

TOPIC: Milestone XProtect Configuration

DOCUMENT CODE: 100.MIL.20191115

HW / SW MANUFACTURER: All

DATE UPDATED: Nov 19, 2019

HW MODEL / SW PRODUCT NAME/NUMBER/TYPER: Milestone XProtect Express+ & Professional+

GORILLA PRODUCT NAME(S): IVAR

VERSION #: All

Deployment Prerequisites

With a deployed surveillance system, Gorilla IVAR works as a plug-in video analytic module. The VMS server replays the video streams to IVAR without direct access from IVAR to the IP cameras. In this way, IVAR can be deployed in the same network segment of your XProtect® server.

VERSION INFO

The IVA event subscription of Gorilla IVAR is supported by Milestone™ XProtect Express+, XProtect Professional+, XProtect Enterprise, XProtect Expert, and XProtect Corporate. If you want to insert analytic events into your XProtect® system, your XProtect® server must comply with the products indicates here.

Milestone XProtect® Compatible Products

	Client	Version
XProtect Express+	XProtect Smart Client 64-bit	2019 R2 (13.2a)
XProtect Professional+	XProtect Smart Client 64-bit	2019 R2 (13.2a)
XProtect Enterprise	XProtect Smart Client 64-bit	2019 R2 (13.2a)
XProtect Expert	XProtect Smart Client 64-bit	2019 R2 (13.2a)
XProtect Corporate	XProtect Smart Client 64-bit	2019 R2 (13.2a)

DOWNLOAD LINK

You may download the latest XProtect® software installers from the Milestone website at <https://www.milestonesys.com/support/resources/download-software/>

SOFTWARE RESIGTRATION AND LICENSE

You may register your account at the Milestone customer portal <https://softreg.milestonesys.com/Pages/Login.aspx>

SOFTWARE REGISTRATION

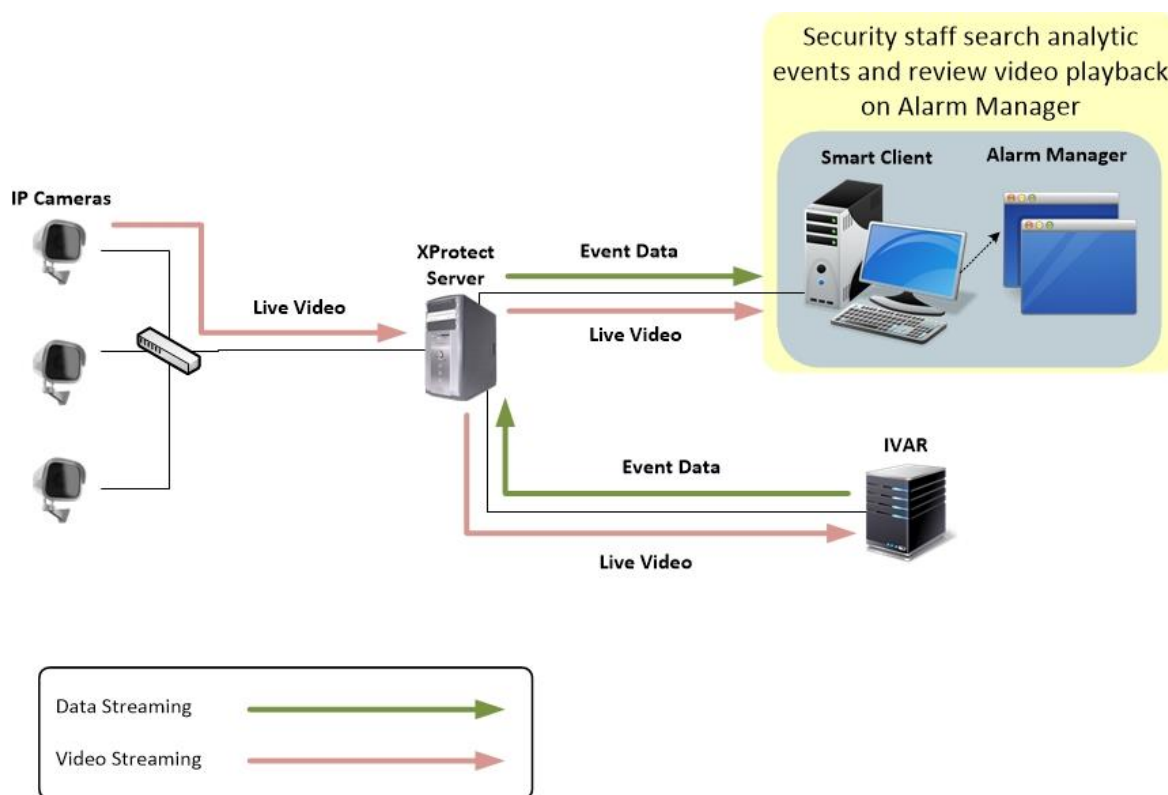
You may purchase the license from your local resellers or register a trial license from the customer portal.

MILESTONE TECHNICAL SUPPORT

You may register your Milestone Care™ for technical support of the XProtect® products.

Data Flow Diagram

The following diagram is a basic deployment of a XProtect system with IVAR.



XPROTECT SMART CLIENT

IVAR works as an add-on module which relays live video from an XProtect Server and analyzes the video content in the XProtect system. The analytics results are sent back to the XProtect Server directly. VMS users run the XProtect Smart Client to monitor all the live video as well as the live video analytic events. When a specific event pops up in the XProtect Smart Client, a security staff can playback the event video linked by the event time if any suspicious incidence is found.

IVAR PORTAL

If users would like to check IVA event on the IVAR portal, then the video must be recorded on the IVAR. Otherwise, no event playback is available.

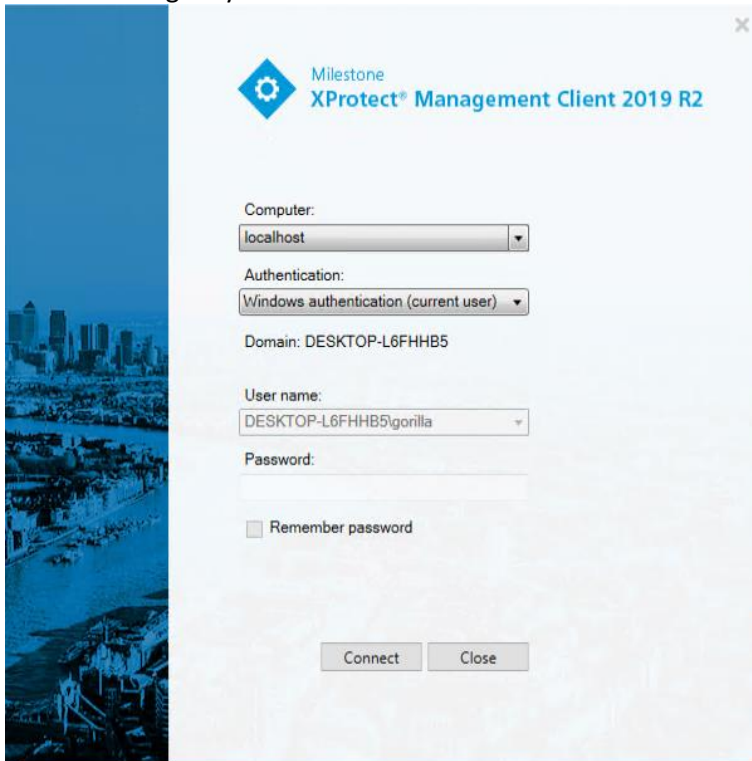
Product	Version	Date
XProtect Express+	<ul style="list-style-type: none"> Updated User Interface Improved backend functionality Improved system stability and widget analytic accuracy Multi-site comparison charts Cloud service can be hosted on AWS (Amazon Web Services) or through different IDC (Internet Data Centers) 	2019/09/24

