Operating Instructions i-PRO Maximizer

Contents

1. INTRODUCTION	2
1.1. FEATURES	2
1.2. PREFACE	3
1.3. SYSTEM OVERVIEW	4
2. INSTALL / SETUP OF PLUG-IN FOR XPROTECT	5
2.1. INSTALL OF PLUG-IN FOR XPROTECT RECORDING SEVER	5
2.2. INSTALL OF PLUG-IN FOR XPROTECT CLIENTS AND EVENT SERVER	6
2.3. INSTALL WHEN REPLACING OLD PLUG-IN	8
2.4. CONNECTION TO XPROTECT FROM i-PRO MAXIMIZER SERVICE	9
2.5. i-PRO MAXIMIZER SERVICE LISTENING TCP PORT	11
3. i-PRO MAXIMIZER PLUG-IN	17
3.1. START UP AND TERMINATE PLUG-IN	17
3.1.1. START UP PLUG-IN	17
3.1.2. START THE I-PRO MAXIMIZER SERVICE	18
3.1.3. STOP THE I-PRO MAXIMIZER SERVICE	18
3.2. XPROTECT MANAGEMENT CLIENT	19
3.2.1. UI COMPONENT	19
3.2.2. OVERVIEW	19
3.2.3. CAMERA LIST	
3.2.4. CAMERA OR GROUP SELECTION	
3.2.5. AVAILABLE ACTIONS	
3.2.6. CONFIGURE COMMANDS	25
3.2.7. ROLES CONFIGURATION (new for v1.2.0)	
3.2.8. UPDATE ALARM SENDING ON ALL CAMERAS	27
3.2.9. CUSTOM EVENT MAPPING	
3.2.10. TRIGGERING EVENT FOR RULES AND ALARM DEFINITIONS	
3.3. XPROTECT SMART CLIENT	
3.3.1. i-PRO EXTENDED ACTIONS	
3.3.2. 3D DEWARP FOR 360-DEGREE FISHEYE CAMERA (NEW FOR v1.2.0)	
3.3.3. ALARM MANAGER	
4. DOWNLOAD LINKS	
4.1. CHANGE LOG	
5. TROUBLESHOOTING	

1. INTRODUCTION

1.1. FEATURES

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1.1.D Abbreviations

These are descriptions of the basic terms used in these operating instructions.

Microsoft® Windows® is described as Windows.

Milestone® XProtect® is described as XProtect.

1.1.E Disclaimer of warranty

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(6) LOSS OF REGISTERED DATA CAUSED BY ANY FAILURE (INCLUDING INITIALIZATION OF THE PRODUCT DUE TO FORGOTTEN AUTHENTICATION INFORMATION SUCH AS A USERNAME AND PASSWORD).

(7) ANY PROBLEM, DAMAGE OR COMPLAINT CAUSED BY THE OPERATION BY A MALICIOUS THIRD PARTY.

1.2. PREFACE

This operating manual is for the dashboard function of i-PRO Maximizer.

i-PRO Maximizer is the plug-in software for Milestone XProtect; this allows an operator to enable and disable camera functions from the XProtect Management Client for use in the XProtect Smart Client.

Installation of i-PRO cameras is required before the plugin is used.



This version of the i-PRO Maximizer is for All-in-One XProtect installations or XProtect installations where only one server is used for i-PRO cameras. The next software release will support further XProtect installation types, including multiple XProtect Recording Servers.

1.3. SYSTEM OVERVIEW

i-PRO devices are connected to the XProtect Recording Server as normal.

The i-PRO Maximizer plugin is installed on the XProtect Management Server and XProtect Management Client. This plugin uses the XProtect Event Server to communicate with XProtect via the MIP SDK Framework.

The i-PRO Maximizer service is installed on the server with the XProtect Management Server and is connected to the XProtect Event Server. This provided two-way communication with i-PRO devices.

The i-PRO Maximizer plugin is installed on workstations with the XProtect Smart Client. This plugin connects to the XProtect Event Server to trigger actions via the i-PRO Maximizer Service.



2. INSTALL / SETUP OF PLUG-IN FOR XPROTECT

2.1. INSTALL OF PLUG-IN FOR XPROTECT RECORDING SEVER

Run the Maximizer Service for XProtect installer on the Windows machine with the XProtect Recording service installed. This service is used to receive messages from the i-PRO cameras related to this plugin.



률 i-PRO Maximizer Service — 🗆 🗙	iPRO Maximizer Service - 🛛 🗙
Welcome to the i-PRO Maximizer Service Setup Wizard	License Agreement HirPRO
The installer will guide you through the steps required to install i-PRO Maximizer Service on your computer.	Please take a moment to read the license agreement now. If you accept the terms below, click "I Agree", then "Next". Otherwise click "Cancel".
WARNING: This computer program is protected by copyright law and international treaties. Unauthorized duplication or distribution of this program, or any portion of it, may result in severe civil or criminal penalties, and will be prosecuted to the maximum extent possible under the law.	IDo Not Agree
< Back Next > Cancel	< <u>Back</u> <u>N</u> ext > Cancel
m	m
🗊 i-PRO Maximizer Service — X	if# i-PRO Maximizer Service ー 〇 ×
Select Installation Folder	Confirm Installation ::::PRO
The installer will install i-PRO Maximizer Service to the following folder.	The installer is ready to install i-PRO Maximizer Service on your computer.
To install in this folder, click "Next". To install to a different folder, enter it below or click "Browse".	Click "Next" to start the installation.
Eolder: C:\Program Files\i-PRO\i-PRO Maximizer Service\ Browse	
Disk Cost	
Install i-PRO Maximizer Service for yourself, or for anyone who uses this computer:	
• Everyone	
⊖ Just <u>m</u> e	
< Back Next > Cancel	<back next=""> Cancel</back>



2.2. INSTALL OF PLUG-IN FOR XPROTECT CLIENTS AND EVENT SERVER

Run the Maximizer Plugins for XProtect installer on the Windows machine with the XProtect Event service installed. Install as required on a Windows machine with the XProtect Management Client for Maximizer settings or the Smart Client to access Maximizer search. When prompted restart the XProtect Event service.



