**Product Comparison Chart** 

# XProtect® 2023 R2 Video Management Software

Available June 20th, 2023



# 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	14

#### Introduction

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. Click here 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 Extensions 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.

Type of deployment  Licensing  Maximum number IP devices¹ per recording server  Number of recording servers per system  Maximum numbers of users  Customer Dashboard and Connected Services²  Alarm Manager  Video out via Milestone Open Network Bridge  Dual authorization (Smart Client users)  Supports XProtect Smart Client, XProtect Web Client and XProtect  Mobile  Secure HTTPS camera connectivity  (on supported devices)  Adding devices on HTTPS³  Single device firmware⁴ upgrade  Bulk device firmware⁴ upgrade  Bulk device firmware⁴ upgrade  Map function  Third-party application integration and support for video analytics⁵  Built-in Video Motion Detection (VMD) with Auto adjustable VMD  sensitivity  H.264, MJPEG, MPEG-4, MPEG-4 ASP & MxPEG  J.265  Adaptive streaming/playback  Direct streaming (mobile server)  Microsoft Active Directory support  Kerberos authentication  ✓ Metadata support  Centralized management  Flexible event rule engine  Hardware accelerated video decoding for Video Motion Detection (NVIDIA)  Hardware accelerated video decoding for Video Motion Detection (NVIDIA)  Hardware accelerated video decoding for Video Motion Detection (NVIDIA)  Hardware accelerated video decoding for Video Motion Detection (NVIDIA)  Hardware accelerated video decoding for Video Motion Detection (NVIDIA)  Hardware accelerated video decoding for Video Motion Detection (NVIDIA)  Hardware accelerated video decoding for Video Motion Detection (NVIDIA)  Hardware accelerated video decoding for Video Motion Detection (NVIDIA)  Hardware accelerated video decoding for Video Motion Detection (NVIDIA)  Hardware accelerated video decoding for Video Motion Detection (NVIDIA)  Hardware accelerated video decoding for Video Motion Detection (NVIDIA)  Hardware accelerated video decoding for Video Motion Detection (NVIDIA)  Hardware accelerated video decoding for Video Motion Detection (NVIDIA)  Hardware accelerated video decoding for Video Motion Detection (NVIDIA)  Hardware accelerated video decoding for Video Motion Detection (NVIDIA)	Perpetu 48  1 tted Unrestric Support	server ual Perpetual Unrestricted Unrestricted tted Unrestricted	Centrally managed, multiserver Perpetual Unrestricted Unrestricted Unrestricted Supported	Centrally managed, distributed sites Perpetual Unrestricted Unrestricted Unrestricted Supported
Licensing Free  Maximum number IP devices¹ per recording server  Number of recording servers per system 1  Maximum numbers of users Unrestricutors with a server of users Unrestricutors of users Unrestricutors with a server of users Unrestricutors of users Unrestricutors of users of users Unrestricutors of users of us	Perpetu 48  1 tted Unrestric Support	aged, multi- server  Jal Perpetual Unrestricted  Unrestricted Unrestricted  Unrestricted  Unrestricted  J  J	aged, multi- server Perpetual Unrestricted Unrestricted Unrestricted Supported	aged, distributed sites Perpetual Unrestricted Unrestricted Unrestricted
Maximum number IP devices¹ per recording server  Number of recording servers per system  Maximum numbers of users  Unrestri Customer Dashboard and Connected Services²  - Alarm Manager  Video out via Milestone Open Network Bridge  Dual authorization (Smart Client, XProtect Web Client and XProtect Mobile  Secure HTTPS camera connectivity (on supported devices)  Adding devices on HTTPS³  Single device firmware⁴ upgrade  Bulk device firmware⁴ upgrade  Map function  Third-party application integration and support for video analytics⁵  Julit-in Video Motion Detection (VMD) with Auto adjustable VMD sensitivity  H.2664, MJPEG, MPEG-4, MPEG-4 ASP & MxPEG  H.2656  Adaptive streaming/playback  Direct streaming (mobile server)  Microsoft Active Directory support  Kerberos authentication  Metadata support  Centralized management  Flexible event rule engine  Hardware accelerated video decoding for Video Motion Detection (Quick sync)  Hardware accelerated video decoding for Video Motion Detection (NVIDIA)  Hardware accelerated video decoding in the Mobile Server  Support for live video play without recording storage  Edge Storage and Scalable Video Quality Recording™  Smart Map functions  Media database encryption and digital signing  Recording Server communication encryption  Mobile Server communication encryption  Mobile Server communication encryption  Aprotect Management Server Failover  - Nerotect Management Server Failover	48  1 tted Unrestrict Support	Unrestricted  Unrestricted  Unrestricted  Unrestricted  Supported  ✓  ✓  ✓	Perpetual Unrestricted Unrestricted Unrestricted Supported  ✓	Perpetual Unrestricted Unrestricted Unrestricted
Maximum number IP devices¹ per recording server  Number of recording servers per system  1 Maximum numbers of users  Customer Dashboard and Connected Services²  - Alarm Manager  Video out via Milestone Open Network Bridge  Dual authorization (Smart Client, XProtect Web Client and XProtect Mobile  Secure HTTPS camera connectivity  (on supported devices)  Adding devices on HTTPS³  Single device firmware⁴ upgrade  Map function  Mird-party application integration and support for video analytics⁵  Julit-in Video Motion Detection (VMD) with Auto adjustable VMD sensitivity  H.264, MJPEG, MPEG-4, MPEG-4 ASP & MxPEG  H.2656  Adaptive streaming (mobile server)  Microsoft Active Directory support  ✓ Kerberos authentication  ✓ Metadata support  Centralized management Flexible event rule engine  Hardware accelerated video decoding for Video Motion Detection (VNIDIA)  Hardware accelerated video decoding for Video Motion Detection (VNIDIA)  Hardware accelerated video decoding in the Mobile Server  ✓ Support for live video play without recording storage  Edge Storage and Scalable Video Quality Recording™  Smart Map functions  Media database encryption and digital signing  Recording Server communication encryption  ✓ Mobile Server communication encryption  ✓ XProtect Management Server Failover  - Alarmangement Server Failover	ted Unrestrict Support	Unrestricted Unrestricted ted Supported	Unrestricted Unrestricted Supported	Unrestricted Unrestricted Unrestricted
Maximum numbers of users  Customer Dashboard and Connected Services²  - Alarm Manager  Video out via Milestone Open Network Bridge  Dual authorization (Smart Client users)  Supports XProtect Smart Client, XProtect Web Client and XProtect Mobile  Secure HTTPS camera connectivity (on supported devices)  Adding devices on HTTPS³  Single device firmware⁴ upgrade  Map function  Third-party application integration and support for video analytics⁵  Bullt-in Video Motion Detection (VMD) with Auto adjustable VMD sensitivity  H.264, MJPEG, MPEG-4, MPEG-4 ASP & MxPEG  H.2655  Adaptive streaming/playback  Direct streaming (mobile server)  Microsoft Active Directory support  ✓ Kerberos authentication  ✓ Metadata support  Centralized management  Flexible event rule engine  Hardware accelerated video decoding for Video Motion Detection (NNDIA)  Hardware accelerated video decoding for Video Motion Detection (NNDIA)  Hardware accelerated video decoding in the Mobile Server  ✓ Support for live video play without recording storage  Edge Storage and Scalable Video Quality Recording™  Smart Map functions  Media database encryption and digital signing  Recording Server communication encryption  ✓ Management Server communication encryption  ✓ VProtect Management Server Failover  - Unrestrication  Unrestrication  Unrestrication  Variation (Sprice (Sprice))  - Sprice (Sprice)  - Spr	tted Unrestrict Support	cted Unrestricted ted Supported	Unrestricted Supported  ✓	Unrestricted
Customer Dashboard and Connected Services² - Alarm Manager  Video out via Milestone Open Network Bridge Dual authorization (Smart Client users)  Supports XProtect Smart Client, XProtect Web Client and XProtect Mobile  Secure HTTPS camera connectivity (on supported devices)  Adding devices on HTTPS³  Single device firmware⁴ upgrade  Map function  Third-party application integration and support for video analytics⁵  Built-in Video Motion Detection (VMD) with Auto adjustable VMD sensitivity  H.264, MJPEG, MPEG-4, MPEG-4 ASP & MxPEG  H.2656  Adaptive streaming/playback Direct streaming/playback Direct streaming (mobile server)  Microsoft Active Directory support  Kerberos authentication  Metadata support  Centralized management Flexible event rule engine Hardware accelerated video decoding for Video Motion Detection (Quick sync) Hardware accelerated video decoding for Video Motion Detection (NVIDIA)  Hardware accelerated video decoding in the Mobile Server  Support for live video play without recording storage Edge Storage and Scalable Video Quality Recording™ Smart Map functions  Media database encryption and digital signing Recording Server communication encryption  Mobile Server communication encryption  VProtect Management Server Failover  - Alarmand Applanctions - Cambridge  - Cambridge - Ca	Support	ted Supported	Supported   ✓	
Alarm Manager  Video out via Milestone Open Network Bridge  Dual authorization (Smart Client users)  Supports XProtect Smart Client, XProtect Web Client and XProtect Mobile  Secure HTTPS camera connectivity (on supported devices)  Adding devices on HTTPS³  Single device firmware⁴ upgrade  Bulk device firmware⁴ upgrade  Map function  Third-party application integration and support for video analytics⁵  Built-in Video Motion Detection (VMD) with Auto adjustable VMD sensitivity  H.264, MJPEG, MPEG-4, MPEG-4 ASP & MxPEG  H.2656  Adaptive streaming/playback  Direct streaming (mobile server)  Microsoft Active Directory support  Kerberos authentication  Vetadata support  Centralized management Flexible event rule engine Hardware accelerated video decoding for Video Motion Detection (Quick sync)  Hardware accelerated video decoding in the Mobile Server  Vauport for live video play without recording storage Edge Storage and Scalable Video Quality Recording™  Smart Map functions  Media database encryption and digital signing Recording Server communication encryption  VAProtect Management Server Failover  - Support Centralized management server Failover  Application and variable video encryption  Vaportect Management Server Failover  - Support Centralized management server Failover	\frac{1}{2}	\frac{1}{\sqrt{1}}	√ √	Supported
