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Product Comparison Chart

XProtect® 2026 R2 Video Management Software

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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 in-depth 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+

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.

XProtect VMS Products	XProtect Express+	XProtect Professional+	XProtect Expert	XProtect Corporate
Key Features				
Type of deployment	Single server	Centrally managed, multi-server	Centrally managed, multi-server	Centrally managed, distributed sites
Licensing	Perpetual	Perpetual	Perpetual	Perpetual
Maximum number IP devices[1] per recording server	100	Unrestricted[7]	Unrestricted[7]	Unrestricted[7]
Number of recording servers per system	1	Unrestricted[7]	Unrestricted[7]	Unrestricted[7]
Maximum numbers of users	Unrestricted[7]	Unrestricted[7]	Unrestricted[7]	Unrestricted[7]
Customer Dashboard and Connected Services[2]	Supported	Supported	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 HTTPS[3]	✓	✓	✓	✓
Single device firmware[4] upgrade	✓	✓	✓	✓
Bulk device firmware[4] upgrade	-	-	✓	✓
Map function	✓	✓	✓	✓
Third-party application integration and support for video analytics[5]	✓	✓	✓	✓
Built-in Video Motion Detection (VMD) with Auto adjustable VMD sensitivity	✓	✓	✓	✓
H.264, MJPEG, MPEG-4, MPEG-4 ASP & MxPEG	✓	✓	✓	✓
H.265, AV1[6]	✓	✓	✓	✓
Adaptive streaming/playback	✓	✓	✓	✓
Direct streaming (mobile server)	✓	✓	✓	✓
Microsoft Active Directory support	✓	✓	✓	✓
External identity provider support (OIDC) SSO	✓	✓	✓	✓
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	✓	✓	✓	✓
Mobile Server communication encryption	✓	✓	✓	✓
XProtect Management Server Failover	-	-	Requires license	Requires license
Hot- & cold-failover recording server	-	-	✓	✓
Evidence Lock	-	-	-	✓
XProtect Incident Manager	Requires license	Requires license	Requires license	✓
Supports XProtect Smart Wall	-	-	Requires license	✓
Milestone Federated Architecture™	-	-	Remote site	Central/ Remote site
Milestone Interconnect™	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 https://www.milestonesys.com/community/business-partner-tools/supported-devices/ 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 https://www.milestonesys.com/systemrequirements/ for graphic cards and performance requirements
[7] Depending on system configuration

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 Express+	XProtect Professional+	XProtect Expert	XProtect Corporate
Features				
System components (software modules)				
Recording server	✓	✓	✓	✓
Hot- & cold-failover recording server	-	-	✓	✓
Maximum number of IP devices[1] per recording server	100	Unrestricted[15]	Unrestricted[15]	Unrestricted[15]
Maximum number of recording servers per system	1	Unrestricted[15]	Unrestricted[15]	Unrestricted[15]
Recording server manager	✓	✓	✓	✓
Management Server	✓	✓	✓	✓
Management Server compatible with Microsoft clustering	✓	✓	✓	✓
Management client (dedicated client application for local or remote management)	✓	✓	✓	✓
Event server (for handling of events and alarms)	✓	✓	✓	✓
Failover event server (redundant cluster)	✓	✓	✓	✓
XProtect Mobile (server and client)	✓	✓	✓	✓
XProtect Smart Client	✓	✓	✓	✓
XProtect Web Client	✓	✓	✓	✓
XProtect Smart Client - Player (local playback/export)	✓	✓	✓	✓
Run servers as Windows Services	✓	✓	✓	✓
Available for AWS Cloud Deployment in AWS Marketplace	✓	✓	✓	✓
Licensing				
Licensing[2]	Perpetual	Perpetual	Perpetual	Perpetual
Distributed operation				
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	✓	✓	✓	✓
Metadata from camera embedded analytics	✓	✓	✓	✓
Number of supported IP devices	11000+	11000+	11000+	11000+
Secure HTTPS camera connectivity (on supported devices)	✓	✓	✓	✓
Adding devices on HTTPS[3]	✓	✓	✓	✓
Single device firmware upgrade[4]	✓	✓	✓	✓
Bulk device firmware upgrade[4]	-	-	✓	✓
Device firmware version listing	✓	✓	✓	✓
Update hardware – refresh option	✓	✓	✓	✓
Video processing				
H.264, MJPEG, MPEG-4, MPEG-4 ASP and MxPEG	✓	✓	✓	✓
H.265, AV1[5]	✓	✓	✓	✓
Metadata support	✓	✓	✓	✓
Dual stream (live and recording) per camera	✓	✓	✓	✓
Generic 360 dewarping	✓	✓	✓	✓
Multi-live streaming	✓	✓	✓	✓
Adaptive streaming/playback	✓	✓	✓	✓
Direct streaming (mobile server)	✓	✓	✓	✓
Client video stream down sampling (resolution and FPS) option	✓	✓	✓	✓
Adjustable GOP size (MPEG4/H.264/H.265/AV1)	✓	✓	✓	✓
Send camera pre-alarm images (pre-recording buffer) to recording server	✓	✓	✓	✓
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)	✓	✓	✓	✓

