

## Hardware Installation

### Accessories

- Quick Installation Guide x1
- Product DVD x1 (including manuals)
- Power Cord x2
- Slide Rail Kits x1
- (Optional) Enstor DS RAID Subsystem(s)

### User-provided Tools

- Phillips Screwdriver (mid-size)
- Flat blade Screwdriver (small-size)
- LAN Cable
- GbE Switch and iSCSI Cable
- USB Compatible Mouse and Keyboard
- DVI/HDMI Compatible Monitor
- (Optional) PC(s) with Windows XP (or above) Used for Milestone XProtect Remote Client/SANWatch Management
- (Optional) USB Drive Used for Milestone XProtect Remote Client/SANWatch Installation and XProtect License Activation

### Further Readings

#### EMR9000 Series

For more details, please refer to the EMR Series User manual.

#### (Optional)Eonstor DS RAID Subsystem(s)

For more details, please refer to the hardware manuals or quick installation guides that came with the RAID subsystem(s).

#### Milestone XProtect

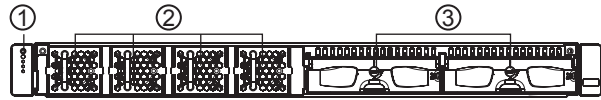
For more details, please refer to Milestone XProtect Enterprise/Professional/Corporate Administrator's Manual/Getting Started Guide.

#### (Optional)SANWatch

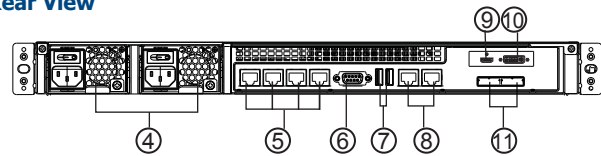
For more details, please refer to SANWatch User Manual that came with the RAID subsystem(s).

## 1 Hardware Overview

### Front View



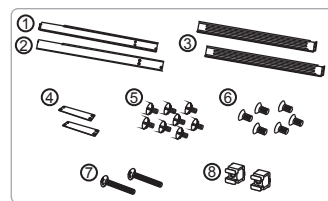
### Rear View



- ① Status LED
- ② Hot Swappable Fanx4
- ③ System Drivex2
- ④ Redundant Power
- ⑤ iSCSI Host Port
- ⑥ Serial Port
- ⑦ USB Portx2
- ⑧ Ethernet Portx2
- ⑨ HDMI Port
- ⑩ DVI Port
- ⑪ SAS Expansion Portx2

## 2 Rack-Mounting

### 2-1. Slide Rail Contents

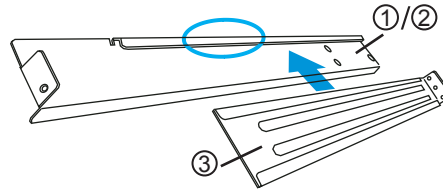


Item	Description	Quantity
01	Front Bracket Left	1
02	Front Bracket Right	1
03	Rear Bracket	2
04	Bracket Support	2
05	M5 x 5mm Position Screw	8
06	M5 x L10 Crosshead Screw	6
07	M5 x 35mm Cross Recess Round Head Screw	2
08	M5 Cage Nut	2

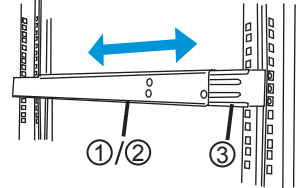
2-2. Remove the front panel to gain access to the side chassis screw holes.



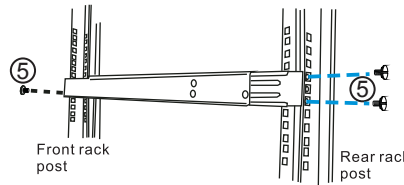
2-3. Install the rackmount slide rail by assembling the slide rail (03) by inserting the rear bracket into the ditch (indicated by the blue circle) of the front brackets (01 & 02).



