

Product Comparison Chart

XProtect[®] 2023 R1 Video Management Software

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Contents

Introduction	3
High-level XProtect VMS product comparison	4
Detailed XProtect VMS product comparison	6
High-level XProtect client comparison	12
Detailed XProtect client comparison	13



Introduction

3

As the world's leading provider of open platform IP video management software (VMS), Milestone Systems offers a wide range of VMS products optimized for different types of deployment and usage. This document provides an indepth comparable outline of Milestone's XProtect® VMS products and the associated clients.

This document is intended as a technical sales tool with two primary purposes:

- To provide an overview of the features that each XProtect product provides
- To support the selection of the optimal product by offering a visible comparison between the various products in the XProtect product range

This document contains several separate comparison charts, for XProtect VMS platform products and for XProtect clients, where each product category has an overview comparison chart, followed by a more detailed and comprehensive chart.

The following XProtect VMS platform products are covered:

- XProtect® Corporate
- XProtect® Expert
- XProtect® Professional+
- XProtect® Express+
- XProtect® Essential+

! XProtect Express and XProtect Professional are not part of this comparison chart as these products entered maintenance mode with 2019 R2, where their final versions were released on June 19, 2019. <u>Click here</u> for more information about XProtect Express and XProtect Professional.

The following XProtect clients are covered:

- XProtect® Smart Client
- XProtect® Web Client
- XProtect® Mobile

The document does not cover XProtect add-on products or Milestone Utilities.

The information in this document only provides basic information. Refer to the individual product specification sheets for a complete listing of all features for a given XProtect product.

Milestone reserves the right to change the product specifications without prior notice.



High-level XProtect VMS product comparison

The table below gives an overview of Milestone's XProtect VMS products and their key capabilities.

XProtect VMS Products	XProtect Essential+	XProtect Express+	XProtect Professional+	XProtect Expert	XProtect Corporate
Key Features					
Type of deployment	Single server	Single server	Centrally man- aged, multi- server	Centrally man- aged, multi- server	Centrally man- aged, distributed sites
Licensing	Free	Perpetual	Perpetual	Perpetual	Perpetual
Maximum number IP devices ¹ per recording server	8	48	Unrestricted	Unrestricted	Unrestricted
Number of recording servers per system	1	1	Unrestricted	Unrestricted	Unrestricted
Maximum numbers of users	Unrestricted	Unrestricted	Unrestricted	Unrestricted	Unrestricted
Customer Dashboard and Connected Services ²	-	Supported	Supported	Supported	Supported
Alarm Manager	-	\checkmark	\checkmark	\checkmark	\checkmark
Video out via Milestone Open Network Bridge	-	\checkmark	\checkmark	\checkmark	\checkmark
Dual authorization (Smart Client users)	-	\checkmark	\checkmark	\checkmark	\checkmark
Supports XProtect Smart Client, XProtect Web Client and XProtect Mobile	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Secure HTTPS camera connectivity (on supported devices)	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Adding devices on HTTPS ³	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Single device firmware ⁴ upgrade	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Bulk device firmware ⁴ upgrade				\checkmark	\checkmark
Map function	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Third-party application integration and support for video analytics ⁵	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Built-in Video Motion Detection (VMD) with Auto adjustable VMD sensitivity	\checkmark	~	~	~	~
H.264, MJPEG, MPEG-4, MPEG-4 ASP & MxPEG	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
H.265 ⁶	√	√	1	\checkmark	√
Adaptive streaming	-	\checkmark	\checkmark	\checkmark	1
Direct streaming (mobile server)	-	\checkmark	\checkmark	\checkmark	\checkmark
Microsoft Active Directory support	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Kerberos authentication	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Metadata support	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Centralized management	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Flexible event rule engine	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Hardware accelerated video decoding for Video Motion Detection (Quick sync)	\checkmark	~	~	~	~
Hardware accelerated video decoding for Video Motion Detection (NVIDIA)	-	-	-	\checkmark	\checkmark
Hardware accelerated video decoding in the Mobile Server	√	√	1	\checkmark	1
Support for live video play without recording storage	√ 	√	\checkmark	\checkmark	\checkmark
Edge Storage and Scalable Video Quality Recording™	-	-	√	√	1
Smart Map functions	-	-	-	\checkmark	\checkmark
Media database encryption and digital signing	-	-	-	√	√
Recording Server communication encryption	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Management Server communication encryption	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Mobile Server communication encryption	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
XProtect Management Server Failover ⁷	-	-	-	Add-on license	Add-on license
Hot- & cold-failover recording server	-	-	-	\checkmark	\checkmark
Evidence Lock	-	-	-	-	\checkmark
XProtect Incident Manager	-	Add-on license	Add-on license	Add-on license	\checkmark
Supports XProtect Smart Wall	-	-	-	Add-on license	√
Milestone Federated Architecture™	-	-	-	Remote site	Central/
Milestone Interconnect™	-	Remote site	Remote site	Remote site	Remote site Central/ Remote site



¹ IP device can be an actual camera, video encoders, NVR/DVR, video services or other types of video/audio devices connected to the VMS' recording server. IP cameras or encoders should be included in the Milestone Supported Device List to count as one license per IP device otherwise it will require one license per enabled video channel. Refer Improved license model FAQ for more details and visit <u>https://www.milestonesys.com/community/business-partner-tools/supported-devices/</u> for licensing requirement of an IP device. Please note that Specific IP device variants may not appear on the Supported Device List but will, however, be treated by Milestone as an IP device included in this list provided their equivalent base model is supported.

