

Product Comparison Chart

XProtect[®] 2020 R3 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+
- XProtect® Essential+

! XProtect Express and XProtect Professional are not part of the 2020 R3 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 add-on products or Milestone Utilities.

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

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

High-level XProtect VMS product comparison

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

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

¹ A hardware device is the physical unit, server or system connected to the VMS' recording server

² A camera is the actual camera or video source on the hardware device connected to the VMS' recording server

³ Requires active Milestone Care Plus coverage

⁴ Using Milestone Integration Platform (MIP)

⁵ Please check <https://www.milestonesys.com/support/resources/system-requirements/> 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 | ✓ | ✓ | ✓ | ✓ | ✓ |
| Hot- & cold-failover recording server | - | - | - | ✓ | ✓ |
| Maximum number of hardware devices ¹ or cameras ² per recording server | 8 | 48 | Unrestricted | Unrestricted | Unrestricted |
| Maximum number of recording servers per system | 1 | 1 | Unrestricted | Unrestricted | Unrestricted |
| Recording server manager | ✓ | ✓ | ✓ | ✓ | ✓ |
| Management server | ✓ | ✓ | ✓ | ✓ | ✓ |
| Management failover server (redundant cluster) | ✓ | ✓ | ✓ | ✓ | ✓ |
| 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) | ✓ | ✓ | ✓ | ✓ | ✓ |
| DLNA (Digital Living Network Alliance) server | - | ✓ | ✓ | ✓ | ✓ |
| 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 | 8 devices free | 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 ³ | 9000+ | 9000+ | 9000+ | 9000+ | 9000+ |
| Secure HTTPS camera connectivity (on supported devices) | ✓ | ✓ | ✓ | ✓ | ✓ |
| Adding devices on HTTPS ³ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Video processing | | | | | |
| H.264, MJPEG, MPEG-4, MPEG-4 ASP and MxPEG | ✓ | ✓ | ✓ | ✓ | ✓ |
| H.265 ⁴ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Metadata support | ✓ | ✓ | ✓ | ✓ | ✓ |
| Dual stream (live and recording) per camera | ✓ | ✓ | ✓ | ✓ | ✓ |
| Generic 360 dewarping | ✓ | ✓ | ✓ | ✓ | ✓ |
| Multi-live streaming | - | - | - | ✓ | ✓ |
| Adaptive streaming | - | - | - | ✓ | ✓ |
| Direct streaming (mobile server) | - | - | - | ✓ | ✓ |
| Client video stream down sampling (resolution and FPS) option | ✓ | ✓ | ✓ | ✓ | ✓ |
| Adjustable GOP size (MPEG4/H.264/H.265) | ✓ | ✓ | ✓ | ✓ | ✓ |
| 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 Essential+ | 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 | 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 | ✓ | ✓ | ✓ | ✓ | ✓ |
| Preset patrolling | ✓ | ✓ | ✓ | ✓ | ✓ |
| Combine patrolling and go-to preset on event | ✓ | ✓ | ✓ | ✓ | ✓ |
| Scanning/transition speed | ✓ | ✓ | ✓ | ✓ | ✓ |
| Number of PTZ priority levels for prioritized PTZ control ⁵ | 1 | 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 | - | - | - | ✓ | ✓ |
| 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 | - | ✓ | ✓ | ✓ | ✓ |
| View triggered alarms | - | ✓ | ✓ | ✓ | ✓ |
| Manage alarms (reassign, change status, comment) | - | ✓ | ✓ | ✓ | ✓ |
| Push alarms to users of XProtect Mobile ⁶ | - | ✓ | ✓ | ✓ | ✓ |
| 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 | 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 | ✓ | ✓ | ✓ | ✓ | ✓ |
| Archiving schedules | Hourly | Hourly | Hourly | Hourly | Hourly |
| Storage definition and retention time per device | ✓ | ✓ | ✓ | ✓ | ✓ |