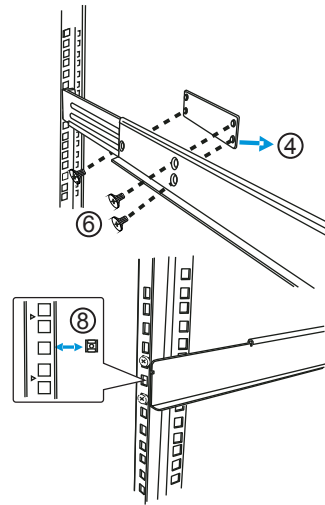
2-4. Determine where the slide rail (03) is going to be installed and adjust the length of the sliding front bracket (01 or 02) till it meets the front / rear rack post.



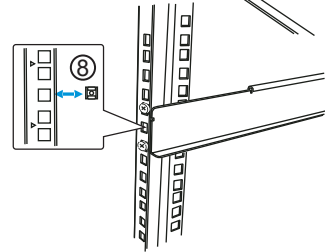
2-5. Screw one M5 x 5mm position screw (05) to the front rack post and two M5 x 5mm position screws (05) to the rear rack post (top and bottom positions) to secure the slide rail to the rack.



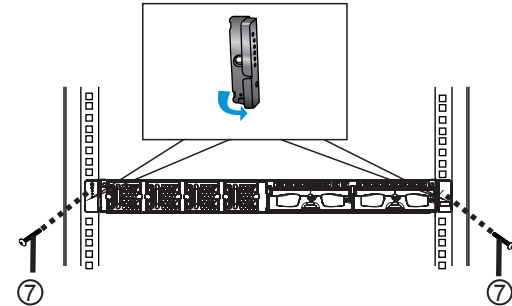
2-6. To fix the slide rails' length, attach a bracket support (04) to slide rail using three M5 x L10 crosshead screws (06).



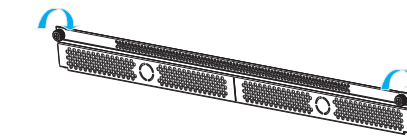
2-7. Attach one cage nut (08) to the front of the rack post. The cage nut will be used to secure the enclosure in place.



2-8. Lift the enclosure and align it with the slide rails on the rack, keeping pressure even on both sides, slowly push the enclosure into the rack. Fasten one M5 x 35mm crosshead screw (07) on each side of the enclosure chassis ears to secure the enclosure onto the rack.



2-9. Secure the panel back onto the enclosure to complete the rack mount procedure.