² Requires active Milestone Care Plus coverage

³ Applicable for devices integrated through Axis, Bosch, Hikvision, Hanwha, Panasonic and ONVIF drivers (drivers in Legacy Device Pack excluded)

- ⁴ Applicable only for devices integrated through Axis, Bosch, Hanwha and ONVIF drivers (drivers in Legacy Device Pack excluded)
- ⁵ Using Milestone Integration Platform (MIP)
- ⁶ Please check <u>https://www.milestonesys.com/support/resources/system-requirements/</u> for graphic cards and performance requirements

⁷ Add-on license required.



Detailed XProtect VMS product comparison

The table below gives a detailed listing of all major features in the different XProtect VMS products. The features are organized into categories for increased readability.

XProtect VMS Products	XProtect Essential+	XProtect Express+	XProtect Professional+	XProtect Expert	XProtect Corporate
Features					
System components (software modules)					
Recording server	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Hot- & cold-failover recording server	-	-	-	\checkmark	\checkmark
Maximum number of IP devices1 per recording server	8	48	Unrestricted	Unrestricted	Unrestricted
Maximum number of recording servers per sys- tem	1	1	Unrestricted	Unrestricted	Unrestricted
Recording server manager	\checkmark	\checkmark	\checkmark	√	√
Management Server	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Management Server compatible with Microsoft clustering	\checkmark	\checkmark	~	\checkmark	\checkmark
XProtect Management Server Failover ²	-	-	-	Add-on license	Add-on license
Management client (dedicated client application for local or remote management)	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Event server (for handling of events and alarms)	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Failover event server (redundant cluster)	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
XProtect Mobile (server and client)	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
DLNA (Digital Living Network Alliance) server	-	\checkmark	\checkmark	\checkmark	\checkmark
XProtect Smart Client	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
XProtect Web Client	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
XProtect Smart Client - Player (local playback/ex- port)	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Run servers as Windows Services	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Available for AWS Cloud Deployment in AWS Marketplace	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Licensing					
Licensing ³	8 IP devices	Perpetual	Perpetual	Perpetual	Perpetual
Distributed operation		1		1	
Milestone Interconnect™	-	Remote site	Remote site	Remote site	Central/ Remote site
Milestone Federated Architecture™	-	-	-	Remote site	Central/ Remote site
Remote camera connection via Remote Connec- tion Service	-	-	-	-	\checkmark
Device support					
Support for ONVIF & PSIA compliant devices	\checkmark	√	\checkmark	\checkmark	\checkmark
Generic device support via Milestone universal driver	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Metadata from camera embedded analytics	\checkmark	√	\checkmark	\checkmark	\checkmark
Number of supported IP devices	11000+	11000+	11000+	11000+	11000+
Secure HTTPS camera connectivity (on sup- ported devices)	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Adding devices on HTTPS ⁴	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Single device firmware upgrade ⁵	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Bulk device firmware upgrade ⁵	-	-	-	\checkmark	\checkmark
Device firmware version listing	√	√ 	√ 	√	1
Update hardware – refresh option	\checkmark	\checkmark	\checkmark	√	\checkmark
Video processing					
H.264, MJPEG, MPEG-4, MPEG-4 ASP and MxPEG	√ 	\checkmark	\checkmark	√ 	\checkmark
H.265 ⁶ Metadata support	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark



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Sharing bookmarks between Mobile clients///Evidence LockLock video for one or multiple cameras/Retrieve overview of locked video sequences/Define available retention times/	Event-based output control Event-based device start/stop Event-based matrix control Flexible event rule engine for definition of ac- tions on events Bookmark function Manual bookmarking (quick bookmarking +	√ √ √	√ √ √	√ √ √ √	√ √ √	√ √ √
Evidence LockLock video for one or multiple camerasRetrieve overview of locked video sequencesDefine available retention times	Event-based output control Event-based device start/stop Event-based matrix control Flexible event rule engine for definition of ac- tions on events Bookmark function Manual bookmarking (quick bookmarking + bookmarking with details)	√ √ √ √	√ √ √	√ √ √ √	√ √ √	√ √ √
Lock video for one or multiple camerasRetrieve overview of locked video sequencesDefine available retention times	Event-based output control Event-based device start/stop Event-based matrix control Flexible event rule engine for definition of ac- tions on events Bookmark function Manual bookmarking (quick bookmarking + bookmarking with details) Rule-based bookmarking	√ √ √ √	√ √ √	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
Retrieve overview of locked video sequencesDefine available retention times	Event-based output control Event-based device start/stop Event-based matrix control Flexible event rule engine for definition of ac- tions on events Bookmark function Manual bookmarking (quick bookmarking + bookmarking with details) Rule-based bookmarking Sharing bookmarks between Mobile clients	√ √ √ √	√ √ √	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
Define available retention times	Event-based output control Event-based device start/stop Event-based matrix control Flexible event rule engine for definition of ac- tions on events Bookmark function Manual bookmarking (quick bookmarking + bookmarking with details) Rule-based bookmarking Sharing bookmarks between Mobile clients Evidence Lock	√ √ √ √ - - -	√ √ √	√ √ √ √ √ √		
	Event-based output control Event-based device start/stop Event-based matrix control Flexible event rule engine for definition of ac- tions on events Bookmark function Manual bookmarking (quick bookmarking + bookmarking with details) Rule-based bookmarking Sharing bookmarks between Mobile clients Evidence Lock Lock video for one or multiple cameras		√ √ √	√ √ √ √ √ √ √ √		
	Event-based output control Event-based device start/stop Event-based matrix control Flexible event rule engine for definition of ac- tions on events Bookmark function Manual bookmarking (quick bookmarking + bookmarking with details) Rule-based bookmarking Sharing bookmarks between Mobile clients Evidence Lock Lock video for one or multiple cameras Retrieve overview of locked video sequences		√ √ √	√ √ √ √ √ √ √ √		