XProtect VMS Products	XProtect Express+	XProtect Professional+	XProtect Expert	XProtect Corporate
Hardware accelerated video decoding for VMD (NVIDIA)	-	-	✓	✓
Hardware accelerated video decoding in the Mobile Server	✓	✓	✓	✓
Motion metadata generated during VMD analysis	✓	✓	✓	✓
VMD exclusion zones	✓	✓	✓	✓
Video motion detections per server	All connected 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	100	Unrestricted[15]	Unrestricted[15]	Unrestricted[15]
Playback of audio files on rule	✓	✓	✓	✓
Pan-tilt-zoom (PTZ)				
Preset positions per camera	Unrestricted[15]	Unrestricted[15]	Unrestricted[15]	Unrestricted[15]
Go-to preset on event	✓	✓	✓	✓
Preset patrolling	✓	✓	✓	✓
Combine patrolling and go-to preset on event	✓	✓	✓	✓
Scanning/transition speed	✓	✓	✓	✓
Number of PTZ priority levels for prioritized PTZ control[6]	1	3	32,000	32,000
I/O and events				
Hardware configurable events (such as I/O input, motion, tampering, temperature, communication failure)	✓	✓	✓	✓
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 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	-	-	-	✓
Retrieve overview of locked video sequences	-	-	-	✓
Define available retention times	-	-	-	✓
Alarm Manager				
Alarm description with work instructions and optional initial owner of alarm	✓	✓	✓	✓
Time profiles for alarms	✓	✓	✓	✓
Manage role-based alarms	✓	✓	✓	✓
View triggered alarms	✓	✓	✓	✓
Manage alarms (reassign, change status, comment)	✓	✓	✓	✓
Push alarms to users of XProtect Mobile[7]	✓	✓	✓	✓
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, statuses, and result codes	✓	✓	✓	✓
Customizable sound notification	✓	✓	✓	✓
Alarm handling reporting	✓	✓	✓	✓
Alarm logging	✓	✓	✓	✓
Recording server, storage and archiving				
Pre-recording buffer in RAM	✓	✓	✓	✓
Video retention time	Unrestricted[15]	Unrestricted[15]	Unrestricted[15]	Unrestricted[15]
Recording capacity per device/day	Unrestricted[15]	Unrestricted[15]	Unrestricted[15]	Unrestricted[15]
Archiving of recordings with network drive support	✓	✓	✓	✓
Online access to archives	✓	✓	✓	✓
Archiving schedules	Hourly	Hourly	Hourly	Hourly
Storage definition and retention time per device	✓	✓	✓	✓

