

Milestone Systems

XProtect® Go 2.1

Getting started guide



The Open Platform Company



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About XProtect Go

This guide is aimed at users of Milestone XProtect Go and explains how to install XProtect Go and how to set up some key features. For more product information and access to the XProtect Go support community, including how-to videos and the XProtect Go user forum, visit the web pages for XProtect Go users: www.milestonesys.com/go.

Once you have installed XProtect Go, you can also access the comprehensive built-in help system. To access the help system, use the Management Application's *Help* menu or press F1 on your keyboard to access the help system.

What is XProtect Go?

XProtect Go is a free version of our market-leading video management software (VMS) designed for small business installations and video surveillance in private residences.

XProtect Go lets users experience the true benefits of IP video and the Milestone open platform for free. Seamless upgrade options make XProtect Go a risk-free entry into a reliable and secure IP video surveillance solution today and tomorrow.

Similar features shared between XProtect Go and all other XProtect products, such as the XProtect Smart Client and video export, make it easy and intuitive to upgrade to one of our premium products.

Learn more about premium XProtect IP video management software (VMS) at www.milestonesys.com

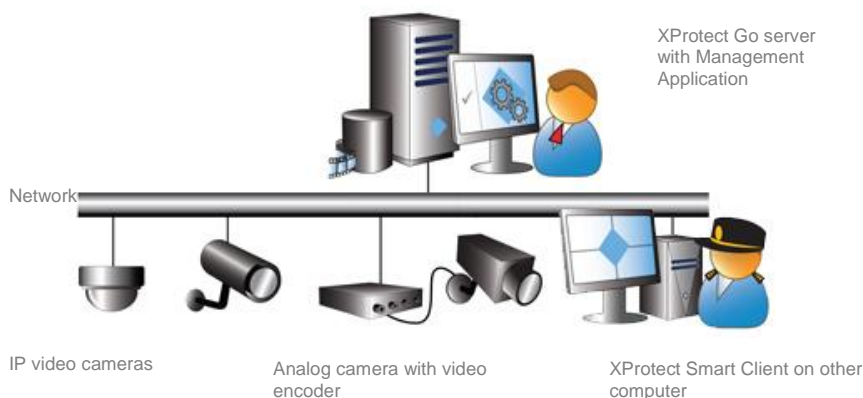
XProtect Go includes:

- **XProtect Go software**, which you install on the computer you want to use as your surveillance system server. When the software is installed, your computer can work as an XProtect Go server.
- **XProtect Go Management Application**, which you use for setting up your surveillance system. The Management Application is automatically installed on the XProtect Go server.
- **XProtect Smart Client** is easy-to-use client application that provides intuitive control over security installations and gives access to live and recorded video. The XProtect Smart Client is automatically installed on the XProtect Go server.
- **XProtect Mobile** is a free application that gives you instant access to video from your XProtect surveillance system from almost anywhere around the globe via wireless, 3G or 4G connections. The application allows you to view live or playback video from cameras from your XProtect Go system and control pan-tilt-zoom (PTZ) cameras. For more information on how to install XProtect Mobile, visit www.milestonesys.com/mobile.
- **XProtect Web Client** is a simplified, intuitive web-based client application that can be used for viewing, playing back and sharing video. With no need to install additional software on your computer, you can monitor your XProtect system through almost any browser and computer operating system. For more information on how to use XProtect Web Client, watch our tutorials on www.youtube.com/milestonesys.

Cameras and network are not included, but even a basic web camera connected to the XProtect Go server via a USB cable is enough for trying out your own XProtect Go surveillance system:



For a more flexible experience, you can set up an XProtect Go surveillance system on your computer network:



Characteristics of IP video surveillance

With an old analog surveillance system, video is continuously recorded onto video tapes. This results in endless hours of video with no importance and difficulty in finding key moments. The quality of the recorded video will also deteriorate with time and usage.

With XProtect Go, you can view live video whenever you want, but you can also choose to only record video when there is a reason to do so. XProtect Go lets you set up features, such as motion detection, to activate recording on all your cameras. It is also possible to continuously record video if that is what you prefer. Recorded video will be stored digitally on your XProtect Go server's hard disk in the quality it was recorded in, with no deterioration over time.

XProtect Go provides the resources for limiting the amount of irrelevant recorded video. The result is that recordings take up less space and are easier to find. Combined with the search features in XProtect Smart Client, XProtect Go lets you find relevant video clips in a matter of seconds.

Another difference between analog systems and XProtect Go is the amount of cabling. With analog systems, each camera is connected to the video recorder with individual cables. Having many cameras in your home or office becomes impractical as it means having many cables lying around. With XProtect Go, you connect your cameras directly to your computer network and avoid having cables in your home or office. The need for power cables is also eliminated with XProtect IP video management software as electrical power is provided for the cameras over the computer network. This is known as Power over Ethernet (POE).

Eight cameras, five days of recordings

XProtect Go supports up to eight cameras and video can be retained for five days. You can initially use XProtect Go for **30 days**, but if you register your version of XProtect Go, you can use it for **one year** (with the possibility of re-registering your XProtect Go version after that year so you can continue to use it for free). Simply fill out the registration form when you install XProtect Go or when you use the XProtect Smart Client.