Milestone Xprotect Configuration

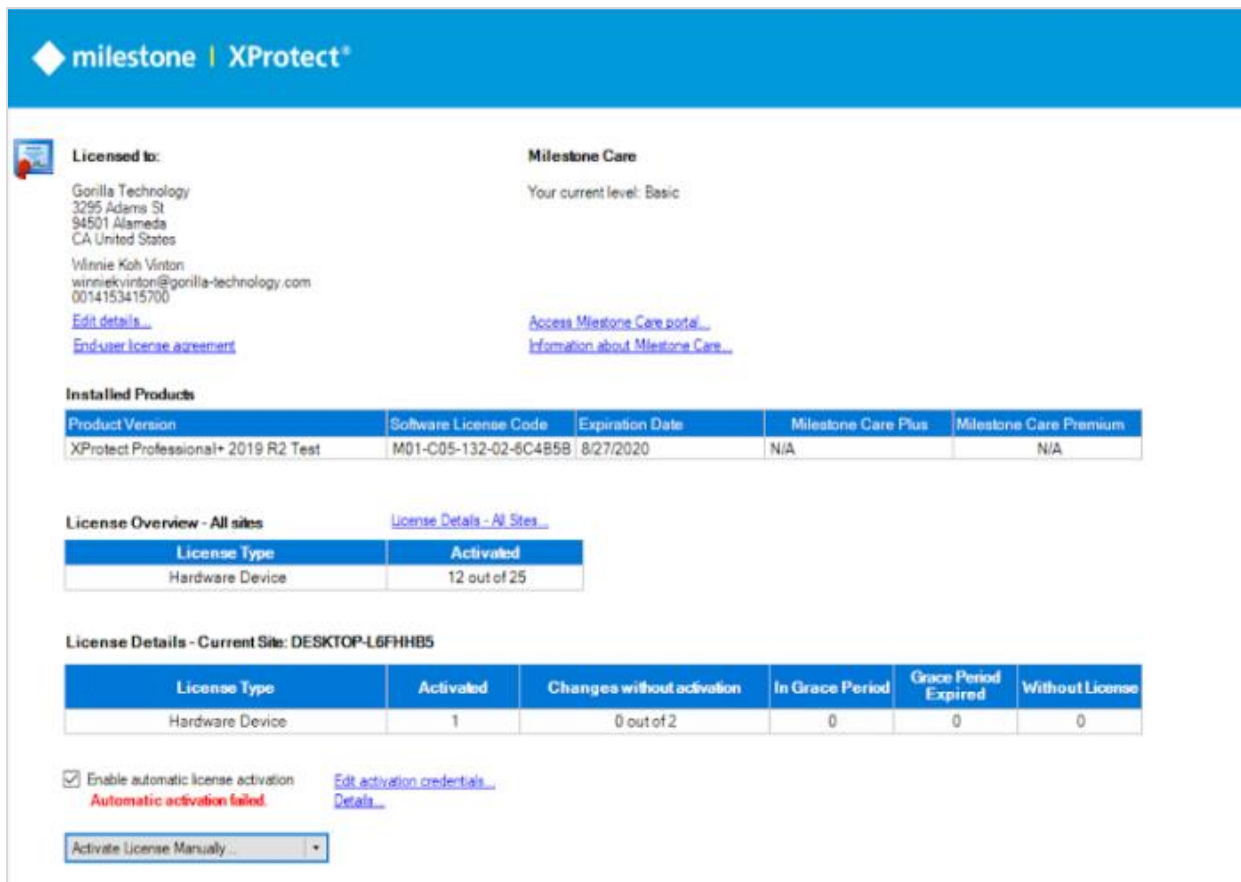
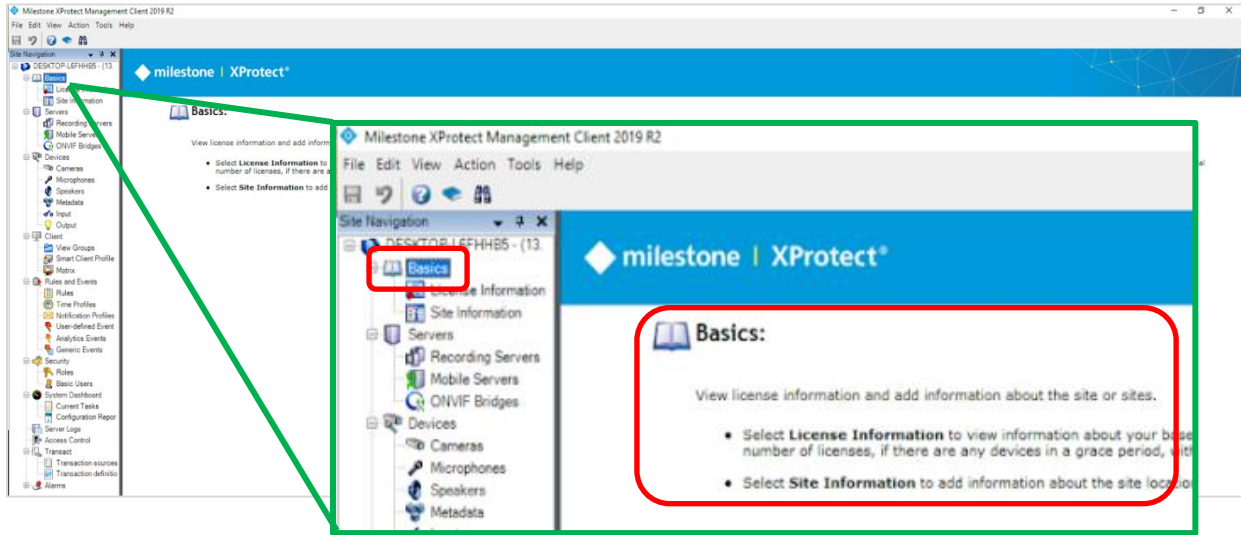
1. Select **XProtect Management Client 2019 R2** to launch the software.