XProtect VMS Products	XProtect Express+	XProtect Professional+	XProtect Expert	XProtect Corporate
Storage definition and retention time that can be applied to individual cameras or common for multiple devices	✓	✓	✓	✓
Multi-stage video storage and data grooming	-	-	✓	✓
Storage overview (used vs. available space) of available storage drives	✓	✓	✓	✓
Support for live video play without recording storage	✓	✓	✓	✓
Event on premature deletion of video due to insufficient physical storage	✓	✓	✓	✓
Edge Storage support with flexible retrieval	-	✓	✓	✓
Scalable Video Quality Recording™	-	✓	✓	✓
Evidence Lock	-	-	-	✓
Media database encryption and digital signing	-	-	✓	✓
Encryption of communication with connected servers/clients/ integrations	✓	✓	✓	✓
Multicast support	-	-	✓	✓
Integration options				
Plug-in, Protocol, Component integration via MIP SDK and API	✓	✓	✓	✓
System Configuration via MIP SDK and REST API	✓	✓	✓	✓
Live and playback Video and Audio streaming via WebRTC	✓	✓	✓	✓
Device integration through Driver Framework	✓	✓	✓	✓
Metadata integration	✓	✓	✓	✓
Event and alarm integration via MIP SDK, REST API, and WebSocket	✓	✓	✓	✓
Event and action rule engine integration via MIP SDK	✓	✓	✓	✓
Human Interface Device (HID) integration for Smart Client via MIP SDK plug-in	✓	✓	✓	✓
Milestone AI Bridge for Intelligent Video Analytics integrations	✓	✓	✓	✓
Webhooks	✓	✓	✓	✓
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	✓
XProtect Transact	Requires license	Requires license	Requires license	Requires license
XProtect Retail	Requires license	Requires license	Requires license	Requires license
XProtect Incident Manager	Requires license	Requires license	Requires license	✓
XProtect Management Server Failover	-	-	Requires license	Requires license
Milestone Open Network Bridge	✓	✓	✓	✓
XProtect Rapid REVIEW	Discontinued[16]	Discontinued[16]	Discontinued[16]	Discontinued[16]
XProtect Hospital Assist	Requires license	Requires license	Requires license	Requires license
Management				
Maximum number of clients	Unrestricted[15]	Unrestricted[15]	Unrestricted[15]	Unrestricted[15]
Password protected system configuration	✓	✓	✓	✓
Configuration wizards for aided system setup	✓	✓	✓	✓
Device scanning with device model detection	✓	✓	✓	✓
Device replacement wizard	✓	✓	✓	✓
Management Client device search filter	✓	✓	✓	✓
Move device wizard for moving hardware devices (e.g. cameras) between recording servers	-	✓	✓	✓
Centralized recording server & device management	✓	✓	✓	✓
Device group support	✓	✓	✓	✓
Management Client profiles	-	-	-	✓
Centralized management of XProtect Smart Client application options (Number of supported XProtect Smart Client profiles)	-	3	12	Unrestricted[15]
Day length time profile	✓	✓	✓	✓
On-the-fly configuration changes	✓	✓	✓	✓
Scheduled start/stop of devices	✓	✓	✓	✓
Configuration reporting	✓	✓	✓	✓
Built-in backup-restore support	✓	✓	✓	✓
Automatic license activation of online systems	✓	✓	✓	✓
Offline license activation	✓	✓	✓	✓
Add/replace devices without reactivation in offline systems	✓	✓	✓	✓
Customizable access port with NAT support	✓	✓	✓	✓
Device Password Management[8]	-	✓	✓	✓
Initial setup of credentials on devices[9]	✓	✓	✓	✓
Current device user handling[10]	-	✓	✓	✓
Network configuration for devices[10]	-	✓	✓	✓
System Monitoring				
Customizable dashboard for task / component specific live monitoring	-	-	✓	✓
Customizable event trigger thresholds for Normal, Warning and Critical levels	-	-	✓	✓