Minimum requirements for XProtect Go

Make sure the computer on which you install XProtect Go meets the following requirements:

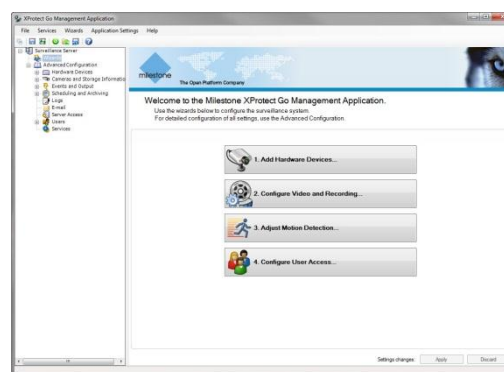
Name	Description
Operating system	<ul style="list-style-type: none"> • Microsoft® Windows® XP Professional (32-bit or 64-bit*) • Windows Server 2003 (32-bit or 64-bit*) • Windows Server 2008 R1/R2 (32-bit or 64-bit*) • Windows Vista™ Business (32-bit or 64-bit*) • Windows Vista Enterprise (32-bit or 64-bit*) • Windows Vista Ultimate (32-bit or 64-bit*) • Windows 7 Professional (32-bit or 64-bit*) • Windows 7 Enterprise (32-bit or 64-bit*) • Windows 7 Ultimate (32-bit or 64-bit*).
CPU	Intel® Pentium® 4, 2.4 GHz or higher (Core™ 2 recommended).
RAM	Minimum 2 GB (4 GB or more recommended).
Network	Ethernet (1 Gbit recommended).
Graphics adapter	AGP or PCI-Express, minimum 1024 x 768, 16-bit colors.
Hard disk type	E-IDE, PATA, SATA, SCSI, SAS (7200 RPM or faster).
Hard disk space	Minimum 1 GB free hard disk space available, excluding space needed for recordings.
Software	<ul style="list-style-type: none"> • Microsoft .NET 4.0 Framework. • DirectX 9.0 or newer. • Windows Help (WinHlp32.exe)
	All can be downloaded from http:// www.microsoft.com/downloads/ .

System requirements for the XProtect Smart Client are available in the XProtect Smart Client User's Manual, available on www.milestonesys.com/downloads.

Install XProtect Go

1. Run the downloaded XProtect Go installation file from the location you have saved it to.
2. Depending on your computer's security settings, you may receive one or more security warnings. Click the *Run* button.
3. When the installation wizard starts, click *Next* to continue.
4. Read and accept the End User License Agreement and select whether or not you want to help Milestone improve XProtect Go by allowing Milestone to collect information about how you use the system. Collected information will not be used to personally identify you. When ready, click the *Continue* button.
5. During the installation process, all necessary components will be installed one after the other. In addition to the XProtect Go software, you will also automatically get the XProtect Go Management Application, driver software for communicating with cameras, and the XProtect Smart Client.
6. On the last page of the installation wizard, we recommend you choose to view the Quick Getting Started Guide and open XProtect Go's Management Application (as suggested by the wizard). Then click *Finish*.
7. The computer on which you performed the installation now works as an XProtect Go server. XProtect Go's Management Application, in which you define cameras and set up your XProtect Go system, opens automatically.

If the Management Application does not start automatically, or you get a warning, it is generally because your computer's Windows firewall or your virus protection/internet security software does not allow it. Try checking the settings of your Windows firewall or your virus protection/Internet security software.



Register your XProtect Go version

Milestone highly recommends that you register your version of XProtect Go. It will allow you to use XProtect Go for a full year. Without registration, you can only use XProtect Go for 30 days.



Register your XProtect Go version at www.milestonesys.com/go/registration.

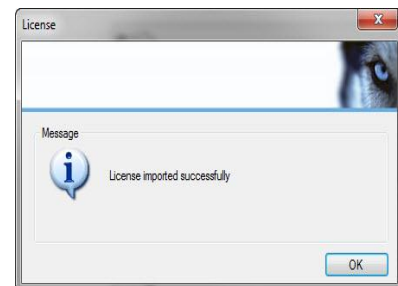
When you register, you must enter an email address. This is because a software license code (SLC) will be sent to your email after you have registered. The SLC must be imported into the XProtect Go Management Application (as described in the following). Save the license file on your computer.

Once you have registered, you can use XProtect Go for a full year. If you are unsure as to when the license expires, go to *Help > About*. A message will now show your software license code and the date when the license expires, for example February 7, 2013. It will also show to whom the SLC was issued.



Import your software license file

1. Open XProtect Go's Management Application, either from the Windows *Start* menu or by double-clicking the *Management Application* shortcut on your desktop. 
2. In the XProtect Go Management Application's menu bar, select *File > Manage License Offline > Import License*.
3. Find the location on your hard disk where you saved the license file. Click *OK*.
4. A text box will inform you that the license file has been imported successfully.
5. Save your changes by clicking the *Save and Apply Configuration* button in the Management Application's toolbar. 



Connect and add cameras to your XProtect Go system

You can use up to eight cameras with XProtect Go.