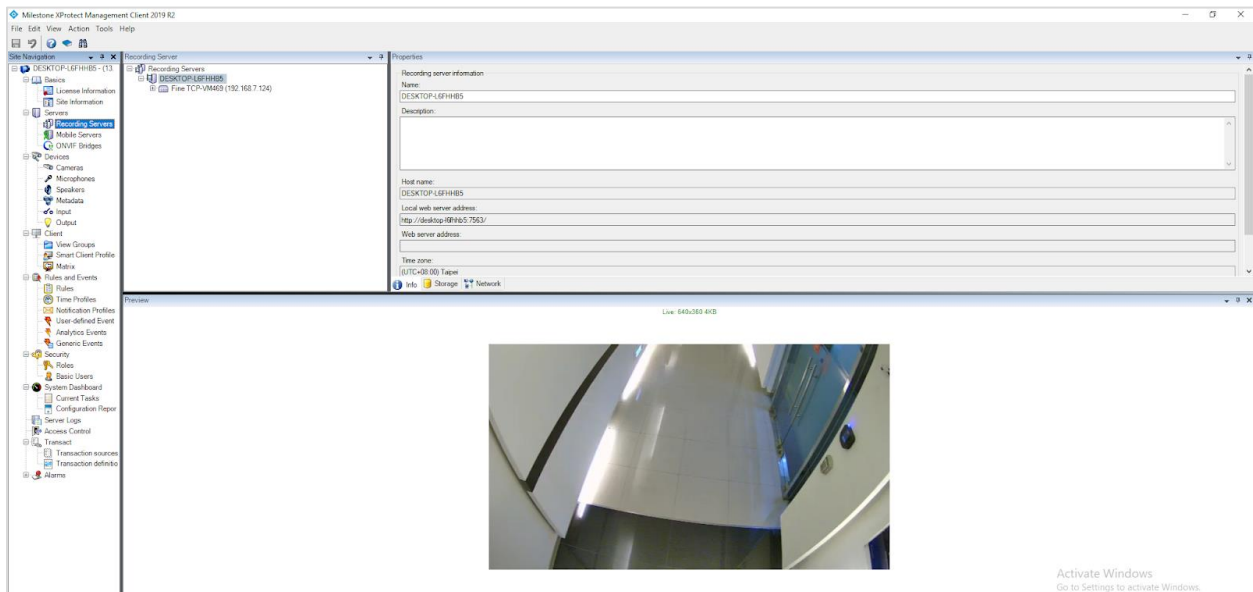
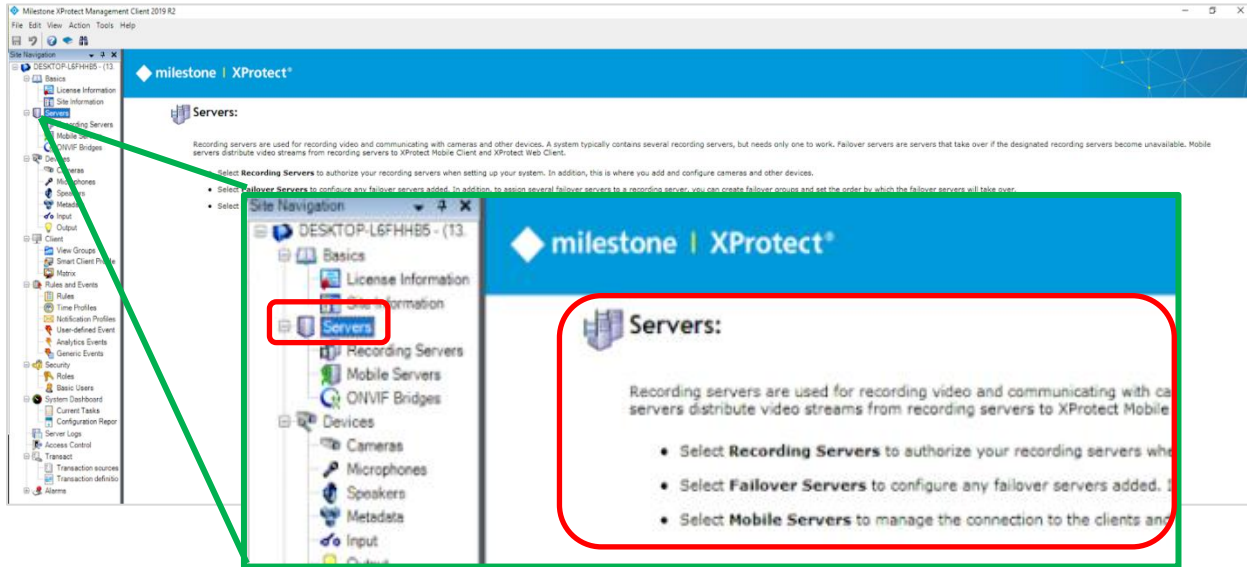
2. Select **localhost** for the default Computer IP if your Management Client is on the server. Select **Windows authentication (current user)** and a domain name will be displayed below. Select **Connect** to log on your XProtect Server.

The screenshot shows the "Milestone XProtect Management Client 2019 R2" configuration window. The window has a light blue header with the Milestone logo and title. The main area contains several fields: "Computer:" with a dropdown menu showing "localhost"; "Authentication:" with a dropdown menu showing "Windows authentication (current user)"; "Domain:" with the text "DESKTOP-L6FHBB5"; "User name:" with a dropdown menu showing "DESKTOP-L6FHBB5\gorilla"; and "Password:" with an empty text box. There is also a checkbox labeled "Remember password" which is unchecked. At the bottom, there are two buttons: "Connect" and "Close".

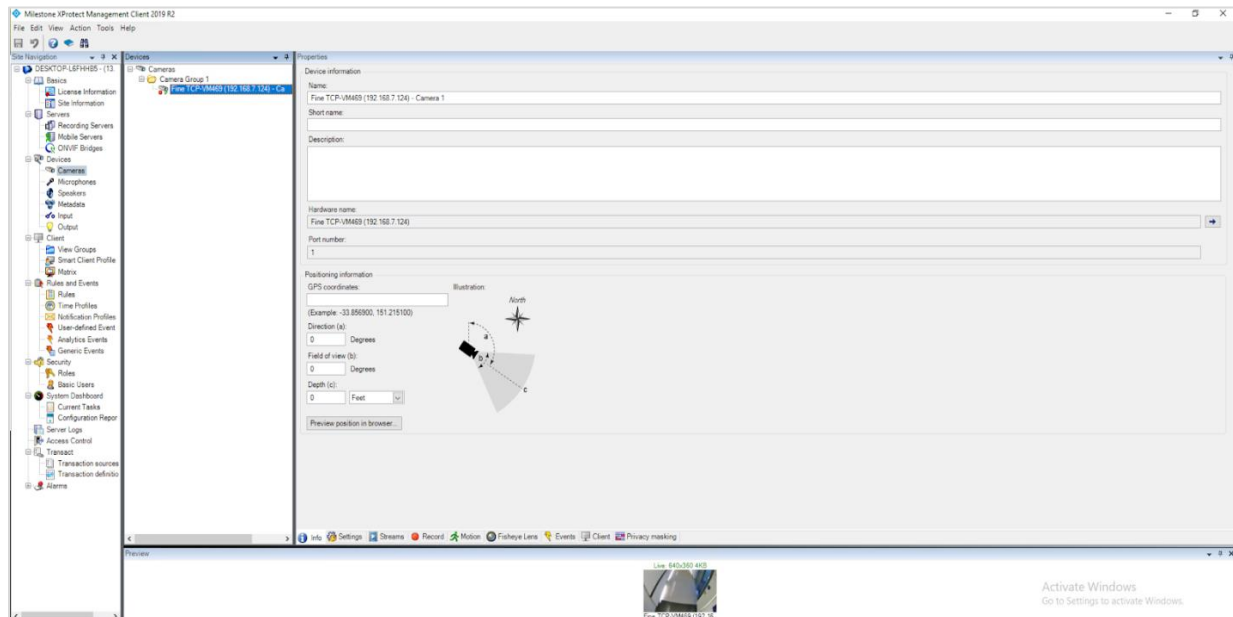
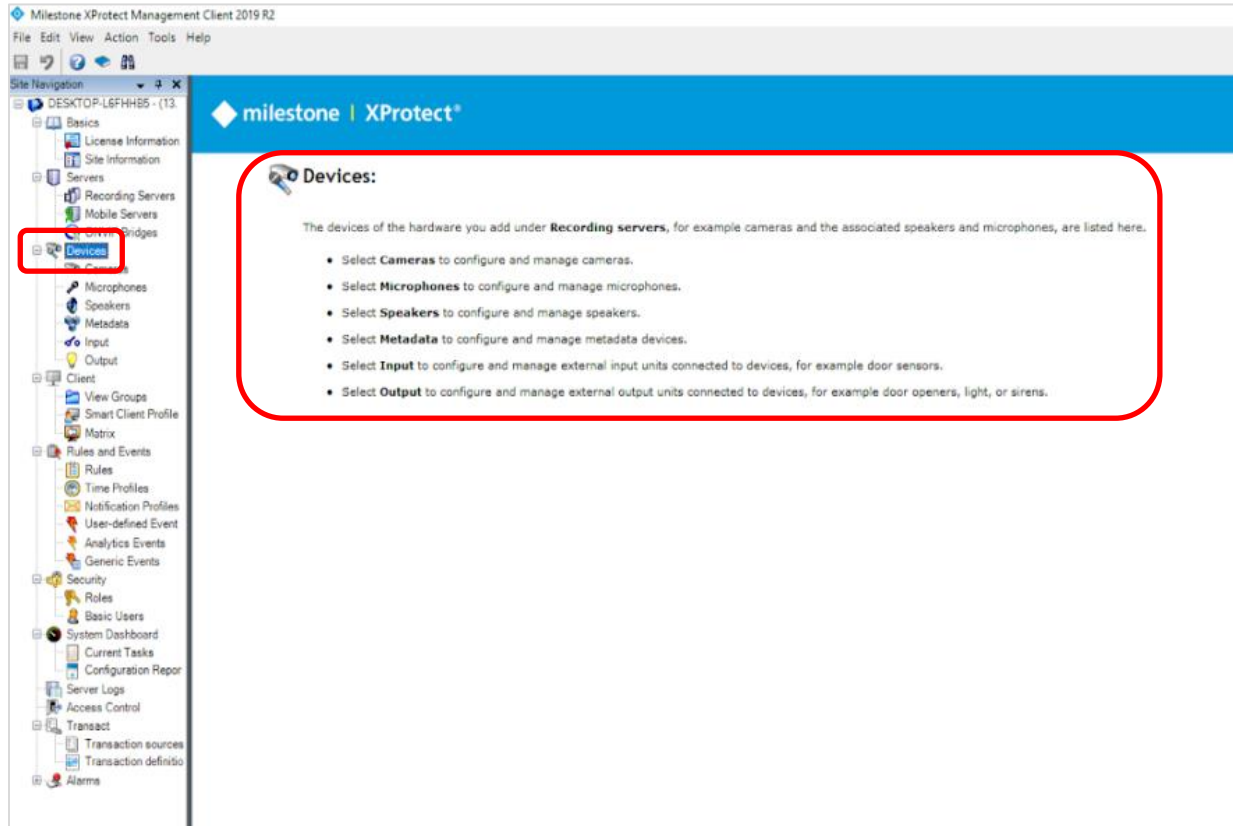
3. Under *Site Navigation*, go to **Basics**. Follow the instructions to activate your license.