XProtect VMS Products	XProtect Express+	XProtect Professional+	XProtect Expert	XProtect Corporate
Real-time and historical system status of management server, event server, recording servers and other XProtect servers	-	-	✓	✓
Real-time and historical system status of individual cameras	-	-	✓	✓
Dedicated System Monitor tab that can be displayed as floating window	-	-	✓	✓
XProtect Smart Wall				
Supports XProtect Smart Wall video wall	-	-	Requires license	✓
Number of XProtect Smart Walls and XProtect Smart Wall displays	-	-	Unrestricted[15]	Unrestricted[15]
Number of concurrent video streams	-	-	Unrestricted[15]	Unrestricted[15]
Maximum number of content positions per display	-	-	100	100
Presets for display layouts and camera content	-	-	✓	✓
Live video stream content	-	-	✓	✓
XProtect Smart Client controlled playback of video	-	-	✓	✓
Support for rich video wall content, including maps and Smart Maps, still images, http pages, alarms, texts, bookmarks, system monitor, etc.	-	-	✓	✓
Rule-based control of layout and content (including text messages)	-	-	✓	✓
System alarms and notification				
Email notification	✓	✓	✓	✓
Multiple notification profiles	✓	✓	✓	✓
SNMP trap	-	-	✓	✓
Customer Dashboard[7]	✓	✓	✓	✓
User authentication and rights management				
Centralized user management	✓	✓	✓	✓
Tiered management rights	-	-	-	✓
Inheritance of user rights	✓	✓	✓	✓
Time schedule-controlled user access to devices and functions	-	-	-	✓
Restrict user access by client type (Web Client, XProtect Mobile and Smart Client)	✓	✓	✓	✓
Basic User (XProtect application accounts)	✓	✓	✓	✓
Windows User (local Windows accounts)	✓	✓	✓	✓
Microsoft Active Directory User (central Active Directory accounts)	✓	✓	✓	✓
External identity provider support (OIDC) with support for SCIM protocol for automatic user provisioning	✓	✓	✓	✓
Dual authorization (Smart Client users)	✓	✓	✓	✓
Dual authorization (Management Client users)[11]	✓	✓	✓	✓
Two-step verification (Web and Mobile Client users)	-	-	-	✓
Windows NTLM (NT LAN Manager) authentication	✓	✓	✓	✓
Kerberos authentication	✓	✓	✓	✓
Biometry support in Mobile Clients	✓	✓	✓	✓
MDM (Mobile Device Management) support in Mobile Client	✓	✓	✓	✓
Logging				
System and audit logging	✓	✓	✓	✓
Rule logging	✓	✓	✓	✓
Compliance and certification				
FIPS 140-2 compliance	✓	✓	✓	✓
GDPR ready[14]	-	-	✓	✓
Languages (Management Interface)				
Chinese (Simplified)	✓	✓	✓	✓
Chinese (Traditional)[12]	✓	✓	✓	✓
Danish[12]	✓	✓	✓	✓
English	✓	✓	✓	✓
French	✓	✓	✓	✓
German	✓	✓	✓	✓
Italian[12]	✓	✓	✓	✓
Japanese	✓	✓	✓	✓
Korean	✓	✓	✓	✓
Portuguese (Brazilian)	✓	✓	✓	✓
Russian[12]	✓	✓	✓	✓
Spanish	✓	✓	✓	✓
Swedish[12]	✓	✓	✓	✓
Turkish[12]	✓	✓	✓	✓

[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 https://www.milestonesys.com/community/business-partner-tools/supported-devices/ 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] 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 https://www.milestonesys.com/community/business-partner-tools/supported-devices/ for licensing requirement of an IP device.
[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] Please check https://www.milestonesys.com/systemrequirements/ for graphic cards and performance requirements
[6] In Express+, ongoing PTZ operations cannot be interrupted
[7] Requires Milestone Care Plus service coverage

[9] This feature is not available for devices with factory default credentials.
[10] Applicable only for devices integrated through the Milestone ONVIF drivers and that are ONVIF Profile T & Q compliant
[11] Users must be members of the administrator role
[12] Installation and user interface localized. Help system and manuals in English only
[14] XProtect Corporate is a GDPR ready product. It is built on privacy by default principles, and it enables customers to make their video management software GDPR compliant by following our Privacy Guide and Hardening Guide.
[15] Depending on system configuration
[16] To consolidate our advanced video analytics offering under BriefCam, Milestone has discontinued new sales of XProtect Rapid REVIEW (XPRR) as of XProtect 2025 R2 and Milestone Care for XPRR. Existing XPRR deployments can still be expanded up to 200 licenses with the XProtect Rapid REVIEW Device Licenses

