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	ion:		2	
Windows a	uthentication (curren	t user) 🔹		
Domain: D	ESKTOP-L6FHHB5			
User name				
DESKTOP	L6FHHB5\gorilla	¥		
Password:				
Remen	iber password			





	Your current level: Basic			
ly.com				
	Access Miestone Care porta	his		
	Information about Milestone (Care		
Software Licer	nse Code Expiration Date	Milestone C	are Plus Milestor	ne Care Premium
2 Test M01-C05-132	1-02-6C4B5B 8/27/2020	N/A		N/A
License Details	- Al Stes			
Activ	valled			
ce 12 ou	it of 25			
e: DESKTOP-L6FHHB5	d Changes without ad	ivation In Grace Per	iod Grace Period	WithoutLicense
	R2 Test M01-C05-132 License Details License Details Ce 12 out te: DESKTOP-L6FHHB5	Access Miestone Care porta Information about Miestone I Software License Code Expiration Date R2 Test M01-C05-132-02-6C4B5B 8/27/2020 License Details - Al Stex Company Street Steel Expiration Date Activated Changes without activated Changes without activated	Access Miestone Care portal Information about Miestone Care Boltware License Code Expiration Date Milestone C R2 Test M01-C05-132-02-6C4858 8/27/2020 N/A License Detais - Al Stes Changes without activated te: DESKTOP-L6FHHB5	Access Miestone Care portal Eformation about Miestone Care portal Eformation about Miestone Care Plus Milestone Care Plus Milestone R2 Test M01-C05-132-02-6C4858 8/27/2020 N/A Locase Detais - Al Stes Changes without actions In Grace Period Grace Period

© 2019 Gorilla Technology Group. All other trademarks are the property of their respective owners. All Rights Reserved. Disclaimer: Specifications are subject to change without notice. While due caution has been exercised in the production of this document, possible errors and omissions are unintentional.

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 9 0 . 4			
Site Navigation - 9 X	Devices + 4	Properties	• 9
DESKTOP-LEFHHB5 - (13.	E Cameras	Device information	
Basics	E 🗁 Camera Group 1	Name	
License Information	Fine TCP-VM469 (192,168,7,124) - Ca	Euro 7/01/04/02 (102.100.7.13). Content 1	
Site Information	and the second se	Print (SEPVINIES) (LISE (ISS.7.1.64) - California I	
G Servers		Shot came	
Recording Servers			
Mobile Servers		Description:	
Q ONVIF Bridges			
B N Devices			
Cameras			
Microphones			
Speakers			
Presadata		Hardware name	
Content		Fine TCP-VM469 (192.150.7.124)	
Cliert		The sector of th	
- View Groups		For number	
Smart Client Profile			
Matrix		Devid a la subservation	
B B Rules and Events		ne	
- Bules		UP3 coordinaes. Initia alon.	
Time Profiles		Nom	
Notification Profiles		(Example - 33.85690), 151.215100)	
- Vser-defined Event		Direction (a)	
Analytics Events		0 Degrees a	
Seneric Events		Field of view (h)	
B 🐗 Security		D Deman	
- Roles		Contraction of the second seco	
Basic Users		Depth (c):	
System Dashboard		0 Feet v	
Current Tasks			
Computation Hepor		Preview position in browser.	
Server Logs			
R* Access Control			
Ur Sal Transact			
Transaction sources			
Alarma			
or Gr Herre			
	< >	🚺 Info 🧐 Settings 🛄 Streams 🧧 Record 🙊 Motion 🥥 Fisheye Lens 👻 Events 💷 Physics masking	
1 1	Preview		• # X
I I		Line 640,350 4KB	
I I			
I I			Activate Windows
I I			
1		Construction of the second s	
		1.00 - 50 ⁻⁴ 09000 (192.00.	

© 2019 Gorilla Technology Group. All other trademarks are the property of their respective owners. All Rights Reserved. Disclaimer: Specifications are subject to change without notice. While due caution has been exercised in the production of this document, possible errors and omissions are unintentional.