률 i-PRO Maximizer Plugin for XProtect	_		\times	💕 i-PRO Maximizer Plugin for XProtect – 🗆 🗙
Select Installation Folder		i·P	RO	Confirm Installation ::::PRC
The installer will install i-PRO Maximizer Plugin for XProtect to the	e followii	ng folder.		The installer is ready to install i-PRO Maximizer Plugin for XProtect on your computer.
To install in this folder, click "Next". To install to a different folder, "Browse".	enter it k	below or o	olick	Click "Next" to start the installation.
Eolder:				
C:\Program Files\Milestone\MIPPlugins\i-PRO\Maximizer\		Browse.		
		<u>D</u> isk Cost	t	
Install i-PRO Maximizer Plugin for XProtect for yourself, or for any computer:	yone who	uses this	:	
• Everyone				
⊖ Just <u>m</u> e				
< Back Nex	t>	Can	cel	< <u>B</u> ack <u>N</u> ext > Cancel
🞲 i-PRO Maximizer Plugin for XProtect	_		×	
Installation Complete		i·P	RO	
i-PRO Maximizer Plugin for XProtect has been successfully insta	lled.			
Click "Close" to exit.				
Please use Windows Update to check for any critical updates to	the .NET	Framew	ork.	

Depending on what is installed and running you may receive some of these prompts. To finish the installation press Yes to close or restart the relevant program or service.

<u>C</u>lose

Cancel

<<u>B</u>ack

Close Milestone Smart Client?	_		\times	Close Milestor	ne Management C	lient?	_		\times
We need to stop the Milestone Smart Client process to complete the installation. Any unsaved data will be lost. Continue?			We need t to comple	to stop the Mil ete the installa	estone Managen tion. Any unsave Continue?	nent Clier d data wi	nt proce: Il be los	ss t.	
Yes		No		Yes	3			No	
Restart Event Server?	_		×						
This plugin requires an Event Server service restart. Would you like us to restart it for you now?									
Yes		No							

2.3. INSTALL WHEN REPLACING OLD PLUG-IN

Either uninstall the plugin from Add or Remove Programs.

i-PRO Maximizer Plugin for XProtect		i-PRO	07/09/2023	12.9 MB	0.9.83
i-PRO Maximizer Service	Uninstall	lO	07/09/2023	165 MB	0.9.83
	Change				
	Repair				

When updating, uninstall both components of the i-PRO maximizer plugin first, before the new installation is started.

Alternatively Run the new Maximizer Plugin for XProtect installer on the Windows machine with the plugin already installed. The installer will prompt to remove the plugin. Once removed re-run the installer to install the updated version.



Configuration changes from the previous plugin will be saved for the new plugin when uninstalled.

2.4. CONNECTION TO XPROTECT FROM i-PRO MAXIMIZER SERVICE

As Default the i-PRO Maxzimizer service will connect to XProtect with the <u>NETWORK SERVICE</u>. This would work for an all-in-one XProtect installation running with the <u>NETWORK SERVICE</u>. For installations where the XProtect Recording Server is sperate from the XProtect Management Server the i-PRO service account will need to be updated, or a XProtect Basic User Account will need to be used.

To use a XProtect Basic user account as the i-PRO Maximizer Service login. Start by creating a new Basic User Account from the XProtect Management Client. Site Navigation > Security > Basic User.



Add a <u>User name</u> of your choosing plus a complex password for the account and ensure that the <u>Status</u> is set to Enabled and <u>Force Basic User to change password on next login</u> is unticked.



Adding the password to the description can be useful for administration, however, offers a lower level of security on larger systems.

New Basic User	×
User name: i-pro	
Description:	
uKJpGm95wee#AZU*	^
	~
Password:	
•••••	
Repeat password:	
•••••	
Force Basic User to end of the second sec	change password on next login
Status: Enabled V	
	OK Cancel

Add this new Basic User account to a role, Site Navigation > Security > Roles.



Select Users and Groups. We recommend the Administrators Role, however depending on the site configuration may require a customized role. This being the case, provide a role with access to all i-PRO devices and XProtect servers that are required to be visible to the i-PRO Maximizer Service.

Select Add.. Basic User, find the relevant account and tick to add to the Role.

Roles 👻 🕈	Role Settings	• #
Name	Name 🔺	Description
Administrators (Administrator	B DESKTOP-4D072EK\	
Operators (Default role create	NT AUTHORITY/NET	Select Basic Users to add to Role X
	<pre>& orbnet</pre>	Select user:
		Select Name
		✓ i-pro
	Windows user	
	Basic user	
	Add 🖃 F	New
		OK Cancel
	🗊 Info 🦸 Users and Group	s 😫 External IDP 🗈 Overall Security 🔍 Device 🕸 PTZ < 🔸

On the XProtect Recording Server with the Maximizer Service installed. Find the system tray icon for the service.



Right click and Stop the i-Pro Maximizer service from the system tray icon.



XProtect Basic User Account

From the window that follows see XProtect Connection Settings. When Log in with Windows account is set to True the XProtect Basic User input are greyed out.

	Maximizer Service Settings		>
~	Maximizer Service Settings		
~	Listening TCP Port Milestone Connection Settings	8085	
ľ	Log in with Windows account	True	
	Milestone Basic User	1100	
	Milestone Basic User Password		
	Milestone Management Server IP	127.0.0.1	
	Milestone Management Server Port	80	
	Secure Only	False	

Update Log in with Windows account to False and the XProtect User settings will be editable. Add the XProtect Basic User account created.

:::	Maximizer Service Settings		×
~	Maximizer Service Settings Listening TCP Port	8085	
~	Milestone Connection Settings		
	Log in with Windows account	False	
	Milestone Basic User	i-pro	
	Milestone Basic User Password	•••••	
	Milestone Management Server IP	127.0.0.1	
	Milestone Management Server Port	80	
	Secure Only	False	



Secure Only connection is not supported in v1.0.0. This will be supported in future versions.

Restart the i-PRO Maximizer service by selecting Start from the system tray icon.

2.5. i-PRO MAXIMIZER SERVICE LISTENING TCP PORT

As specified in the i-PRO Maximizer Service Settings the Listening TCP Port is specified. As default the port is 8085. As this is a listening port the local firewall will need to include a rule for incoming traffic.

This is used for communications between the cameras and the I-PRO Maximizer Service.

If required this port can be changed to another port number, however, follow steps in <u>3.2.7. Update alarm</u> sending on all cameras to update the port number so cameras are linked correctly.

ximizer Service Settings		
Maximizer Service Settings		
Listening TCP Port	8085	
Milestone Connection Settings		
Log in with Windows account	True	
Milestone Basic User		
Milestone Basic User Password		
Milestone Management Server IP	127.0.0.1	
Milestone Management Server Port	80	
Secure Only	False	

The following steps shows the process of adding a rule to the Windows Defender Firewall.