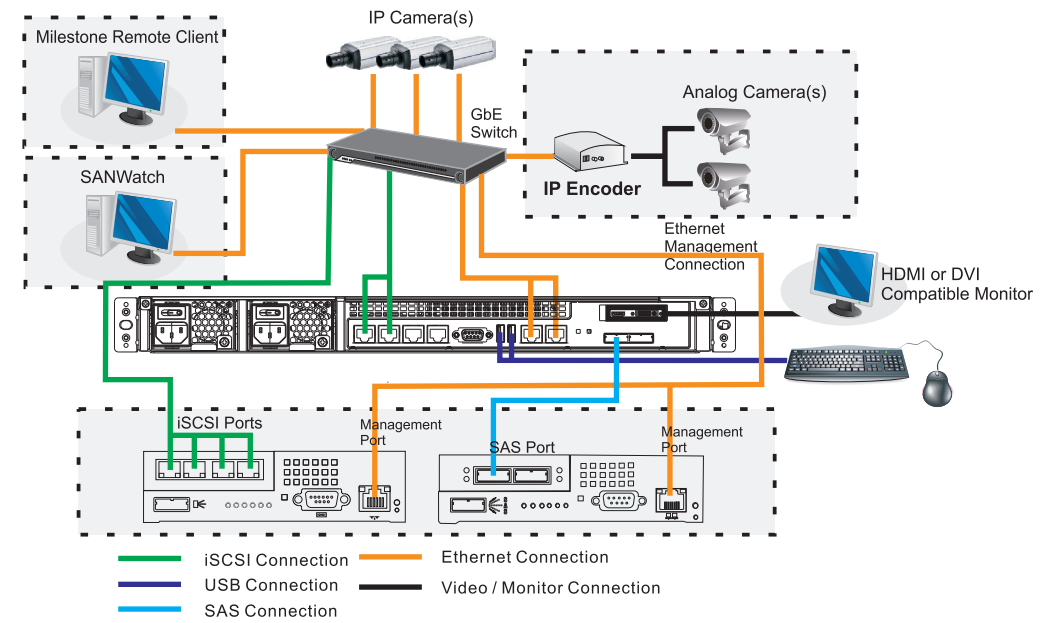


## 3 Rack-Mounting Eonstor DS RAID Subsystem(s) (Optional)

Mount the RAID underneath the EMR9000 system.

**Note:** For more details, please refer to the hardware manuals or quick installation guides that came with the RAID subsystem(s).

## 4 System Connections



**Note:** Shaded areas are optional devices.

The system connection concept of EMR9000 Series is shown above.

You can choose to use remote PC(s) for Milestone XProtect Smart Client/SANWatch (if RAID subsystem(s) is installed) management.

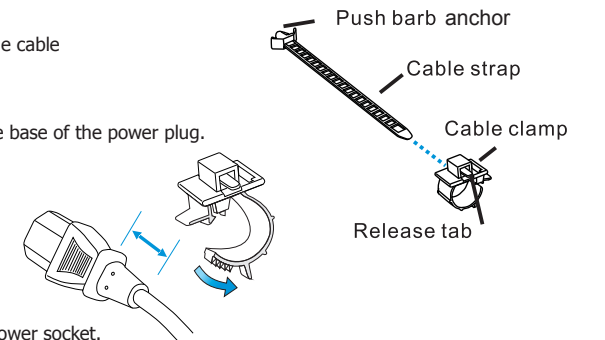
Optional RAID subsystem(s) is connected via iSCSI/SAS host connections. When connecting RAID host ports, connect all iSCSI ports to the GbE switch and connect one of the SAS ports on both EMR9000 series and RAID subsystems.

**Note:** For detailed RAID operations, please refer to the hardware/software manuals that came with your RAID subsystem(s).

## 5 Power Cable Connections and Powering-on

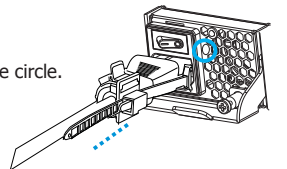
5-1. Assemble the cable clamp and the cable strap in the accessory box.

5-2. Wrap the cable clamp around the base of the power plug.



5-3. Connect the power cord to the power socket.

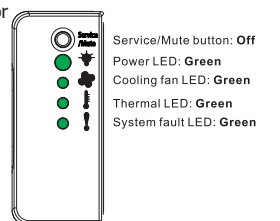
5-4. Insert the push barb anchor to the anchor hole indicated by the blue circle. Adjust the release to suit the position of the power cable.



5-5. Flip power buttons to the ON position on BOTH PSUs.



5-6. Make sure the status LEDs (front of enclosure) are lit properly (For details, please refer to the related hardware manual).



## Software Installation

### 1 Milestone XProtect Installation

#### Choosing Milestone XProtect Level

The Comparisons between XProtect Enterprise/Professional/Corporate are listed in the following chart. Please select the appropriate level according to your needs.