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.



🔹 M

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

Live	Playback	Sequence Explorer	Alarm Manager			÷0† ~
						Setup A 🕅
1220 52 054	These out for us	en this trial license to demons	trate or evaluate the Vibraterit video o	management collector. The trial licence emires on 08/27/20	110 To fully lighters the people it places	control or smaller or find can calculate and an
TELESCOPIE -	 Intrict you for the 	ng district for the controls			ato, to taily increase the product, presse	
 A A A A B N 	o map has been	selected			ις Ι	Fine TCP-VM469 (192168.7.124) - Camera 1 - 10/05/2019 12:51: •
						тазли тазли «1 ≪ 10/05/2019 12:51:16.617 РМ > саям заям заям
Quick Filters		Events No filter Y				1999 >
Y All Events		Time 7	Message	Source		
		12:50:54 PM 10/05/2	Intrusion	Fine TCP-VM469 (192.168.7.124) - Camera 1	78997	
		12:50:11 PM 10/05/2	Intrusion	Fine TCP-VM469 (192.168.7.124) - Camera 1	78996	
		12:49:08 PM 10/05/2	Intrusion	Fine TCP-VM469 (192.168.7.124) - Camera 1	78995	
		12:48:48 PM 10/05/2	Intrusion	Fine TCP-VM469 (192.168.7.124) - Carnera 1	78994	
		12.48.35 PM 10/05/2	Intrusion	Fine TCP-VM469 (192 168 7 124) - Camera 1	78993	
		12:47:43 PM 10/05/2	Intrusion	Fine TCP-VM469 (192.168.7.124) - Camera 1	78992	
		12:45:54 PM 10/05/2	Instanton	Fine TCP-VM469 (192 168 7 124) - Camera 1	78991	
		12:45:36 PM 10/05/2	Insusion	Fine TCP-VM469 (192 168 7 124) - Camera 1	76330	
		12:43:50 PM 10/05/2	Intrusion	Fine TCP-VM469 (192.168.7.124) - Camera 1	78969	
Servera		12.42.55 PM 10/05/2	Intrusion	Fine TCP-VM469 (192 168 7 124) - Camera 1	78987	
- DESKTOP I	CUUDE	124246 PM 1005/2	Intension	Fine TCP-VM469 (192 168 7 124) - Camera 1	78986	
DESKIOPIL	arnings	124241 PM 10/05/	Intension	Fine TCP-VM469 (192 168 7 124) - Camera 1	78985	
		12-42-39 PM 10/05/2	Intrusion	Fine TCP-VM469 (192 168 7 124) - Camera 1	78984	
		12:42:11 PM 10/05/2	Intrusion	Fine TCP-VM469 (192.168.7.124) - Camera 1	78983	
		12-42:09 PM 10/05/2	Intrusion			
				Fine TCP-VM469 (192.168.7.124) - Camera 1	78982	
		12.42.04 PM 10/05/2	Intrusion	Fine TCP-VM469 (192.168.7.124) - Camera 1 Fine TCP-VM469 (192.168.7.124) - Camera 1	78982 78981	
		12:42:04 PM 10/05/2 12:41:57 PM 10/05/2	Intrusion Intrusion	Fine TCP-VM469 (192.168.7.124) - Camera 1 Fine TCP-VM469 (192.168.7.124) - Camera 1 Fine TCP-VM469 (192.168.7.124) - Camera 1	78982 78981 78980	
		12:42:04 PM 10:05/2 12:41:57 PM 10:05/2 12:41:51 PM 10:05/2	Intrusion Intrusion Intrusion	Fine TCP-VM469 (192.188.7.124) - Camera 1 Fine TCP-VM469 (192.168.7.124) - Camera 1 Fine TCP-VM469 (192.168.7.124) - Camera 1 Fine TCP-VM469 (192.168.7.124) - Camera 1	78982 78981 78980 78979	
		12:42:04 PM 10/05/2 12:41:57 PM 10/05/2 12:41:51 PM 10/05/2 12:41:48 PM 10/05/2	Intrusion Intrusion Intrusion Intrusion	Fine TCP-VM469 (192:168.7.124) - Camera 1 Fine TCP-VM469 (192:168.7.124) - Camera 1	78982 78961 78990 78979 78978	