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			nal		
XProtect VMS Products	<u>ੂ</u> ਪ	а, ст.	jo t	t t	ate
	XProtect Essential+	XProtect Express-	KProtect Professional+	XProtect Expert	XProtect Corporate
	² ro	p ro	ro of	XProte	bro Drb
	X X		P X T		i × ŭ
XProtect Incident Manager	-	Add-on license	Add-on license	Add-on license	\checkmark
Alarm Manager				1	
Alarm description with work instructions and op-	-	\checkmark	\checkmark	\checkmark	\checkmark
tional initial owner of alarm Time profiles for alarms		√	√	√	\checkmark
View triggered alarms	-	↓ ↓	√ √	√ √	√ √
Manage alarms (reassign, change status, com-					
ment)	-	\checkmark	\checkmark	\checkmark	\checkmark
Push alarms to users of XProtect Mobile ⁸	-	\checkmark	\checkmark	\checkmark	\checkmark
Maximum number of related cameras in alarm	_	15	15	15	15
preview window					
Number of alarm priority levels	-	32,000	32,000	32,000	32,000
Customizable alarm priority levels, categories, statuses, and result codes	-	\checkmark	\checkmark	\checkmark	\checkmark
Customizable sound notification	_	√	√	√	√
Alarm handling reporting	-	\checkmark	√ √	√ √	 ✓
Alarm logging	-	↓ √	√ 	√ 	↓ √
Recording server, storage and archiving					
Pre-recording buffer in RAM	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Video retention time	Unrestricted	Unrestricted	Unrestricted	Unrestricted	Unrestricted
Recording capacity per device/day	Unrestricted	Unrestricted	Unrestricted	Unrestricted	Unrestricted
Archiving of recordings with network drive sup-	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
port Online access to archives	\checkmark		√	1	\checkmark
Archiving schedules	Hourly	Hourly	Hourly	Hourly	Hourly
Storage definition and retention time per device	V	√ V	V	V	V
Storage definition and retention time that can be					
applied to individual cameras or common for	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
multiple devices					
Multi-stage video storage and data grooming	-	-	-	\checkmark	\checkmark
Storage overview (used vs. available space) of available storage drives	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Support for live video play without recording					
storage	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Event on premature deletion of video due to in-	√	\checkmark	~	1	\checkmark
sufficient physical storage	V	~	V	V	V
Edge Storage support with flexible retrieval	-	-	\checkmark	\checkmark	√
Scalable Video Quality Recording™ Evidence Lock	-	-	\checkmark	-	✓ ✓
Media database encryption and digital signing	-	-	-	-	\checkmark
Encryption of communication with connected			-	V	V
servers/clients/	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
integrations					
Multicast support	-	-	-	\checkmark	\checkmark
Integration					
Plug-in, Protocol, Component integration via MIP	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
SDK System Configuration via MIP SDK and REST API	\checkmark	√	√	√	\checkmark
Live Video streaming via WebRTC	 ✓	↓ ↓	 ✓	 ✓	 ✓
Device integration through Driver Framework	√ √	\checkmark	\checkmark	√ √	\checkmark
Metadata integration	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Event integration	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Event and action rule engine integration via MIP	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
SDK	,				
Video processing service in MIP SDK Milestone AI Bridge	√	√ /	√ 	√ /	/
Wilestone Al Bridge Webhooks	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Support for XProtect Add-on products	v	v	V	v	v
XProtect Access	-	\checkmark	\checkmark	\checkmark	\checkmark
XProtect LPR	-	\checkmark	√	\checkmark	\checkmark
XProtect Smart Wall	-	-	-	\checkmark	\checkmark
XProtect Transact	-	\checkmark	\checkmark	\checkmark	\checkmark
XProtect Retail	-	√ 	√	√ 	<i>√</i>
XProtect Screen Recorder	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark



			<u>+</u>		
		t t	ion	بر	ate
XProtect VMS Products	intia	ited	ited	otec	otec
	XProtect Essential+	XProtect Express+	XProtect Professional+	XProtect Expert	XProtect Corporate
Milestone Open Network Bridge	Х Ш	× Ш	\checkmark	× Ш √	\times U
DLNA server	-	 √	√	 ✓	
XProtect Rapid REVIEW	-	\checkmark	\checkmark	\checkmark	\checkmark
Management			1		
Maximum number of clients	Unrestricted	Unrestricted	Unrestricted	Unrestricted	Unrestricted
Password protected system configuration Configuration wizards for aided system setup	\checkmark	\checkmark	√ √	√ √	\checkmark
Device scanning with device model detection	↓ √	√ 	√ 	√ 	√
Device replacement wizard	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Management Client device search filter	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Move device wizard for moving hardware devices (e.g. cameras) between recording servers	-	-	√	\checkmark	\checkmark
Centralized recording server & device manage- ment	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Device group support	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Management Client profiles Centralized management of XProtect Smart Cli-	-	-	-	-	\checkmark
ent application options (Number of supported XProtect Smart Client profiles)	-	-	3	12	Unrestricted
Day length time profile	\checkmark	\checkmark	\checkmark	\checkmark	√
On-the-fly configuration changes	\checkmark	\checkmark	\checkmark	\checkmark	√
Scheduled start/stop of devices	\checkmark	√	√	√	√
Configuration reporting Built-in backup-restore support	✓ ✓	\checkmark	√ √	\checkmark	\checkmark
Automatic license activation of online systems	\checkmark	 √	\checkmark	\checkmark	\checkmark
Offline license activation	√	√	\checkmark	√	√
Add/replace devices without reactivation in of-	√	1	~	\checkmark	1
fline systems					-
Customizable access port with NAT support Device Password Management ⁹	✓	√ -	√ √	√ √	\checkmark
Initial setup of credentials on devices ¹⁰	\checkmark	\checkmark	~	\checkmark	√
Current device user handling ¹¹	-	-	\checkmark	\checkmark	\checkmark
Network configuration for devices ¹¹	-	-	\checkmark	\checkmark	\checkmark
System Monitoring Customizable dashboard for task / component					
specific live monitoring	-	-	-	\checkmark	\checkmark
Customizable event trigger thresholds for Nor-				1	1
mal, Warning and Critical levels	-	-	-	~	~
Real-time and historical system status of man- agement server, event server, recording servers	_			\checkmark	\checkmark
and other XProtect servers				~	v
Real-time and historical system status of individ- ual cameras	-	-	-	\checkmark	\checkmark
Dedicated System Monitor tab that can be displayed as floating window	-		-	\checkmark	\checkmark
XProtect Smart Wall					
Supports XProtect Smart Wall video wall add-on	-	-	-	Add-on license	√
Number of XProtect Smart Walls and XProtect Smart Wall displays	-	-	-	Unrestricted	Unrestricted
Number of concurrent video streams	-	-	-	Unrestricted	Unrestricted
Maximum number of content positions per dis- play	-	-	-	100	100
Presets for display layouts and camera content	-	-	-	\checkmark	\checkmark
Live video stream content XProtect Smart Client controlled playback of	-	-	-	\checkmark	✓
video	-	-	-	√	\checkmark
Support for rich video wall content, including maps and Smart Maps, still images, http pages,	-	_	_	\checkmark	\checkmark
alarms, texts, bookmarks, system monitor, etc.					•
Rule-based control of layout and content (includ- ing text messages)	-	-	-	\checkmark	\checkmark
System alarms and notification					
Email notification	✓	√	√ 	√ 	√ /
Multiple notification profiles	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark



XProtect VMS Products	XProtect Essential+	XProtect Express+	XProtect Professional+	XProtect Expert	XProtect Corporate
SNMP trap	-	-	-	\checkmark	\checkmark
Customer Dashbord ⁸	-	\checkmark	\checkmark	\checkmark	\checkmark
User authentication and rights management					
Centralized user management	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Tiered management rights	-	-	-	-	\checkmark
Inheritance of user rights	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Time schedule-controlled user access to devices and functions	-	-	-	-	\checkmark
Restrict user access by client type (Web Client, XProtect Mobile and Smart Client)	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Basic User (XProtect application accounts)	1	\checkmark	\checkmark	√	\checkmark
Windows User (local Windows accounts)	√	\checkmark	√	√ 	\checkmark
Microsoft Active Directory User (central Active Di- rectory accounts)	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
External identity provider support (OIDC) p	\checkmark	\checkmark	\checkmark	\checkmark	~
Dual authorization (Smart Client users)	-	\checkmark	√	\checkmark	√
Dual authorization (Management Client users) ¹²		 √	 √	 ✓	 √
Two-step verification (Web and Mobile Client us-	-	-	-	-	√
ers) Windows NTLM (NT LAN Manager) authentica-	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
tion Kerberos authentication	/	1	/	1	1
Biometry support in Mobile Clients	√ 	\checkmark	√ √	\checkmark	\checkmark
MDM (Mobile Device Management) support in Mobile Client	√	 √	 √	√ √	 √
Logging					
System and audit logging	√	\checkmark	\checkmark	\checkmark	\checkmark
Rule logging	1	\checkmark	1	\checkmark	\checkmark
Compliance and certification					
FIPS 140-2 compliance	√	\checkmark	\checkmark	\checkmark	\checkmark
Europrise privacy seal (GDPR ready)	_	_	_	_	\checkmark
Languages (Management Interface)					
Chinese (Simplified)	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Chinese (Traditional) ¹³	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Danish ¹³	√	√	√ 	√ 	√
English	√	√	√	√ 	√
French	√	√	√	✓ ✓	✓
German	√	√	√	✓ ✓	√
Italian ¹³	√ 	√ 	√ /	√ 	√
Japanese	√	√ /	√ /	√ /	/
Korean	✓ ✓	\checkmark	√ √	\checkmark	\checkmark
Portuguese (Brazilian) Russian ¹³	√	√ √	√ √		\checkmark
Spanish	√ √	√	\checkmark	\checkmark	 √
Swedish ¹³	√	✓ ✓	√ √	√ √	✓ ✓
Turkish ¹³	√	 √	 √	 ✓	 √



- ⁶ Please check <u>https://www.milestonesys.com/support/resources/system-requirements/</u> for graphic cards and performance requirements
- 7 In Essential+ and Express+, ongoing PTZ operations cannot be interrupted
- ⁸ Requires Milestone Care Plus service coverage
- ⁹ Not supported for all devices. For details read latest Milestone XProtect device pack release notes
- ¹⁰ This feature is not available for devices with factory default credentials.
- ¹¹ Applicable only for devices integrated through the Milestone ONVIF drivers and that are ONVIF Profile T & Q compliant
- ¹² Users must be members of the administrator role
- ¹³ Installation and user interface localized. Help system and manuals in English only

¹ IP device can be an actual camera, video encoders, NVR/DVR, video services or other types of video/audio devices connected to the VMS' recording server. IP cameras or encoders should be included in the Milestone Supported Device List to count as one license per IP device otherwise it will require one license per enabled video channel. Refer Improved license model FAQ for more details and visit <u>https://www.milestonesys.com/community/business-partner-tools/supported-devices</u>/ for licensing requirement of an IP device. Please note that Specific IP device variants may not appear on the Supported Device List but will, however, be treated by Milestone as an IP device included in this list provided their equivalent base model is supported.