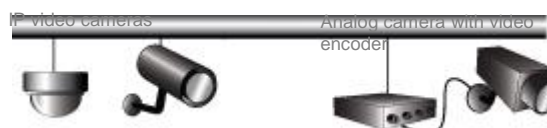
- Before you connect cameras to your network, verify that they are compatible with XProtect Go. XProtect Go is compatible with more than 1,000 cameras from almost 100 different manufacturers. All USB cameras (web cameras) can also be used regardless of manufacturer. Built-in web cameras can also be used. To make sure your cameras are compatible, view the list of supported cameras on www.milestonesys.com/go/support
- When ready, connect your cameras to your network with Ethernet cables as described in the documentation that came with your cameras. If you use USB (web) cameras, connect them directly to the XProtect Go server with USB cables.
- For network cameras: Once you have connected your cameras, make sure you set up each camera's address and administrator password on the camera itself as described by the camera manufacturer.

When you have connected and initially set up your cameras, you can add them to your XProtect Go.

Can I use analog cameras?


If you have analog cameras, you can use them with XProtect Go. However, they must be connected to your network through a video encoder which converts the cameras' analog signals to digital. You can view a list of supported video encoders on www.milestonesys.com/go/support.

With some video encoders, you can connect multiple analog cameras. However, each camera can still be set up and used individually even if multiple cameras are connected to that encoder.



Add your cameras in XProtect Go

When you are ready, do the following to add your cameras to your XProtect Go surveillance system:

1. Open XProtect Go's Management Application, either from Windows' *Start* menu or by double-clicking the *Management Application* shortcut on your desktop. 
2. In the Management Application, click the big *Add Hardware Devices...* button.
3. A wizard now offers to guide you through adding cameras. Two of the wizard's options are simple and easy to use for XProtect Go users:



- **Express (recommended):** The Express method quickly scans your network for cameras and helps you add them to your XProtect Go system. This method is quick and easy since it only scans for cameras supporting device discovery, and only on the part of your network where the XProtect Go server itself is located. To be able to use the Express method, your XProtect Go server and your cameras must communicate without any routers between them. Otherwise, use the Manual method.
- **Manual:** This method lets you specify details about each camera separately. This method is a good choice if you only want to add a few cameras, and you know their details, such as IP addresses, required user names and passwords.

Device discovery is a method where hardware devices make information about themselves available on the network. Based on such information, XProtect Go can recognize relevant hardware devices on your network, and thus include cameras—but not printers and other irrelevant devices—in the scan.

When you add a camera to your XProtect Go system, you must in most cases supply the username and password for the camera's administrator account. An administrator account gives full access to the camera, and XProtect Go requires that this is given. A camera's administrator username and password are usually specified when you connect and initially set up the camera on your network (covered at the beginning of this chapter). Make sure you know the username and password for the administrator account of each camera you add to your XProtect Go system. If your cameras have **microphones**, XProtect Go will automatically detect the microphones and add them to your surveillance system as well.

4. When you have completed the wizard, save your changes by clicking the *Save Changes and Restart Surveillance Services* button in the Management Application's toolbar.



Add USB cameras (web cameras)

Most professional surveillance cameras use Ethernet connections, but with XProtect Go, you can connect directly to your server via a USB interface, allowing for the use of more basic cameras, such as web cameras, – provided you have installed the camera software beforehand.



Note that USB cameras use a lot of computer processing power because they deliver video in a much more raw data format than dedicated surveillance cameras. Therefore, do not use more than a couple of USB cameras.

If you want to add USB cameras, do the following in the *Add Hardware devices* wizard:

1. Select the *Express* hardware detection method, and click *Next*.
2. After a short while, the wizard will detect your USB camera(s), and list them as a single entry with the *Address* 0.0.0.1. Click *Next*.
3. On the last page of the wizard you may notice that four possible cameras (and microphones) are listed, even if you have fewer than four USB cameras. This is simply because the driver (the software used for communication between USB cameras and XProtect Go) is able to handle up to four cameras. If you have more than one USB camera, make sure the *Enable* check box is selected for each camera you are going to use (for example *Camera 1* and *Camera 2* if you have two cameras). Then click *Finish*.



When you have completed the wizard, save your changes by clicking the *Save Changes and*

Restart Surveillance Services button in the Management Application's toolbar.

Important: In XProtect Go, you set up USB cameras almost like other cameras. There are, however, a few differences. The most important difference is that USB cameras can only deliver video to one application at a time. This means that you should close the USB cameras' own setup and/or viewing windows—but also Skype™ or other similar programs on your computer—while you set up the USB cameras in XProtect Go's Management Application or view video in the XProtect Smart Client.

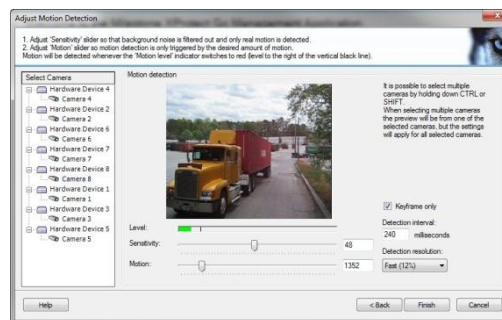
A few other differences also apply, especially regarding how USB cameras are listed in XProtect Go's Management Application. Read about those differences on page 14.

Do all four cameras found in the wizard count towards XProtect Go's maximum of eight cameras? If you only have, for example, one USB camera connected to the XProtect Go server, only that single USB camera will count towards XProtect Go's maximum of eight cameras.