| XProtect VMS Products | XProtect Essential+ | 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 | | | | | |
| Plug-in, Protocol, Component integration via MIP SDK | ✓ | ✓ | ✓ | ✓ | ✓ |
| System Configuration via MIP SDK | ✓ | ✓ | ✓ | ✓ | ✓ |
| Device integration through Driver Framework | ✓ | ✓ | ✓ | ✓ | ✓ |
| Metadata integration | ✓ | ✓ | ✓ | ✓ | ✓ |
| Event integration | ✓ | ✓ | ✓ | ✓ | ✓ |
| Event and action rule engine integration via MIP SDK | ✓ | ✓ | ✓ | ✓ | ✓ |
| Video processing service in MIP SDK | ✓ | ✓ | ✓ | ✓ | ✓ |
| Support for XProtect Add-on products | | | | | |
| XProtect Access | - | ✓ | ✓ | ✓ | ✓ |
| XProtect LPR | - | ✓ | ✓ | ✓ | ✓ |
| XProtect Smart Wall | - | - | - | Option | Included |
| XProtect Transact | - | ✓ | ✓ | ✓ | ✓ |
| XProtect Retail | - | ✓ | ✓ | ✓ | ✓ |
| XProtect Screen Recorder | ✓ | ✓ | ✓ | ✓ | ✓ |
| Milestone Open Network Bridge | - | ✓ | ✓ | ✓ | ✓ |
| DLNA server | - | ✓ | ✓ | ✓ | ✓ |
| Management | | | | | |
| Maximum number of clients | Unrestricted | Unrestricted | Unrestricted | Unrestricted | Unrestricted |
| Password protected system configuration | ✓ | ✓ | ✓ | ✓ | ✓ |
| Configuration wizards for aided system setup | ✓ | ✓ | ✓ | ✓ | ✓ |
| Device scanning with device model detection | ✓ | ✓ | ✓ | ✓ | ✓ |
| Device replacement wizard | ✓ | ✓ | ✓ | ✓ | ✓ |
| 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 |
| 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 ⁷ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Customizable access port with NAT support | ✓ | ✓ | ✓ | ✓ | ✓ |
| Device Password Management ³ | - | - | ✓ | ✓ | ✓ |
| Initial setup of credentials on devices ⁸ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Current user handling ⁹ | - | - | ✓ | ✓ | ✓ |
| Network configuration ⁹ | - | - | ✓ | ✓ | ✓ |
| System Monitoring | | | | | |
| Customizable dashboard for task / component specific live monitoring | - | - | - | ✓ | ✓ |
| Customizable event trigger thresholds for Normal, Warning and Critical levels | - | - | - | ✓ | ✓ |

| XProtect VMS Products | XProtect Essential+ | 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 add-on | - | - | - | Option | Included |
| Number of XProtect Smart Walls and XProtect Smart Wall displays | - | - | - | Unrestricted | Unrestricted |
| Number of concurrent video streams | - | - | - | Unrestricted | Unrestricted |
| Maximum number of content positions per 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 ⁶ | - | ✓ | ✓ | ✓ | ✓ |
| 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) | ✓ | ✓ | ✓ | ✓ | ✓ |
| Dual authorization (Smart Client users) | - | ✓ | ✓ | ✓ | ✓ |
| Dual authorization (Management Client users) | - | ✓ | ✓ | ✓ | ✓ |
| Two-step verification (Web and Mobile Client users) | - | - | - | - | ✓ |
| Windows NTLM (NT LAN Manager) authentication | ✓ | ✓ | ✓ | ✓ | ✓ |
| Kerberos authentication | ✓ | ✓ | ✓ | ✓ | ✓ |
| Logging | | | | | |
| System and audit logging | ✓ | ✓ | ✓ | ✓ | ✓ |
| Rule logging | ✓ | ✓ | ✓ | ✓ | ✓ |
| Languages (Management Interface) | | | | | |
| Chinese (Simplified) | ✓ | ✓ | ✓ | ✓ | ✓ |
| Chinese (Traditional) | ✓ ¹⁰ | ✓ ¹⁰ | ✓ ¹⁰ | ✓ ¹⁰ | ✓ ¹⁰ |
| Danish | ✓ ¹⁰ | ✓ ¹⁰ | ✓ ¹⁰ | ✓ ¹⁰ | ✓ ¹⁰ |
| English | ✓ | ✓ | ✓ | ✓ | ✓ |
| French | ✓ | ✓ | ✓ | ✓ | ✓ |
| German | ✓ ¹⁰ | ✓ ¹⁰ | ✓ ¹⁰ | ✓ ¹⁰ | ✓ ¹⁰ |
| Italian | ✓ ¹⁰ | ✓ ¹⁰ | ✓ ¹⁰ | ✓ ¹⁰ | ✓ ¹⁰ |
| Japanese | ✓ | ✓ | ✓ | ✓ | ✓ |
| Korean | ✓ | ✓ | ✓ | ✓ | ✓ |
| Portuguese (Brazilian) | ✓ | ✓ | ✓ | ✓ | ✓ |
| Russian | ✓ ¹⁰ | ✓ ¹⁰ | ✓ ¹⁰ | ✓ ¹⁰ | ✓ ¹⁰ |
| Spanish | ✓ ¹⁰ | ✓ ¹⁰ | ✓ ¹⁰ | ✓ ¹⁰ | ✓ ¹⁰ |
| Swedish | ✓ ¹⁰ | ✓ ¹⁰ | ✓ ¹⁰ | ✓ ¹⁰ | ✓ ¹⁰ |
| Turkish | ✓ ¹⁰ | ✓ ¹⁰ | ✓ ¹⁰ | ✓ ¹⁰ | ✓ ¹⁰ |

¹ A hardware device is the physical unit, server or system connected to the VMS' recording server.