Key Features	XProtect Professional	XProtect Enterprise	XProtect Corporate
Number of Connected Cameras	64	64	64
Maximum Number of Users	Unlimited	Unlimited	Unlimited
Video Export Format	JPEG, AVI, Native Databaset	JPEG, AVI, Native Database	JPEG, AVI, Native Database
Web Client	Yes	Yes	Yes
Archiving to Network Storage	Yes	Yes	Yes
3rd Party Application Integration	Yes	Yes	Yes
Support for Video Analytics	Yes	Yes	Yes
Scalable Multi-server Solution	Yes	Yes	Yes
Alarm Manager	Yes	Yes	Yes
Map Function		Yes	Yes
Centralized Management			Yes
Flexible Event Rule Wizard			Yes
Failover Servers			Yes

#### Installing Milestone XProtect

Go to **C:\XProtect Enterprise\** or **C:\XProtect Professional\** or **C:\XProtect Corporate\** and double-click the installation file.

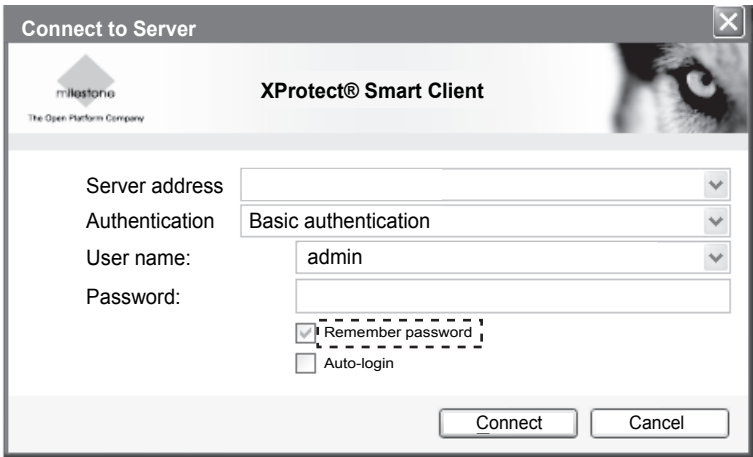
Choose *Install Trial* and follow the instructions to start the installation.

**Note:** (1) The trial version can be used for 30 days. Also, video channels are limited to eight as the maximum. You may purchase licenses for permanent use and channel additions. Please go to p3 *Licenses for Milestone XProtect System* section for more details. (2) Milestone XProtect Smart Client can also be installed on a remote PC.

### 2 Starting Milestone XProtect Smart Client

2-1. After the installation is complete, double-click the Smart Client shortcut on your desktop or select **Start > Programs > Milestone XProtect Smart Client > Smart Client** from Windows Start Menu to start the software.

2-2. The Smart Client login window will prompt.

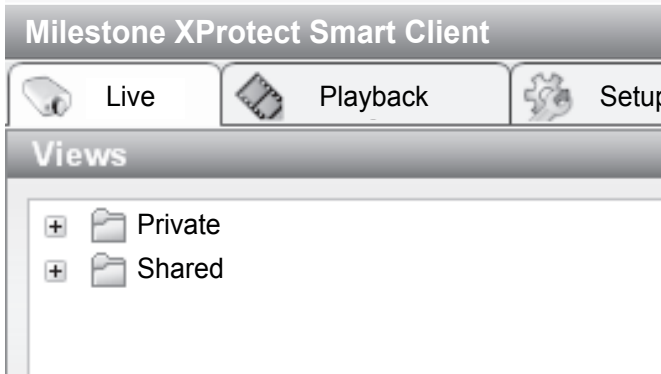


2-3. Specify your login information in the following fields:

- **Server address:** Type the IP address specified by your EMR server.
  - **Authentication:** Choose Basic authentication.
  - **User name:** Enter **admin** in this blank. The user name can be changed later.
  - **Password:** Enter **admin** in this blank. The password can be changed later.
- When ready, click **Connect**.