Once completed follow the steps in <u>3.2.7. Update alarm sending on all cameras</u> to link the i-PRO devices to the Listening TCP Port.





🔗 Windows Defender Firew	wall with Advanced Secur	ity			_	<
<u>F</u> ile <u>A</u> ction <u>V</u> iew <u>H</u> elp	0					
🗢 🏟 🞽 🖬 🔒 👔						
Windows Defender Firew	all with Inbound Rules			Actions		
Cutbound Rules	New Rule	an/Prox/Sn/	Group	Inbound Rules		•
 Monitoring 	Filter by Profile > Filter by State >	en Network Bridge Server SP Server		 Filter by Profile Filter by State) }
_	Filter by Group > rotect Mobile Server rotect Mobile Server View > rotect Mobile Server - Port 8	rotect Mobile Server rotect Mobile Server rotect Mobile Server - Port 8		Filter by Group		•
Refresh Export List	Refresh Export List	rotect Mobile Server - Port 8		Refresh		-
	Help VideoOSDev VideoOSDev VideoOSEve VideoOSEve VideoOSEve VideoOSRec VideoOSRec VideoOSRec VideoOSRec VideoOSRec VideoOSSen VideoOSSen VideoOSSen VideoOSSen VideoOSSen	gine (8554) In Collector.Service ricePack.DeviceDiscoveryProxy ricePack.ProxySrv nt.Server nt.Server.EventsAndStatusSu nt.Server.Mip order.MediaDbUninstall order.Service order.Service.TrayController order.Service.WebApiPorts ver.Service.TrayController.exe ver.Service.TrayController.exe ver.Service.TrayController.exe		Export List		
New Rule				1		

💣 New Inbound Rule Wizard	·	<
Rule Type		
Select the type of firewall rule to cr	reate.	
Steps:		
Rule Type	What type of rule would you like to create?	
Protocol and Ports		
 Action 	O Program	
Profile	Rule that controls connections for a program.	
Name	Port	
	Rule that controls connections for a TCP or UDP port.	
	O Predefined:	
	@FirewallAPI.dll,-80200 Rule that controls connections for a Windows experience	
	< Back Next > Cancel	

1	New Inbound Rule Wizard		\times		
P	rotocol and Ports				
Sp	pecify the protocols and ports to v	which this rule applies.			
St	eps:				
	Rule Type	Does this rule apply to TCP or UDP?			
۵	Protocol and Ports	● <u>I</u> CP			
•	Action	○ <u>U</u> DP			
٠	Profile				
۲	Name	Does this rule apply to all local ports or specific local ports?			
		Specific local ports: 8085			
		Example: 80, 443, 5000-5010			
		< Pook North Connel			

Action							
Specify the action to be taken when a connection matches the conditions specified in the rule.							
Steps:							
Rule Type	What action should be taken when a connection matches the specified conditions?						
Protocol and Ports	Allow the connection						
Action Profile	This includes connections that are protected with IPsec as well as those are not.						
 Protile Name 	 Allow the connection if it is secure This includes only connections that have been authenticated by using IPsec. Connections will be secured using the settings in IPsec properties and rules in the Connection Security Rule node. Customize 						
	< <u>B</u> ack <u>N</u> ext > Cancel						

Prew Inbound Rule Wizard	×				
💣 New Inbound Rule Wizard X					
Profile					
Specify the profiles for which this rule applies.					
Steps:					
Rule Type When does this rule apply?					
Protocol and Ports					
Action Domain					
Profile Applies when a computer is connected to its corporate domain.					
Name Pivate Applies when a computer is connected to a private network location, such as a home or work place. Public Applies when a computer is connected to a public network location.					

Prew Inbound Rule Wizard X							
N	Name						
2	becity the name and description	r this rule.					
S	leps:						
۲	Rule Type						
۲	Protocol and Ports						
۲	Action						
۲	Profile	Name:					
۲	Name	1PRO Maximizer Service (8085-1CP)					
		Description (optional):	_				
		Listening port for i-PRO Maximizer Service for connections from i-Pro cameras. Service us within Milestone XProtect.	ed				
		i					
		< Back Finish C	ancel				

3. **i-PRO MAXIMIZER PLUG-IN** 3.1. START UP AND TERMINATE PLUG-IN

3.1.1. START UP PLUG-IN

To open plugin, start-up the XProtect Management Client or XProtect Smart Client and first login.

For more detail about the XProtect Management Client or XProtect Smart Client, refer to the Milestone user manual.



From the XProtect Management Client find i-PRO Extended Actions in the Site Navigation under Rules and Events. Plugin operations are run from here.



XProtect Smart Client video tile, tool menu showing interface.



3.1.2. START THE I-PRO MAXIMIZER SERVICE

The service will start automatically with Windows. To change the service state when not running, use the system tray icon menu. Right click and Start.

	i-PRO Maximizer 0.9.83
81	Start
551	Stop
	Settings
	Certificates
	Logs
	Exit
	^ :::

3.1.3. STOP THE I-PRO MAXIMIZER SERVICE

To terminate the i-PRO Maximizer Service, use the system tray icon menu. Right click and Stop.

	i-PRO Maximizer 0.9.83	
331	Start	
H	Stop	
	Settings	
	Certificates	
	Logs	
	Exit	
	^	i

3.2. XPROTECT MANAGEMENT CLIENT 3.2.1. UI COMPONENT

When installed on a workstation or server with the XProtect Management Client i-PRO Maximizer has a new section under Rules and Events; i-PRO Extended Actions.