Video out via Milestone Open Network Bridge Dual authorization (Smart Client users) - Supports XProtect Smart Client, XProtect Web Client and XProtect Mobile Secure HTTPS camera connectivity (on supported devices) Adding devices on HTTPS³ Single device firmware⁴ upgrade Bulk device firmware⁴ upgrade Map function Third-party application integration and support for video analytics⁵ Built-in Video Motion Detection (VMD) with Auto adjustable VMD sensitivity H.264, MJPEG, MPEG-4, MPEG-4 ASP & MxPEG H.2656  Adaptive streaming/playback Direct streaming (mobile server) Microsoft Active Directory support  Kerberos authentication  Metadata support Centralized management Flexible event rule engine Hardware accelerated video decoding for Video Motion Detection (Quick sync) Hardware accelerated video decoding for Video Motion Detection (NVIDIA) Hardware accelerated video decoding in the Mobile Server  Support for live video play without recording storage Edge Storage and Scalable Video Quality Recording™ - Smart Map functions Media database encryption and digital signing Recording Server communication encryption  Mobile Server communication encryption  Mobile Server communication encryption  Verotect Management Server Failover	\frac{1}{\sqrt{1}}	√ √	✓	
Video out via Milestone Open Network Bridge Dual authorization (Smart Client users) - Supports XProtect Smart Client, XProtect Web Client and XProtect Mobile Secure HTTPS camera connectivity (on supported devices) Adding devices on HTTPS³ Single device firmware⁴ upgrade Bulk device firmware⁴ upgrade Map function Third-party application integration and support for video analytics⁵ Built-in Video Motion Detection (VMD) with Auto adjustable VMD sensitivity H.264, MJPEG, MPEG-4, MPEG-4 ASP & MxPEG H.2656  Adaptive streaming/playback Direct streaming (mobile server) Microsoft Active Directory support  Kerberos authentication  Metadata support Centralized management Flexible event rule engine Hardware accelerated video decoding for Video Motion Detection (Quick sync) Hardware accelerated video decoding for Video Motion Detection (NVIDIA) Hardware accelerated video decoding in the Mobile Server  Support for live video play without recording storage Edge Storage and Scalable Video Quality Recording™ - Smart Map functions Media database encryption and digital signing Recording Server communication encryption  Mobile Server communication encryption  Mobile Server communication encryption  Verotect Management Server Failover	\frac{1}{\sqrt{1}}	<b>√</b>		<b>√</b>
Dual authorization (Smart Client users)  Supports XProtect Smart Client, XProtect Web Client and XProtect Mobile  Secure HTTPS camera connectivity (on supported devices)  Adding devices on HTTPS³  Single device firmware⁴ upgrade  Bulk device firmware⁴ upgrade  Map function  Third-party application integration and support for video analytics⁵  Juilt-in Video Motion Detection (VMD) with Auto adjustable VMD  sensitivity  H.264, MJPEG, MPEG-4, MPEG-4 ASP & MxPEG  H.2656  Adaptive streaming/playback  Direct streaming (mobile server)  Microsoft Active Directory support  Kerberos authentication  ✓  Kerberos authentication  ✓  Centralized management  Flexible event rule engine  Hardware accelerated video decoding for Video Motion Detection (Quick sync)  Hardware accelerated video decoding in the Mobile Server  Support for live video play without recording storage  ✓  Edge Storage and Scalable Video Quality Recording™  Smart Map functions  Media database encryption and digital signing  Recording Server communication encryption  ✓  XProtect Management Server Failover  - Support of Management Server communication encryption  ✓  XProtect Management Server Failover	\frac{1}{\sqrt{1}}	<b>√</b>	<b>√</b>	<b>√</b>
Supports XProtect Smart Client, XProtect Web Client and XProtect Mobile Secure HTTPS camera connectivity (on supported devices) Adding devices on HTTPS³  Single device firmware⁴ upgrade Bulk device firmware⁴ upgrade Wap function Third-party application integration and support for video analytics⁵  Built-in Video Motion Detection (VMD) with Auto adjustable VMD sensitivity H.264, MJPEG, MPEG-4, MPEG-4 ASP & MxPEG H.2656  Adaptive streaming/playback Direct streaming (mobile server) Microsoft Active Directory support  Kerberos authentication  ✓ Metadata support Centralized management Hardware accelerated video decoding for Video Motion Detection (Quick sync) Hardware accelerated video decoding for Video Motion Detection (NVIDIA) Hardware accelerated video decoding in the Mobile Server  Support for live video play without recording storage ✓ Edge Storage and Scalable Video Quality Recording™ Smart Map functions Media database encryption and digital signing Recording Server communication encryption ✓ Management Server Failover  - Verotect Management Server Failover	√ ✓			<b>√</b>
Secure HTTPS camera connectivity (on supported devices)  Adding devices on HTTPS³  Single device firmware⁴ upgrade  Bulk device firmware⁴ upgrade  Map function  Third-party application integration and support for video analytics⁵  Built-in Video Motion Detection (VMD) with Auto adjustable VMD sensitivity  H.264, MJPEG, MPEG-4, MPEG-4 ASP & MxPEG  H.2656  Adaptive streaming/playback  Direct streaming (mobile server)  Microsoft Active Directory support  Kerberos authentication  Metadata support  Centralized management  Flexible event rule engine  Hardware accelerated video decoding for Video Motion Detection (Quick sync)  Hardware accelerated video decoding for Video Motion Detection (NVIDIA)  Hardware accelerated video decoding in the Mobile Server  Support for live video play without recording storage  Edge Storage and Scalable Video Quality Recording™  Smart Map functions  Media database encryption and digital signing  Recording Server communication encryption  ✓  XProtect Management Server Failover			✓	✓
Adding devices on HTTPS³  Single device firmware⁴ upgrade  Map function  Third-party application integration and support for video analytics⁵  Built-in Video Motion Detection (VMD) with Auto adjustable VMD sensitivity  H.264, MJPEG, MPEG-4, MPEG-4 ASP & MxPEG  H.2656  Adaptive streaming/playback Direct streaming (mobile server)  Microsoft Active Directory support  Kerberos authentication  Metadata support  Centralized management  Flexible event rule engine  Hardware accelerated video decoding for Video Motion Detection (Quick sync)  Hardware accelerated video decoding in the Mobile Server  Support for live video play without recording storage  Edge Storage and Scalable Video Quality Recording™  - Smart Map functions  Media database encryption and digital signing  Recording Server communication encryption  ✓ XProtect Management Server Failover  - ✓  Verotect Management Server Failover		✓	<b>√</b>	<b>√</b>
Single device firmware⁴ upgrade  Bulk device firmware⁴ upgrade  Map function  Third-party application integration and support for video analytics⁵  Built-in Video Motion Detection (VMD) with Auto adjustable VMD sensitivity  H.264, MJPEG, MPEG-4, MPEG-4 ASP & MxPEG  H.2656  Adaptive streaming/playback Direct streaming (mobile server)  Microsoft Active Directory support  Kerberos authentication  Metadata support  Centralized management  Flexible event rule engine  Hardware accelerated video decoding for Video Motion Detection (Quick sync)  Hardware accelerated video decoding for Video Motion Detection (NVIDIA)  Hardware accelerated video decoding in the Mobile Server  Support for live video play without recording storage  Edge Storage and Scalable Video Quality Recording™  - Smart Map functions  Media database encryption and digital signing  Recording Server communication encryption  ✓ Management Server communication encryption  ✓ XProtect Management Server Failover	✓	<b>√</b>	<b>√</b>	<b>√</b>
Bulk device firmware⁴ upgrade  Map function  Third-party application integration and support for video analytics⁵  Built-in Video Motion Detection (VMD) with Auto adjustable VMD sensitivity  H.264, MJPEG, MPEG-4, MPEG-4 ASP & MxPEG  H.2656  Adaptive streaming/playback  Direct streaming (mobile server)  Microsoft Active Directory support  Kerberos authentication  Metadata support  Centralized management  Flexible event rule engine  Hardware accelerated video decoding for Video Motion Detection (Quick sync)  Hardware accelerated video decoding for Video Motion Detection (NVIDIA)  Hardware accelerated video decoding in the Mobile Server  Support for live video play without recording storage  Edge Storage and Scalable Video Quality Recording™  - Smart Map functions  Media database encryption and digital signing  Recording Server communication encryption  ✓ XProtect Management Server Failover	<b>√</b>		<b></b>	<b>√</b>
Map function Third-party application integration and support for video analytics⁵  Built-in Video Motion Detection (VMD) with Auto adjustable VMD sensitivity  H.264, MJPEG, MPEG-4, MPEG-4 ASP & MxPEG  H.2656  Adaptive streaming/playback Direct streaming (mobile server)  Microsoft Active Directory support  Kerberos authentication  Metadata support  Centralized management Flexible event rule engine  Hardware accelerated video decoding for Video Motion Detection (Quick sync)  Hardware accelerated video decoding for Video Motion Detection (NVIDIA)  Hardware accelerated video decoding in the Mobile Server  Support for live video play without recording storage  Edge Storage and Scalable Video Quality Recording™  Smart Map functions  Media database encryption and digital signing  Recording Server communication encryption  ✓  XProtect Management Server Failover			<b>/</b>	<b>√</b>
Third-party application integration and support for video analytics⁵  Built-in Video Motion Detection (VMD) with Auto adjustable VMD sensitivity  H.264, MJPEG, MPEG-4, MPEG-4 ASP & MxPEG  H.2656  Adaptive streaming/playback  Direct streaming (mobile server)  Microsoft Active Directory support  Kerberos authentication  Metadata support  Centralized management  Flexible event rule engine  Hardware accelerated video decoding for Video Motion Detection (Quick sync)  Hardware accelerated video decoding for Video Motion Detection (NVIDIA)  Hardware accelerated video decoding in the Mobile Server  Support for live video play without recording storage  Edge Storage and Scalable Video Quality Recording™  Smart Map functions  Media database encryption and digital signing  Recording Server communication encryption  Management Server communication encryption  ✓  XProtect Management Server Failover	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>