² Add-on license required.

³ IP cameras or encoders should be included in the Milestone Supported Device List to count as one license per IP device otherwise it will require one license per enabled video channel. Always refer to <u>https://www.milestonesys.com/community/business-partner-tools/supported-devices/</u> for licensing requirement of an IP device.

⁴ Applicable for devices integrated through Axis, Bosch, Hikvision, Hanwha, Panasonic and ONVIF drivers (drivers in Legacy Device Pack excluded)

⁵ Applicable only for devices integrated through Axis, Bosch, Hanwha and ONVIF drivers (drivers in Legacy Device Pack excluded)



High-level XProtect client comparison

The table below gives an overview of the different XProtect clients that can be used together with Milestone's XProtect VMS products.

XProtect client	XProtect	XProtect	XProtect
	Mobile	Web Client	Smart Client
Key Features			
User platform	Smartphones and tablets	Web browsers	Windows PC
User mobility	High	Medium	Low
Installation required		-	\checkmark
User authentication	\checkmark	\checkmark	\checkmark
Dual authorization		-	\checkmark
Two-step verification	\checkmark	\checkmark	-
Secure (HTTPS) client-server connection	\checkmark	\checkmark	-
Camera search	\checkmark	\checkmark	\checkmark
Generic 360 dewarping	-	-	\checkmark
View live video	\checkmark	\checkmark	\checkmark
Control PTZ cameras	\checkmark	\checkmark	\checkmark
Advanced PTZ camera control	-	-	\checkmark
PTZ specific camera icons	-	-	\checkmark
Alarm handling	\checkmark	\checkmark	\checkmark
Push Notification ¹	\checkmark	-	-
Interactive maps	-	-	\checkmark
Smart Map	\checkmark	-	\checkmark
Trigger I/O events	\checkmark	\checkmark	\checkmark
Playback	Single camera	Multi camera	Multi camera
Dedicated Search tab (centralized Search)	· · ·	-	\checkmark
Evidence Lock	-	-	\checkmark
XProtect Incident Manager	-	-	\checkmark
Export/share video from one camera	\checkmark	\checkmark	\checkmark
Export video from multiple cameras	-	\checkmark	\checkmark
Storyboard function in export	-	-	\checkmark
Include XProtect Smart Client – Player in export	-	-	\checkmark
Video Push with audio support	\checkmark	-	-
Dynamic bandwidth adaptation	\checkmark	\checkmark	-
Adaptive streaming	\checkmark	\checkmark	\checkmark
Direct streaming	\checkmark	\checkmark	-
Hardware accelerated video decoding	-	-	\checkmark
Manage access control	\checkmark	-	\checkmark
Cameras and view groups	\checkmark	\checkmark	\checkmark

¹ Requires Milestone Care Plus service coverage



Detailed XProtect client comparison

This section provides a detailed comparison between the different XProtect clients, both in relation to each other, and the XProtect VMS platforms. The latter is important because some functionality and support of the clients are determined by the specific XProtect product or product version. The features are organized into categories for increased readability.

XProtect Client		>	XPrc	tect	: Mc	bile						X	Prote	ect '	Web	Clie	ent					XPr	rote	ct Si	mar	t Clie	ent	
Feature set when used with spe- cific XProtect VMS platform	XProtect Essential+	XProtect	Express+	XProtect	Professional+	XProtect	Expert	XProtect	Corporate	XProtect	Essential+	XProtect	Express+	XProtect	Professional+	XProtect	Expert	XProtect	Corporate	XProtect	Essential+	XProtect	Express+	XProtect	Professional+	XProtect	r XDrotoct	Corporate
General view handling																												
Number of view layouts				2											2										11			
Maximum view items per view				10	0									1	00									1	00			
Optimized view layouts for 4:3 and 16:9 display ra- tios		-											-					\checkmark										
Corridor optimized view layouts				-											-					\checkmark								
Optimized view layouts for landscape and portrait displays												-										\checkmark						
Cameras from multiple XProtect servers		-				\checkmark	/				-						/									V	/	
Support for Shared Views and Private Views				-											\checkmark										\checkmark			
XProtect Smart Wall views				-											-							-	-			Add-o license		\checkmark
Images and active HTML pages in views				-											-										\checkmark			
Hotspot and Carousel in views				-											-										\checkmark			
Virtual Matrix in views				-											-					-					~	/		
Display bounding boxes based on metadata				-											-										\checkmark			
Full screen mode				~	/										\checkmark										\checkmark			
Multi-window functionality with support for full screen or floating windows with synchronized or independent operation				-											-										\checkmark			
Switch to view by number				-											-										\checkmark			
Initial default view ¹				~	/										\checkmark										\checkmark			