Mission XProtect Management Clerit 2023 R1 - D X								
File View Action Maintenance Tools Help								
8 9 0 • M								
Site Navigation	Configuration							- 3
ORBSVR-65 - (23.1a)	A B PRO cameras							
Basics	😑 🕋 Another Group	Select a camera or a group	of cameras to enable or disable it	s commands				
License Information	- PRO/Panasonic WV-S61301-Z2 (192.168.1.192) - Camera 1111							^
Site Information		Auto Focus (Fixed)						
Remote Connect Services						O Eastle	O Diashle	C Excludes some summary
Axis One-click Camera Connection	Panasonic WV-S2236L CH - Camera 1	has been a feeling of a second				U Enable	Uisable	 Enabled on some cameras
U Servers	😑 🚞 One Camera	Allo rocus ror ideo carieras						
D Recording Servers	- The IPRO WV-S15500-V3L UK - Camera 1							
Failover Servers	E Second Group							
Mobile Servers		Auto Focus PTZ						
Brac Devices						O Fastle	O Bushla	O Festive services
e Vameras		the form				O brable	U Disable	C Enabled on some cameras
Constant		ALEO TOCUS						
- Metadata								
de land								
- Output		Focus Far (Fixed)						
Client						C Eastle	O Darble	
Smart Wall		Energy Instanting Constanting				O trable	O Disable	C Enabled on some cameras
- Caroups		Pocus far for tixed cameras						
- 🚰 Smart Client Profiles								
Management Client Profiles								
Matrix		Focus Far PTZ						
Rules and Events	and Events					O Post	O Protection	O Frank Law Sector
Rules		Second an				U Enable	Ulsable	 Enabled on some cameras
C Time Profiles		FOCUS INF.						
Notification Profiles								
User-defined Events								
Analytics Events		Focus Near (Fixed)						
Generic Events						OF	OBull	O Faith day and the second
111 DOO Estanded Astronomy		O Enable		U Enable	 Disable 	C Enabled on some cameras		
Carl Control Control Control		Pocus near for fixed cameras						
- Roles								
- Basic Users								
System Dashboard		Focus Near PTZ						
Current Tasks						O Eastle	O Durble	O Feedbal on some service
System Monitor		Transmission (C Enable	U Disable	C Enabled on some cameras
System Monitor Thresholds		rocus near						
- & Evidence Lock								
Configuration Reports								
- Server Logs		Focus Reset (Fixed)						
E 🍄 Metadata Use						O Eastle	O Dirable	C Excluded on some comments
Metadata Search		Density the face of face front experiment				O Enable	O Disable	 Enabled on some cameras
Access Control		Hesets the focus for fixed carriers						
E C Incidents								
incident properties								R
E E Transact		Auto Track						
Transaction sources						O Easter	O Dunkle	C Excitized on some symposi-
I ransaction centritions		Orate in the band in a				U Enable	Usable	 chapied on some cameras
		stats auto vacking						
ORBNET Plugins								
Orb Driver License Settings								
- (3) Privacy Mask Global		Auto Pan						
Privacy Mask License								
(i) . & Alacma	×.	Configure commands	Update aram sending on all cameras	Custom Event Mapping				
Site Navigation Federated Site Hierarchy								

3.2.2. OVERVIEW

This section describes the elements that compose the i-PRO Extended Actions window.

Came	ora List Camera . Group sc / /	or Availabl	le Actions	
Configuration ■ A IV-PRO cameras ■ Arother Group ■ FRO: Panasonic WV-S61301-22 (152.168.1.152) - Camera 1111 ■ FRO: Panasonic WV-S61301-22 (152.168.1.152) - Camera 1111 ■ FRO: Panasonic WV-S61301-22 (152.168.1.152) - Camera 1111 ■ TeRO: Panasonic WV-S61301-22 (152.168.1.152) ■ TeRO: Panasonic WV-S61301-22 (152.168.1.152) - Camera 1111 ■ TeRO: Panasonic WV-S61301-22 (152.168.1.152) - Camera 1111 ■ TeRO: Panasonic WV-S61301-22 (152.168.1.152) - Camera 1111 ■ TeRO: Panasonic WV-S61301-22 (152.168.1.152) ■ TeRO: Panasonic WV-S61301-22 (152.168.1.152) - Camera 1111 ■ TeRO: Panasonic WV-S61301-22 (152.168.1.152) - Camera 1111 ■ TeRO: Panasonic WV-S61301-22 (152.168.1.152) - Camera 1 ■ TeRO: Panasonic WV-S61301-22 (152.168.1.152) ■ TeRO: Panas	FPRO/Panasonic WV-561301-22 (192.168.1.192) - Camera 1111 Auto Focus (Fixed) Auto focus for fixed cameras) Enable	© Daable
Second Group □ Second Group □ Second Group □ Second Group	Auto Focus PTZ Auto focus		Enable	O Daable
	Focus For (Fixed) Focus far for fixed cameras		🔿 Enable	Daable
	Focus Far PTZ Focus far) Enable	Disable

	Focus Reset (Fixed) Resets the focus for fixed cameras) Enable	O Disable	Enabled on some cameras
	Auto Track State auto tracking	O Enable	O Disable	C: Enabled on some cameras
Confi	Auto Pan Configure commands Update alam sending On all camesa Update alam Custom Event Mapping Update alam Custom Event Mapping			
comma	jure upoate alarm Custom Event ands sending on all Mapping cameras			

3.2.3. CAMERA LIST

The visible groups in the camera list are from the camera groups in XProtect. Any groups with i-PRO cameras will display. Only i-PRO cameras will display from each of these groups.

By using these groups i-PRO cameras can be grouped by site, server, location, internal, external and so on.

Using groups allows for actions to be enabled or disabled in bulk.

3.2.4. CAMERA OR GROUP SELECTION

When a camera group or camera device is selected the selection will show in the Camera or Group selection.

3.2.5. AVAILABLE ACTIONS

When a camera device is selected actions available will show as available in the action list. This will be dependent on the support of certain camera models and camera types. The available features for i-PRO Extended Actions and i-PRO Maximizer events depend on the camera models. Detailed specifications for each camera model can be checked on their respective <u>product pages</u>.

3.2.5.1. Focus control for fixed camera

Supported models:

Fixed cameras with varifocal lens.

*Note: This feature is not available on 360-degree fisheye cameras

Auto Focus (Fixed)	ENABLE ALL	DISABLE ALL
Auto focus for fixed compres		
Auto locus for fixed cameras		
Focus Far (Fixed)	ENABLE ALL	DISABLE ALL
		<u>B10/(B22/(22</u>
Forma for for fixed company		
Focus lar for lixed cameras		

Focus Near (Fixed)	ENABLE ALL	DISABLE ALL
Focus near for fixed cameras		
Focus Reset (Fixed)	ENABLE ALL	DISABLE ALL
Resets the focus for fixed cameras		
3.2.5.2. Focus control for F	PIZ camera	
Supported models:		
PTZ cameras (as of Sep 2023 except for d	iscontinued models)	
Auto Focus PTZ	ENABLE ALL	DISABLE ALL
Auto focus		
Focus Far PTZ	ENABLE ALL	DISABLE ALL
Focus for		
Focus Noar PT7		
rocus near riz	LINADLE ALL	DISADLE ALL
Focus near		
3.2.5.3. Auto track		
Supported models:		
PTZ cameras with auto-tracking feature		
Auto Track	ENABLE ALL	DISABLE ALL
Starts auto tracking		
Lock on target and start tracking	<u>ENABLE ALL</u>	DISABLE ALL
Locks on target and starts tracking		
Stop Auto Pan/Tracking	ENABLE ALL	DISABLE ALL
Stops auto pan/tracking		

