GORILLA TECHNOLOGY – KNOWLEDGE BASE



TOPIC:	Milestone XProtect Configuration	DOCUMENT CODE:	100.MIL.20191115
HW / SW MANUFACTURER:	All	DATE UPDATED:	Nov 19, 2019
HW MODEL / SW PRODUCT NAME/NUMBER/TYPE:	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 <u>https://www.milestonesys.com/support/resources/download-software/</u>

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+	Updated User Interface	2019/09/24
	 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)	



Milestone Xprotect Configuration

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



 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.

Computer:			•	
Authentica	tion:			
Windows a	uthentication (curre	nt user)	•	
Domain: D	ESKTOP-L6FHHB5			
User name	r.			
DESKTOP	-L6FHHB5\gorilla		¥	
Password:				
Remer	nber password			





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Gonilla Technology 3295 Adams St 94501 Alameda CA United States	1	four current level: Basic			
Winnie Koh Vinton winniekvinton@gorilla-technology.com 0014153415700					
Edit details		Access Milestone Care portal			
End-user license agreement	1	nformation about Milestone Care			
installed Products					
Product Version	Software License Co	de Expiration Date	Milestone Care I	Plus Milestor	e Gare Premium
XProtect Professional+ 2019 R2 Test	M01-C05-132-02-60	4858 8/27/2020	N/A		N/A
License Overview - All sites	License Details - Al Ste	<u> </u>			
License Type	Activated				
Hardware Device	12 out of 25				
License Details - Current Site: DESKTO License Type	P-L6FHHB5 Activated	Changes without activation	In Grace Period	Grace Period Expired	Without License

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Gorilla



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







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



8 7 0 • 8			
Site Navigation - 3 X		Properties	• #
DESKTOP-L6FHHB5 - (13.	E The Cameras	Device information	
B Basics	🗄 🔭 Camera Group 1	Name	
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Site Information			
🗟 🚺 Servers		Shortname	
Recording Servers			
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Q ONVIF Bridges			
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do Input		Hardware name.	
- Q Output		Fine TCP-VM489 (192.168.7.124)	•
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P. Roles			
& Basic Users		Depth (c):	
System Dashboard		0 Feet ~	
Configuration Report			
Server Logs		Preview position in browser	
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🗈 🧏 Alarma			
		😝 ndo 🤣 Settings. 🕎 Sesans 🧧 Record: 📌 Moton: 🔘 Fisheye Lens: 😌 Events 🐺 Client: 🗱 Privacy masking	
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			Activate Windows
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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.



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

Live Playback	Sequence Explorer	Alarm Manager			◆ 0 t ~
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10/05/2019 12:51:21 PM 🗕 🖉 🗙



8. 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.



Site Navigation 👻 🕈 🗙	Roles 🗸 👎	Role Settings	
E DESKTOP-L6FHHB5 - (13.	Name	Name	Description
Basics	Note: Administrators (Administrators have co	2 admin	
- El License Information	NVIF	BUILTIN/Administrators	Administrators have complete and unrestricted access to the computer/domain
Site Information	Noperators (Default role created by the i	DESKTOP-L6FHH85/gorilla	
Servers	·	NT AUTHORITY/NETWORK SER	
- Recording Servers		-	
- 1 Mobile Servers			
ONVIF Bridges			
E 😨 Devices			
- Cameras			
- P Microphones			
- Ø Speakers			
- 🐨 Metadata			
- do Input			
- 🖓 Output			
E Client			
- Smart Client Profile			
Matrix			
Rules and Events			
- 🛅 Rules			
- Time Profiles			
- Notification Profiles			
Analytics Events			
E 🕼 Security			
- P Roles			
Basic Users	1 I	1	



9. 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.

Roles 🗸 🖓	Role Settings		
Name	Select Users or Groups	×	
ONVIF Operators (Default role created by the i	Select this object type: Users, Groups, or Built-in security principals Object Type From this location: DESKTOP-L6FHHB5 Locations. Enter the object names to select (examples):	···	ess to the computer/domain
	DESKTOP-L6FHHB5\qorilla Check Name Advanced OK Cance		
	Add		

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

Roles 🗸 🗸	Role Settings	
Name	Name 🔺 Description	
👫 Administrators (Administrators have co	admin	
NVIF	BUILTINIAdministrators Administrators have complete and unrestricted access to the computer/domain	
Ŗ Operators (Default role created by the	DESKTOP-L6FHHB5\gorilla	
	NT AUTHORITYMETWORK SER	

11.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.

telligent Video Analysis E	Events								-
lame 🛦	Channel A	Event Types 🔺	Image Types 🔺	Protocol A	Туре 🔺	Receiver A	Receiver Response A		
ntrusion	Fine (192.168.7.124) - Camera 1	Intrusion Detection [Triggered Event Alert].Intrusion Detection [Cleared Event Alert]	Scene,Object	HTTP	MILESTONE_XML	http://192.168.2.100.9090	Delivered 2019-10-05 12:35:01 2	On O	0
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 C	On •	0
ace Recognition - Known	ACTI(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 C	01	0
ace Recognition - Unknown	ACTi(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 C	01 0	0
People Counting	Channel 1	People Counting (Summary Mode)	Scene,Object	HTTP	MILESTONE_XML	http://192.168.2.100	Invalid Content 2019-10-05 12:34:59 2	01	0
luman Detection	ACTi(192.168.7.62) - Camera 1	Human Detection [Snapshot Alen]	Scene,Object	HTTP	MILESTONE_XML	http://192.168.2.100.9090	- 2019-10-04 17:20:54 2	On •	0



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.