² A camera is the actual camera or video source on the hardware device connected to the VMS' recording server

³ For an overview of supported devices please refer to: <https://www.milestonesys.com/community/business-partner-tools/supported-devices/>

⁴ Please check <https://www.milestonesys.com/support/resources/system-requirements/> for graphic cards and performance requirements

⁵ In Essential+ and Express+, ongoing PTZ operations cannot be interrupted

⁶ Requires Milestone Care Plus service coverage

⁷ For details on actual allowed number of device changes without activation, please refer to: <https://www.milestonesys.com/device-change-calculation/>

⁸ This feature is not available for devices with factory default credentials.

⁹ Applicable only for devices integrated through the Milestone ONVIF drivers and that are ONVIF Profile T & Q compliant

¹⁰ 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 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 | Yes | No | Yes |
| User authentication | Yes | Yes | Yes |
| Dual authorization | - | - | Yes |
| Two-step verification | Yes | Yes | - |
| Secure (HTTPS) client-server connection | Yes | Yes | - |
| Camera search | Yes | Yes | Yes |
| Generic 360 dewarping | - | - | Yes |
| View live video | Yes | Yes | Yes |
| Control PTZ cameras | Yes | Yes | Yes |
| Advanced PTZ camera control | - | - | Yes |
| Alarm handling | Yes | Yes | Yes |
| Push Notification ¹ | Yes | - | - |
| Interactive maps | - | - | Yes |
| Smart Map | - | - | Yes |
| Trigger I/O events | Yes | Yes | Yes |
| Playback | Single camera | Multi camera | Multi camera |
| Dedicated Search tab (centralized Search) | - | - | Yes |
| Evidence Lock | - | - | Yes |
| Export/share video from one camera | Yes | Yes | Yes |
| Export video from multiple cameras | - | Yes | Yes |
| Storyboard function in export | - | - | Yes |
| Include XProtect Smart Client – Player in export | - | - | Yes |
| Video Push with audio support | Yes | - | - |
| Dynamic bandwidth adaptation | Yes | Yes | - |
| Adaptive streaming | Yes | Yes | Yes |
| Direct streaming | Yes | Yes | - |
| Hardware accelerated video decoding | - | - | Yes |
| Manage access control | Yes | - | Yes |

¹ Requires Milestone Care Plus service coverage

Detailed XProtect client comparison

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

| XProtect Client | XProtect Mobile | | | | | XProtect Web Client | | | | | XProtect Smart Client | | | | |
|--|---------------------|-------------------|------------------------|-----------------|--------------------|---------------------|-------------------|------------------------|-----------------|--------------------|-----------------------|-------------------|------------------------|-----------------|--------------------|
| | 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 |
| Feature set when used with specific XProtect VMS platform | | | | | | | | | | | | | | | |
| 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 <i>Shared Views</i> and <i>Private Views</i> | | | - | | | | | ✓ | | | | | ✓ | | |
| XProtect Smart Wall views | | | - | | | | | - | | | | - | | | ✓ |
| 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 | | | | | ✓ ¹ | | | | | ✓ ¹ | | |
| Camera Navigator | | | - | | | | | - | | | | | ✓ | | |

| XProtect Client | XProtect Mobile | | | | | XProtect Web Client | | | | | XProtect Smart Client | | | | |
|---|--|-------------------|------------------------|-----------------|--------------------|---------------------|-------------------|------------------------|-----------------|--------------------|--|-------------------|------------------------|-----------------|--------------------|
| Feature set when used with specific 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 |
| 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 | | | - | | | | | ✓ | | | | | ✓ | | |
| 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 installed communication applications (such as email) | | | | | | | - | | | Print, copy to clip-board 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 | | | ✓ | | | | | ✓ | | | | | ✓ | | |