*Note: Related configuration on the camera is required in advance

3.2.5.4. Auto pan

Supported models:

PTZ cameras (as of Sep 2023 except for discontinued models)

Auto Pan	ENABLE ALL	DISABLE ALL
Starts auto pan		
Stop Auto Pan/Tracking	ENABLE ALL	DISABLE ALL
Stops auto pan/tracking		

3.2.5.5. Change scene file

Supported models:

all i-PRO cameras except for 360-degree fisheye cameras (as of Sep 2023 except for discontinued models.)

Change to scene file 1	ENABLE ALL	DISABLE ALL
Changes the scene file		
Change to scene file 2	ENABLE ALL	DISABLE ALL
Changes the scene file		
Change to scene file 3	ENABLE ALL	DISABLE ALL
Changes the scene file		
Change to scene file 4	ENABLE ALL	DISABLE ALL
Changes the scene file		
Restore Original Settings	ENABLE ALL	DISABLE ALL
Restores the original settings		

*To utilize these features, it is necessary to configure both the image scene file and the schedule to ensure that there is at least one *"Image adjust"* schedule in "Schedule 1,2,3,4 or 5".

Schedule		
Schedules		
	Schedule mode	Image adjust 1 : Daytime 🗸
(White)	Time range	☑ Mon ☑ Tue ☑ Wed ☑ Thu ☑ Fri ☑ Sat ☑ Sun ■ 24h 09♀:00♀ - 17♀:00♀
	Schedule mode	Image adjust 2 : Evening
(Blue)	Time range	☑ Mon ☑ Tue ☑ Wed ☑ Thu ☑ Fri ☑ Sat ☑ Sun ■ 24h 17♀:00♀ - 21♀:00♀
	Schedule mode	VMD permission
(Green)	Time range	☑ Mon ☑ Tue ☑ Wed ☑ Thu ☑ Fri ☑ Sat ☑ Sun ☑ 24h
0.1-11-1	Schedule mode	Off 🗸
Schedule 4 (Red)	Time range	Mon Tue Wed Thu Fri Sat Sun 24h 0051: 0055 - 0055 : 0055
Cabadda E	Schedule mode	Off 🗸
Schedule 5 (Black)	Time range	Mon Tue Wed Thu Fri Sat Sun 24h 1992 : 1992 - 1992 : 1992

In case of multi-directional sensor cameras, scene file will be applied for all channels as camera's specification.

3.2.5.6. Privacy Guard

Supported models:

Cameras which support <u>AI Privacy Guard</u> or <u>AI Privacy Guard for 360-degree fisheye camera</u> application.

Enable Privacy Guard	ENABLE ALL	DISABLE ALL
Enables the privacy guard		
Disable Privacy Guard	ENABLE ALL	DISABLE ALL
Disables the privacy guard		
Restore Privacy Guard	ENABLE ALL	DISABLE ALL
Restores the original settings		

*Note: AI Privacy Guard installation and related configuration on the camera is required in advance.

To use Enable or Disable feature correctly, it is necessary to set the schedule of AI Privacy Guard for *"Time table 1"* to 24-hour (same as default)

Softv	vare mng.		Оре	eratio	n sched			Contro	ol log						
A	Al Privacy Guard 🗸														
Ор	erating day	of we	ek												
Da	y				Mon	Tu	ie	Wed	Thu	Fri	Sat	Sun			
Tin	ne table 1				•	•		•	•	•	•	•			
Tin	ne table 2				•		2	•	•	•	•	•			
Off					•			•	•	•	•	•			
[Tir	me table 1]														
							0:0	0	6:00		12:00		18:00	24:00	Operation content
1	00 🗸 : 0	0 🗸		00 ~	: 00 ~										On 🗸
2	00 🗸 : 0	0 🗸	-	00 🗸	: 00 ~										Off 🗸
3	00 🗸 : 0	0 ~	-	00 ~	: 00 🗸										Off 🗸
4	00 🗸 0	0 🗸	-	00 🗸	00 ~										off 🗸
5	00 🗸 : 0	0 🗸	-	00 ~	00 🗸										off 🗸
6	00 🗸 : 0	0 🗸		00 🗸	: 00 ~										Off 🗸
(Tir	me table 2]														
							0:0	0	6:00		12:00		18:00	24:00	Operation content
1	00 🗸 : 0	0 🗸		00 🗸	: 00 ~										Off 🗸
2	00 🗸 : 0	0 ~	-	00 ~	: 00 ~										Off 🗸
3	00 🗸 0	0 🗸		00 🗸	: 00 ~										Off 🗸
4	00 🗸 : 0	0 ~		00 🗸	: 00 ~										Off 🗸
5	00 🗸 : 0	0 ~		00 ~	: 00 ~										Off 🗸
6	00 🗸 : 0	0 ~		00 🗸	: 00 🗸										Off 🗸

The schedule configuration data on camera is stored on temporary memory when you execute **"Restore Privacy Guard"**. If you close XProtect Smart client before running **"Restore Privacy Guard"**, the original schedule will be lost. In such case, please reconfigure the schedule setting

3.2.5.7. Custom command

Supported models:

it depends on the CGI. You can register the simple control or configuration CGI as shown in this <u>documentation</u>

Note:

To display the registered command in the Actions list of Rules settings, you need to restart both the XProtect Event server and the XProtect Management client.

ENABLE ALL

DISABLE ALL

All custom commands follow the main group of commands.

3.2.6. CONFIGURE COMMANDS

Clicking Configure commands will provide access to the window below. This is where events can be customised if required. Remember these are global events so if this main group of events are changed this will affect all devices with the commands enabled.

Commands are sent to cameras with CGI requests.