Set up surveillance system features and users

When you have added your cameras, three more wizards offer to guide you through setting up your surveillance system's features and users:

- **Configure Video and Recording** wizard: Lets you set up items such as your cameras' video quality, when to record and where to store your recordings.
- **Adjust Motion Detection** wizard: Lets you set up motion detection, which is key element in XProtect Go, as detected motion may be used for determining items such as when to start recording or when to send notifications.
- **Configure User Access** wizard: Lets you set up the users of your surveillance system.



Tip: XProtect Go automatically creates a user account for you which is also used to view video with XProtect Smart Client. The account uses basic authentication, your user name is admin, and your password is also admin. The account details can be changed after initial log in, see Client access, users and rights on page 15.

The wizards' guided approach is excellent for quickly setting up your XProtect Go surveillance system, and XProtect Go's help system is only a click away if you need additional guidance.

Note that the wizards only cover a selection of frequently used functionality, not every setup option. For example, the Configure User Access wizard only lets you set up users with access to *all* your cameras. This means that the users you add through the wizard will be able to view video from all cameras on your system. This is ideal if your XProtect Go system is only going to have a small number of trusted users, but if you want to specify different feature and camera rights for each user, you must use advanced configuration.

In the following chapter, we will therefore take a quick look at some of the advanced configuration options. Advanced configuration of client access, users, and their rights is covered on page 15.

Advanced configuration overview

Cameras

With advanced configuration, you can set up camera settings on a general and on a camera-specific level.

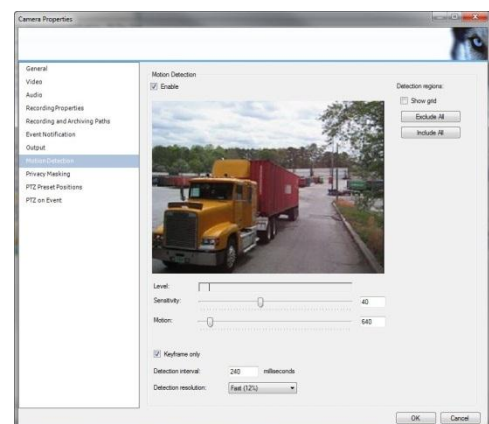
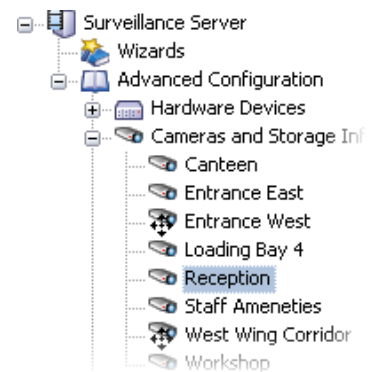
On the **general level**, you can specify shared settings for all your cameras:

1. In the Management Application's navigation pane, expand *Advanced Configuration*, right-click *Cameras and Storage Information*, and select *Properties*.
2. Specify properties for features like frame rate or audio recording. When ready, click *OK*.
3. Save your changes by clicking the *Save Changes and Restart Surveillance Services* button in the Management Application's toolbar.



On the **camera-specific level**, you can set up video quality, recording and other features (such as motion detection) for each individual camera.

1. In the Management Application's navigation pane, expand *Advanced Configuration*, and then expand *Cameras and Storage Information*.
2. Right-click the required camera and select *Properties*.
3. Specify properties as required for:
 - Camera (for example the camera's name)
 - Frame rate (Specify number of frames per second in your video recordings)
 - Video quality (format, resolution, compression, etc.)
 - Audio (many cameras have built-in microphones, or can have microphones connected to them—in XProtect Go, you can have one microphone enabled at a time)
 - Recording (always, never, or on certain conditions—for example when motion is detected)
 - Recording and archiving paths (where to store recordings—archiving is a feature that can move recordings to different locations when needed, read more on page 20)
 - Event notification (get notified when specific events occur, for example if somebody tampers with one of your cameras)
 - Output (you can connect output units, such as lights, sirens or door openers, to your cameras, and then, for example, automatically sound a siren if there is motion in a camera's pictures)



- Motion detection (a key element in XProtect Go, as detected motion may be used for determining when to start recording, when to send notifications, etc.). XProtect Go sees it as motion when the green bar goes above the threshold and turns red; drag the sliders to suit your needs. If certain areas in the camera's pictures cause irrelevant motion (trees swaying in the wind, cars passing by in the background, etc.), you can exclude these areas with the *Exclude regions* feature. You can also turn off motion detection if you do not want to use this feature.
- Privacy masking allows for the ability to mask some parts of an image if there are things you do not want viewers of the XProtect Smart Client to see. See Explore more XProtect Go features on page 20 for further information.

Help at hand: Remember, if you need help with a feature in XProtect Go, just use the Management Application's *Help* menu or press F1 on your keyboard.

Depending on your cameras' features, you may also be able to set up:

- 360° lens technology (for cameras delivering 360° panoramic images)
- Settings for PTZ cameras, such as presets and event-based movement. See also the information about PTZ cameras in the following.

Save your changes by clicking the *Save Changes and Restart Surveillance Services* button in the Management Application's toolbar.



USB cameras (Web cameras)

If you use USB cameras (web cameras), you set them up in XProtect Go almost like other cameras. Note, however, that in XProtect Go's Management Application, your USB cameras will all be listed as belonging to the same hardware device.