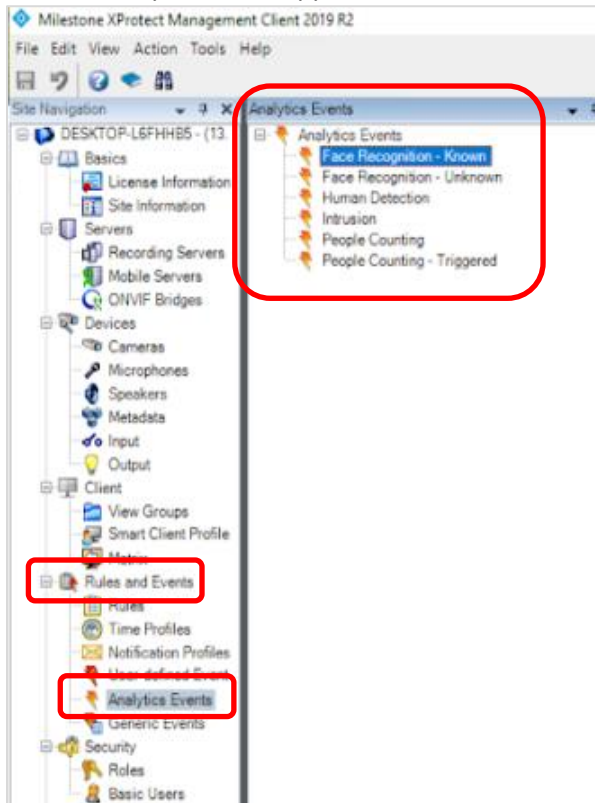
4. Under *Site Navigation*, go to **Servers**. Follow the instructions to setup Recording Servers.



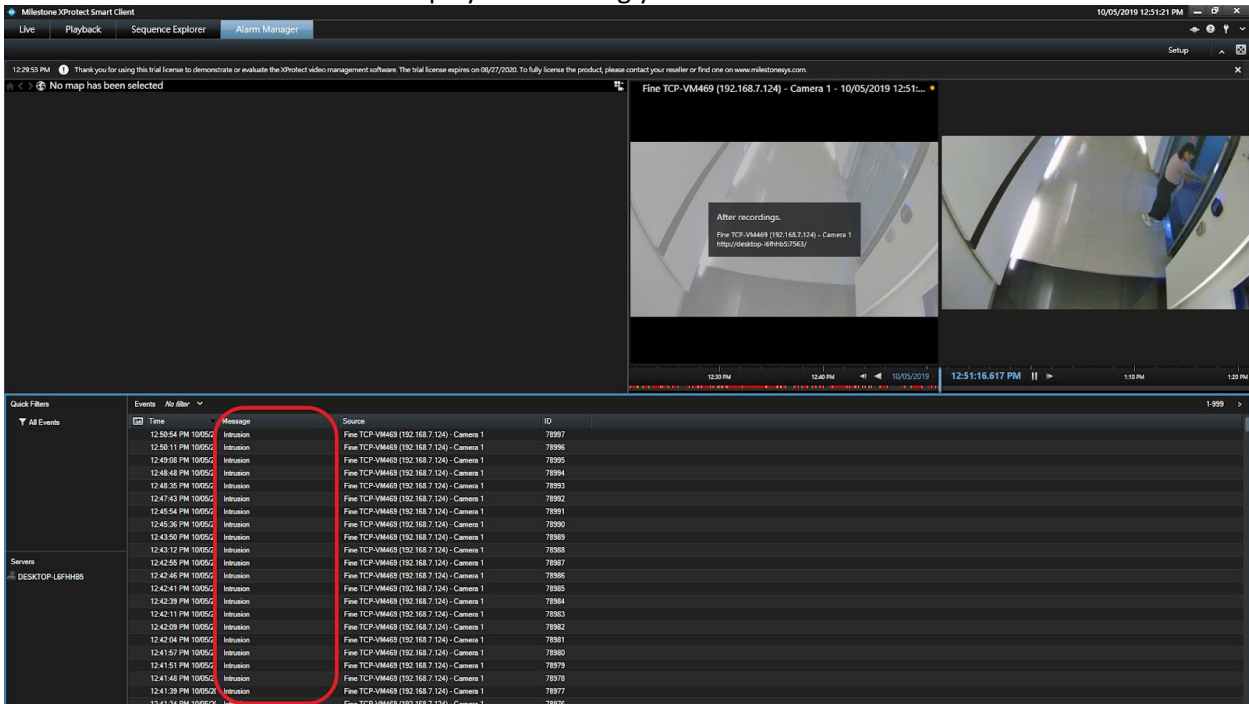
5. Go to **Devices**. Follow the instructions to setup Cameras.