Built-in Video Motion Detection (VMD) with Auto adjustable VMD sensitivity  H.264, MJPEG, MPEG-4, MPEG-4 ASP & MxPEG  H.2656  Adaptive streaming/playback  Direct streaming (mobile server)  Microsoft Active Directory support  Kerberos authentication  Metadata support  Centralized management  Flexible event rule engine  Hardware accelerated video decoding for Video Motion Detection (Quick sync)  Hardware accelerated video decoding for Video Motion Detection (NVIDIA)  Hardware accelerated video decoding in the Mobile Server  Support for live video play without recording storage  Edge Storage and Scalable Video Quality Recording™  - Smart Map functions  Media database encryption and digital signing  Recording Server communication encryption  ✓ Management Server communication encryption  ✓ XProtect Management Server Failover	<b>✓</b>	✓	<b>/</b>	<b>√</b>
H.264, MJPEG, MPEG-4, MPEG-4 ASP & MxPEG  H.2656  Adaptive streaming/playback  Direct streaming (mobile server)  Microsoft Active Directory support  Kerberos authentication  Metadata support  Centralized management  Flexible event rule engine  Hardware accelerated video decoding for Video Motion Detection (Quick sync)  Hardware accelerated video decoding for Video Motion Detection (NVIDIA)  Hardware accelerated video decoding in the Mobile Server  Support for live video play without recording storage  Edge Storage and Scalable Video Quality Recording™  Smart Map functions  Media database encryption and digital signing  Recording Server communication encryption  Management Server communication encryption  ✓  XProtect Management Server Failover	✓	<b>√</b>	<b>√</b>	✓
H.2656  Adaptive streaming/playback Direct streaming (mobile server)  Microsoft Active Directory support  Kerberos authentication  Metadata support  Centralized management  Flexible event rule engine  Hardware accelerated video decoding for Video Motion Detection (Quick sync)  Hardware accelerated video decoding for Video Motion Detection (NVIDIA)  Hardware accelerated video decoding in the Mobile Server  Support for live video play without recording storage  ✓ Edge Storage and Scalable Video Quality Recording™  Smart Map functions  Media database encryption and digital signing  Recording Server communication encryption  ✓ Mobile Server communication encryption  ✓ XProtect Management Server Failover	<b>√</b>		<b>/</b>	<b>√</b>
Direct streaming (mobile server)  Microsoft Active Directory support  Kerberos authentication  Metadata support  Centralized management  Flexible event rule engine  Hardware accelerated video decoding for Video Motion Detection (Quick sync)  Hardware accelerated video decoding for Video Motion Detection (NVIDIA)  Hardware accelerated video decoding in the Mobile Server  Support for live video play without recording storage  Edge Storage and Scalable Video Quality Recording™  Smart Map functions  Media database encryption and digital signing  Recording Server communication encryption  Management Server communication encryption  ✓  XProtect Management Server Failover	<b>√</b>		<b></b>	<b>√</b>
Direct streaming (mobile server)  Microsoft Active Directory support  Kerberos authentication  Metadata support  Centralized management  Flexible event rule engine  Hardware accelerated video decoding for Video Motion Detection (Quick sync)  Hardware accelerated video decoding for Video Motion Detection (NVIDIA)  Hardware accelerated video decoding in the Mobile Server  Support for live video play without recording storage  Edge Storage and Scalable Video Quality Recording™  Smart Map functions  Media database encryption and digital signing  Recording Server communication encryption  Management Server communication encryption  ✓  XProtect Management Server Failover	<b>✓</b>	✓	<b>/</b>	<b>√</b>
Microsoft Active Directory support  Kerberos authentication  Metadata support  Centralized management  Flexible event rule engine  Hardware accelerated video decoding for Video Motion Detection (Quick sync)  Hardware accelerated video decoding for Video Motion Detection (NVIDIA)  Hardware accelerated video decoding in the Mobile Server  Support for live video play without recording storage  Edge Storage and Scalable Video Quality Recording™  Smart Map functions  Media database encryption and digital signing  Recording Server communication encryption  Management Server communication encryption  ✓  XProtect Management Server Failover	<b>√</b>	<b>√</b>	<b></b>	<b>√</b>
Kerberos authentication  Metadata support  Centralized management  Flexible event rule engine  Hardware accelerated video decoding for Video Motion Detection (Quick sync)  Hardware accelerated video decoding for Video Motion Detection (NVIDIA)  Hardware accelerated video decoding in the Mobile Server  Support for live video play without recording storage  √ Edge Storage and Scalable Video Quality Recording™  - Smart Map functions  Media database encryption and digital signing  Recording Server communication encryption  ✓ Management Server communication encryption  ✓ XProtect Management Server Failover	✓	✓	<b>√</b>	<b>√</b>
Centralized management  Flexible event rule engine  Hardware accelerated video decoding for Video Motion Detection (Quick sync)  Hardware accelerated video decoding for Video Motion Detection (NVIDIA)  Hardware accelerated video decoding in the Mobile Server  Support for live video play without recording storage  √ Edge Storage and Scalable Video Quality Recording™  - Smart Map functions  Media database encryption and digital signing  Recording Server communication encryption  ✓ Management Server communication encryption  ✓ XProtect Management Server Failover	<b>√</b>		<b></b>	<b>√</b>
Centralized management  Flexible event rule engine  Hardware accelerated video decoding for Video Motion Detection (Quick sync)  Hardware accelerated video decoding for Video Motion Detection (NVIDIA)  Hardware accelerated video decoding in the Mobile Server  Support for live video play without recording storage  √ Edge Storage and Scalable Video Quality Recording™  - Smart Map functions  Media database encryption and digital signing  Recording Server communication encryption  ✓ Management Server communication encryption  ✓ XProtect Management Server Failover	<b>✓</b>	✓	<b>/</b>	<b>√</b>
Flexible event rule engine  Hardware accelerated video decoding for Video Motion Detection (Quick sync)  Hardware accelerated video decoding for Video Motion Detection (NVIDIA)  Hardware accelerated video decoding in the Mobile Server  Support for live video play without recording storage  Edge Storage and Scalable Video Quality Recording™  Smart Map functions  Media database encryption and digital signing  Recording Server communication encryption  Management Server communication encryption  ✓  XProtect Management Server Failover				√
Hardware accelerated video decoding for Video Motion Detection (Quick sync)  Hardware accelerated video decoding for Video Motion Detection (NVIDIA)  Hardware accelerated video decoding in the Mobile Server  Support for live video play without recording storage  Edge Storage and Scalable Video Quality Recording™  - Smart Map functions  Media database encryption and digital signing  Recording Server communication encryption  ✓ Management Server communication encryption  ✓ XProtect Management Server Failover	✓	· ✓	✓ <b>/</b>	√
Hardware accelerated video decoding for Video Motion Detection (NVIDIA)  Hardware accelerated video decoding in the Mobile Server  Support for live video play without recording storage  ✓ Edge Storage and Scalable Video Quality Recording™  - Smart Map functions  Media database encryption and digital signing  Recording Server communication encryption  ✓ Management Server communication encryption  ✓ XProtect Management Server Failover	✓	<b>√</b>	<b>√</b>	<b>√</b>
Hardware accelerated video decoding in the Mobile Server  Support for live video play without recording storage  ✓ Edge Storage and Scalable Video Quality Recording™  - Smart Map functions  Media database encryption and digital signing  Recording Server communication encryption  ✓ Management Server communication encryption  ✓ WProtect Management Server Failover  ✓  Verotect Management Server Failover	-	-	<b>√</b>	<b>√</b>
Support for live video play without recording storage  Edge Storage and Scalable Video Quality Recording™  - Smart Map functions  - Media database encryption and digital signing - Recording Server communication encryption  ✓ Management Server communication encryption  ✓ Mobile Server communication encryption  ✓ XProtect Management Server Failover  -	1		<b>√</b>	
Edge Storage and Scalable Video Quality Recording™ - Smart Map functions - Media database encryption and digital signing - Recording Server communication encryption ✓ Management Server communication encryption ✓ Mobile Server communication encryption ✓ XProtect Management Server Failover -				
Smart Map functions       -         Media database encryption and digital signing       -         Recording Server communication encryption       ✓         Management Server communication encryption       ✓         Mobile Server communication encryption       ✓         XProtect Management Server Failover       -				
Media database encryption and digital signing       -         Recording Server communication encryption       ✓         Management Server communication encryption       ✓         Mobile Server communication encryption       ✓         XProtect Management Server Failover       -	-	-		
Recording Server communication encryption  Management Server communication encryption  Mobile Server communication encryption  Verotect Management Server Failover	-	_		
Management Server communication encryption       ✓         Mobile Server communication encryption       ✓         XProtect Management Server Failover       -				· ✓
Mobile Server communication encryption       ✓         XProtect Management Server Failover       -	-		<b>√</b>	
XProtect Management Server Failover -	-		<b>√</b>	1
	- - - -	-		Requires license
Hot- & cold-failover recording server -	- - - - -		√	√
Evidence Lock -	- - - - -	-	-	
	- - - - -	-	Doguiros licopeo	
XProtect Incident Manager -	- - - - - - - -	-		
Supports XProtect Smart Wall - Milestone Federated Architecture™ -	- - - - - - - -	cense Requires license	Requires license  Remote site	Central/
Milestone Interconnect™ -	- - - - - - - -	-	RAMOTA CITA	Remote site