Name		
Intrusion		
Enable		
On •		
O Channel		Channel Selection
Fine (192.168.7.124) - C	amera 1	
Event Types	E	event Type Selection
Intrusion Detection [Trig	gered Even	it Alert]
O Image Types	In	nage 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		~
MILLSTONE_XML		•
Milestone Message		
Intrusion		
Protocol		
HTTP		~
URL		
http://192.168.2.100:9090		
Add Headers		
		0 0
Basic Authentication Use	rname	
Basic Authentication Pase	sword	
Password Confirmation		
BAP Group		
		0
Description		

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

/ · · · · · · · · · · · · · · · · · · ·		
Navigation 🚽 🕂 🗙	Analytics Events 🗸 🗸	Properties
DESKTOP-L6FHHB5 - (13. Basics License Information Servers Mobile Servers Mobile Servers ONVIF Bridges ONVIF Bridges ONVIF Bridges ONVIF Bridges ONVIF Bridges Cameras Microphones Speakers Metadata Client View Groups Smart Client Profile Smart Client Profile Matrix Rules and Events Notification Profiles User-defined Event Analytics Events Generic Events	Analytics Events Face Recognition - Known Face Recognition - Unknown Human Detection Intrusion Receive Counting People Counting - Triggered	Name: Intrusion Description:

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

Protocol		
HTTP		~
URL		
http://192.168.2.100:9090		

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

BAP Group		
		0
Description		
	Cancel	Save

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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.

🗉 NA Events 👻 💮 Subscrip	tions O Settings							
nteiligent Video Analysis Eve								
ntrusion	Channel ▲ Fine (192 168 7 124) - Camera 1	Event Types Intrusion Detection [Triggered Event Alert]	Image Types A Scene.Object	Protocol A	Type A MILESTONE XML	Receiver ▲ http://192.168.2.100.9090	Receiver Response ▲ - 2019-10-05 12:43:10 ℃	
10 03(01)	Fille (192.100.7.124) - Galilera 1	insestor Detector (higgered Event Herd	ocene,object	mar	MILLOTONL_AML	1100.2.100.2.100.3030	-2010/10/00 12:40:10	On • 0
eople 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 C	On • 0
ace Recognition - Known	ACTI(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 2	0000
ace Recognition - Unknown	ACTi(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 2	01 0
eople 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 C	00 0
luman Detection	ACTi(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 C	On • 0

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	
AND	Computer:	
excel adam	192.168.2.100 🔹	
SAL SIN	Authentication:	
MARKER.	Windows authentication 🚽	
AAAA	Domain: DESKTOP-L6FHHB5	
XAM	User name:	
TXANXA	DESKTOP-L6FHHB5\gorilla	
	Password:	
	•••••	
NNN .	Remember password	
XIXAA	🗌 Auto-login	
XXXX		
TAP!		
TAN	Connect Close	
HU		
All		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.

🔹 Milestone XProtect Smart C	lient				10/05/2019 12:32:32 PM 🗕 🖻 🗙
Live Playback	Sequence Explorer Alarm Manager				+ 0 † ~
					Setup 🔨 🖾
12:29:53 PM () Thank you for	using this trial license to demonstrate or evaluate the XProtect video :	management software. The trial license expires on 08/27/2020. 1	o fully license the product, please contact your reseller o	or find one on www.milestonesys.com.	×
				vi469 (192.168.7.124) - Camera 1 - 10/05/2019 12:32: •	
v	Events No filter ~			12-33-27.926 PM	II № 1238 РМ 100 РМ 1999 >
T Al Eventa	Events no mer +	Source	ID		1000
T All Evenia	12:32:28 PM 10/05/21 Intrusion	Fine TCP-VM469 (192.168.7.124) - Camera 1	78932		
	12:32:26 PM 10/05/21 Intrusion	Fine TCP-VM469 (192 168 7 124) - Camera 1	78931		
	12:32:23 PM 10/05/21 Intrusion	Fine TCP-VM469 (192.168.7.124) - Camera 1	78930		
	11:06:22 AM 10/05/21 Dat base Unix	DESKTOP-LEFHHB5	78929 78928		
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	4.52:54 PM 10/04/20' Datat x 1/0-	32:28 PM 10/05/2(Intrusion		Fine TCP-VM469 (192.168.7.124) - Camera 1	78932
	423.51 PM 1004/20 Plana C				
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	4 28 26 PM 10/04/20: Human			Time (Cf - 416465 (152.165.7.124) - Califera 1	76350
	4-27:39 PM 10/04/20' Human 11:	06:22 AM 10/05/2(Database	Disk Full - Auto Archiving	DESKTOP-L6FHHB5	78929
	4.27:31 PM 1004/20' Human	05:38 AM 10/05/2(Database	Disk Full - Auto Archiving	DESKTOP-L6FHHB5	78928
	9-0	5:13 AM 10/05/201 Database	Disk Full - Auto Archiving	DESKTOP-L6FHHB5	78927
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