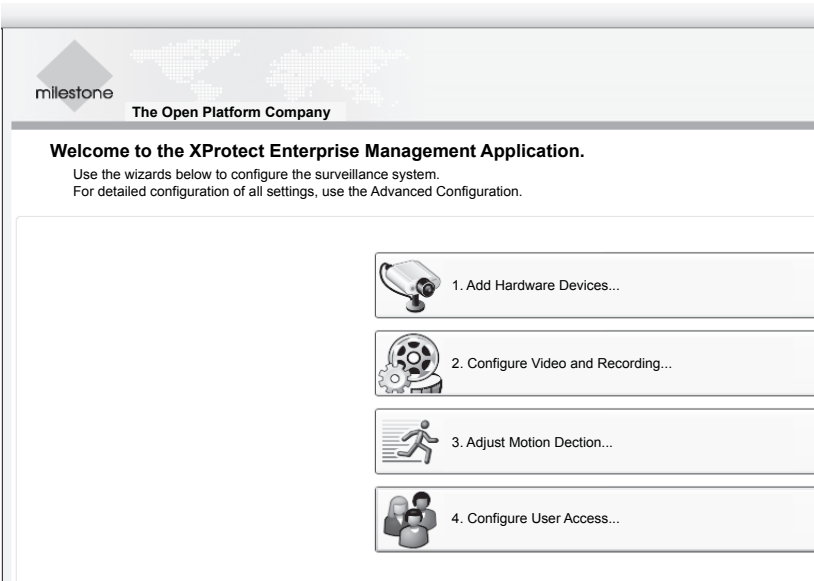
**Note:** If you install the Smart Client on a remote PC, you will be authenticated through your current Windows login by default, and do not have to specify any user name or password. Please refer to Milestone XProtect Enterprise/Professional/Corporate Administrator's Manual for more details.

2-4. The Smart Client window will open.



### 3 Basic System Settings through Wizards

The Milestone XProtect Enterprise/Professional/Corporate Management Application Windows will prompt on the monitor display connected to the EMR9000 Series after powering on.



Use the wizards to configure the surveillance system:

- 3-1. Cameras and other hardware devices, such as Video encoders, NVRs, etc. can be added to your XProtect system through the Add Hardware Devices wizard. If microphones/speakers are attached to a hardware device, they are automatically added as well.
- 3-2. You can quickly configure your cameras' video and recording properties through Configure Video and Recording wizard.
- 3-3. The Adjust Motion Detection wizard helps you quickly configure your cameras' motion detection properties.
- 3-4. The Configure User Access wizard helps you quickly configure clients' access to the XProtect server as well as which users should be able to use clients.

**Note:** For more details about the Wizards and Management Application, please refer to Milestone XProtect Enterprise/Professional/Corporate Administrator's Manual.

### 4 SANWatch Installation (Optional)

#### Installing SANWatch

If you have installed Eonstor DS RAID subsystem(s), please install SANWatch for storage management.

**Note:** (1) SANWatch can also be installed on a remote PC.  
(2) Only **Windows Platform** is introduced in this section. For Linux, Solaris and Mac users, please refer to SANWatch User Manual for more details.

4-1. Double click **Setup.exe** in **C:\SANWatch**. An auto-run screen provides a hot link to the Windows Installer program. Click on **Windows Platform**.

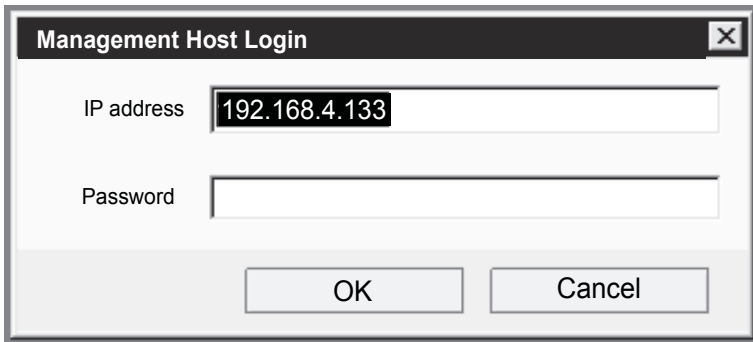
4-2. Install the Java-based GUI SANWatch main program. Choose *Full Setup (single server)* and follow the instructions to start the installation.