- <sup>1</sup> 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 <a href="https://www.milestonesys.com/community/business-partner-tools/supported-devices/">https://www.milestonesys.com/community/business-partner-tools/supported-devices/</a> 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.
- <sup>2</sup> Requires active Milestone Care Plus coverage
- <sup>3</sup> Applicable for devices integrated through Axis, Bosch, Hikvision, Hanwha, Panasonic and ONVIF drivers (drivers in Legacy Device Pack excluded)
- <sup>4</sup> Applicable only for devices integrated through Axis, Bosch, Hanwha and ONVIF drivers (drivers in Legacy Device Pack excluded)
- <sup>5</sup> Using Milestone Integration Platform (MIP)
- <sup>6</sup> Please check <a href="https://www.milestonesys.com/support/resources/system-requirements/">https://www.milestonesys.com/support/resources/system-requirements/</a> for graphic cards and performance requirements



#### **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	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>
Hot- & cold-failover recording server	-	-	-		1
Maximum number of IP devices 1 per recording					
server	8	48	Unrestricted	Unrestricted	Unrestricted
Maximum number of recording servers per sys-					
tem	1	1	Unrestricted	Unrestricted	Unrestricted
Recording server manager	<b>√</b>	<b>√</b>	<b>√</b>		<b>√</b>
Management Server	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>
Management Server compatible with Microsoft					
clustering	$\checkmark$	✓	✓	✓	✓
Management client (dedicated client application	,	,	,	,	,
for local or remote management)	✓	✓	✓	✓	✓
Event server (for handling of events and alarms)	✓	✓	✓	✓	<b>✓</b>
Failover event server (redundant cluster)	✓	✓	✓	✓	✓
XProtect Mobile (server and client)	✓	✓	✓	✓	✓
XProtect Smart Client	✓	✓	✓	✓	✓
XProtect Web Client	✓	✓	✓	✓	✓
XProtect Smart Client - Player (local playback/ex-	✓	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>
port)					
Run servers as Windows Services	<b>√</b>	✓	<b>√</b>	✓	✓
Available for AWS Cloud Deployment in AWS	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>/</b>
Marketplace					
Licensing	0.10 1.1				
Licensing <sup>2</sup>	8 IP devices	Perpetual	Perpetual	Perpetual	Perpetual
Distributed operation					C . 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 Connection Service	-	-	-	-	✓
Device support					
Support for ONVIF & PSIA compliant devices	✓	✓	✓	✓	✓
Generic device support via Milestone universal	/	,		,	,
driver	✓	<b>√</b>	✓	✓	<b>√</b>
Metadata from camera embedded analytics	✓	✓	✓	✓	✓
Number of supported IP devices	11000+	11000+	11000+	11000+	11000+
Secure HTTPS camera connectivity (on sup-	<b>√</b>	✓	<b>√</b>	✓	<b>√</b>
ported devices)	<b>v</b>	•	•	v	,
Adding devices on HTTPS <sup>3</sup>	✓	✓	✓	✓	✓
Single device firmware upgrade <sup>4</sup>	✓	<b>√</b>	✓	✓	<b>√</b>
Bulk device firmware upgrade <sup>4</sup>	-	-	-	✓	✓
Device firmware version listing	✓	✓	✓	<b>√</b>	<b>√</b>
Update hardware – refresh option	✓	√	✓	✓	✓
Video processing					
H.264, MJPEG, MPEG-4, MPEG-4 ASP and MxPEG	✓	✓	<b>√</b>	✓	✓
H.265 <sup>5</sup>	✓	✓	✓	✓	✓
Metadata support	✓	<b>√</b>	<b>√</b>	✓	✓
Dual stream (live and recording) per camera	✓	✓	✓	✓	✓
Generic 360 dewarping	✓	<b>√</b>	✓	✓	<b>√</b>
Multi-live streaming	-	✓	✓	✓	✓