XProtect Client	XProtect Mobile XProtect Web Client XProtect Smart									
Feature set when used with spe- cific XProtect VMS platform	XProtect Essential+ XProtect Express+ XProtect XProtect Expert XProtect Corporate	XProtect Essential+ XProtect Express+ XProtect Professional+ XProtect Expert XProtect Corporate	XProtect Essential+ XProtect Express+ XProtect Professional+ XProtect Expert XProtect Corporate							
Camera search	\checkmark	\checkmark	\checkmark							
Automatic restore views and windows at login	\checkmark	\checkmark	\checkmark							
Live view										
Update on motion only	-	-	\checkmark							
One-way audio support	\checkmark	\checkmark	\checkmark							
Two-way audio support	\checkmark	\checkmark	\checkmark							
Broadcasting audio	-	\checkmark	\checkmark							
Start/stop recording in view	-	-	\checkmark							
Independent playback in live mode	-	-	\checkmark							
Replace cameras in view without changing view setup	-	-	\checkmark							
Send camera to Virtual Matrix	-	-	- 🗸							
Share video image	Via locally using installed communication applications (such as email)	-	Print, copy to clipboard and save to file							
Switch to camera by number	-	-	\checkmark							
PTZ support										
Define presets in the client application	-	-	\checkmark							
Define and control patrolling schemes in the client application	-	-	- 🗸							
View who has PTZ control and time to automatic release	-	-	\checkmark							
Lock PTZ control	-	-	- 🗸							
Go to preset positions	\checkmark	\checkmark	\checkmark							
Pause patrolling at manual operation	\checkmark	\checkmark	\checkmark							
Immervision Enables® panomorph lens support	-	-	\checkmark							
Joystick support	-	-	\checkmark							
Assign commands to keyboard shortcuts and joy- stick buttons	-	-	\checkmark							
Auxiliary commands (wash and wipe)	-	\checkmark								
I/O and events control			•							
Camera overlay buttons	-	-	\checkmark							
Manually activate events and trigger outputs	\checkmark	√	 ✓							



XProtect Client	XProtect Mobile	XProtect Web Client	XProtect Smart Client					
Feature set when used with spe- cific XProtect VMS platform	XProtect Essential+ XProtect Express+ XProtect XProtect Expert XProtect Corporate	XProtect Essential+ XProtect Express+ XProtect XProtect Expert XProtect Corporate	XProtect Essential+ XProtect Express+ XProtect Professional+ XProtect Expert XProtect Corporate					
Audio and Playback								
Maximum view items per view	1	Dynamic, 4-18 depending on screen resolution	100					
Playback mode	Single camera	Multi camera	Multi camera					
Recording search	\checkmark	\checkmark	\checkmark					
Recent history of recording sequences per camera	\checkmark	-	\checkmark					
Time/date search	\checkmark	\checkmark	\checkmark					
Independent playback in playback mode	-	-	\checkmark					
Event/alert list in recording	-	-	\checkmark					
Graphical timeline	\checkmark	\checkmark	\checkmark					
Adjust playback speed	\checkmark	\checkmark	\checkmark					
Single frame step (forward/backward)	\checkmark	\checkmark	\checkmark					
One-way audio support	\checkmark	\checkmark	\checkmark					
Two-way audio support	\checkmark	\checkmark	\checkmark					
Broadcasting audio	-	\checkmark	\checkmark					
Digital zoom	\checkmark	\checkmark	\checkmark					
Share video image	Via locally installed communication applications (such as email)	Single JPG image export	Print, copy to clipboard and save to file					
Print report with comments	-	-	\checkmark					
Privacy masking	- 🗸	- 🗸	- 🗸					
Search								
Dedicated Search tab (centralized Search)	-	-	\checkmark					
Sequence Search	-	-	\checkmark					
Motion Search	-	-	\checkmark					
Bookmark Search	- 🗸	- 🗸	- 🗸					
Alarm Search	-	-	- 🗸					
Event Search	-	-	- 🗸					
XProtect LPR Search	-	-	- 🗸					
People Search ²	-	-	- 🗸					
Vehicle Search ²	-	-	- 🗸					
Location Search ²	-	-	- 🗸					
Multi-category Search and sort results by rele- vance	-	-	- 🗸					



XProtect Client		XPro	otect M	obile			XPro	tect We	b Client		XProtect Smart Client						
Feature set when used with spe- cific XProtect VMS platform	XProtect Essential+	XProtect <mark>Express+</mark>	XProtect Professional+	XProtect Expert	XProtect Corporate	XProtect Essential+	XProtect Express+	XProtect Professional+	XProtect Expert	XProtect Corporate	XProtect	Essential+ XProtect	Express+ XProtect	Professional+	APTOLECL Expert	XProtect Corporate	
Visualize location of Search result			-					-				-				\checkmark	
Save search templates			-					-				-				\checkmark	
3 rd party search support			-					-			-			~			
Bookmark function																	
Manual bookmarking (quick bookmarking and bookmarking with details)		-		\checkmark			-		\checkmark			-			\checkmark		
Create, edit, and delete bookmarks		-		\checkmark			-		\checkmark						\checkmark		
Instant preview of bookmarks in timeline			-					-				-			\checkmark		
Listing and previewing of bookmarks in Central- ized search			-					-				-			\checkmark		
Print bookmark report			-					-				-			\checkmark		
Direct video export of bookmark			-					-				-			\checkmark		
Search and apply filters to bookmarks		-		\checkmark			-		\checkmark			-			\checkmark		
Sharing bookmarks between Mobile clients				\checkmark				-						-			
Alarm Manager																	
Dedicated Alarm Manager tab that can be dis- played as floating window			-					-			-			\checkmark			
Alarm list and alarm preview view items in normal camera views			-					-						\checkmark			
Sort and filtering functions			\checkmark					-						\checkmark			
Instant preview of primary and related cameras			-					-						\checkmark			
Manage alarms (reassign & change status)	-			\checkmark		-			\checkmark		-			. √			
Manage alarms (comment)	-			\checkmark		-			\checkmark		-			\checkmark			
Integration with map function			-					-			-			~			
Alarm description/work instructions	-			\checkmark		-			\checkmark		-			\checkmark			
Escalation and forwarding handling			-					-			-			\checkmark			
Alarm handing reports with print function			-					-			-			\checkmark			
Alarm location maps in alarm list			-								-			\checkmark			
Combined access to live and playback video			-					-			-			\checkmark			
Desktop notification for alarms			-					-			-			\checkmark			
Audio notification at new alarm (configurable per priority level)			-					-			-			\checkmark			