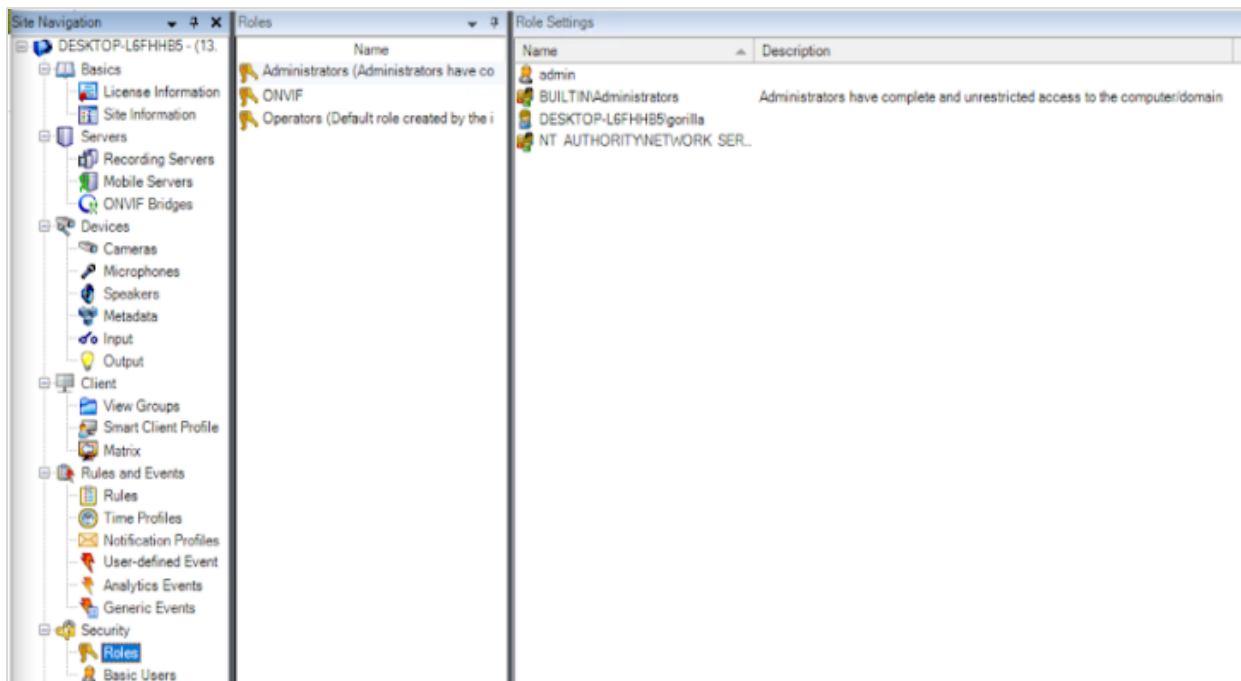
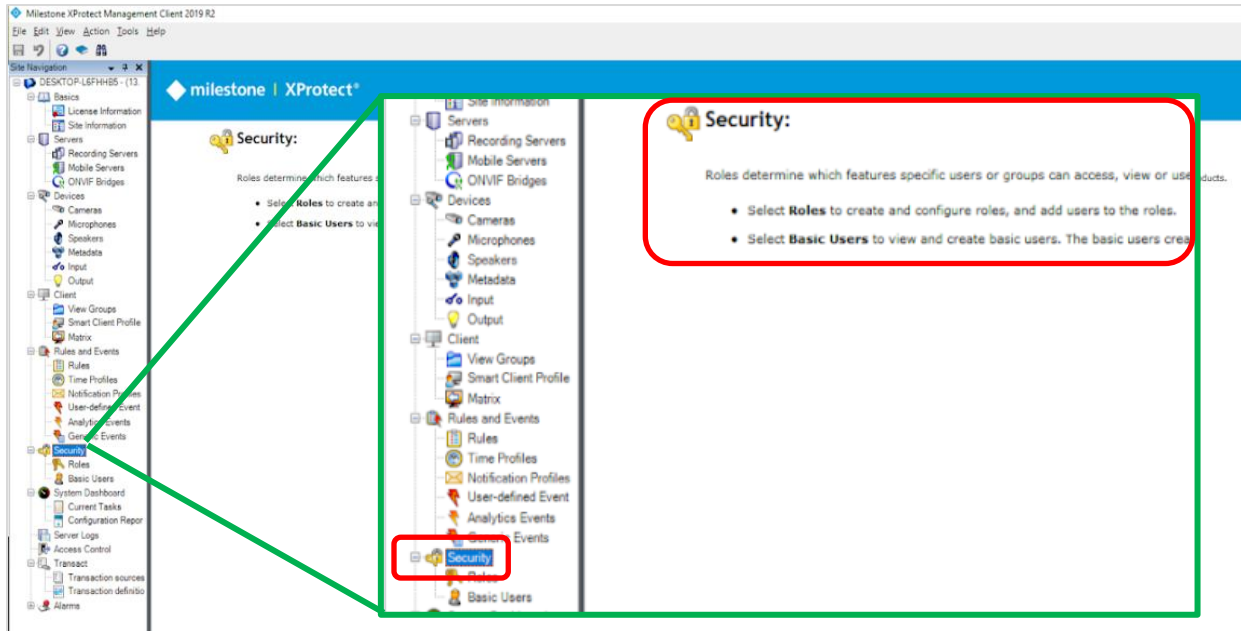
6. Go to **Rules and Events**. Follow the instructions to setup **Analytics Events**. The event names setup here will appear on the XProtect Smart Client Alarm Manager event list.



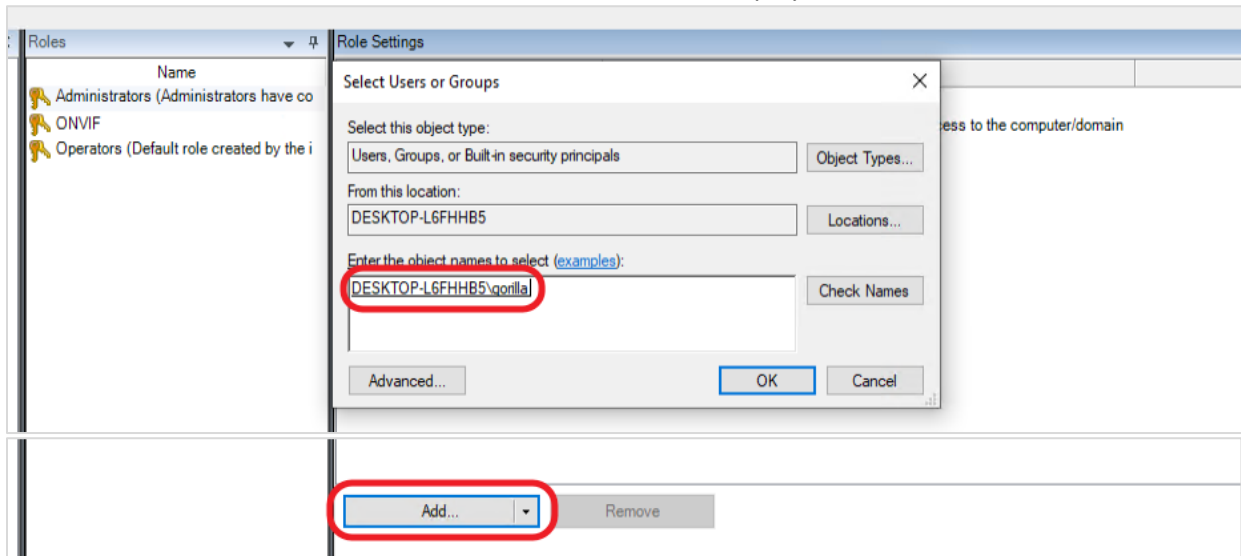
7. The event names will be displayed accordingly on the *Smart Client*.