XProtect VMS Products	XProtect Essential+	XProtect Express+	XProtect Professional+	XProtect Expert	XProtect Corporate
Adaptive streaming/playback	-	✓	✓	✓	✓
Direct streaming (mobile server)	-	✓	✓	✓	✓
Client video stream down sampling (resolution	✓	<b>√</b>	<b>√</b>	<b>√</b>	<b>✓</b>
and FPS) option					
Adjustable GOP size (MPEG4/H.264/H.265)	✓	✓	✓	✓	✓
Send camera pre-alarm images (pre-recording buffer) to recording server	✓	✓	<b>√</b>	<b>√</b>	✓
Video recording speed up on motion, event or time schedule	✓	✓	✓	✓	✓
Built-in Video Motion Detection (VMD)	✓	✓	✓	✓	✓
Auto adjustable VMD sensitivity	✓	✓	✓	✓	✓
Hardware accelerated video decoding for VMD (Quick Sync)	✓	✓	✓	✓	✓
Hardware accelerated video decoding for VMD (NVIDIA)	-	-	-	<b>√</b>	✓
Hardware accelerated video decoding in the Mobile Server	✓	✓	<b>√</b>	<b>√</b>	✓
Motion metadata generated during VMD analysis	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>
VMD exclusion zones	<b>√</b>	<b>√</b>	<i>J</i>	<i>J</i>	
Video motion detections per server	·		cted cameras		
Audio					
One-way audio - live and recording support	✓	✓	✓	✓	✓
Two-way audio - live support	✓	✓	✓	✓	✓
Two-way audio – recording support	✓	✓	✓	✓	✓
Two-way AAC Audio support	-	✓	✓	✓	✓
Maximum number of supported audio channels	8	48	Unrestricted	Unrestricted	Unrestricted
Playback of audio files on rule	✓	✓	✓	✓	✓
Pan-tilt-zoom (PTZ)					
Preset positions per camera	Unrestricted	Unrestricted	Unrestricted	Unrestricted	Unrestricted
Go-to preset on event	✓	✓	<b>√</b>	✓	✓
Preset patrolling	✓	✓	✓	✓	✓
Combine patrolling and go-to preset on event	$\checkmark$	✓	✓	✓	✓
Scanning/transition speed	✓	✓	✓	✓	✓
Number of PTZ priority levels for prioritized PTZ control <sup>6</sup>	1	1	3	32,000	32,000
I/O and events					
Hardware configurable events (such as I/O input,					
motion, tampering, temperature, communication failure)	✓	✓	<b>√</b>	<b>√</b>	<b>√</b>
Motion detection events (VMD in recording server)	✓	✓	✓	✓	✓
System error events (for example disk full)	✓	✓	✓	✓	✓
Manual / User defined events	✓	✓	✓	✓	✓
Generic events from external systems				,	✓
	✓	✓	✓	✓	
Event-based device configuration	✓	✓	✓	✓	✓
Event-based notification	√ √	√ √	√ √	√ √	√ √
Event-based notification Event-based output control	√ √ √	\frac{1}{}	\frac{1}{}	\frac{1}{}	√ √ √
Event-based notification Event-based output control Event-based device start/stop	\frac{1}{} \frac{1}{} \frac{1}{}	\ \(  \) \(  \)	\frac{1}{\sqrt{1}}	\frac{1}{\sqrt{1}}	\frac{1}{}
Event-based notification Event-based output control Event-based device start/stop Event-based matrix control	√ √ √	\frac{1}{}	\frac{1}{}	\frac{1}{}	√ √ √
Event-based notification  Event-based output control  Event-based device start/stop  Event-based matrix control  Flexible event rule engine for definition of actions	\frac{1}{} \frac{1}{} \frac{1}{}	\ \(  \) \(  \)	\frac{1}{\sqrt{1}}	\frac{1}{\sqrt{1}}	\frac{1}{\sqrt{1}}
Event-based notification Event-based output control Event-based device start/stop Event-based matrix control Flexible event rule engine for definition of actions on events	\frac{1}{} \frac{1}{} \frac{1}{} \frac{1}{}	\frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}}	\frac{1}{1}	\frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}}	\frac{}{}
Event-based notification Event-based output control Event-based device start/stop Event-based matrix control Flexible event rule engine for definition of actions on events  Bookmark function	\frac{1}{} \frac{1}{} \frac{1}{} \frac{1}{}	\frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}}	\frac{1}{1} \frac{1} \frac{1}{1} \frac{1}{1} \frac{1}{1} \frac{1}{	\frac{1}{1} \frac{1} \frac{1}{1} \frac{1}{1} \frac{1}{1} \frac{1}{	\frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}}
Event-based notification Event-based output control Event-based device start/stop Event-based matrix control Flexible event rule engine for definition of actions on events	\frac{1}{} \frac{1}{} \frac{1}{} \frac{1}{}	\frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}}	\frac{1}{1}	\frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}}	\frac{1}{\sqrt{1}}
Event-based notification Event-based output control Event-based device start/stop Event-based matrix control Flexible event rule engine for definition of actions on events  Bookmark function  Manual bookmarking (quick bookmarking + bookmarking with details)	\frac{1}{} \frac{1}{} \frac{1}{} \frac{1}{}	\frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}}	\frac{1}{1} \frac{1} \frac{1}{1} \frac{1}{1} \frac{1}{1} \frac{1}{	\frac{1}{1} \frac{1} \frac{1}{1} \frac{1}{1} \frac{1}{1} \frac{1}{	\frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}}
Event-based notification Event-based output control Event-based device start/stop Event-based matrix control Flexible event rule engine for definition of actions on events  Bookmark function  Manual bookmarking (quick bookmarking +	\frac{1}{\sqrt{1}} \frac{1}{\sqr	\frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}}	\frac{1}{1}	\frac{1}{1} \frac{1}{1} \frac{1}{1} \frac{1}{1} \frac{1}{1}	\frac{1}{\sqrt{1}}
Event-based notification Event-based output control Event-based device start/stop Event-based matrix control Flexible event rule engine for definition of actions on events  Bookmark function  Manual bookmarking (quick bookmarking + bookmarking with details)  Rule-based bookmarking	\frac{1}{\sqrt{1}} \frac{1}{\sqr	\frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}}	\frac{1}{1}	\frac{1}{1} \frac{1}{1} \frac{1}{1} \frac{1}{1} \frac{1}{1}	\frac{1}{\sqrt{1}}
Event-based notification Event-based output control Event-based device start/stop Event-based matrix control Flexible event rule engine for definition of actions on events  Bookmark function  Manual bookmarking (quick bookmarking + bookmarking with details) Rule-based bookmarking  Sharing functionality	√ √ √ √ - -	\frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}}	\frac{1}{\sqrt{1}}	\frac{1}{\sqrt{1}} \frac{1}{\sqr	\frac{1}{\sqrt{1}}
Event-based notification Event-based output control Event-based device start/stop Event-based matrix control Flexible event rule engine for definition of actions on events  Bookmark function  Manual bookmarking (quick bookmarking + bookmarking with details) Rule-based bookmarking  Sharing functionality  Sharing bookmarks between Mobile Clients	√ √ √ √ - -	\frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}}	\frac{1}{1}	\frac{1}{1}	\frac{1}{\sqrt{1}}
Event-based notification Event-based output control Event-based device start/stop Event-based matrix control Flexible event rule engine for definition of actions on events  Bookmark function  Manual bookmarking (quick bookmarking + bookmarking with details) Rule-based bookmarking  Sharing functionality Sharing bookmarks between Mobile Clients Sharing a link to camera's live video stream between Mobile Clients  Evidence Lock	√ √ √ √ - -	\frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}}	\frac{1}{\sqrt{1}}	\frac{1}{\sqrt{1}} \frac{1}{\sqr	\frac{1}{\sqrt{1}}
Event-based notification Event-based output control Event-based device start/stop Event-based matrix control Flexible event rule engine for definition of actions on events  Bookmark function Manual bookmarking (quick bookmarking + bookmarking with details) Rule-based bookmarking  Sharing functionality Sharing bookmarks between Mobile Clients Sharing a link to camera's live video stream between Mobile Clients  Evidence Lock Lock video for one or multiple cameras	√ √ √ √ - -	\frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}}	\frac{1}{\sqrt{1}}	\frac{1}{\sqrt{1}} \frac{1}{\sqr	\frac{1}{\sqrt{1}}
Event-based notification Event-based output control Event-based device start/stop Event-based matrix control Flexible event rule engine for definition of actions on events  Bookmark function  Manual bookmarking (quick bookmarking + bookmarking with details) Rule-based bookmarking  Sharing functionality Sharing bookmarks between Mobile Clients Sharing a link to camera's live video stream between Mobile Clients  Evidence Lock	- -	- -	\frac{1}{\sqrt{1}}	\frac{1}{1}	\frac{1}{\sqrt{1}} \frac{1}{\sqr



			<u>+</u>		
XProtect VMS Products	XProtect Essential+	XProtect Express+	XProtect Professional+	XProtect Expert	XProtect Corporate
Alarm Manager					
Alarm description with work instructions and optional initial owner of alarm	-	✓	<b>√</b>	<b>√</b>	<b>√</b>
Time profiles for alarms	_	<b>√</b>	<b>√</b>	<b>/</b>	<b>√</b>
View triggered alarms	-		<b>√</b>	<b>√</b>	
Manage alarms (reassign, change status, comment)	-	✓	√ ·	√	√
Push alarms to users of XProtect Mobile <sup>7</sup>	_	<b>✓</b>		<b>√</b>	<b>√</b>
Maximum number of related cameras in alarm preview window	-	15	15	15	15
Number of alarm priority levels	_	32,000	32,000	32,000	32,000
Customizable alarm priority levels, categories,	-	√	J2,000	√	√
statuses, and result codes Customizable sound notification	_	<b>√</b>		<b>✓</b>	<b>√</b>
Alarm handling reporting	-	✓ ✓	<b>√</b>	✓ ✓	<b>√</b>
Alarm logging	-	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>
Recording server, storage and archiving					
Pre-recording buffer in RAM	<b>√</b>	✓	✓	✓	✓
Video retention time	Unrestricted	Unrestricted	Unrestricted	Unrestricted	Unrestricted
Recording capacity per device/day	Unrestricted	Unrestricted	Unrestricted	Unrestricted	Unrestricted
Archiving of recordings with network drive support	✓	✓	✓	✓	✓
Online access to archives	✓	✓	✓	<b>√</b>	✓
Archiving schedules	Hourly	Hourly	Hourly	Hourly	Hourly
Storage definition and retention time per device	✓	✓	✓	✓	✓
Storage definition and retention time that can be applied to individual cameras or common for	✓	✓	<b>√</b>	<b>√</b>	✓
multiple devices Multi-stage video storage and data grooming		_	-	<b>✓</b>	<b>√</b>
Storage overview (used vs. available space) of	<u>√</u>	✓	<b>√</b>	<b>√</b>	<b>√</b>
available storage drives Support for live video play without recording	<b>√</b>	<b>√</b>	✓	<b>√</b>	<b>√</b>
storage Event on premature deletion of video due to in-	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	✓
sufficient physical storage	<b>V</b>	V			
Edge Storage support with flexible retrieval	-	-	✓	✓	✓
Scalable Video Quality Recording™	-	-	<b>√</b>	✓	<b>✓</b>
Evidence Lock	-	-	-	-	<b>√</b>
Media database encryption and digital signing Encryption of communication with connected	-			<b>√</b>	✓
servers/clients/ integrations	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>
Multicast support Integration		-	-	✓	✓
Plug-in, Protocol, Component integration via MIP					
SDK	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>
System Configuration via MIP SDK and REST API Live Video streaming via WebRTC	✓ ✓	✓ ✓	√ √	✓ ✓	✓ ✓
Device integration through Driver Framework	✓ ✓	✓ ✓	<b>√</b>	✓ ✓	✓ ✓
Metadata integration	✓ ✓	✓ ✓	<b>√</b>	✓ ✓	✓ ✓
Event and alarm integration via MIP SDK and	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>
REST API (beta)  Event and action rule engine integration via MIP	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>
SDK Video processing service in MIP SDK	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	
Milestone Al Bridge	✓ ✓	✓ ✓	✓ ✓	✓ ✓	<b>√</b>
Webhooks	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>
Support for XProtect Extensions					
XProtect Access	-	Requires license	Requires license	Requires license	Requires license
XProtect LPR	-	Requires license	Requires license	Requires license	Requires license
XProtect Smart Wall	-	-	-	Requires license	<b>√</b>
XProtect Transact	-	Requires license	Requires license	Requires license	Requires license
XProtect Retail	-	Requires license	Requires license	Requires license	Requires license
XProtect Screen Recorder <sup>8</sup>	-	✓	✓	✓	✓