XProtect Client	XProtect Mobile		XProtect Web	Client	XProtect Smart Client	
Feature set when used with spe- cific XProtect VMS platform	XProtect Essential+ XProtect Express+ XProtect Drofessional+	XProtect Expert XProtect Corporate	XProtect Essential+ XProtect Express+ XProtect Professional+	XProtect Expert XProtect Corporate	XProtect Essential+ XProtect Express+ XProtect Professional+	XProtect Expert XProtect Corporate
Push Notification ³	-	\checkmark	-		-	
Map function						
Standard graphical file formats supported for					\checkmark	
maps	-		-		Ý	
Number of linked map layers supported	-		-		Unrestricte	d
Video preview	-		-		\checkmark	
Integrated control of speakers, microphones and output devices	-		-		√	
Drag-and-drop and point-and-click definition of map elements	-		-		\checkmark	
Integrated PTZ control	-		-		\checkmark	
Real-time system integrity overview and system performance	-		-		\checkmark	
Smart Map function						
CAD maps support	-	-	-		-	\checkmark
GIS maps support	-	\checkmark				\checkmark
Online map services support for Bing, Google and OpenStreetMap	-	-	-		-	\checkmark
Offline map services supported for Open- StreetMap	-	\checkmark	-		-	\checkmark
OpenStreetMap tiles distributed via Milestone map services	-	\checkmark	-		-	\checkmark
Camera and camera clusters	-	√				\checkmark
Alarms		-			-	√
Input devices	-	-	_		-	 √
Microphones	_	-	-		-	√
Video preview	-	-	-		-	 ✓
Integrated control of microphones and input de- vices	-	-	-		-	√ √
Support for Milestone Federated Architecture	-	-	-		-	\checkmark
Integrated PTZ control	-	-	-		-	\checkmark
Auto-place devices on map via positioning and di- rection settings	-	\checkmark	-		-	\checkmark



XProtect Client	XProtect Mobile	XProtect Web Client	XProtect Smart Client	
Feature set when used with spe- cific XProtect VMS platform	XProtect Essential+ XProtect Express+ XProtect Professional+ XProtect XProtect Corporate	XProtect Essential+ XProtect Express+ XProtect Professional+ XProtect Expert XProtect Corporate	XProtect Essential+ XProtect Express+ XProtect Professional+ XProtect Expert XProtect Corporate	
Link to standard maps	-	-	- 🗸	
Building support	-	-	- 🗸	
XProtect Smart Wall				
Supports XProtect Smart Wall video wall add-on	-	-	- Option Included	
User control of layout and content	-	-	- 🗸	
User control playback of video in XProtect Smart Wall	-	-	-	
Local subscription to XProtect Smart Wall views for local display	-	-	-	
Push rich content to XProtect Smart Wall, such as maps, still images, http pages, alarms, bookmarks, system monitor, etc.	-	-	-	
Send manual text messages to XProtect Smart Wall	-	-	-	
Evidence Lock				
Lock video for one or multiple cameras	-	-	- 🗸	
Retrieve overview of locked video sequences	-	-	- 🗸	
Incident Manager				
XProtect Incident Manager	-	-	- Add-on license ✓	
Export				
Export in still image format (JPEG)	\checkmark	\checkmark	\checkmark	
Export with audio support in media player format (AVI & MKV)	\checkmark	\checkmark	\checkmark	
Export in XProtect format	-	\checkmark	\checkmark	
Server-side export	\checkmark	\checkmark	-	
Storyboard function in export	-	-	\checkmark	
Encrypted export with password protection and digital signing ⁴	-	\checkmark	\checkmark	
Verification of digital video signatures in XProtect Smart Client – Player ⁴	-	\checkmark	\checkmark	
Prevent Re-export option ⁴	-	Always on	\checkmark	
Auto-export of XProtect Smart Client – Player ⁴	-	-	\checkmark	
Preserve system defined privacy masks	- 🗸	- 🗸	- 🗸	



XProtect Client	XProtect Mobile	XProtect Web Client	XProtect Smart Client	
Feature set when used with spe- cific XProtect VMS platform	XProtect Essential+ XProtect Express+ XProtect XProtect Expert	XProtect Essential+ XProtect Express+ XProtect Professional+ XProtect KProtect Corporate	XProtect Essential+ XProtect Express+ XProtect Professional+ XProtect Expert XProtect Corporate	
Additional export specific privacy masks				
Liftable user-right protected privacy masks	-	-	- 🗸	
Direct export to optical media	-	-	\checkmark	
Flexible camera selection for export	-	-	\checkmark	
Bulk export to multiple media formats	-	-	· · · · · · · · · · · · · · · · · · ·	
General and camera specific export comments ⁴	-	-	\checkmark	
Pre/post comment slides (media player format only)	-	-	√	
Video Push				
Video Push	\checkmark	-	-	
Include location metadata with Video Push	 √	-	-	
Audio support	\checkmark	-	-	
System Monitoring				
Access real-time and historical system perfor- mance information (refer to System Monitor sec- tion for the VMS for details)	-	-	- 🗸	
Installation				
Run without installation	-	\checkmark	-	
Single step installer (installs client together with server)	-	-	\checkmark	
Initial and update installations from management Server	-		\checkmark	
Notify about new updates	\checkmark	-	-	
Smart Connect ³	- 🗸	-	-	
System access				
Auto-login	\checkmark	-	\checkmark	
Dual authorization	-	-	- 🗸	
Two-step verification	- 🗸	- 🗸	-	
Secure (HTTPS) client-server connection	\checkmark	\checkmark	-	
Dynamic bandwidth adaptation with threshold setting	\checkmark	\checkmark	-	
External identity provider support (OIDC) SSO	\checkmark	\checkmark	\checkmark	
Biometry support	√	-		



