 표시합니다.

1. 모니터링하기를 원하는 디바이스 및 이벤트 타입을 선택하여 필터링할 수 있습니다. 이벤트 타입은 [] 버튼을 눌러 선택 가능합니다.
2. 표시된 모든 이벤트를 목록에서 삭제할 수 있습니다.
3. 이벤트 목록의 스크롤을 고정하거나 풀 수 있습니다.
4. 이벤트 목록의 각 헤더 별로 정렬 기능을 제공합니다.

이벤트 검색

NVR이나 시스템으로부터 실시간으로 수신한 이벤트는 별도로 저장되며, 검색 이벤트 모드를 선택하고 아래의 조건을 입력하여 저장된 이벤트를 검색할 수 있습니다.

- 디바이스
- 시작/끝 시간
- 이벤트 타입

파일로 내보내기

이벤트 목록에 표시된 내용을 CSV 형식의 파일로 내보내기할 수 있습니다.

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한화테크윈(주)

경기도 성남시 분당구 판교로 319번길 6 (삼평동 701)

영 업 TEL 070-7147-8771~9 A/S 및 기술 문의 1588-5772

부산영업소 TEL 051-320-9951

대구영업소 TEL 053-742-3098

광주영업소 TEL 062-941-9559

대전영업소 TEL 042-489-9840

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