For technical reasons this hardware device has four video channels, and consequently XProtect Go will display it as having four cameras and also four microphones. Disabled cameras are indicated by a red ✖, and they will of course not count towards your maximum allowed total of eight cameras. To enable a camera from the list, right-click and select *Enable*. If you enable cameras, remember to restart the services in order for the cameras to start recording: Click the *Save Changes and Restart Surveillance Services* button in the Management Application's toolbar (or select *File > Save Changes and Restart Services* from the menu bar).



Pan-tilt-zoom cameras

Pan-tilt-zoom (PTZ) movable cameras are supported throughout XProtect Go. Such cameras can be operated manually (by users of the XProtect Smart Client) as well as automatically (for example when a door is opened).

PTZ cameras have a  symbol next to them when listed in the Management Application's navigation pane. They generally have a higher number of advanced configuration options than regular cameras.



360° lens technology

XProtect Go supports cameras with 360° lenses (lenses that allow you to record 360° panoramic images). Only some cameras (using Immervision Enabled® 360° panomorph lens) support this technology

Scheduling

XProtect Go's scheduling feature makes sure surveillance system features are enabled in accordance with defined periods of time.

With XProtect Go's default settings, the cameras you add are automatically online (transferring video to XProtect Go) at all times. This means that you will only need to modify scheduling settings if you want cameras to be online at specific times or when specific things happen.

To set up scheduling for individual cameras: In the Management Application's navigation pane, expand *Advanced Configuration*, expand *Scheduling and Archiving*, right-click the required camera, and select *Properties*. You can then choose to set up scheduling for all cameras at the same time, or specific schedules for specific cameras by creating a template schedule that will create some default settings that you can apply to any of the cameras you have added to the system.



Client access, users and rights

Users of your surveillance system use the feature-rich XProtect Smart Client to connect to your XProtect Go server. XProtect Smart Client is automatically installed on the XProtect Go server.



You can set up as many users of your surveillance system as you want, but note that with the free XProtect Go software, only one user can connect with the XProtect Smart Client at a time. In premium XProtect products, you can have from five to unlimited simultaneously connected users.

In the following, we will begin by setting up XProtect Smart Client's access to the surveillance system. When that is in place, we will define the actual users and their rights.

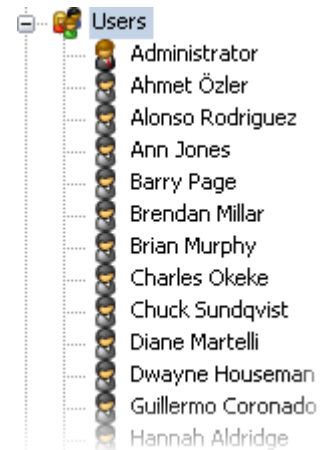
- In the Management Application's navigation pane, expand *Advanced Configuration*, right-click *Server Access*, and select *Properties ...*
- In the *Server Access* section's *Server name* field, type a descriptive name for your XProtect Go server (users will see this name in their XProtect Smart Clients).
- Data communication takes place through different ports; XProtect Go uses port number 80 for communication with XProtect Smart Clients. If you know that port 80 is used for something else on your XProtect Go server, you can change the port number in the *Local port* field. If not, just use port 80.
- If your XProtect Go server should be accessible from the Internet through a router or firewall, select *Enable internet access*, and specify the server's Internet address and Internet port. Note that the router/firewall must be set up so requests sent from clients to the Internet address and port are forwarded to the local address and port of the XProtect Go server.
- IP address ranges which should be recognized as coming from your local network can be defined in the *Local IP Ranges* section.

- In the *Language Support and XML Encoding* section, select the language/character set used by the XProtect Go server and XProtect Smart Clients. This will ensure that the right language and character encoding is used in users' communication with the server.

Now that clients' access to the server is in place, we can define your surveillance system's users and what those users are allowed to do:

Tip: If you have not used XProtect surveillance software on your computer before, you don't have to set yourself up as a user. XProtect Go automatically creates a user account for you that is also used to view video through XProtect Smart Client. The account uses basic authentication, your user name is admin, and your password is also admin. The account details can be changed after initial log in, see Client access, users and rights on page 15.

- In the Management Application's navigation pane, expand *Advanced Configuration*, right-click *Users*, and select either *Add New basic User ...* or *Add New Windows User ...*



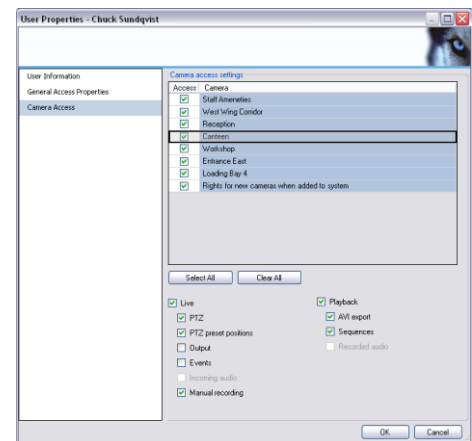
Basic Users are authenticated by a simple user name and password combination which you define on the XProtect Go server itself.

Windows Users are users defined in a database on the XProtect Go server and authenticated by their Windows login. Basic Users are very easy to set up; Windows Users require a slightly more advanced setup, but provide better security.