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 Mobile	XProtect Web Client	XProtect 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 Notifications[1]	✓	-	-
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[2]	✓	✓	-
Hardware accelerated video decoding	-	-	✓
Manage access control (Requires XProtect Access)	✓	-	✓
Cameras and view groups	✓	✓	✓
Sticky Notes	-	-	✓

[1] Requires Milestone Care Plus service coverage and includes notifications on alarms, Access Control requests and Care expiry.

[2] Applies for single cameras only

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	XProtect Mobile				XProtect Web Client				XProtect Smart Client			
Feature set when used with specific XProtect VMS platform	XProtect Express+	XProtect Professional+	XProtect Expert	XProtect Corporate	XProtect Express+	XProtect Professional+	XProtect Expert	XProtect Corporate	XProtect Express+	XProtect Professional+	XProtect Expert	XProtect Corporate
General view handling												
Number of view layouts	2				2				41			
Maximum view items per view	100				100				100			
Optimized view layouts for 4:3 and 16:9 display ratios	-				-				✓			
Corridor optimized view layouts	-				-				✓			
Optimized view layouts for landscape and portrait displays	✓				-				✓			
Cameras from multiple XProtect servers	-	✓			-	✓			-	✓		
Support for *Shared Views* and *Private Views*	-				✓				✓			
XProtect Smart Wall views	-				-				-		Requires license	✓
Images and active HTML pages in views	-				-				✓			
Hotspot and Carousel in views	-				-				✓			
Virtual Matrix in views	-				-				✓			
Display bounding boxes based on metadata	-				-				✓			
Full screen mode	✓				✓				✓			
Multi-window functionality with support for full screen or floating windows with synchronized or independent operation	-				-				✓			
Switch to view by number	-				-				✓			
Initial default view[1]	✓				-				✓			
Camera search	✓				✓				✓			
Automatic restore views and windows at login	✓				✓				✓			
Live view												
Update on motion only	-				-				✓			
One-way audio support	✓				✓				✓			
Two-way audio support	✓				✓				✓			
Broadcasting audio	-				✓				✓			

XProtect Client	XProtect Mobile				XProtect Web Client				XProtect Smart Client			
Feature set when used with specific XProtect VMS platform	XProtect Express+	XProtect Professional+	XProtect Expert	XProtect Corporate	XProtect Express+	XProtect Professional+	XProtect Expert	XProtect Corporate	XProtect Express+	XProtect Professional+	XProtect Expert	XProtect Corporate
Start/stop recording in view	-				-				✓			
Independent playback in live mode	-				-				✓			
Replace cameras in view without changing view setup	-				-				✓			
Send camera to Virtual Matrix	-				-				✓			
Share video image	Via locally using winform 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	✓				✓				✓			
Immervision Enables® panomorph lens support	-				-				✓			
Joystick support	-				-				✓			
Assign commands to keyboard shortcuts and joystick buttons	-				-				✓			
Auxiliary commands (wash and wipe)	-				-				✓			
I/O and events control												
Camera overlay buttons	-				-				✓			
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	-				-				✓			
Graphical timeline	✓				✓				✓			
Adjust playback speed	✓				✓				✓			
Single frame step (forward/backward)	✓				✓				✓			
One-way audio support	✓				✓				✓			
Two-way audio support	✓				✓				✓			
Broadcasting audio	-				✓				✓			
Digital zoom	✓				✓				✓			

