



Specification Sheet



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Feature Overview

Key Features

- Limitless Multi-server and Multi-site Solution: XProtect Corporate supports an unlimited number of cameras, servers, sites and users allowing you to grow your installation according to your needs.
- Milestone Federated Architecture™: System concept that enables multiple individual XProtect Corporate systems to be interconnected into a hierarchical architecture for infinite scalability and central management
- Centralized Management: Full configuration of all devices, Recording Servers and users from a central manager console connected to the Management Server holding all configuration settings in a Microsoft SQL database
- Bookmarking: Allows users to mark video sections of particular interest and add descriptive notes, for later analysis or sharing with other users
- Alarm Manager: Single point alarm function that provides a consolidated and clear overview of security and system related alarms
- Intuitive Map Function:

Multilayered map environment provides interactive access and control of the complete surveillance system, at-a-glance overview of the system integrity, and seamless drag-and-drop integration with the new Smart Wall product option

- Smart Wall Add-on Video Wall Product option: Flexible and hardware agnostic video wall option that is seamlessly integrated with XProtect's management and Smart Client environments
- High Availability Failover Servers: Redundancy options for Recording and Management servers ensure maximum system uptime continuous system availability
- Edge Storage:
 A safeguard feature that allows cameras to function as failover devices to ensure uninterrupted video recording in the event of network or server failure
- Multi-stage Storage:
 Unique data storage solution that combines superior performance and scalability with video data grooming possibility for cost efficient long-term video storage
- Versatile Rule System: Set up scheduled or event-driven camera and output actions with numerous options including support for time profiles.
- Multicast Support:

Send one video stream to multiple Smart Clients. The infrastructure must support IGMP to reach remote networks

 Camera Navigator: Enables intuitive tracking in geographically complex security locations easing the ability to keep visual contact with moving objects across several cameras

Additional Main Features

- Automatic Camera Discovery: Enables fast discovery of more than 900 different IPbased video cameras and encoders from 70 different vendors.
- Built-in Video Motion Detection: Independent of camera model supporting unlimited number of cameras simultaneously per server.
- Multiple Language Support: Let operators use the system in their native language with support for 26 different languages, while the management interface is available in 11 languages
- Fast Evidence Export: Quickly deliver authentic evidence to public authorities by exporting video to various formats, including video from multiple cameras in encrypted native database format with dedicated player aplication included
- Audit Logs:
 Full awareness of the system and user activity with
 comprehensive audit logs
 - **Configure Access Privileges:** Ensure system consistency and global user management with single sign-on Microsoft[®] Active Directory credentials and control privileges and allowed camera actions.
- Privacy Masking: Allows definition of privacy masks on individual cameras to hide areas in the camera view which must not be visible or recorded
 Sequence Explorer:
- Sequence Explorer:
 Displaying sequences, time intervals and bookmarks in
 thumbnail previews, the Sequence Explorer gives
 unparalleled visual overview of recorded video
 combined with smooth navigation
- Independent Playback
 Independent playback function allows you to instantly
 playback recorded video in live or playback mode

Integration Options

- The Milestone Integration Platform SDK version 2 offers extended integration possibilities compared with the classic SDK that enables seamless integration of third party applications as plug-ins for the Smart Client and the Management Client
- Open for integration of video analysis algorithms
- Compatible with XProtect Transact and XProtect Retail that integrates video surveillance with ATM, POS cash register systems, and Enterprise Recourse Planning (ERP) systems for managing loss prevention and fraud.
- Integrate with access control systems, alarms, gates, building management systems, etc. using hardware I/O, internal events and TCP/IP events



Detailed Product Features

Recording Server/Failover Server

System

- Simultaneous digital multi-channel MJPEG, MPEG4, MPEG-4 ASP, MxPEG and H.264 video recording of IP cameras and IP video encoders without any software limitations on number of cameras per server
- A failover server can be on standby for a single or a group of recording servers, with automatic synchronization of recordings back to the original recording server once it is back online
- The Edge Storage capability is a safeguard feature that allows cameras with on-board storage capabilities to function as failover devices to ensure uninterrupted video recording in the event of network or server failure
- Two-way audio, transmitting client microphone input to remote speakers attached to IP devices
- Route traffic between multiple connected cameras and multiple clients requesting live view, playback and export
- Multicast one video stream to all Smart Clients. The infrastructure must support Internet Group Management Protocol (IGMP) to reach remote networks
- Multi-stream can establish two independent streams from a camera to the XProtect Corporate recording server with different resolutions, encodings and frame rates, dependent on camera capabilities
- Secure high speed recording database holding JPEG images or MPEG4, MPEG-4 ASP, MxPEG or H.264 streams
- Record 30+ frames per second per camera, limited only by hardware
- Recording quality depends entirely on camera and video encoder capabilities no software limitations
- Importing pre-alarm images recorded in camera or video encoder
- Built-in, real-time, camera independent motion detection
- The recording server runs as a Windows service under local system account or optional local Windows user or Microsoft active directory account with run-as-a-service privileges
- Port forwarding enables clients to access the recording servers from outside a Network Address Translation (NAT) firewall
- Support for both IPv4 and IPv6 addressing