4-3. Restart your sytem after the installation is complete.

#### Activating SANWatch Commander

4-4. Double click the desktop shortcut or select **Start > Programs > Infortrend > SANWatch** from Windows Start Menu to start the software.

4-5. **The Management Host Login** window will prompt.



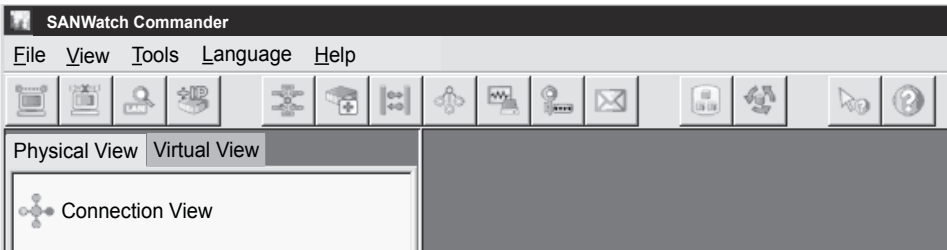
**IP address:** Enter the IP address of the EMR system.

**Password:** Enter the login password. **The default setting is root.**

Click **OK** after the address and password are entered.

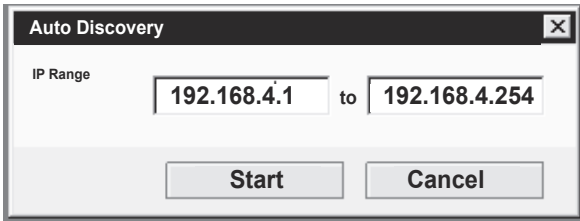
4-6. If you login using the default password, root, a warning message will appear, asking you to change the password.

4-7. SANWatch Commander will appear.



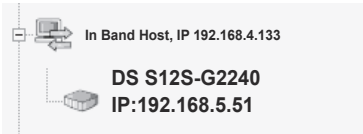
4-8. For the first time login, you will be required to assign a range of IP address for your RAID subsystem(s). The **Auto Discovery** function will scan for every connected RAID arrays.

Specify the **“from”** and **“to”** addresses in the IP range fields. Click **Start** to scan the network. Searching for the subsystems might take a few minutes or more. Once the scan is finished, a message will prompt. Click **OK** to proceed.



**Note:** You can also get the IP address for every RAID subsystem connected by long pressing the ENT key on its LCD panel. Please refer to the software manual that came with your RAID subsystem(s) for more details.

4-9. When completed, all storage subsystems within the IP address range will appear in the sidebar.



RAID Configurations through SANWatch Storage Manager

The SANWatch storage Manager allows you to do subsystem configurations.

4-10. In SANWatch Commander sidebar (Connection View), select the subsystem you want to configure.

4-11. Click the Storage Manager icon.



4-12. Choose **Configuration** for the user name and enter the password (the password is not needed in default).

Click **Connect**. The Storage Manager will appear.

Enable SSL☒

User Name

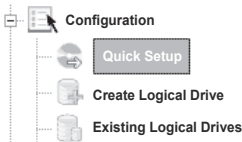
Configuration

Password

Connect

Cancel

4-13. Select **Device > Configuration > Quick Setup** from the sidebar. The Quick Setup window will appear.



Follow the instructions to create logical drives.

**Note:** Please refer to SANWatch User Manual for more details.

System Event Notifications

In SANWatch, the Notification Manager module collects the event status and sends them to the user through various channels.

4-14. Click the Notification Manager icon in SANWatch Commander sidebar.



The Notification Manager will appear in the main window. SNMP, Email, Broadcasting, Fax, MSN and SMS notification receivers can be set by clicking the corresponding icons.