Configure camera commands			×
Auto Focus (Fixed)	Ŵ	Name	Auto Focus (Fixed)
Auto Focus PTZ	Ŵ	Description	Auto focus for fixed cameras
Focus Far (Fixed)	Ĩ	Request Path	cgi-bin/back_focus?auto=on
Focus Far PTZ		Display Name Http Method Http Body	Auto POST V
Focus Near (Fixed)	Î		
Focus Near PTZ	Ē	Selected Camera Test	
Focus Reset (Fixed)			
	_	v	
Add Clone Export	Import		OK Cancel

Using the [Add] or [Clone] will add a new custom command at the bottom of the list. These can be used for your own custom events. Custom events can be enabled on one or many cameras just like the standard commands. Example a CGI request could be used to restart a camera device (cgi-bin/initial?cmd=reset).

The Name and Description are relevant for admin purposes only. The Request Path should be a valid CGI request (see i-PRO camera integration information) Example Link.

Display Name (SC) refers to the display name used in the XProtect Smart Client from the i-PRO Maximizer menu.

Methods available [GET], [POST].

It is possible to configure Http Body for POST method. (New for v1.2.0)

[Test/Run] can be pressed to test a command for the selected camera. Confirmation of the event being sent will display to the right. The response just confirms the message has been sent, check the camera to confirm that the command has been executed correctly.

Custom commands are allowed only for Administrator role as default. You can allow it from Roles configuration.

[New for v1.2.0]

[Export] and [Import] another useful when you want to port the same custom commands to another system. Only manually added command can be exported and imported. When importing, duplicate Name is not allowed. After you import you need to select [Selected Camera] and Enable the command.

3.2.7. ROLES CONFIGURATION (new for v1.2.0)

The Roles configuration allows you to configure the commands available to each Role.

Please check if [Read], [Edit] and [Manage] security are checked for [Allow].



It is necessary to restart Management client in advance when custom command is created.

3.2.8. UPDATE ALARM SENDING ON ALL CAMERAS

Alarm sending is required for each i-PRO device to communicate with the i-PRO Maximizer Service. When first setting up, this should be run to connect cameras to the i-PRO Maximizer Service. As default the request path will be updated with the IP address of the machine with the i-PRO Maximizer Service and the TCP Listening Port used (default 8085). If this has been changed or the cameras need to communicate with the server via a different IP address update by clicking Configure commands, find Configure alarm sending. Update the IP address and port in the Request Path.

Configure camera commands			×
Focus Near PTZ	Ŵ	^	
Focus Reset (Fixed)	Ŵ	Name	Configure alam sending
Auto Track	Ŵ	Description	Conligures cameras for alarm senaing
Auto Pan	Ŵ		
Lock on target and start tracking	Ĩ	Request Path	cgi-bin/set?Func=ImageTransfer&MMode=128&MHttpUrI=http://192.168.1.182:8085/pgi-bin/
Stop Auto Pan/Tracking	Ĩ	Display Name (SC)	
Change to scene file 1	Ŵ	Method	GET 🗸
Change to scene file 2	Ŵ		
Change to scene file 3	Ŵ		
Change to scene file 4	Ŵ	Selected Camera	i-PRO WV-S15500-V3L UK - Camera 1
Restore Original Settings	Ŵ	Test/Run	
Enable Privacy Guard	Ŵ		
Disable Privacy Guard	Ŵ		
Restore Privacy Guard	Ŵ		
Configure alarm sending	Ŵ	~	
Add command Clone command			Cancel OK

Below is an example from a camera where the alarm sending is enabled when this alarm is sent.

TCP alarm notification HTTP alarm notification									
HTTP alarm notification	Alarm Diag.								
Address 1 User name Password Notification data	✓ http://192.168.0.102:8095 Delete								

3.2.9. CUSTOM EVENT MAPPING

Where custom events are created on the i-PRO devices, these Alarm IDs can be added within the Custom Event Mappings window. Once added these events a listened for at the i-PRO Maximizer Service and can be used to trigger Rules and Alarms in XProtect.

Use this section to map custom event codes to events that can be received from the cameras. Events with these custom mappings will be triggered on "I-PRO Custom Event". This configuration is global for all cameras. Alarm ID Tag ▶ ■ 399	×				m Event Mappings	Custor			
Alam ID Tag		Use this section to map custom event codes to events that can be received from the cameras. Events with these custom mappings will be triggered on "I-PRO Custom Event". This configuration is global for all cameras.							
▶★ 939				Tag	Alam ID				
					999) m			
Cancel OK	Ж	Cancel OK							

Use i-PRO Custom Event (i-PRO Maximizer Events) in Rules and Alarm Definitions as an event for the triggering event.

Manage Rule					-		×		
Name:	New R	ule 007							
Description:									
Active:	ctive:								
Step 2: Conditions									
Select conditions to apply Within selected time in <time profile=""> Outside selected time in <time profile=""> Within the time period <start time=""> to <end time=""> Day of week is <day> While failover is active While failover is inactive Event is from <window></window></day></end></start></time></time>									
Edit the rule desc Perform an action from <u>I-PRO</u>	ription (clic on <u>i-PRO C</u>	k an underlined item) istom Event (i-PRO Mar	ximizer Eventa)						
Help	1	Cancel	< Back	Next >		Finish	1		

3.2.10. TRIGGERING EVENT FOR RULES AND ALARM DEFINITIONS

From Rules and Events select Rules. Create a new Rule and select event from Perform an action on <u>event</u>. I-PRO Maximizer Events are shown below Other in a new section. Related events can be selected with the relevant i-PRO hardware device as a source. See list of events below.

Customized triggers are also available.



Auto tracking starts (Detection area x)

Supported models:

PTZ cameras with auto-tracking feature

*Note: Related configuration on the camera is required in advance

Occupancy detection (Detection area x)

Supported models:

Cameras which support <u>AI Occupancy detection</u> application or <u>AI-VMD/AI People Counting for 360-degree</u> <u>fisheye</u>

*Note: Related configuration on the camera is required in advance.

Non mask detection

Supported models: Cameras which support <u>AI Non-Mask Detection</u> application. *Note: Related configuration on the camera is required in advance.

Scene change detection

Supported models:

Cameras which support <u>AI Scene change detection</u> application. *Note: Related configuration on the camera is required in advance.

Sound detection

Supported models: Cameras which support AI Sound classification function. *Note: Related configuration on the camera is required in advance

Command alarm

Supported models: Camera firmware version v2.85/v3.45(released in May 2025) or later.

[New for 1.1.0] Casing open detection Supported models: WV-X25580-F2LN2

Impact detection

Supported models: WV-X25580-F2LN2 Further Actions are available within XProtect Rules from i-PRO Maximizer as commands that can be ran from a triggering event.