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| 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 | ✓ | | | | | ✓ | | | | | ✓ | | | | | |
| Share video image | Via locally installed communication applications (such as email) | | | | | Single JPG image export | | | | | Print, copy to clip-board 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 | - | | | | | - | | | | | - | - | | | | ✓ |
| Visualize location of Search result | - | | | | | - | | | | | - | - | | | | ✓ |
| Save search templates | - | | | | | - | | | | | - | - | | | | ✓ |

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| 3 rd party search support | | | - | | | | | - | | | | - | | | ✓ |
| Bookmark function | | | | | | | | | | | | | | | |
| Manual bookmarking (quick bookmarking and bookmarking with details) | | | - | | | | | - | | | | - | | ✓ | |
| Instant preview of bookmarks in timeline | | | - | | | | | - | | | | - | | ✓ | |
| Listing and previewing of bookmarks in recording search | | | - | | | | | - | | | | - | | ✓ | |
| Print bookmark report | | | - | | | | | - | | | | - | | ✓ | |
| Direct video export of bookmark | | | - | | | | | - | | | | - | | ✓ | |
| Alarm Manager | | | | | | | | | | | | | | | |
| Dedicated Alarm Manager tab that can be displayed 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) | - | | | ✓ | | - | | | ✓ | | - | | | ✓ | |
| 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 | - | | | ✓ | | - | | | ✓ | | - | | | ✓ | |
| Map function | | | | | | | | | | | | | | | |
| Standard graphical file formats supported for maps | | | - | | | | | - | | | | | | ✓ | |
| Number of linked map layers supported | | | - | | | | | - | | | | | Unrestricted | | |
| Video preview | | | - | | | | | - | | | | | | ✓ | |

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| Integrated control of speakers, microphones and I/O 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 and GIS maps support | | | - | | | | | - | | | | - | | | ✓ |
| Online map services support for Bing, Google and OpenStreetMap | | | - | | | | | - | | | | - | | | ✓ |
| Offline map services supported for OpenStreetMap | | | - | | | | | - | | | | - | | | ✓ |
| Video preview | | | - | | | | | - | | | | - | | | ✓ |
| Support for Milestone Federated Architecture | | | - | | | | | - | | | | - | | | ✓ |
| Auto-place devices on map via positioning and direction settings | | | - | | | | | - | | | | - | | | ✓ |
| Link to standard maps | | | - | | | | | - | | | | - | | | ✓ |
| Building support | | | - | | | | | - | | | | - | | | ✓ |
| XProtect Smart Wall | | | | | | | | | | | | | | | |
| Supports XProtect Smart Wall video wall add-on | | | - | | | | | - | | | | - | | Option | Included |
| User control of layout and content | | | - | | | | | - | | | | - | | | ✓ |
| User control playback of video in XProtect Smart Wall | | | - | | | | | - | | | | - | | | ✓ |
| Local subscription to XProtect Smart Wall views for local display | | | - | | | | | - | | | | - | | | ✓ |
| Push rich content to XProtect Smart Wall, such as maps, still images, http pages, alarms, bookmarks, system monitor, etc. | | | - | | | | | - | | | | - | | | ✓ |
| Send manual text messages to XProtect Smart Wall | | | - | | | | | - | | | | - | | | ✓ |
| Evidence Lock | | | | | | | | | | | | | | | |
| Lock video for one or multiple cameras | | | - | | | | | - | | | | - | | | ✓ |
| Retrieve overview of locked video sequences | | | - | | | | | - | | | | - | | | ✓ |

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| Export | | | | | | | | | | | | | | | |
| Export in still image format (JPEG) | | | ✓ | | | | | ✓ | | | | | ✓ | | |
| Export with audio support in media player format (AVI & MKV) | | | ✓ | | | | | ✓ | | | | | ✓ | | |
| Export in XProtect format | | | - | | | | | ✓ | | | | | ✓ | | |
| Server-side export | | | ✓ | | | | | ✓ | | | | | - | | |
| Storyboard function in export | | | - | | | | | - | | | | | ✓ | | |
| Encrypted export with password protection and digital signing ⁴ | | | - | | | | | - | | | | | ✓ | | |
| Verification of digital video signatures in XProtect Smart Client – Player ⁴ | | | - | | | | | - | | | | | ✓ | | |
| Re-export prevention option ⁴ | | | - | | | | | - | | | | | ✓ | | |
| 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) | | | - | | | | | - | | | | | ✓ | | |