- When you have added a user, the *User Properties* window opens. Here you can review the user's general access settings, i.e. whether the user should be allowed to view live video, play back recorded video, set up his or her XProtect Smart Client through the client's *Setup* tab, etc.

By default, the user has full rights, but you can limit those rights as required. When ready, select the window's *Camera Access* section.

- In the *Camera Access* section, specify which cameras the user should have access to. For each camera you are also able to give the user access to viewing live and playing back recorded video, and to individual live and playback features.
- When ready, click *OK*, and add other users as required. As you add users, they get added to the list of users in your Management Application's navigation pane. There is no limit to how many users you can add, but remember that with XProtect Go, **only one XProtect Smart Client** can connect to the XProtect Go server at a time.
- When you have added all required users, save your changes by clicking the *Save Changes and Restart Surveillance Services* button in the Management Application's toolbar.





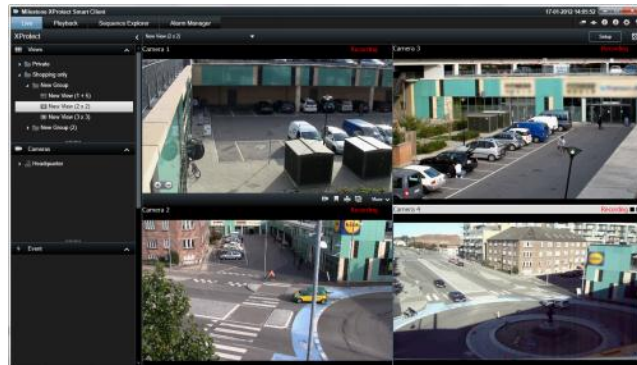
Clients

XProtect Smart Client

XProtect Smart Client is an easy-to-use client application that provides intuitive control over security installations. It gives seamless access to live and recorded video, instant control of cameras and a comprehensive overview of recordings.

XProtect Smart Client is automatically installed on your XProtect Go server.

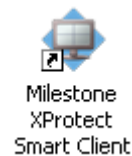
Note that with the free XProtect Go software, only one user can connect with the XProtect Smart Client at a time.



In premium XProtect versions, you can have from five to unlimited simultaneously connected users.

Log in

To begin using the XProtect Smart Client on the XProtect Go server itself, simply click the desktop shortcut. Alternatively, open the XProtect Smart Client from Windows' *Start* menu. If you have not used XProtect surveillance software on your computer before, XProtect Go has automatically created a user account for you. To use the automatically created account with XProtect Smart Client on the same computer as XProtect Go, log in with the following:



- **Server address:** `http://localhost`
- **Authentication:** Basic authentication
- **User name:** admin
- **Password:** admin

The detailed login procedure described below is only relevant if logging in from another computer or with a different account. In the XProtect Smart Client login dialog, specify your login information in the following fields:

- **Server address:** Type `http://localhost` (localhost simply means the local computer). If you are accessing XProtect Go from another computer than the XProtect Go server itself, you cannot type `http://localhost`. Instead you must type the XProtect Go server's IP address.

How do you know the IP address of the XProtect Go server? On the XProtect Go server itself, open Windows' *Start* menu, select *Run*, and type `cmd` in the field, then click *OK*. In the command prompt window, type `ipconfig`. Under the heading *Ethernet adapter Local Area Connection*, you can now see the IP address. Note down the IP address, and close the command prompt window again.

If you have chosen to use another port number than the default port number 80 (see Client access, users and rights on page 15), you should specify the port number too. Example (port 100 is used): `http://localhost:100` (note the colon between the IP address and the port number).

If you connect to the XProtect Go server from the Internet through a **router** or **firewall**, you must



connect to the *Internet* address and port of the XProtect server; see Client access, users and rights on page 15.

- **Authentication:** Select between different methods of authentication (that is the process of verifying that you are who you claim you are).
 - **Windows authentication (current user)** for users set up as Windows Users. You will be authenticated through your current Windows login, and do not have to specify any user name or password.
 - **Windows authentication** for users set up as Windows Users. You will be authenticated through your Windows login, but you will need to type your Windows user name and password.
 - **Basic authentication** for users set up as Basic Users. Specify your user name and password for accessing the surveillance system.
- **User name:** Only required if you select the authentication methods *Windows authentication* or *Basic authentication*. If using *Windows authentication*, type your Windows user name. If using *Basic authentication*, type your surveillance system user name as you specified it in the XProtect Go Management Application. The user name is case sensitive, meaning that there is a difference between typing, for example, *Karen* and *karen*.
- **Password:** Only required if you select the authentication methods *Windows authentication* or *Basic authentication*. If using *Windows authentication*, type your Windows password. If using *Basic authentication*, type your surveillance system password exactly as you specified it in the XProtect Go Management Application.
- When ready, click **Connect** to begin using the XProtect Smart Client.