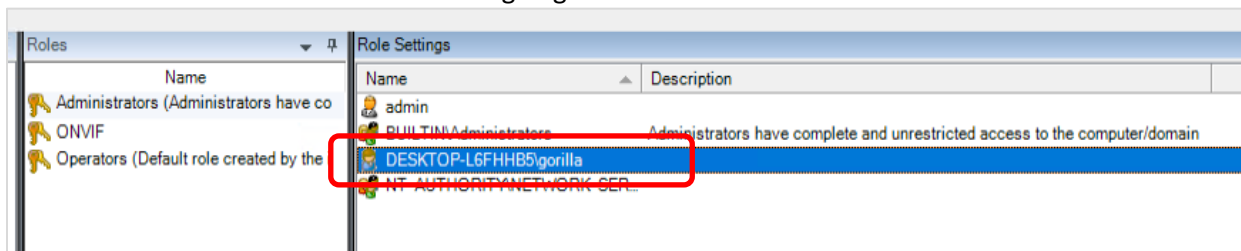
- Go to **Security**. Follow the instructions to setup Smart Client users in the Roles. When the Smart Client is not deployed on the XProtect Server, you can only use AD accounts of the server domain or the Windows user accounts to log on the XProtect Server.



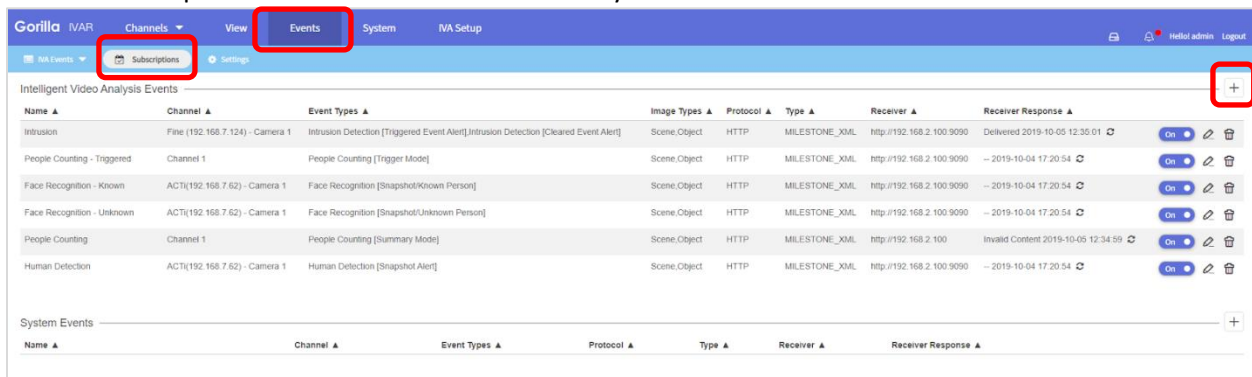
- For example, click **Add**. Input a Windows username in the field **Enter the object names to select**. Click **Check Names**. A valid username will be displayed. Click **OK** to add the user.



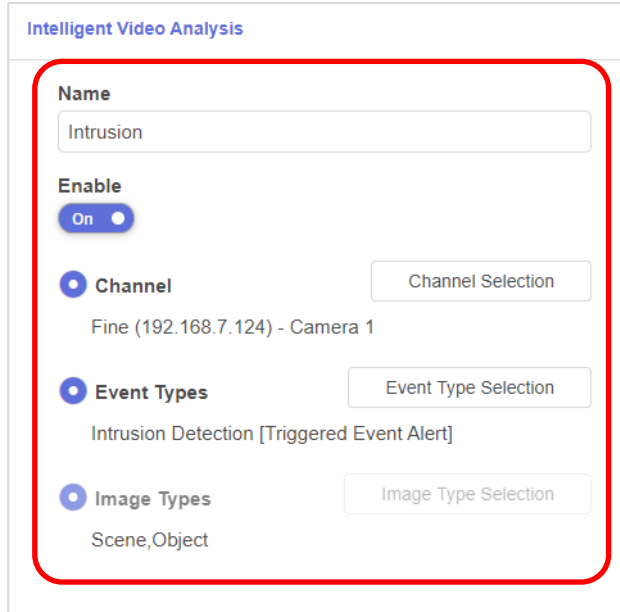
- This is the username that we are going to use in the *Smart Client*.



- Log in to your IVAR account. Select **Events > Subscriptions**. Click on the **+** icon to create a subscription task for each IVA event which you want to deliver to the XProtect Server.



12. A pop-up window will appear. Enter a **Name** for the subscription. Toggle the **Enable** button to **On**. Select a **Channel** for *Intrusion IVA*. Select the **Event Type** “*Intrusion Detection [Triggered Event Alert]*”. Select the **Image Types** that you want to deliver to the XProtect Server.



Intelligent Video Analysis

Name
Intrusion

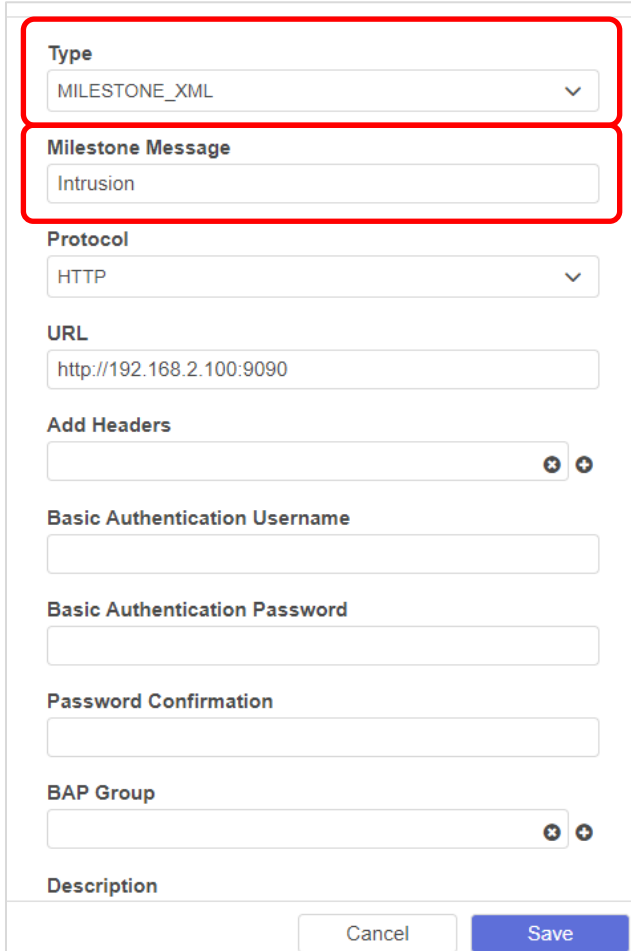
Enable
On

Channel Channel Selection
Fine (192.168.7.124) - Camera 1

Event Types Event Type Selection
Intrusion Detection [Triggered Event Alert]

Image Types Image Type Selection
Scene, Object

13. Under *Type*, select **MILESTONE_XML**. Use the event name created from **Step 6** to fill out *Milestone Message*. In this example, we use the analytic event name ‘Intrusion’.