XProtect VMS Products	XProtect Essential+	XProtect Express+	XProtect Professional+	XProtect Expert	XProtect Corporate
XProtect Incident Manager	-	Requires license	Requires license	Requires license	✓
XProtect Management Server Failover	-	-	-	Requires license	Requires license
Milestone Open Network Bridge	-	Requires license	Requires license	Requires license	Requires license
XProtect Rapid REVIEW	-	Requires license	Requires license	Requires license	Requires license
XProtect Hospital Assist	-	Requires license	Requires license	Requires license	Requires license
Management					
Maximum number of clients	Unrestricted	Unrestricted	Unrestricted	Unrestricted	Unrestricted
Password protected system configuration	<b>√</b>	√	<b>√</b>	<b>√</b>	<b>√</b>
Configuration wizards for aided system setup	✓ ✓	✓ ✓	√ √	√ √	✓ ✓
Device scanning with device model detection  Device replacement wizard	<b>√</b>	<b>√</b>	✓ ✓	✓ ✓	✓ ✓
Management Client device search filter	✓	✓ ✓	<b>√</b>	<b>√</b>	<b>√</b>
Move device wizard for moving hardware devices	V	V			V
(e.g. cameras) between recording servers	-	-	✓	✓	✓
Centralized recording server & device manage-					
ment	✓	✓	✓	✓	✓
Device group support	<b>√</b>	✓	<b>√</b>	<b>√</b>	✓
Management Client profiles	-	-	-	-	✓
Centralized management of XProtect Smart Cli-					
ent application options (Number of supported	-	-	3	12	Unrestricted
XProtect Smart Client profiles)					
Day length time profile	✓	✓	✓	✓	✓
On-the-fly configuration changes	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>
Scheduled start/stop of devices	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>
Configuration reporting	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>
Built-in backup-restore support	<b>√</b>	√	√	<b>√</b>	<b>√</b>
Automatic license activation of online systems Offline license activation	✓ ✓	✓ ✓	√ √	√ √	√ √
Add/replace devices without reactivation in of-	<b>√</b>	V	V	<b>√</b>	V
fline systems	✓	✓	✓	✓	✓
Customizable access port with NAT support	<b>√</b>	<b>√</b>		<b>√</b>	
Device Password Management <sup>9</sup>	-	-			
Initial setup of credentials on devices <sup>10</sup>	<b>√</b>	✓	✓	√	√ ·
Current device user handling <sup>11</sup>	-	-	<b>√</b>	<b>√</b>	✓
Network configuration for devices <sup>11</sup>	-	-	✓	<b>√</b>	✓
System Monitoring					
Customizable dashboard for task / component	_	_	_		
specific live monitoring				•	·
Customizable event trigger thresholds for Normal, Warning and Critical levels	-	-	-	✓	✓
Real-time and historical system status of man-					
agement server, event server, recording servers and other XProtect servers	-	-	-	<b>√</b>	<b>√</b>
Real-time and historical system status of individual cameras	-	-	-	✓	✓
Dedicated System Monitor tab that can be displayed as floating window	-	-	-	<b>√</b>	<b>√</b>
XProtect Smart Wall					
Supports XProtect Smart Wall video wall	-	-	-	Requires license	✓
Number of XProtect Smart Walls and XProtect				Unrestricted	Unrestricted
Smart Wall displays	-	-		Omestricted	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	-	-	-	✓	✓
Live video stream content	-	-	-	✓	✓
XProtect Smart Client controlled playback of				,	,
video	-	-	-	<b>√</b>	<b>√</b>
Support for rich video wall content, including maps and Smart Maps, still images, http pages,	-	-	-	<b>√</b>	✓
alarms, texts, bookmarks, system monitor, etc. Rule-based control of layout and content (includ-	-	_	-	<b>√</b>	<b>√</b>
ing text messages)				<u> </u>	· ·
System alarms and notification					



			XProtect Professional+		
VDtt-\(A.C. Dlt	+ <del> </del>	+: <u>†</u>	ق بـ	+-:	t. ate
XProtect VMS Products	XProtect Essential+	XProtect Express+	XProtect	XProtect Expert	XProtect Corporate
	ot ser	ot Jore	ot ofe	XProtec	oto <u>e</u>
	(Pı	P X	Pr	P X	G S
Email notification	<u>√</u>		<b>✓</b>	✓ <del>□</del>	<b>√</b>
Multiple notification profiles	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>
SNMP trap	-	-	_	<b>√</b>	<b>√</b>
Customer Dashbord <sup>7</sup>	<u>-</u>	<b>√</b>		<b>√</b>	<b>√</b>
User authentication and rights management		•	<b>V</b>	<u> </u>	•
Centralized user management	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>
Tiered management rights	-	-	-	-	<b>√</b>
Inheritance of user rights	<b>√</b>	<b>√</b>	<b>/</b>	<b>√</b>	<b>√</b>
Time schedule-controlled user access to devices	V	V	V	<b>V</b>	V
and functions	-	-	-	-	✓
Restrict user access by client type (Web Client,					
XProtect Mobile and Smart Client)	$\checkmark$	✓	✓	✓	✓
Basic User (XProtect application accounts)	<b>√</b>	<b>√</b>			
Windows User (local Windows accounts)		<b>√</b>	1	<i></i>	
Microsoft Active Directory User (central Active Di-					
rectory accounts)	✓	✓	✓	✓	✓
External identity provider support (OIDC) p					
2, 2, 2, 3, 1, 2, 2, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	✓	✓	✓	✓	✓
Dual authorization (Smart Client users)	-	<b>√</b>	<b>/</b>	<b>√</b>	<b>/</b>
Dual authorization (Management Client users) 12	-	<b>√</b>	<b>/</b>	<b>√</b>	<b>√</b>
Two-step verification (Web and Mobile Client us-					
ers)	-	-	-	-	✓
Windows NTLM (NT LAN Manager) authentica-	,	,	,	,	,
tion	✓	✓	✓	<b>√</b>	✓
Kerberos authentication	✓	✓	<b>✓</b>	<b>✓</b>	<b>√</b>
Biometry support in Mobile Clients	✓	✓	✓	✓	<b>√</b>
MDM (Mobile Device Management) support in	,	,	,	,	,
Mobile Client	✓	✓	<b>√</b>	<b>√</b>	✓
Logging					
System and audit logging	✓	✓	✓	✓	✓
Rule logging	✓	✓	✓	✓	✓
Compliance and certification					
FIPS 140-2 compliance	<b>√</b>	✓	✓	✓	<b>✓</b>
Europrise privacy seal (GDPR ready)	_	_	_	_	<b>√</b>
Languages (Management Interface)					
Chinese (Simplified)	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>
Chinese (Traditional) <sup>13</sup>		<b>√</b>		<b>√</b>	<b>√</b>
Danish <sup>13</sup>	<b>√</b>	<b>√</b>		<b>√</b>	<b>√</b>
English	<b>√</b>	<b>√</b>		<b>√</b>	<b>√</b>
French	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>
German		<b>√</b>	<b>/</b>	<b>√</b>	<b>√</b>
Italian <sup>13</sup>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>
Japanese	<b>√</b>	<b>√</b>			<b>√</b>
Korean	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>
Portuguese (Brazilian)		<b>√</b>	<b>/</b>	<b>√</b>	<b>√</b>
Russian <sup>13</sup>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>
Spanish		<b>√</b>	<b>/</b>	<b>√</b>	<b>√</b>
Swedish <sup>13</sup>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>
Turkish <sup>13</sup>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>
	•				



- <sup>1</sup> 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 <a href="https://www.milestonesys.com/community/business-partner-tools/supported-devices/">https://www.milestonesys.com/community/business-partner-tools/supported-devices/</a> 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.
- <sup>2</sup> 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 <a href="https://www.milestonesys.com/community/business-partner-tools/supported-devices/">https://www.milestonesys.com/community/business-partner-tools/supported-devices/</a> for licensing requirement of an IP device
- <sup>3</sup> Applicable for devices integrated through Axis, Bosch, Hikvision, Hanwha, Panasonic and ONVIF drivers (drivers in Legacy Device Pack excluded)
- <sup>4</sup> Applicable only for devices integrated through Axis, Bosch, Hanwha and ONVIF drivers (drivers in Legacy Device Pack excluded)
- <sup>5</sup> Please check https://www.milestonesys.com/support/resources/system-requirements/ for graphic cards and performance requirements
- <sup>6</sup> In Essential+ and Express+, ongoing PTZ operations cannot be interrupted
- <sup>7</sup> Requires Milestone Care Plus service coverage
- <sup>8</sup> One device license required per screen recorder used
- <sup>9</sup> Not supported for all devices. For details read latest Milestone XProtect device pack release notes
- <sup>10</sup> This feature is not available for devices with factory default credentials.
- $^{11} \, Applicable \, only \, for \, devices \, integrated \, through \, the \, \stackrel{\cdot}{Milestone} \, \, ONVIF \, drivers \, and \, that \, are \, ONVIF \, Profile \, T \, \& \, Q \, compliant \, drivers \, and \, that \, are \, ONVIF \, Profile \, T \, \& \, Q \, compliant \, drivers \, d$
- <sup>12</sup> Users must be members of the administrator role
- $^{\rm 13}$  Installation and user interface localized. Help system and manuals in English only