Brief overview of functionality

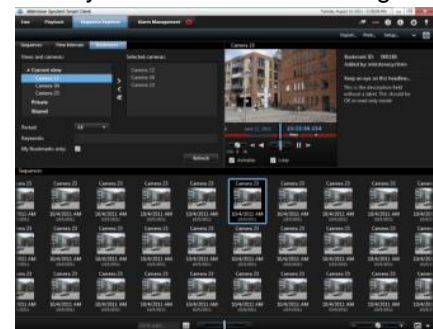
- The XProtect Smart Client has four main areas:
 - **Live** for viewing live video
 - **Playback** for playing back recorded video
 - **Sequence Explorer** for viewing sequences of recorded video
 - **Alarm Manager** for viewing incoming alarms



If you have not used the XProtect Smart Client before, it will automatically create a view containing all your cameras, and display that view on the *Live* tab.

A view is a collection of cameras that you can view together. You can have as many views as you want. If you are a shop owner, for example, you can include four cameras from the shop itself in one view, and four cameras from your back office environment in another view. You can easily create more views if you need to.

Once you have recorded video, access the *Playback* tab to see video from a selected view, or the *Sequence Explorer* tab to view sequences of recorded video.





Get additional XProtect Smart Clients

You can use the XProtect Smart Client from virtually anywhere. It does not have to be installed on the XProtect Go server itself. If you require an additional XProtect Smart Client, for yourself or for other users, you can easily download and install them from www.milestonesys.com/downloads.

Remember that with the free XProtect Go software, only **one user** can connect with the XProtect Smart Client at a time. In premium XProtect products, you can have from five to unlimited simultaneously connected users.

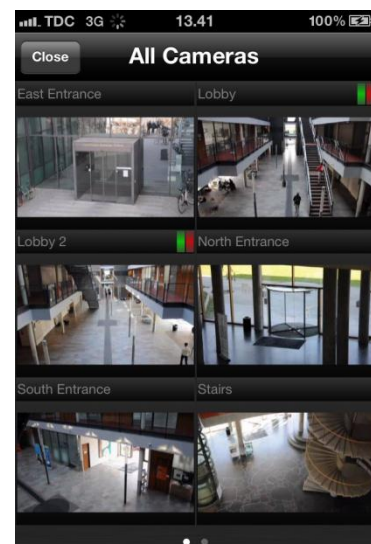
XProtect Mobile client

Designed by Milestone, XProtect Mobile is an application that can be downloaded for free that works seamlessly with all XProtect video management software (VMS) products and is available as a download on Google Play and the App StoreSM.

With instantaneous access to video from your XProtect surveillance system from almost anywhere around the globe via wireless, 3G or 4G connections, XProtect Mobile allows you to view incidents, ensure areas are secure and take immediate action.

XProtect Mobile consists of two items, an application for your smartphone or tablet and a server component. For XProtect Go 2.1, the server component is already installed and users must just download the application from Google Play or the App Store.

For more information on how to set up XProtect Mobile, visit: www.milestonesys.com/mobilehelp.

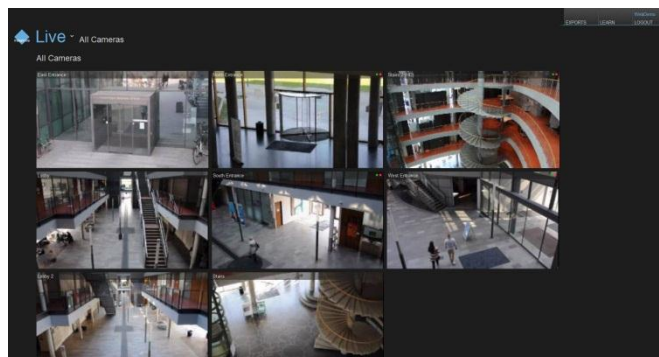


XProtect Web Client

XProtect Web Client is a simplified, intuitive web-based client application that can be used for viewing, playing back and sharing video. It provides instant access to the most commonly used surveillance functions, and it is quick to learn and simple to operate for users of all levels.

The XProtect Web Client provides the ultimate freedom with the ability to connect to your XProtect system through almost any browser and computer operating system. With no need to install additional software on your client computer, you can monitor your XProtect system anywhere from any Internet-enabled computer or tablet, including Mac[®] computers.

For more information on how to set up XProtect Web Client, visit: www.milestonesys.com/xprotectwebclient.





Explore more XProtect Go features

XProtect Go offers more advanced configuration options than we are able to cover in a short guide like this. However, if you are interested in further exploring the flexibility and freedom offered by your XProtect Go surveillance system, we recommend that you explore these features that can help you get even more benefits out of using XProtect Go.

Events and output

Virtually anything can be turned into a system event in XProtect Go, and such events can be used for triggering almost any kind of action. For example, if your house has a back entrance fitted with a door sensor and the door is opened, XProtect Go can register that as an event. That event can in turn be used for automatically starting recording on certain cameras, for automatically sending you an email notification, or for automatically activating output units, such as sirens, lights, etc.

Creating an event-based setup thus allows for a huge amount of automation and flexibility in your surveillance system.

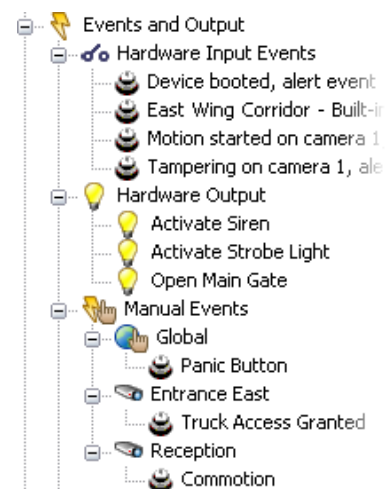
Hardware input events (based on input from, for example, door sensors attached to XProtect Go's cameras), **manual events** (activated manually by XProtect Smart Client users) and **timer events** (occurring a specified number of seconds or minutes after another event) can be used for automatically starting/stopping recordings, sending notifications, etc.