Type
MILESTONE_XML

Milestone Message
Intrusion

Protocol
HTTP

URL
http://192.168.2.100:9090

Add Headers

Basic Authentication Username

Basic Authentication Password

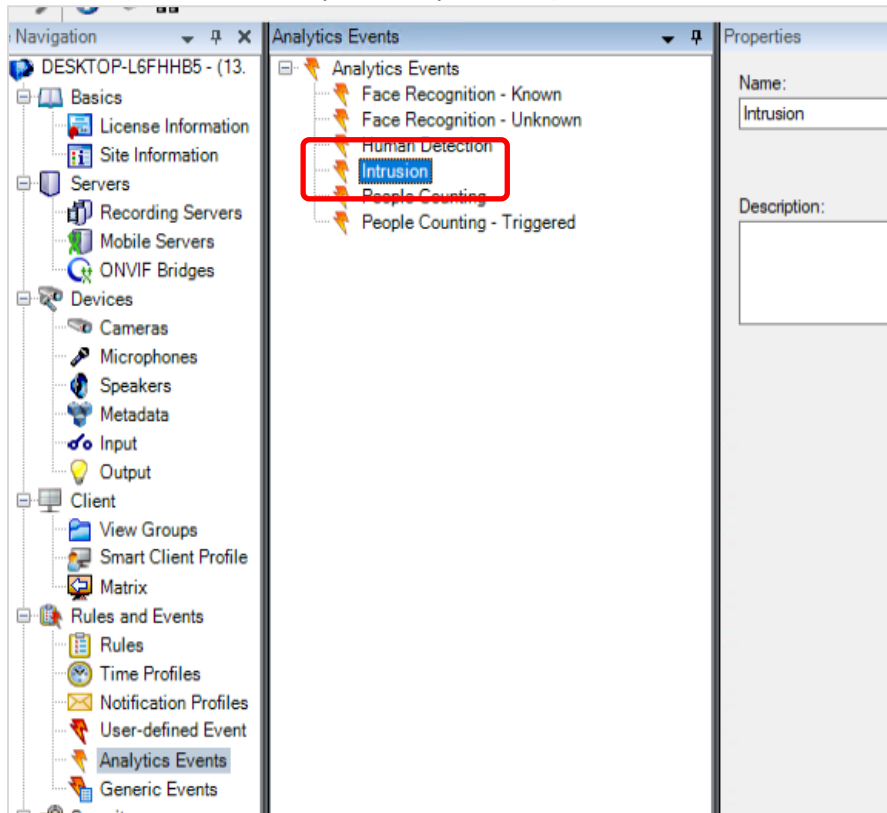
Password Confirmation

BAP Group

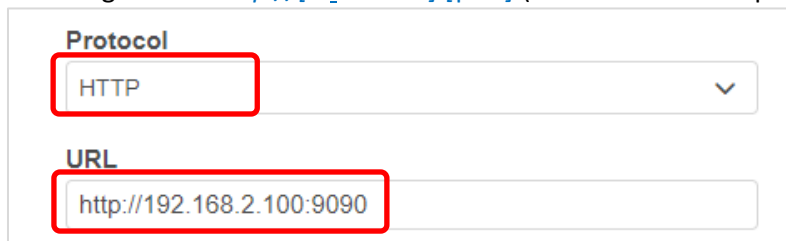
Description

Cancel Save

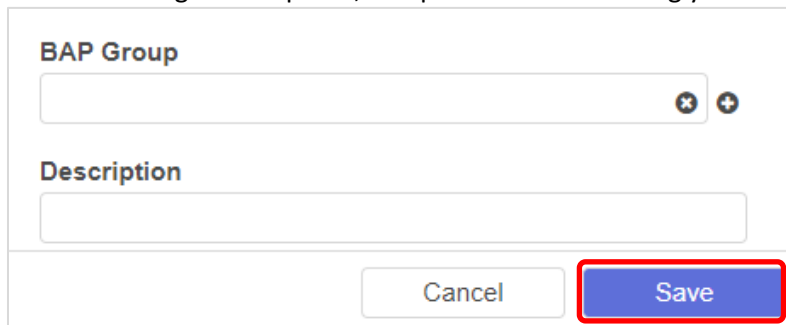
14. Return to Xprotect Manager. Under *Rules and Events*, select **Analytics Events** and then **Intrusion**.(ie- the name of your Analytic Event)



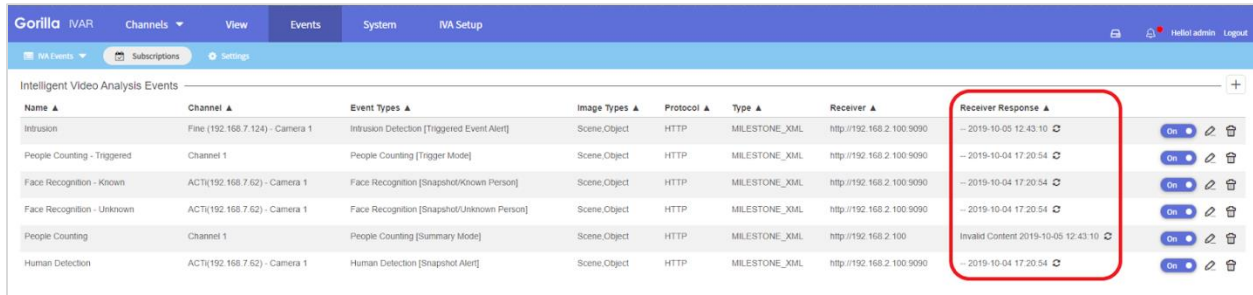
15. Return to IVAR. Under *Protocol* select **HTTP**. Under **URL**, type in the XProtect server with the following format: [http://\[IP_address\]:\[port\]](http://[IP_address]:[port]) (The default server port is 9090.)



16. If other settings are required, setup each item accordingly. Select **Save** to complete.

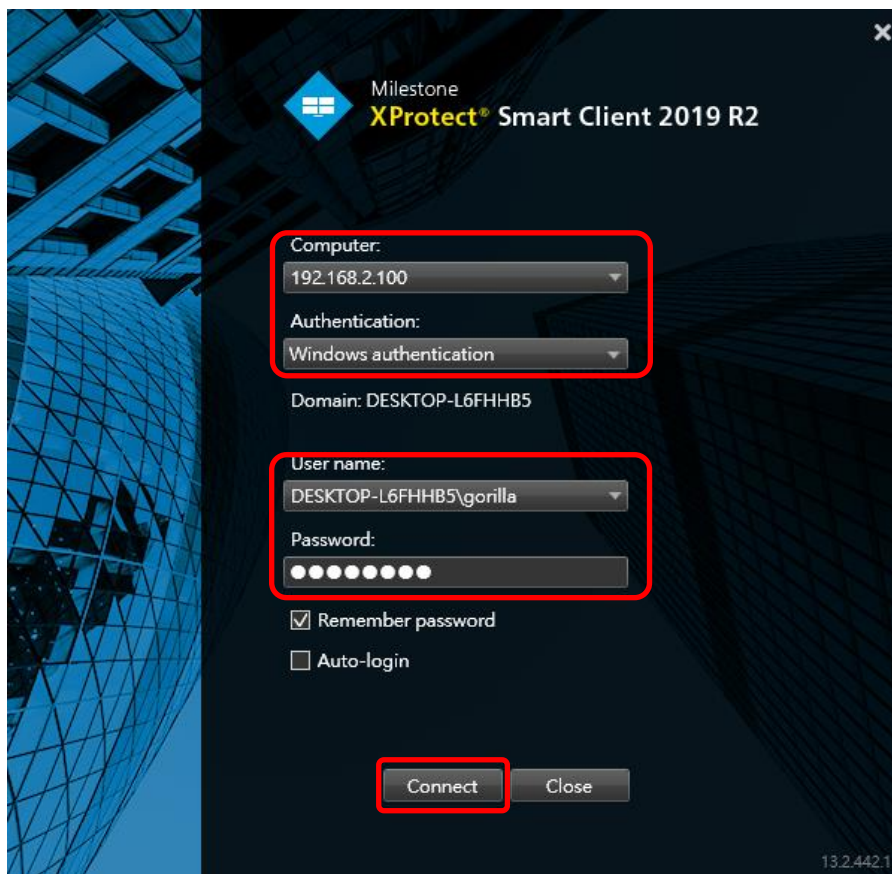


17. Return to the *Events > Subscriptions* page. Check the connection and status of the subscription. Event subscriptions are delivered successfully when the connections are error free.