PTZ

- 'Pass-thru' control of manual Pan-Tilt-Zoom (PTZ) operation from clients with user priority
- 32,000 PTZ priority levels for control of rights between different operators and automatic patrolling schemes
- Execute rule-based go-to preset position on events and patrolling
- Resume patrolling after manual session timeout

I/O and Events

- Support for devices with one or more input and output ports
- Powerful rule processing engine for execution of start and stop actions triggered by events or time profiles

Setup and Management

- Install the recording server from a web page on the management server. The recording server is completely managed from the management server and configuration changes are applied online while recording is in operation
- Local recording server configuration data is available during periods where the management server is inaccessible
- Recording server manager is available in the local console notification area (icon tray) for status messages, start/stop of the service, and change of network settings

Client Access

- Facilitate client access
- Clients are authenticated and authorized at the management server, and use a session-limited access token to access the recording server

Alerting and Notification

 The system acts as an SNMP (Simple Network Management Protocol) agent that can generate an SNMP trap as a result of a rule activation.

Logs

 Logging of system, event, audit, and rule entries to the management server at regular intervals with local caching during offline scenarios





System

- Management server for initial client logon, system configuration and logging
- Management client for remote administration of recording servers, devices, security, rules and logging
- All configuration and logs from the entire system are stored in a centralized Microsoft SQL database and accessed by the management server only
- Failover solution for the Management Server provides a resilient system solution based on Windows Server Clustering, ensuring high system availability
- Management server manager is available in the local console notification area (icon tray) for status messages and to start/stop the service
- The management server runs as a Windows service under local system account or optional local Windows user or Microsoft active directory account with run-as-aservice privileges
- To register and validate your licenses, the system offers easy-to-use online activation via the Internet and alternatively, offline activation via e-mail for closed surveillance networks
- Support for both IPv4 and IPv6 addressing

Milestone Federated Architecture

- System concept that enables multiple individual XProtect Corporate systems to be interconnected in to a hierarchical architecture for infinite scalability and central management
- Centralized management access to all federated systems
- Resilient architecture that allows the individual systems to function as autonomous sites in the event of network problems

Recording Servers

 Authorize installed recording servers for use with the system

Multi-Stage Storage

- Definition of multiple storage containers with individual archiving schemes and retention times. Recording capacity is limited only by disk space
- Each storage container is defined as live database and optional archives, where the video data is moved from the live database to secondary disk systems or network drives. The archived data is still online and available for clients
- Achieving schemes define when video is archived to next archiving stage in the storage container, and for how long the video data is retained before deletion
- Optional video data grooming possibility enables compression (grooming) of the video by reducing the frame rate of the video data
- Ability to allocate individual devices to different storage containers

- Move a device or a group of devices between two different storage containers
- Light and strong video database encryption option, using DES-56 encryption algorithm
- Storage overview gives instant indication of used vs. available storage in total and for individual cameras

Devices

- Wizard for automatic scanning IP network ranges for new devices including automatic model detection
- Wizard for assisted discovery of single devices with automatic or manual model detection
- Wizard for swift replacement of malfunctioning devices with preserved configuration settings and recordings
- Enable and disable devices very useful if they are down for maintenance
- Adjust brightness, color level, compression, maximum bit rate, resolution, rotation, etc. per camera or camera group
- Select and configure video format, FPS, resolution and quality for the primary stream for a camera.
- Select and configure multiple streams for a camera to be used for live viewing and recording. Each stream can be in different video format, FPS, resolution and quality
- Optional preview window for immediate verification of video settings per camera or for a group of cameras
- Assign camera shortcut number for easy operation by clients
- Define multiple PTZ preset positions on the server
- Import PTZ (Pan-Zoom-Tilt) preset positions from cameras
- Define multiple PTZ patrolling schemes with adjustable wait time between shifts and customizable transitions with disabling of motion detection to avoid false alarms
- Run multiple patrolling schedules per camera per day. For example, different for day/night/weekend
- PTZ scanning on supported devices. View or record while moving slowly from one position to another
- Privacy mask consistently hides certain areas in the camera view in live and playback video, and in exported material
- Configure device events like motion detection with preand post-buffers, or input signal behavior options
- Fine-tune motion detection sensitivity per camera and exclude multiple zones for areas of no interest to avoid false alarms