**Note:** Please refer to SANWatch User Manual for more details.

5 Licenses for Milestone XProtect System (Optional)

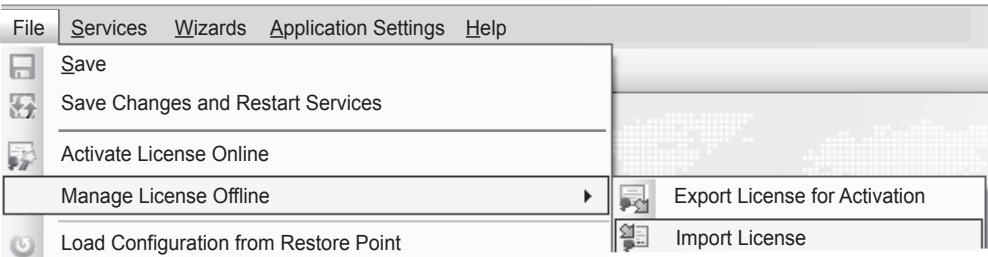
Please contact your dealer for purchasing Milestone XProtect license key. When you purchase the license key, you receive a temporary license file (.lic) including a Software License Code (SLC). Save the .lic file and SLC in a USB drive.

Importing Licenses

**Note:** Offline activation is introduced below. Use online activation for a quick and convenient activation procedure, if your EMR system has Internet access. Please refer to EMR User Manual for more details.

5-1. Insert the USB drive with the .lic file and SLC to your EMR system.

5-2. Start the Milestone XProtect Smart Client. On the Management Application's toolbar, click **File > Manage License Offline > Import License**, and select the temporary license file (.lic) to import it. When the file is successfully imported, click **OK**.