### **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	✓	-	✓
User authentication	✓	✓	✓
Dual authorization	-	-	✓
Two-step verification	✓	✓	-
Secure (HTTPS) client-server connection	✓	✓	-
Camera search	✓	✓	✓
Generic 360 dewarping	-	-	✓
View live video	✓	✓	✓
Control PTZ cameras	✓	✓	✓
Advanced PTZ camera control	-	-	✓
PTZ specific camera icons	-	-	✓
Alarm handling	✓	✓	✓
Push Notification <sup>1</sup>	✓	-	-
Interactive maps	-	-	✓
Smart Map	✓	-	✓
Trigger I/O events	✓	✓	✓
Playback	Single camera	Multi camera	Multi camera
Dedicated Search tab (centralized Search)	-	-	✓
Evidence Lock	-	-	✓
XProtect Incident Manager	-	-	✓
Export/share video from one camera	✓	✓	✓
Export video from multiple cameras	-	✓	✓
Storyboard function in export	-	-	✓
Include XProtect Smart Client – Player in export	-	-	✓
Video Push with audio support	✓	-	-
Dynamic bandwidth adaptation	✓	✓	-
Adaptive streaming	✓	✓	✓
Adaptive playback	-	-	✓
Direct streaming	✓	✓	-
Hardware accelerated video decoding	-	-	✓
Manage access control	✓	-	✓
Cameras and view groups	✓	✓	✓

<sup>&</sup>lt;sup>1</sup> 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		XPro	tect N	/lobi	le					XPr	ote	ct W	/eb	Client					XPr	oted	ct Sı	mar	: Clie	nt	
Feature set when used with spe- cific XProtect VMS platform	XProtect Essential+ XProtect	Express+	XProtect Professional±	XProtect	Expert	XProtect	Corporate	XProtect	ESSeriudi+	XProtect	Express+	XProtect	Professional+	XProtect Expert	t 0, 10, 10, 10, 10, 10, 10, 10, 10, 10,	Corporate	XProtect	Essential+	XProtect	Express+	XProtect	Professional+	XProtect Fxpert	XProtect	Corporate
General view handling																									
Number of view layouts			2									2									4	1			
Maximum view items per view			100									10	0								10	00			
Optimized view layouts for 4:3 and 16:9 display ratios			-									-									~	/			
Corridor optimized view layouts			-									-									V	/			
Optimized view layouts for landscape and portrait displays			✓									-									V	/			
Cameras from multiple XProtect servers	-				<b>√</b>				-					✓									✓		
Support for Shared Views and Private Views			-									<b>√</b>									_	Professio XProtect Expert			
XProtect Smart Wall views			-									-							-					5	✓
Images and active HTML pages in views			-									-									V	/			
Hotspot and Carousel in views			-									-									V	/			
Virtual Matrix in views			-									-					-					\	/		
Display bounding boxes based on metadata			-									-									V	/			
Full screen mode			✓									✓									V	/			
Multi-window functionality with support for full screen or floating windows with synchronized or independent operation			-									-									V	/			
Switch to view by number			-									-									V	/			
Initial default view <sup>1</sup>			<b>√</b>									<b>√</b>									_	/			
Camera search			<b>√</b>									✓									~	/			
Automatic restore views and windows at login			<b>√</b>									✓									~	/			
Live view																						Hoolessional Hoolessiona H			
Update on motion only			-									-									V	/			



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 XProtect Corporate	XProtect Essential+ XProtect Express+ XProtect Professional+ XProtect Expert XProtect Corporate	XProtect Essential+ XProtect Express+ XProtect Professional+ XProtect Expert  XProtect Corporate
One-way audio support	✓	✓	✓
Two-way audio support	✓	✓	✓
Broadcasting audio	-	✓	✓
Start/stop recording in view	-	-	✓
Independent playback in live mode	-	-	✓
Replace cameras in view without changing view	_	<u>-</u>	<b>√</b>
setup			· .
Send camera to Virtual Matrix	- Variable of the state of the	-	- V
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	-	-	✓
PTZ support			
Define presets in the client application	-	-	✓
Define and control patrolling schemes in the client application	-	-	-
View who has PTZ control and time to automatic release	-	-	✓
Lock PTZ control	-	-	- 🗸
Go to preset positions	✓	✓	√
Pause patrolling at manual operation	✓	✓	$\checkmark$
Immervision Enables® panomorph lens support	-	-	$\checkmark$
Joystick support	-	-	✓
Assign commands to keyboard shortcuts and joy- stick buttons	-	-	✓
Auxiliary commands (wash and wipe)	-	-	✓
I/O and events control			
Camera overlay buttons	-	-	$\checkmark$
Manually activate events and trigger outputs	✓	✓	✓
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	✓	✓	✓
Recent history of recording sequences per camera	✓	-	✓
Time/date search	✓	✓	✓
Independent playback in playback mode	-	-	✓
Event/alert list in recording	-	-	$\checkmark$
Graphical timeline	✓	✓	$\checkmark$



XProtect Client		XPr	otect	Mobi	le				XProte	ect V	Veb C	Client				XPr	otec	t Sm	art	Clien	t
Feature set when used with spe- cific XProtect VMS platform	XProtect Essential+	XProtect Express+	XProtect	Professional+ XProfect	Expert	XProtect Corporate	XProtect Essential+		APTOTECT Express+	XProtect	Professional+	XProtect Expert	XProtect	XProtect	Essential+	XProtect	Express+	XProtect	Protessional+ XProtect	Expert	XProtect Corporate
Adjust playback speed			<b>√</b>							V	,							✓			
Single frame step (forward/backward)			✓							<b>√</b>	,							✓			
One-way audio support			✓							<b>√</b>								✓			
Two-way audio support			✓							<b>√</b>								✓			
Broadcasting audio			-							✓								✓			
Digital zoom			✓							<b>√</b>	·							✓			
Share video image	Via local	ly installed (s	d comm such as		on appli	cations			Single	JPG in	nage ex	port			Pri	nt, cop	by to c		rd and	d save t	o file
Print report with comments			-							-								✓			
Privacy masking	-			✓			-				✓								✓		
Search																					
Dedicated Search tab (centralized Search)			-							-								✓			
Sequence Search			-							-								✓			
Motion Search			-							-								✓			
Bookmark Search	-				✓			-				✓		-					✓		
Alarm Search			-							-						-					<b>√</b>
Event Search			-							-						-					✓
XProtect LPR Search			-							-						-					✓
People Search <sup>2</sup>			-							-				-					<b>√</b>		
Vehicle Search <sup>2</sup>			-							-				-					<b>√</b>		
Location Search <sup>2</sup>			-											-					✓		
Multi-category Search and sort results by rele- vance			-							-						-					✓
Visualize location of Search result			_							-						-					✓
Save search templates			-							-						-					✓
3 <sup>rd</sup> party search support			-							-				-					✓		
Bookmark function																					
Manual bookmarking (quick bookmarking and bookmarking with details)	-				✓			-				✓			-					✓	
Create, edit, and delete bookmarks	-				✓			-				✓								✓	
Instant preview of bookmarks in timeline			-							-					-					✓	
Listing and previewing of bookmarks in Centralized search			-							-										✓	
Print bookmark report			-							-					-					✓	
Direct video export of bookmark			-							-					-					✓	
Search and apply filters to bookmarks	-				✓			-				✓			-					✓	