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| Initial and update installations from management Server | | | - | | | | | - | | | | | ✓ | | |
| Notify about new updates | | | ✓ | | | | | - | | | | | - | | |
| Smart Connect ⁵ | - | | | ✓ | | | | - | | | | | - | | |
| System access | | | | | | | | | | | | | | | |
| Auto-login | | | ✓ | | | | | - | | | | | ✓ | | |
| Dual authorization | | | - | | | | | - | | | - | | | ✓ | |
| Two-step verification | | | - | | ✓ | | | - | | ✓ | | | - | | |
| Secure (HTTPS) client-server connection | | | ✓ | | | | | ✓ | | | | | - | | |
| Dynamic bandwidth adaptation with threshold setting | | | ✓ | | | | | ✓ | | | | | - | | |
| 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 | | | | | | | | | | | | | | | |
| Toggle between Advanced mode + Simplified mode | | | - | | | | | - | | | | | ✓ | | |
| Application options | | | ✓ | | | | | - | | | | | ✓ | | |
| Centralized management of application options | | | - | | | | | - | | | - | | | ✓ | |
| Application theme support | | | - | | | | | - | | | | | ✓ | | |
| Task-oriented tabs | | | - | | | | | ✓ | | | | | ✓ | | |
| System | | | | | | | | | | | | | | | |
| Hardware accelerated video decoding | | | - | | | | | - | | | | | ✓ | | |
| Adaptive streaming | | | - | | | | - | | | ✓ | | - | | | ✓ |
| Direct streaming | | - | | | ✓ | | - | | | ✓ | | - | | | |
| Languages (Installation, UI and help function) | | | | | | | | | | | | | | | |

| | | | |
|------------------------|----------------|----------------|----------------|
| Arabic | ✓ ⁶ | ✓ ⁶ | ✓ |
| Bulgarian | ✓ ⁶ | ✓ ⁶ | ✓ ⁷ |
| Croatian | ✓ ⁶ | ✓ ⁶ | ✓ ⁷ |
| Chinese (Simplified) | ✓ ⁶ | ✓ ⁶ | ✓ |
| Chinese (Traditional) | ✓ ⁶ | ✓ ⁶ | ✓ |
| Czech | ✓ ⁶ | ✓ ⁶ | ✓ |
| Danish | ✓ ⁶ | ✓ ⁶ | ✓ |
| Dutch | ✓ ⁶ | ✓ ⁶ | ✓ |
| English | ✓ | ✓ | ✓ |
| Farsi | ✓ ⁶ | ✓ ⁶ | ✓ ⁷ |
| Finnish | ✓ ⁶ | ✓ ⁶ | ✓ ⁷ |
| French | ✓ ⁶ | ✓ ⁶ | ✓ |
| German | ✓ ⁶ | ✓ ⁶ | ✓ |
| Hebrew | ✓ ⁶ | ✓ ⁶ | ✓ ⁷ |
| Hindi | ✓ ⁶ | ✓ ⁶ | ✓ ⁷ |
| Hungarian | ✓ ⁶ | ✓ ⁶ | ✓ ⁷ |
| Icelandic | ✓ ⁶ | ✓ ⁶ | ✓ ⁷ |
| Italian | ✓ ⁶ | ✓ ⁶ | ✓ |
| Japanese | ✓ ⁶ | ✓ ⁶ | ✓ |
| Korean | ✓ ⁶ | ✓ ⁶ | ✓ |
| Norwegian (Bokmål) | ✓ ⁶ | ✓ ⁶ | ✓ ⁷ |
| Polish | ✓ ⁶ | ✓ ⁶ | ✓ |
| Portuguese (Brazilian) | ✓ ⁶ | ✓ ⁶ | ✓ |
| Russian | ✓ ⁶ | ✓ ⁶ | ✓ |
| Serbian | ✓ ⁶ | ✓ ⁶ | ✓ ⁷ |
| Slovak | ✓ ⁶ | ✓ ⁶ | ✓ ⁷ |
| Spanish | ✓ ⁶ | ✓ ⁶ | ✓ |
| Swedish | ✓ ⁶ | ✓ ⁶ | ✓ |
| Thai | ✓ ⁶ | ✓ ⁶ | ✓ ⁷ |
| Turkish | ✓ ⁶ | ✓ ⁶ | ✓ |
| Ukrainian | ✓ ⁶ | ✓ ⁶ | ✓ ⁷ |

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

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

³ Requires Milestone Care Plus service coverage

⁴ Feature only applicable to exports in XProtect format

⁵ Requires Milestone Care Plus service coverage

⁶ XProtect Mobile server localized to same languages as the management interface and documentation is only available in English

⁷ 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.