Customized actions are also available.

Manage Rule			-	_						
Name: New Ro	ule 007									
Description:										
Active:										
Step 3: Actions										
Select actions to perform										
Execute Auto Focus (Fixe	d) on <i-pro camera:<="" th=""><th>></th><td></td><td></td><td>^</td></i-pro>	>			^					
Execute Auto Focus PTZ	on <i-pro camera=""></i-pro>									
Execute Focus Far (Fixed) on <i-pro camera=""></i-pro>									
Execute Focus Far F12 of	n <1-PRO camera>									
Execute Focus Near PTZ	on ci-PRO camera									
Execute Focus Reset (Fix	ed) on <i-pro camera<="" th=""><th>a></th><td></td><td></td><td></td></i-pro>	a>								
Execute Auto Track on si-	PRO camera>									
Execute Auto Pan on <i-pf< td=""><th>RO camera></th><th></th><td></td><td></td><td></td></i-pf<>	RO camera>									
Execute Stop Auto Pan/Tra	acking on <i-pro can<="" th=""><th>nera></th><td></td><td></td><td></td></i-pro>	nera>								
Execute Change to scene	file 1 on <i-pro came<="" th=""><th>era></th><td></td><td></td><td></td></i-pro>	era>								
Execute Change to scene	file 2 on <i-pro came<="" th=""><th>era></th><td></td><td></td><td></td></i-pro>	era>								
Disable privacy mask on	<camera></camera>									
Execute Change to scene	file 3 on <i-pro came<="" th=""><th>era></th><td></td><td></td><td></td></i-pro>	era>								
Execute Restore Original	Settings on <i-pro ca<="" th=""><th>amera></th><td></td><td></td><td></td></i-pro>	amera>								
Execute Enable Privacy G	iuard on <i-pro came<="" th=""><th>era></th><td></td><td></td><td></td></i-pro>	era>								
Execute Disable Privacy (Guard on <i-pro cam<="" th=""><th>era></th><td></td><td></td><td></td></i-pro>	era>								
Execute Restore Privacy	Guard on <i-pro cam<="" th=""><th>era></th><td></td><td></td><td></td></i-pro>	era>								
Execute Configure alarms	sending on <i-pro ca<="" th=""><th>mera></th><td></td><td></td><td></td></i-pro>	mera>								
Execute New Command 2	I on <i-pro camera=""></i-pro>									
Send event into to webnoo	file 4 on vi PPO onmo									
Execute Change to scene	an di PPO comercia	era>								
L Execute New Command 22 on (I-PRO camera>										
Edit the rule description (click	(an underlined item)									
Perform an action on Sound de	tection (Vahiola hom)	A PPO Maximizar Events	2)							
from Device Group 1										
1				_						
Help	Cancel	< Back	Next >		Finish					

3.3. XPROTECT SMART CLIENT 3.3.1. i-PRO EXTENDED ACTIONS

3.3.1.1. UI COMPONENT

When installed on a client workstation with the XProtect Smart Client, i-PRO Maximizer has a new camera toolbar. Mouse over a camera tile and find the i-PRO icon, click to provide available actions.

Actions are customized per camera based on what is enabled from i-PRO Extended actions in the XProtect Management Client.



3.3.1.2. OVERVIEW

This section describes the elements that compose the i-PRO Maximizer default actions.



1. Focus



Available Actions;

- Near
- Far
- Auto

2. Tracking



Available Actions

- Auto Track
- Auto Pan
- Lock & Track
- Stop

3. Change Scene



Available Actions;

- Scene file 1
- Scene file 2
- Scene file 3
- Scene file 4
- Restore to original settings

4. Privacy Guard



Available Actions;

- Enable
- Disable
- Restore to original settings

Custom Actions

When custom actions are added these will be made available below the default actions from the i-PRO Maximizer menu.



3.3.2. 3D DEWARP FOR 360-DEGREE FISHEYE CAMERA (NEW FOR v1.2.0)

3.3.2.1. OVERVIEW

3D dewarp is a new dewarp feature that allows users to have distortion-corrected images from 360-degree fisheye cameras, using virtual PTZ operations for better operability and monitoring experience.

Double Panorama



Quad or Hexa view provides a flexible display layout inside the one XProtect Smart Client tile.

Example of Quad view



Example of Hexa view



3.3.2.2. HARDWARE REQUIREMENT AND PERFORMANCE

Supported camera model

WV-S4176*, WV-S4576L*, WV-S4156*, WV-S4556L* WV-X4170, WV-X4171, WV-X4571L*, WV-X4573L*, WV-X4173, WV-X4172 WV-S4150*, WV-S4550L*, WV-S4551L*, WV-S4151* WV-SFN480, WV-SFV481 WV-SF438, WV-SF448, WV-SW458

PC requirement

The same as requirement for XProtect Smart Client, Intel® CPU from 6th generation or later that supports Intel Quick Sync, or NVIDIA graphics card is required.

Ref. https://www.milestonesys.com/support/help-and-documentation/system-requirements/

It is recommended to use hardware acceleration on Smart Client when 2192x2192 or higher and high frame rate. See more about enabling <u>hardware acceleration</u>.

Windows remote desktop connection is not supported. Smart client does not work when dewarp tile is shown.

Performance reference

In the combination of XProtect 2025R1, i-PRO Maximizer v1.2.0 and Intel® CPU from 13th generation,

Up to 30fps at 2192x2192, and up to 20fps at 2992x2992 is shown correctly.

But depending on the PC specifications and status, the video may not be displayed correctly. Reducing the frame rate of live stream can improve.

3.3.2.3. INITIAL SETUP

- 1. Click [Setup] screen. [Maximizer Dewarp] is shown at the left bottom.
- 2. Select the tile for 3D dewarp.
- 3. Click [Select Camera], select target camera and click [Select].

💠 Milestone XProtect Smart Client										
New View (1 x 1)	xports	Search	Alarm Manager	Incidents	System Monitor	+	A Not secure	16:30:50	.	:
XProtect	K New View (*)	x 1) ~	19			Evidence lock 💙		estrictions 🗸	Setup	Ø
	F Set	 Select a dewarp capable i-PRO car Select a dewarp capable i-PRO car Q. Search for items Q. FPRO/Panasonic WV-S4 	nera – le i-PRO camera hera 176 (192.168.0.106) - Camera 1 Cancel	Select						

4. Select camera mounting position from [Ceiling mount/Wall mount/Ground] mount and [Set camera on the view item].



5. Click [Setup] to complete the setup.

3.3.2.4. OPERATION

Both Live and Playback support dewarp operation.