XProtect Client	XProtect Mobile				XProtect Web Client				XProtect Smart Client			
Feature set when used with specific XProtect VMS platform	XProtect Express+	XProtect Professional+	XProtect Expert	XProtect Corporate	XProtect Express+	XProtect Professional+	XProtect Expert	XProtect Corporate	XProtect Express+	XProtect Professional+	XProtect Expert	XProtect Corporate
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	-				-				✓			
Privacy masking	✓				✓				✓			
Search												
Dedicated Search tab (centralized Search)	-				-				✓			
Sequence Search	-				-				✓			
Motion Search	-				-				✓			
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 relevance	-				-				-		✓	
Visualize location of Search result	-				-				-		✓	
Save search templates	-				-				-		✓	
3rd party search support	-				-				✓			
Bookmark function												
Manual bookmarking (quick bookmarking and book-marking 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	-	✓			-	✓			-	✓		
Sharing functionality												
Sharing bookmarks between Mobile clients	-	✓			-				-			
Sharing a link to camera's live video stream between Mobile Clients	-	✓			-				-			
Alarm Manager												
Dedicated Alarm Manager tab that can be displayed as floating window	-				-				✓			
Alarm list and alarm preview view items in normal camera views	-				-				✓			

XProtect Client	XProtect Mobile				XProtect Web Client				XProtect Smart Client			
Feature set when used with specific XProtect VMS platform	XProtect Express+	XProtect Professional+	XProtect Expert	XProtect Corporate	XProtect Express+	XProtect Professional+	XProtect Expert	XProtect Corporate	XProtect Express+	XProtect Professional+	XProtect Expert	XProtect Corporate
Sort and filtering functions	✓				-				✓			
Instant preview of primary and related cameras	-				-				✓			
Manage alarms (reassign & change status)	✓				✓				✓			
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	-				-				✓			
Desktop notification for alarms	-				-				✓			
Audio notification at new alarm (configurable per priority level)	-				-				✓			
Push Notification[3]	✓				-				-			
Emergency alert[3]	✓				-				-			
Map function												
Standard graphical file formats supported for maps	-				-				✓			
Number of linked map layers supported	-				-				Unrestricted[7]			
Video preview	-				-				✓			
Integrated control of speakers, microphones and 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	-		-		-				-		✓	
GIS maps support	-		✓		-				✓			
Online map services support for Bing, Google	-		-		-				-		✓	
Online map services support for OpenStreetMap	✓		✓		-				✓			
Offline map services supported for OpenStreetMap	-		-		-				✓			
Milestone map service	✓		✓		-				✓			
Camera and camera clusters	✓		✓		-				✓			
Access control units	-		-		-				✓			
Alarms	✓		✓		-				✓			
Input/output devices	-		-		-				✓			

XProtect Client	XProtect Mobile				XProtect Web Client				XProtect Smart Client			
Feature set when used with specific XProtect VMS platform	XProtect Express+	XProtect Professional+	XProtect Expert	XProtect Corporate	XProtect Express+	XProtect Professional+	XProtect Expert	XProtect Corporate	XProtect Express+	XProtect Professional+	XProtect Expert	XProtect Corporate
Microphones	-		-		-				✓			
Video preview	✓		✓		-				✓			
Integrated PTZ control	-		-		-				✓			
Auto-place devices on map via positioning and direction settings	✓[8]		✓[8]		-				✓			
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	-				-				-		✓	
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 license			✓
Export												
Export in still image format (JPEG)	-				✓				✓			
Export with audio support in media player format (AVI & MKV) – individual files (containing one video sequence)	✓				✓				✓			
Export with audio support in media player format (MP4 & MKV) – combined file (containing several combined video sequences)	-				-				✓			
Export in XProtect format	✓				✓				✓			
Server-side export	✓				✓				-			
Storyboard function in export	-				-				✓			
Adaptive View in XProtect format and Media Player format (MP4 & MKV) – combined file	-				-				✓			
Encrypted export with password protection and digital signing[4]	-				✓				✓			