Hardware output can be used for activating output units, such as sirens, lights, door openers, etc. Hardware output can be activated automatically by events.

The use of most hardware input events and all types of hardware output requires that external sensors are wired to input/output (I/O) connectors on the cameras in question, and that I/O operation on the cameras is supported by XProtect Go.

To set up events and output: In the Management Application's navigation pane, expand *Advanced Configuration*, expand *Events and Output*, right-click the required type of event or output, and select *Add New ...*

Once you have set them up, events can be used with features throughout XProtect Go, regardless of where sensors or output units are physically connected.



Recording databases and archiving



When XProtect Go records video from your cameras, it stores the video in a database—one database for each camera. The databases are created automatically on the XProtect Go server for each camera you add. Each database can contain up to 40 GB of data, or 600,000 database records—whichever comes first.

To give you an idea of what this means in practice, a camera's database can contain approximately 24 hours of non-stop recordings if you record with a frame rate of six frames per second. Note that very few users of surveillance systems want their cameras to record non-stop; most users set up their systems so that cameras record at specific times or when motion is detected. When that is the case, it can take much longer than 24 hours before a database becomes full.



Archiving is the automatic transfer of recordings from cameras' databases to another location on the XProtect Go server, for example on another built-in disk drive or on a USB drive or external hard disk connected directly to the XProtect Go server. This way, the amount of recordings you are able to store is not limited by the maximum size of the databases. Archiving also makes it possible to secure your recordings on backup media of your choice. Archiving does not affect how you or other users find and view recordings in the XProtect Smart Client.

XProtect Go automatically archives recordings if a camera's database becomes full. You are furthermore able to schedule archiving at particular points in time every day. This way, you can proactively archive recordings, so databases will never become full.

If your XProtect Go server is equipped with several disk drives, we highly recommend using *dynamic archiving paths*. With this dynamic feature, you can specify several different disk drives for archiving. Then, XProtect Go automatically archives to the disk drive with the most available space at any time.

To set up dynamic archiving paths: In the Management Application's navigation pane, expand *Advanced Configuration*, right-click *Cameras and Storage Information*, and select *Properties ...*, then *Dynamic Path selection – Archives*.

Five days is the maximum time for which you can keep recordings—including archived recordings—in XProtect Go. In other XProtect versions, for example XProtect Essential, only the capacity of your hard disks sets the limit.

Privacy masking

If there are areas in the camera view that you do not want to show up when you or others look at surveillance footage in the XProtect Smart Client, you can mask out areas. This can, for example, be relevant if you have video surveillance outside and record from an angle where a part of your neighbor's private property is visible in the video. In order to avoid invading on the privacy of your neighbor, you can set the privacy mask up so that you cannot see your neighbor's property when you view the video in the XProtect Smart Client.

Privacy masking is configured under *Advanced Configuration* in the Management Application's navigation pane. Expand *Cameras and Storage Information*, right-click the camera you want to have the privacy mask on and select *Properties, Privacy Masking*.

If you decide that you do not need your privacy mask anymore, note that the privacy mask will then also be removed from previously recorded video.

Dual streaming

Normally, you will only have one stream from a camera. However, more and more camera models are produced that are able to show two independent video streams at the same time, where one is optimized for showing live video while the other is configured for recorded video.



Upgrade

Upgrade from a previous version

If you have a previous version of XProtect Go installed on your computer and want to install XProtect Go 2.1, follow the installation process at the beginning of this guide.

When you install XProtect Go 2.1, you will notice that your old versions of the XProtect Smart Client and the Management Application are automatically removed before anything new is installed. Please note, you will **not** lose your recordings, user accounts or configuration. They will all be carried over to the new version of the XProtect Smart Client and the Management Application.



Upgrade to a premium XProtect version

XProtect IP video management software is easy-to-use, yet powerful VMS that is designed with open architecture. This means that all XProtect products are compatible with more IP cameras, encoders and digital video recorders than any other VMS manufacturer, giving you the freedom to mix and match hardware to fit your needs and budget. Whether your installation is just a few cameras or several thousand, there is an XProtect product to meet your needs.

If you want to use more features of XProtect it is easy to upgrade to our entry-level product XProtect Essential. XProtect Essential is ideal for users that want a basic, yet effective surveillance installation and supports up to 26 cameras. It supports up to five simultaneous users and allows you to save your video as long as you like.

If you want to upgrade to XProtect Essential or another premium XProtect IP video management software, visit www.milestonesys.com.



About Milestone Systems

Founded in 1998, Milestone Systems is the global industry leader in open platform IP video management software. The XProtect platform delivers powerful surveillance that is easy to manage, reliable and proven in thousands of customer installations around the world. With support for the widest choice in network hardware and integration with other systems, XProtect provides best-in-class solutions to video enable organizations – managing risks, protecting people and assets, optimizing processes and reducing costs. Milestone software is sold through authorized and certified partners. For more information, visit:

www.milestonesys.com.