Mouse operation:

Left double click	Zoom-in to the clicked area and zoom-out.
Drag by left click	Pan / tilt the image for zoom-in display (PTZ display), and image rotation for Fisheye display.
Mouse wheel	Zoom-in and out.

Right click menu:

	Set home position			
	Move to home position			
	Move to default position			
	View Mode	•		
	Display Layout	•		
	Double Click Action	•		
6	Snapshot			

Set home position	Save the current dewarped position and display layout as home position. Saved home position is used as default when starting smart client.					
Move to home position Move to saved home position.						
Move to default position	Move to default image rotation angle.					
View Mode	Fisheye / Panorama / Double Panorama					
Display Layout	Switch the display layout inside the dewarp tile.					

	Single
	Hexa(A)
	Hexa(B)
	Hexa(C)
	Hexa(D)
	3D Dewarp:
	zoom-in and zoom-out
Double Click Action	Switch Single/Multi view inside the tile: It is useful when Quad or Hexa is used for Display Layout. Instead of zoom-in and zoom-out, double click maximize the selected screen inside the tile.
	Maximize view:
	This option is the same as the original behavior of Smart Client.
	Dewarp tile will be maximized to the Smart Client screen.
Snapshot	Save the image of dewarp tile.

Operation in Quad or Hexa view:

When Quad or Hexa is selected, Fisheye is shown for all screens at first.



On each screen, mouse operations like zoom-in/out and rotation are available.

You can also change Fisheye/Double Panorama/Panorama for each screen.

This allows you to customize the dewarp tile to display in many different styles at the same time and you can save as home position.



3.3.3. ALARM MANAGER

i-PRO Maximizer events will be shown on Alarm Manager when triggered.

To display "Tag" and "Type" on Alarm manger, it is necessary to enable on XProtect Management client – Alarm Data settings – Alarm List Configuration

Milestone XProtect Smart Client																		- 0	×
Views Exports	Search		Alarm Ma	nager (🕫 🛛 Inci	dents i-PRO Active Gu	uard Plugin	Syste	em Monitor							Not secure	10:33:58	k 2	
																		Setu	
₩ 🔿 Φ No map has been s	elected								i.PRO/Panaso Frames per second 25 GV Vedeo doce 1.949 Vedeo doce 1.949 Ved		V-561301-Z		1)] - Camera 1 - 202		33:53.525				
÷								_	10:10			10.20	◀ ◀ 2023/09/20	10:33:53	.861 	10.50		11.0	p .
Quick Filters	Alarms Custom	(filter appi	ied) 🗸 🗌	Clear filter													Reports	1-1	1
T New (11)	! Time		Priority Level	State Level	State Name	Message	Source				Owner		Tag 🔺		Туре	Object			
T In progress (0)	10:29:44 202	3/09/20			New	Auto tracking starts (Detection area 1)	i-PRO/Panasonic WV	-S61301-2	22 (192.168.0.91) - Cam	iera 1		6137	Auto tracking starts (Detect	ion area 1)	i-PRO Maximizer				
T On hold (0)	10:30:30 202	3/09/20			New	Auto tracking starts (Detection area 8)	i-PRO/Panasonic WV	-S61301-2	22 (192.168.0.91) - Cam	iera 1		6138	Auto tracking starts (Detect	ion area 8)	i-PRO Maximizer				
T Closed (7)	10:33:09 202	3/09/20			New	i-PRO Custom Event	i-PRO/Panasonic WV	/-S61301-2	22 (192.168.0.91) - Cam	iera 1		6141	Custom alarm		i-PRO Maximizer				
	10:26:39 202	3/09/20			New	Non mask detection	i-PRO/Panasonic WV	-S61301-2	22 (192.168.0.91) - Cam	iera 1		6132	Non mask detection		i-PRO Maximizer				
	10:31:44 202	3/09/20			New	Occupancy detection (Detection area 1)	i-PRO/Panasonic WV	-S61301-2	22 (192.168.0.91) - Cam	iera 1		6139	Occupancy detection (Dete	ction area 1)	i-PRO Maximizer				
	10:32:13 202	3/09/20			New	Occupancy detection (Detection area 8)	i-PRO/Panasonic WV	-S4576LA	(192.168.0.46) - Camer	ra 1		6140	Occupancy detection (Dete	ction area 8)	i-PRO Maximizer				
	10:25:30 202	3/09/20			New	Scene change detection	i-PRO/Panasonic WV	-S61301-2	22 (192.168.0.91) - Cam	iera 1		6131	Scene change detection		i-PRO Maximizer				
	10:27:56 202	3/09/20			New	Sound detection (Glass break)	i-PRO/Panasonic WV	-S61301-2	22 (192.168.0.91) - Cam	iera 1		6134	Sound detection (Glass bre	ak)	i-PRO Maximizer				
Servers	10:27:36 202	3/09/20			New	Sound detection (Gunshot)	i-PRO/Panasonic WV	-561301-2	22 (192.168.0.91) - Cam	iera 1		6133	Sound detection (Gunshot)		EPRO Maximizer				
DESKTOP-S6JNAMR	10:28:16:202	3/09/20			New	Sound detection (Vehicle horn)	i-PRO/Panasonic WV	-S61301-2	22 (192.168.0.91) - Cam	iera 1		6135	Sound detection (Vehicle h	om)	FPRO Maximizer				
		<i>a</i> 0320			- New		T T TON SHASONIC WY	001301-2	<u></u>			6150	Boome resolating roll)		A COMBARNIZO				

4. DOWNLOAD LINKS

Please update other related software to the latest version.

i-PRO Maximizer v1.2.0 (DIRECT DOWNLOAD) i-PRO Maximizer (orbnetsys.com)

<u>i-PRO Maximizer v1.2.0 (Milestone Technology Partner Finder)</u> <u>i-PRO Maximizer (milestonesys.com)</u>

4.1. CHANGE LOG

ORBNETSYS/i-PRO-Maximizer-Public (github.com)

5. TROUBLESHOOTING

Before requesting additional support, please check for symptoms in the following table. Contact your dealer first if a problem cannot be solved, after checking and trying the solution in the table or if the problem is not described below.

Symptom	Cause/solution							
Connection settings of i-PRO Maximizer service are not saved correctly	To edit the configuration, i-PRO Maximizer Tray should be launched as an administrator.							