XProtect Client	XProtect Mobile				XProtect Web Client				XProtect Smart Client			
Feature set when used with specific XProtect VMS platform	XProtect Express+	XProtect Professional+	XProtect Expert	XProtect Corporate	XProtect Express+	XProtect Professional+	XProtect Expert	XProtect Corporate	XProtect Express+	XProtect Professional+	XProtect Expert	XProtect Corporate
Verification of digital video signatures in XProtect Smart Client – Player[4]	-				✓				✓			
Prevent Re-export option[4]	-				Always on				✓			
Auto-export of XProtect Smart Client – Player[4]	-				-				✓			
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	-				-				✓			
Bulk export to multiple media formats	-				-				✓			
General and camera specific export comments[4]	-				-				✓			
Pre/post comment slides (media player format only)	-				-				✓			
Video Push												
Video Push	✓				-				-			
Include location metadata with Video Push	✓				-				-			
Audio support	✓				-				-			
System Monitoring												
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	-				-				✓			
Auto-update Client	✓				-				-			
Smart Connect[3]	✓				-				-			
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	✓				-				-			

XProtect Client	XProtect Mobile				XProtect Web Client				XProtect Smart Client			
Feature set when used with specific XProtect VMS platform	XProtect Express+	XProtect Professional+	XProtect Expert	XProtect Corporate	XProtect Express+	XProtect Professional+	XProtect Expert	XProtect Corporate	XProtect Express+	XProtect Professional+	XProtect Expert	XProtect Corporate
Authorization												
Restrict user access by client type (Web Client, XProtect Mobile and Smart Client)	✓				✓				✓			
Time schedule-controlled user access to devices and functions	-			✓	-			✓	-			✓
Restrict user access by devices (cameras, microphones, I/O devices, etc.)	✓				✓				✓			
Restrict access to live, PTZ control, playback and export	✓				✓				✓			
Restrict access to setup	-				-				✓			
Personalization												
Application options	✓				-				✓			
Centralized management of application options	-				-				-	✓		
Application theme support	-				-				✓			
Task-oriented tabs	-				✓				✓			
Multiple task-oriented tabs	-				-				✓			
System												
Hardware accelerated video decoding	-				-				✓			
Adaptive streaming	✓				✓				✓			
Adaptive playback	-				-				✓			
Direct streaming	✓				✓				-			
Multi-live streaming	-				-				✓			
Languages (Installation, UI and help function)												
Arabic	✓[5]				✓[5]				✓			
Bulgarian	✓[5]				✓[5]				✓[6]			
Croatian	✓[5]				✓[5]				✓[6]			
Chinese (Simplified)	✓[5]				✓[5]				✓			
Chinese (Traditional)	✓[5]				✓[5]				✓			
Czech	✓[5]				✓[5]				✓			
Danish	✓[5]				✓[5]				✓			
Dutch	✓[5]				✓[5]				✓			
English	✓				✓				✓			
Farsi	✓[5]				✓[5]				✓[6]			
Finnish	✓[5]				✓[5]				✓[6]			
French	✓[5]				✓[5]				✓			
German	✓[5]				✓[5]				✓			
Greek	✓[5]				✓[5]				✓[6]			
Hebrew	✓[5]				✓[5]				✓[6]			
Hindi	✓[5]				✓[5]				✓[6]			

XProtect Client	XProtect Mobile				XProtect Web Client				XProtect Smart Client			
Feature set when used with specific XProtect VMS platform	XProtect Express+	XProtect Professional+	XProtect Expert	XProtect Corporate	XProtect Express+	XProtect Professional+	XProtect Expert	XProtect Corporate	XProtect Express+	XProtect Professional+	XProtect Expert	XProtect Corporate
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]				✓			
Romanian	✓[5]				✓[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]			
Vietnamese	✓[5]				✓[5]				✓[6]			

[1] In Mobile Clients each user sets their own default view
[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
[7] Depending on system configuration
[8] Direction viewcones only supported on Android



About Milestone Systems

Milestone Systems is a leading provider of data-driven video technology software in and beyond security 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 500,000 customer sites worldwide. Founded in 1998, Milestone is a stand-alone company in the Canon Group.
www.milestonesystems.com