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	Number of the second se	2 admin	
- License Information	NVIF	BUILTIN/Administrators	Administrators have complete and unrestricted access to the computer/domain
Site Information	R Operators (Default role created by the i	DESKTOP-L6FHH85/gorilla	
E Servers		M AUTHORITYNETWORK SER.	
- Becording Servers		-	
- 1 Mobile Servers			
Q ONVIF Bridges			
🕀 👽 Devices			
- Cameras			
- P Microphones			
- Ø Speakers			
- 🐨 Metadata			
o Input			
Client			
- Miew Groups			
- Smart Client Profile			
- 🖓 Matrix			
Rules and Events			
- 🔛 Rules			
- Time Profiles			
Notification Profiles			
- Y User-defined Event			
- 📍 Analytics Events			
Generic Events			
Security			
- Koles			
- 🔏 Basic Users			



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	×	
NVIF Operators (Default role created by the i	Select this object type: Users, Groups, or Built-In security principals From this location: DESKTOP-L6FHHB5 Enter the object names to select (examples): DESKTOP-L6FHHB5\confila)	Object Types Locations	ess to the computer/domain
	Advanced OK	Cancel	
	Add 🔹 Remove		

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

Roles 🗸 🗸	tole Settings	
Name	Name 🔺 Description	
👫 Administrators (Administrators have co	admin	
NVIF	BUILTINIAdministrators Administrators have complete and unrestricted access to the computer/domain	
👫 Operators (Default role created by the	R DESKTOP-L6FHHB5\gorilla	
	A NT AUTHORITMNETWORK 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.

Gorilla IVAR Chan	nels 🕶 View E	ivents System IVA Setup						A. Hellol ad	imin Logour
🔲 MA Events 🔻 🔀 Subs	criptions © Settings								
Intelligent Video Analysis E	Events								- +
Name 🔺	Channel 🔺	Event Types 🔺	Image Types 🛦	Protocol A	Type 🔺	Receiver A	Receiver Response A		_
Intrusion	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	08
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 3	On •	08
Face 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	On	08
Face 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	On •	00
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	On	0.0
Human 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 8
System Events									-+
Name 🔺		Channel 🛦 Event Types 🛦 Protocol 🛦	Туре		Receiver A	Receiver Response	•		



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'.

		~
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		

© 2019 Gorilla Technology Group. All other trademarks are the property of their respective owners. All Rights Reserved. Disclaimer: Specifications are subject to change without notice. While due caution has been exercised in the production of this document, possible errors and omissions are unintentional.



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. DESKTOP-L6FHHB5 - (13. Basics License Information Site Information Servers Mobile Servers ONVIF Bridges ONVIF Bridges Devices Cameras Microphones Speakers Microphones Speakers Metadata Comput Output Client View Groups Smart Client Profile Matrix Rules and Events Motification Profiles Viser-defined Event Analytics Events Generic Events	Analytics Events Face Recognition - Known Face Recognition - Unknown Human Detection People Counting People Counting - Triggered	Name: Intrusion
Cantonia -		

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		

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

BAP Group		
		0
Description		
	Cancel	Save

© 2019 Gorilla Technology Group. All other trademarks are the property of their respective owners. All Rights Reserved. Disclaimer: Specifications are subject to change without notice. While due caution has been exercised in the production of this document, possible errors and omissions are unintentional.



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.

Gorilla NAR Channels	 View Events 	System IVA Setup	· · · · · · · ·				6) 의 Helioladmin Logout
🔲 MAlevents 👻 💮 Subscriptions	• Settings							
Intelligent Video Analysis Events								+
Name 🛦	Channel 🛦	Event Types 🔺	Image Types 🔺	Protocol A	Туре 🔺	Receiver A	Receiver Response 🔺	
Intrusion	Fine (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 2	01028
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	000 0 8
Face 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	000 2 8
Face 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	000 2 8
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 2	000 e 8
Human 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 2	000 0 8

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.