Rules, Time Profiles and Notifications

- Powerful Microsoft Outlook[®]-style rule system supports unlimited number of rules
- Rule actions are triggered by event, time interval or a combination of event and time. Rules can optionally be stopped by event or after a certain time
- Time profiles with reoccurring time selection and expire condition supporting unlimited number of time profiles
- Rule based creation of bookmarks



• Trigger events:

- Built-in: Bookmark reference request, communication error, communication started, communication stopped, feed overflow started, feed overflow stopped, live client feed requested, live client feed terminated, output activated, output changed, output deactivated, PTZ manual session started, PTZ manual session stopped, recording started, recording stopped, settings changed, settings changed error

- Hardware: Audio falling, audio passing, audio rising, directional violation, images received, input activated, input changed, input deactivated, motion started (HW), motion stopped (HW), object appearing, object disappearing, object dwelling, object entering, object exiting, object presence, object stopped, speedy object, tampering, temperature, tripwire, video lost

Plug-ins: Motion started, motion stopped
Recording server: Archive available, archive unavailable, archiving not finished, database full – auto archiving, database disk full, database repair, database storage area available, database storage area unavailable, failover started, failover stopped
User-defined events: Allow clients and third-party systems to trigger a rule.

- Start actions: Start recording, start feed, set live frame rate, set recording frame rate, start patrolling, pause patrolling, move to PTZ preset position, move to default PTZ preset position, set output, create bookmark, send notification, make log entry, start plug-in, stop plug-in, apply settings on device, send matrix command, send SNMP trap, save attached image, activate activating, user defined event
- Stop actions: Stop recording, stop feed, restore live frame rate, restore recording frame rate, stop patrolling, resume patrolling, move to PTZ preset position, move to default PTZ preset position, set output, start plug-in, stop plug-in, apply settings on device, send matrix command
- Smart Wall start & stop actions (requires XProtect Smart Wall product option); Set Smart Wall to preset layout, Set Smart Wall monitor layout and camera content
- Time profiles with reoccurring time selection and expire condition supporting unlimited number of time profiles
- Multi-recipient customizable e-mail notification with image and/or AVI attachment of incidents
- Define custom alerts for use with third-party systems

Alarm Manager

- Single point alarm management of all internal system alarms and external security alarms
- Alarm descriptions and work instructions make alarms actionable for operators
- Alarm priorities allows operators to focus on the most critical alarms
- Automatic allocation to alarm owner, with escalation and alarm forwarding possibilities
- Time profiles for definition of a active alarms

- Possibility to associate up to 15 cameras to an alarm
- Extensive logging of alarms

Logging

- Logs of system, event, audit, rule and alert entries are consolidated from all recording servers at regular intervals
- Each log file has adjustable size and time limitations to avoid overloading the database

Security

- Authenticate client access to recording servers based on Microsoft active directory or local Windows user accounts
- Authenticate client access to XProtect Enterprise 6.x and newer Master and Slave servers based on Microsoft active directory or basic user accounts
- Authorize client access privileges per Microsoft active directory or local Windows user account/group
- Authorization roles control user access to:

 Device: visibility of devices, live view, playback, AVI export, JPEG export, database export, sequences, smart search, input status, output control, AUX commands, view bookmark, edit bookmark, add bookmark and delete bookmark.
 - PTZ: PTZ control, PTZ priority, PTZ preset control - Speech: visibility of microphones and speakers, listen
 - Speech: visibility of microphones and speakers, listen to live audio, browse audio, export audio, get audio sequences

- Application: manager, Smart Client/Remote Client, live/ playback/setup, status API, service registration API

- User-defined Event: trigger user-defined events
- View groups privileges
- Enterprise Servers: Basic or Windows authentication details
- Federated XProtect Corporate Sites
- -Alarms: visibility of alarms and ability to manage alarms
- MIP: custom defined rights

- Privileges for the map feature and Smart Wall access & control

- Time based security, where users' access rights to devices and functions are based on time profile to block users' access outside normal shift hours
- Session-limited token system with auto-refresh grants access for clients to recording servers and devices

Smart Client Profiles

- Centralized management of Smart Client application options enables optimization of the Smart Client for different user categories and skill levels
- Ability to enforce or recommend a option setting for a user or group of users
- Define general Smart Client application options, including (listing not exhaustive): visibility of time, visibility of camera live indicators, default image quality, default frame rate, keyboard and joystick setup, start up mode, deinterlacing filters
- Access to live mode and the availability of individual control panes and overlay buttons