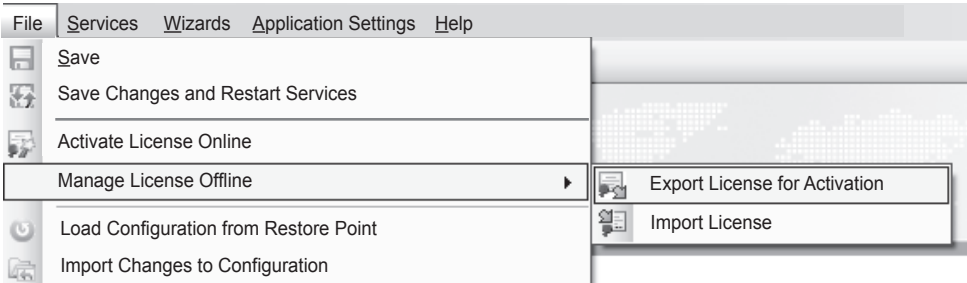
Activating License

**Precondition**  
Add at least one camera to your EMR system.

Step 1: Export License for Activation

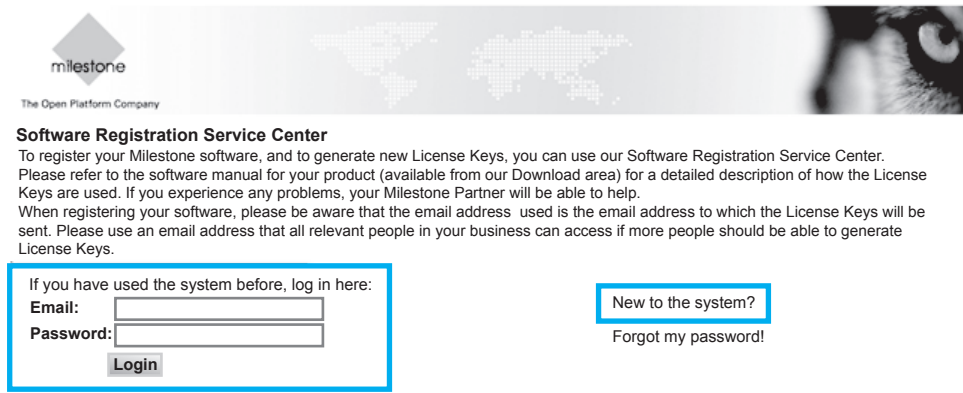
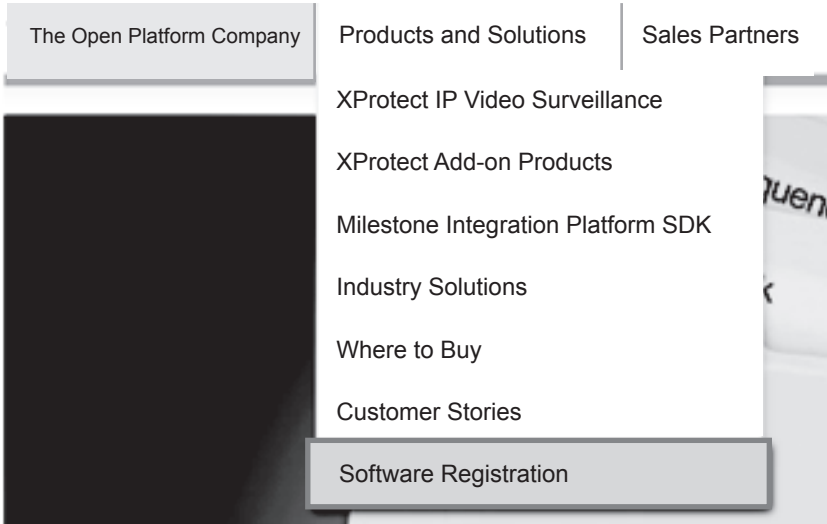
To export a license file with your currently added devices for activation, do the following:

5-3. On the Management Application's toolbar, click **File > Manage License Offline > Export License for Activation**.

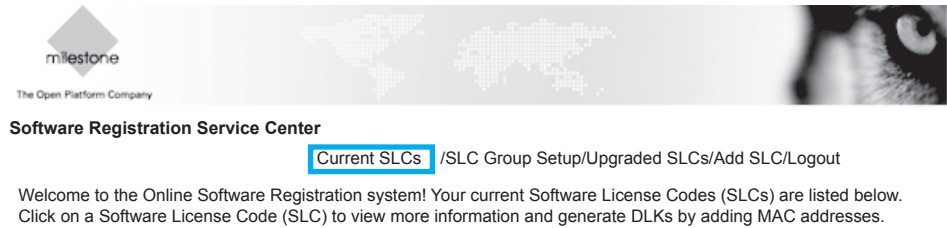


5-4. Specify a file name for the license request (.lrc) file (automatically generated by XProtect), and save it in the USB drive.

5-5. Move the USB drive with the .lrc file to a computer with internet access. Open an internet browser and go to Milestone's website at <http://www.milestonesys.com>. Select Software Registration from the top menu. If you have used the Software Registration Service Center before, log in with your e-mail and password. Otherwise, click **New to the System?** to create a new user account and register your SLC.



5-6. Under **Current SLCs**, select the SLC.



5-7. In the menu for SLC properties, use the Upload LRQ function to upload the generated .lrc file.

5-8. You will receive the updated permanent license file (.lic) from Milestone via e-mail. Save it in the USB drive.

Step 2: Import License

5-9. Move the USB drive back to your EMR system.

5-10. On the Management Application's toolbar, click **File > Manage License Offline > Import License**, and select your saved .lic file to import it.

5-11. When the permanent license file is successfully imported, click **OK**.

6 Installing Milestone XProtect Smart Client/SANWatch on Remote PC(s) (Optional)

You should install Milestone XProtect Server in the EMR9000 system, but you can choose to install the XProtect Smart Client/SANWatch either in the EMR9000 system or on remote PC(s). To install Milestone XProtect Smart Client/SANWatch for remote managements:  
6-1. Copy the Milestone XProtect/SANWatch directory from your EMR9000 and save it in the USB drive.  
6-2. Insert the USB drive to PC(s).  
6-3. Double-click the installation files and follow the instructions to start the installation.

**Note:** You can also download the XProtect installation file from Milestone's website at <http://www.milestonesys.com>.