		×
	Wilestone XProtect [®] Smart Client 2019 R2	
ATA	Computer:	
and a low all and	192.168.2.100	
AN. WO	Authentication:	
SARAN	Windows authentication 🔹	
AAA	Domain: DESKTOP-L6FHHB5	
XALAX	User name:	
	DESKTOP-L6FHHB5\gorilla	
	Password:	
	•••••	
	Remember password	
XXXX	🗌 Auto-login	
XAA/		
	Connect Close	
111		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	Client				10/05/2019 12:32:32 PM 🗕 💌 🗶
Live Playback	Sequence Explorer Alarm Manage				÷01 \
					Setup 🔨 🔀
122953 PM 🕕 Thankyou fo	r using this trial license to demonstrate or evaluate the XPro	otect video management software. The trial license expires on 08/27/2020. To	fully license the product, please contact your reseller o	r find one on www.milestonepys.com.	
🔿 🗇 🤁 No map has be	en selected		Fine TCP-VM	1469 (192.168.7.124) - Camera 1 - 10/05/2019 12:32: •	
Quick Filters ▼ All Events	Events Mo Stor ✓ Imme Message 12:22:28 PM 1005:02 intrusion	Source Feer TCT+18469 (192:163.7120) - Camera 1	10 79932	นะไทม ขอสมม ≪ 1005/2019 12-32-27.926 PM II №	12387м/ 1897м/ 1999 >
	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 11:06:22 AM 10/05/21 Dat. Mile Long Long	Fine TCP-VM469 (192.168.7.124) - Camera 1 DESKTOP-I SEMIRS	78930		
	10.05/38 AM 10/05/21 Det ase Disk Full - Au	uto Archiving DESKTOP-L6FHHIBS	78928		
	9:05:13 AM 10/05/20' Data ase Disk Full - Au	uto Archiving DESKTOP-L6FHHB5	78927		
	8.04.59 AM 10.05/20' Data ass 1:10:00 AM 10.05/20' Data ass				
	10:14:47 PM 10:04/2L Data ask	ante No filler V			
Servers	2-53-37 PM 10/04/20' Data ter	ents no mer			
DESKTOP-L6FHHB5	6.53.12 PM 10/04/20' Datal 😽 🔝	Time Message		Source	ID
	5.53:08 PM 10/04/20' Datat at 4.52:54 PM 10/04/20' Datat st			5 - TOD 101/00 (100 100 7 100) 0 1	70000
	4:29:51 PM 10/04/20' Huma C	12:32:28 PM 10/05/20 Intrusion		Fine TCP-VM469 (192.168.7.124) - Camera 1	/8932
	4.28:55 PM 10:04/20' Huma D 4.28:49 PM 10:04/20' Huma D	12.02.20 PH 10/05/20 Incodes		File TOP 101100 (102.100.7.124) Callor 1	70001
	4:28:28 PM 10/04/20' Humar 0	12:32:23 PM 10/05/2(Intrusion		Fine TCP-VM469 (192 168 7 124) - Camera 1	78930
	4.28:26 PM 10/04/20 Face F C 4:28:26 PM 10/04/20 Humar				
	4.27:39 PM 10/04/20' Human	TT:06:22 AM T0/05/20 Database L	Jisk Full - Auto Archiving	DESKTOP-L6FHHB5	/8929
		10:05:38 AM 10/05/2(Database [Disk Full - Auto Archiving	DESKTOP-L6FHHB5	78928
		9:05:13 AM 10/05/201 Database I	Disk Full - Auto Archiving	DESKTOP-L6FHHB5	78927
		8:04:59 AM 10/05/201 Database [Disk Full - Auto Archiving	DESKTOP-I 6EHHB5	78926