XProtect Client		XPro	tect M	obile				Х	Prote	ect W	/eb C	lient			XProt	nt					
Feature set when used with spe- cific XProtect VMS platform	XProtect Essential+	XProtect Express+	XProtect Professional+	XProtect	XProtect	Corporate	XProtect Fssential+	XProtect	Express+	XProtect	Professional+	AProtect Expert	XProtect Corporate	XProtect Essential+	XProtect Express+	XProtect	Professional+	XProtect Exnert	XProtect Corporate		
Sharing bookmarks between Mobile clients Sharing a link to camera's live video stream be-		-		√ √						-							-				
tween Mobile Clients									_	_						_	_				
Alarm Manager																					
Dedicated Alarm Manager tab that can be dis-			-							-				-				/			
played as floating window																					
Alarm list and alarm preview view items in normal camera views			-							-							✓				
Sort and filtering functions			✓							-							✓				
Instant preview of primary and related cameras			-							-							✓				
Manage alarms (reassign & change status)	-			✓			-				✓			-				<b>√</b>			
Manage alarms (comment)	-			✓			-				✓			-							
Integration with map function			-							-			-	✓							
Alarm description/work instructions	-			✓			-				✓		-	✓							
Escalation and forwarding handling			-							-				-							
Alarm handing reports with print function			-							-				-							
Alarm location maps in alarm list			-							-				-							
Combined access to live and playback video			_							_				-			,	<b>/</b>			
Desktop notification for alarms			_											-				<b>/</b>			
Audio notification at new alarm (configurable per																					
priority level)			-							-				-			,	✓			
Push Notification <sup>3</sup>	-			<b>√</b>						-							_				
Map function				•																	
Standard graphical file formats supported for maps			-							-							<b>√</b>				
Number of linked map layers supported																Linco	stricte	d			
Video preview			-													onie	✓	u			
Integrated control of speakers, microphones and			-							_							V				
output devices			-							-							✓				
Drag-and-drop and point-and-click definition of																					
map elements			-				-								✓						
Integrated PTZ control			-		-																
Real-time system integrity overview and system performance			-							-				√ ·							
Smart Map function																					
CAD maps support		_			_					-					-				<b>√</b>		
GIS maps support		_			<b>√</b>														<u> </u>		
GIS Mahs subhour					<b>V</b>														v		



XProtect Client	XProtect M	obile	XProtect Web Client	XProtect Smart Client			
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 Arofessional+ XProtect Expert XProtect Corporate	xProtect Essential+ XProtect Express+ XProtect Professional+	XProtect Expert XProtect Corporate		
Online map services support for Bing, Google and OpenStreetMap	-	-	-	-	<b>√</b>		
Offline map services supported for Open- StreetMap	-	<b>√</b>	-	-	<b>√</b>		
OpenStreetMap tiles distributed via Milestone map services	-	<b>√</b>	-	-	✓		
Camera and camera clusters	-	✓			✓		
Alarms	-	-	-	-	✓		
Input devices	-	-	-	-	<b>√</b>		
Microphones	-	-	-	-	✓		
Video preview	-	-	-	-	✓		
Integrated control of microphones and input devices	-	-	-	-	✓		
Support for Milestone Federated Architecture	-	-	-	-	✓		
Integrated PTZ control	-	-	-	-	✓		
Auto-place devices on map via positioning and direction settings	-	<b>√</b>	-	-	✓		
Link to standard maps	-		-	-	✓		
Building support	-		-	-	✓		
XProtect Smart Wall							
Supports XProtect Smart Wall video wall	-		-	-	Option Included		
User control of layout and content	-		-	-	✓		
User control playback of video in XProtect Smart Wall	-		-	-	<b>√</b>		
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 and video restrictions							
Evidence lock video for one or multiple cameras	-		-	-	✓		
Retrieve overview of locked video sequences	-		-	-	✓		
Video restrictions	-		-	-	✓		
Incident Manager							
XProtect Incident Manager	-		-	- Requires licer	nse ✓		



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	XProtect Corporate	XProtect Essential+	XProtect Express+	XProtect Professional+	XProtect Expert	XProtect Corporate	XProtect Essential+	XProtect Express+	XProtect Professional+	XProtect Expert	XProtect Corporate
Export		,				,							
Export in still image format (JPEG) Export with audio support in media player format (AVI & MKV)		✓ ✓				√ ✓					√ ✓		
Export in XProtect format		-				<b>√</b>					✓		
Server-side export		✓				✓					-		
Storyboard function in export Adaptive View in XProtect format		-			-						√ √		
Encrypted export with password protection and digital signing <sup>4</sup>	-			✓					✓				
Verification of digital video signatures in XProtect Smart Client – Player <sup>4</sup>	-		✓					<b>√</b>					
Prevent Re-export option <sup>4</sup>	-		Always on					✓					
Auto-export of XProtect Smart Client – Player <sup>4</sup>	-		-					✓					
Preserve system defined privacy masks	-	✓		-		✓			-			✓	
Additional export specific privacy masks		-				-			-			✓	
Liftable user-right protected privacy masks		-				-			-			✓	
Direct export to optical media		-		-					√ ,				
Flexible camera selection for export		-		-							<b>√</b>		
Bulk export to multiple media formats		-		-							<b>√</b>		
General and camera specific export comments <sup>4</sup> Pre/post comment slides (media player format only)		-							<b>√</b>				
Video Push													
Video Push		✓				-					-		
Include location metadata with Video Push		✓		-					-				
Audio support  System Monitoring		<b>√</b>	_			-	_	_		_	-	_	
Access real-time and historical system performance information (refer to System Monitor section for the VMS for details)			-					- ✓					
Installation													
Run without installation	-		✓				-						
Single step installer (installs client together with server)	-		-					✓					
Initial and update installations from management Server	-		-					J					
Notify about new updates		✓				-					-		



XProtect Client	XProtect Mobile					XProtect Smart Client						
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	XProtect Essential+	XProtect Express+	XProtect Professional+	XProtect Expert	XProtect Corporate
Smart Connect <sup>3</sup>	-	✓				-				-		
System access												
Auto-login		✓				-				✓		
Dual authorization		-				-		-		✓	•	
Two-step verification	-		✓		-		✓			-		
Secure (HTTPS) client-server connection		✓				✓				-		
Dynamic bandwidth adaptation with threshold setting		✓				✓				-		
External identity provider support (OIDC) SSO		✓				✓				✓		
Biometry support	✓			-				-				
MDM (Mobile Device Management) support		✓				-				-		
Authorization												
Restrict user access by client type (Web Client, XProtect Mobile and Smart Client)		✓				✓				✓		
Time schedule-controlled user access to devices and functions	-		<b>√</b>		-		✓		-			<b>√</b>
Restrict user access by devices (cameras, microphones, I/O devices, etc.)		<b>√</b>				<b>√</b>				✓		
Restrict access to live, PTZ control, playback and export		<b>√</b>				<b>√</b>				<b>√</b>		
Restrict access to setup		-				-				<b>√</b>		
Personalization												
Application options		<b>√</b>				-				<b>√</b>		
Centralized management of application options		-				-			-		✓	
Application theme support		-				-				✓		
Task-oriented tabs		-				✓				✓		
System												
Hardware accelerated video decoding		-				-				✓		
Adaptive streaming	-	✓		-		✓		-		✓		
Adaptive playback		-				-		-		✓	•	
Direct streaming	-	✓		-		✓				-		
Multi-live streaming		-				-						
Languages (Installation, UI and help function)		/5				/5				-		
Arabic		√ <sup>5</sup>				√ <sup>5</sup> √ <sup>5</sup>				√ √6		
Bulgarian		√ <sup>5</sup>				√ <sup>5</sup>				√ <sup>6</sup>		
Croatian Chinese (Simplified)	√ <sup>3</sup> √ <sup>5</sup>			√ <sup>5</sup>				√° ✓				
Chinese (Simplified) Chinese (Traditional)		√ <sup>5</sup>				√ <sup>5</sup>						



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 Arotect Arotect Expert Corporate	XProtect Essential+ XProtect Express+ XProtect Professional+ XProtect Expert Corporate	XProtect Essential+ XProtect Express+ XProtect Professional+ XProtect Expert Corporate			
Czech	√5	√5	√ ·			
Danish	√5	√5	✓			
Dutch	√5	√5	✓			
English	✓	✓	✓			
Farsi	√5	√5	√6			
Finnish	√5	√5	√6			
French	√5	√5	✓			
German	√5	√5	✓			
Hebrew	√5	√5	√6			
Hindi	√5	√5	√6			
Hungarian	√5	√5	√6			
Icelandic	√5	√5	√6			
Italian	√5	√5	✓			
Japanese	√5	√5	✓			
Korean	√5	√5	✓			
Norwegian (Bokmål)	√5	√5	√6			
Polish	√5	√5	✓			
Portuguese (Brazilian)	√5	√5	✓			
Russian	√5	√5	✓			
Serbian	√5	√5	√6			
Slovak	√5	√5	√6			
Spanish	√5	√5	✓			
Swedish	√5	√5	✓			
Thai	√5	√5	√6			
Turkish	√5	√5	✓			
Ukrainian	√5	√5	√6			

<sup>&</sup>lt;sup>1</sup> Initial views created when using the "single computer" installation option

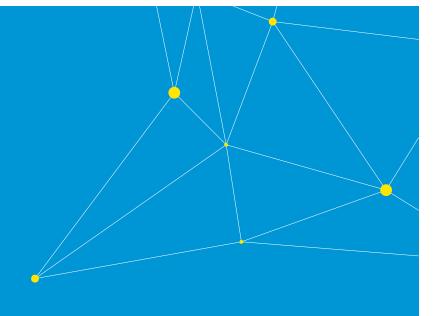
<sup>&</sup>lt;sup>2</sup> Limited to certain camera models that can perform video analytics and export ONVIF compliant metadata

<sup>&</sup>lt;sup>3</sup> Requires Milestone Care Plus service coverage

<sup>&</sup>lt;sup>4</sup> Feature only applicable to exports in XProtect format

<sup>&</sup>lt;sup>5</sup> XProtect Mobile server localized to same languages as the management interface and documentation is only available in English

<sup>&</sup>lt;sup>6</sup> 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.