XProtect Client	XProtect Mobile		XProt	tect Web Client		XProtect Sm	art Client
Feature set when used with spe- cific XProtect VMS platform	XProtect Essential+ XProtect Express+ XProtect Professional+ XProtect	Apei L XProtect Corporate	XProtect Essential+ XProtect Express+	XProtect Professional+ XProtect Expert	Corporate	XProtect Essential+ XProtect Express+ XProtect	Zprotect Zprotect Zprotect XProtect Corporate
MDM (Mobile Device Management) support	\checkmark			-		-	
Authorization							
Restrict user access by client type (Web Client, XProtect Mobile and Smart Client) Time schedule-controlled user access to devices	\checkmark			\checkmark		\checkmark	
and functions	-	\checkmark	-		/	-	\checkmark
Restrict user access by devices (cameras, micro- phones, I/O devices, etc.)	√			\checkmark		\checkmark	
Restrict access to live, PTZ control, playback and export	√		\checkmark			\checkmark	
Restrict access to setup	-		-			\checkmark	
Personalization							
Application options	\checkmark		-			\checkmark	
Centralized management of application options	-			-		-	\checkmark
Application theme support	-		-			\checkmark	
Task-oriented tabs	-			\checkmark		\checkmark	
System							
Hardware accelerated video decoding	-			-		\checkmark	
Adaptive streaming	- 🗸		-	\checkmark		-	\checkmark
Direct streaming	- 🗸		-	\checkmark		-	
Multi-live streaming	-			-			\checkmark
Languages (Installation, UI and help function)							
Arabic	√ ⁵			√ ⁵		\checkmark	
Bulgarian	$\sqrt{5}$		$\sqrt{5}$			$\sqrt{6}$	
Croatian	√5		$\sqrt{5}$			$\sqrt{6}$	
Chinese (Simplified)	$\sqrt{5}$		$\sqrt{5}$			\checkmark	
Chinese (Traditional)	√ ⁵			$\sqrt{5}$		\checkmark	
Czech	$\sqrt{5}$			$\sqrt{5}$		\checkmark	
Danish	√5			$\sqrt{5}$		\checkmark	
Dutch	√ ⁵			$\sqrt{5}$		\checkmark	
English	\checkmark			\checkmark		\checkmark	
Farsi	√ ⁵			$\sqrt{5}$		√6	

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XProtect Client	XProtect Mobile	XProtect Web Client	XProtect Smart Client		
Feature set when used with spe- cific XProtect VMS platform	XProtect Essential+ XProtect Express+ XProtect Professional+ XProtect Expert Corporate	XProtect Essential+ XProtect Express+ XProtect XProtect Expert XProtect Corporate	XProtect Essential+ XProtect Express+ XProtect XProtect Expert XProtect Corporate		
Finnish	√ ⁵	$\sqrt{5}$	√ ⁶		
French	$\sqrt{5}$	$\sqrt{5}$	\checkmark		
German	$\sqrt{5}$	$\sqrt{5}$	\checkmark		
Hebrew	$\sqrt{5}$	$\sqrt{5}$	√ ⁶		
Hindi	√ ⁵	$\sqrt{5}$	√ ⁶		
Hungarian	$\sqrt{5}$	$\sqrt{5}$	√ ⁶		
Icelandic	√ ⁵	√5	√6		
Italian	$\sqrt{5}$	$\sqrt{5}$	\checkmark		
Japanese	$\sqrt{5}$	$\sqrt{5}$	\checkmark		
Korean	√ ⁵	$\sqrt{5}$	\checkmark		
Norwegian (Bokmål)	√ ⁵	√5	√6		
Polish	$\sqrt{5}$	$\sqrt{5}$	\checkmark		
Portuguese (Brazilian)	√ ⁵	$\sqrt{5}$	\checkmark		
Russian	$\sqrt{5}$	$\sqrt{5}$	\checkmark		
Serbian	√ ⁵	√5	√6		
Slovak	$\sqrt{5}$	√5	√6		
Spanish	√ ⁵	√ ⁵	\checkmark		
Swedish	√ ⁵	√ ⁵	\checkmark		
Thai	√ ⁵	√5	√ ⁶		
Turkish	√ ⁵	√ ⁵	\checkmark		
Ukrainian	√ ⁵	√5	$\sqrt{6}$		

¹ Initial views created when using the "single computer" installation option

² Limited to certain camera models that can perform video analytics and export ONVIF compliant metadata

³ Requires Milestone Care Plus service coverage

⁴ Feature only applicable to exports in XProtect format

⁵ XProtect Mobile server localized to same languages as the management interface and documentation is only available in English

⁶ Only the user interface is localized; user's manual and online help is not localized



Milestone Systems is a leading provider of open platform video management software; technology that helps the world see how to ensure safety, protect assets and increase business efficiency. Milestone enables an open platform community that drives collaboration and innovation in the development and use of network video technology, with reliable and scalable solutions that are proven in more than 150,000 sites worldwide. Founded in 1998, Milestone is a stand-alone company in the Canon Group.