Name	Channel	Event Types	Image Types	Protocol	Type	Receiver	Receiver Response
Intrusion	File (192.168.7.124) - Camera 1	Intrusion Detection [Triggered Event Alert]	Scene.Object	HTTP	MILESTONE_XML	http://192.168.2.100:9090	--2019-10-05 12:43:10
People Counting - Triggered	Channel 1	People Counting [Trigger Mode]	Scene.Object	HTTP	MILESTONE_XML	http://192.168.2.100:9090	--2019-10-04 17:20:54
Face Recognition - Known	ACT(192.168.7.62) - Camera 1	Face Recognition [Snapshot/Known Person]	Scene.Object	HTTP	MILESTONE_XML	http://192.168.2.100:9090	--2019-10-04 17:20:54
Face Recognition - Unknown	ACT(192.168.7.62) - Camera 1	Face Recognition [Snapshot/Unknown Person]	Scene.Object	HTTP	MILESTONE_XML	http://192.168.2.100:9090	--2019-10-04 17:20:54
People Counting	Channel 1	People Counting [Summary Mode]	Scene.Object	HTTP	MILESTONE_XML	http://192.168.2.100	Invalid Content 2019-10-05 12:43:10
Human Detection	ACT(192.168.7.62) - Camera 1	Human Detection [Snapshot Alert]	Scene.Object	HTTP	MILESTONE_XML	http://192.168.2.100:9090	--2019-10-04 17:20:54

18. Open the XProtect Smart Client. Under *Computer*, select the server IP address. Under *Authentication*, select **Windows authentication**. Enter the *User name* (Use the format of [domain name]\[username]. See example below.) Enter the *Password*. Select **Connect**.



Milestone
XProtect® Smart Client 2019 R2

Computer:
192.168.2.100

Authentication:
Windows authentication

Domain: DESKTOP-L6FH5

User name:
DESKTOP-L6FH5\gorilla

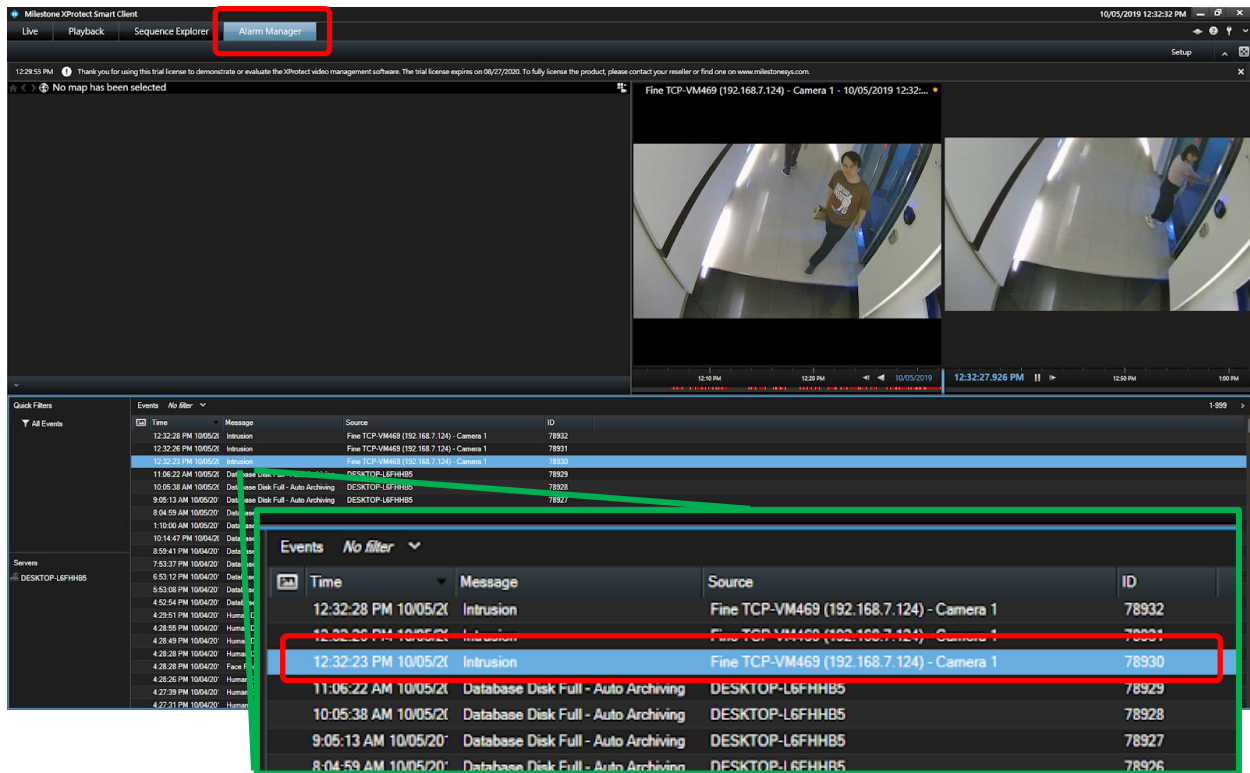
Password:
●●●●●●●●

Remember password
 Auto-login

Connect Close

13.2.442.1

19. Select the **Alarm Manager** tab. Under *Events*, click on the IVAR event name (In this example, 'Intrusion'). Review the event details and image to ensure success configuration.



The screenshot displays the Milestone XProtect Smart Client interface. The 'Alarm Manager' tab is selected and highlighted with a red box. The main window shows a video feed of a hallway with a person walking. Below the video feed, the 'Events' list is visible, showing a table of events. The event at 12:32:23 PM 10/05/2019, 'Intrusion', is highlighted with a red box. A green box highlights the event details and image area.

Time	Message	Source	ID
12:32:28 PM 10/05/2019	Intrusion	Fine TCP-VM469 (192.168.7.124) - Camera 1	78932
12:32:26 PM 10/05/2019	Intrusion	Fine TCP-VM469 (192.168.7.124) - Camera 1	78931
12:32:23 PM 10/05/2019	Intrusion	Fine TCP-VM469 (192.168.7.124) - Camera 1	78930
11:06:22 AM 10/05/2019	Database Disk Full - Auto Archiving	DESKTOP-L6FHMB5	78929
10:05:38 AM 10/05/2019	Database Disk Full - Auto Archiving	DESKTOP-L6FHMB5	78928
9:05:13 AM 10/05/2019	Database Disk Full - Auto Archiving	DESKTOP-L6FHMB5	78927
8:04:59 AM 10/05/2019	Database Disk Full - Auto Archiving	DESKTOP-L6FHMB5	78926