- Access to playback mode and the availability of individual control panes, overlay buttons and settings for specific functions, such as default export path, etc. ٠
- ٠ Access to setup mode and the availability of individual control panes and setup functions Definition of available view layouts
- ٠



XProtect Smart Client

Live view

- View live or playback video from 1-100 camera per PCmonitor/view from the same or different servers simultaneously
- Live view digital zoom allows full view recordings while the operator digitally can zoom in to see details
- Supports 38 different view layouts optimized for 4:3 and 16:9 display rations in both landscape and portrait
- Independent Playback capability allows for instant playback of recorded video for one or more cameras, while in live mode
- Centralized storage of shared and private camera views, enables coherent access to views across the system
- Seamless access to camera in subordinated federated systems
- Instant camera placement in Live view allows for instant replacement of cameras in a view, where a new cameras can be placed in a particular view and position through a simple drag-and drop operation
- Update On Motion Only' optimizes CPU usage by allowing motion detection to control whether the image should be decoded and displayed or not. The visual effect is a still image in the view until motion is detected
- Multiple computer monitor support provides a main window and any number of either floating windows or full screen views
- Hotspot function lets you work in detail with a camera selected from a view containing multiple cameras
- Carousel function allows a specified view to rotate between pre-defined cameras that are not necessarily present in the view at the same time. Operator can select default or custom display time for each camera and is able to manually switch to the next or previous camera in the carousel list
- Matrix function views live video from multiple cameras in any view layout with customizable rotation paths, remotely controlled by computers sending Matrix remote commands
- Advanced video navigation includes fast/slow playback, jump to date/time, single step and video motion search
- Import static or active HTML maps for fast navigation to cameras and to provide a good overview of premises
- Hide HTML page toolbar in HTML page views
- Activate Matrix via graphical maps of premises using JavaScript or integrate with centralized access control systems
- The operator can assign outputs, PTZ presets and views as actions to joystick buttons and as keyboard shortcuts. The actions are grouped to optimize overview
- Two-way audio support lets the Smart Client listen to live and recorded audio from a camera's microphone and outgoing audio to the cameras speaker, as well as transmitting operator microphone input to one or multiple camera speakers

 Adaptive de-interlacing option secures high video quality, based on the actual video content received. The Smart Client optionally applies a filter to areas of the image where jagged edges would otherwise show up

PTZ

- Control PTZ cameras by using;
 - PTZ preset positions
 - PTZ Point-and-Click control
 - Overlay buttons
 - PTZ zoom to a defined rectangle
 - PTZ Control Pane
 - Joystick
- Take manual control of a PTZ camera that is running a patrolling scheme. After a timeout with no activity the camera reverts to its scheduled patrolling scheme.
- Fisheye camera (Grandeye™/IPIX™) support for 1x2 or 2x2 'Quad View' for viewing all 360° at once
- 360° ImmerVision Enables[®] Panomorph lens technology

I/O and Events

- Overlay buttons provides intuitive control of cameras, camera-integrated devices and other integrated systems- directly from the camera view
- Manually trigger output port relay operation, for example control of gates
- Manually trigger events by activating a server-defined event from a list

Playback

- Quick overview of recorded sequences, events and bookmarks
- Independent Playback capability allows for independent playback of recorded video for one or more cameras
- Smart Search lets you quickly search selected areas in the recorded video for motion. Within a camera image, you can mark single or multiple areas
- Graphical timeline displays a scrollable view of recorded sequences by variable time spans for an excellent graphical overview of recorded images
- Playback view digital zoom allows the operator to digitally zoom in to see details in the recorded video
- Instant camera placement in Playback view allows for instant replacement of cameras in a view, where a new cameras can be placed in a particular view and position through a simple drag-and drop operation

Sequence Explorer

- Separate window displaying sequences, time intervals and bookmarks in thumbnail pre-views, the Sequence Explorer gives unparalleled visual overview of recorded video combined with smooth navigation
- Presents recorded sequences and bookmarks for individual cameras, or all cameras in a view
- Seamlessly available in both Live and Playback modes
- Smooth navigation with sliding preview and "drag-andthrow" function for video thumbnails
- Instant playback of video sequences and bookmarks





Bookmarking

- Manual bookmarks as quick bookmarks or extensive bookmarks with bookmark details
- Indication of bookmarks in timeline, with instant preview
- Listing and previewing of bookmarks in recording search
- Bookmark reports enables effortless documentation of incidents
- Direct video export of bookmark reduces time needed for preparation of forensic video material

Alarm Manager

- Alarm list with extensive filtering capabilities an alarm preview in both Live and Playback mode
- Extensive alarm sort and filtering functions allows operators to focus on most critical alarms
- Instant preview of primary camera and related cameras helps reducing the number of false alarms
- Tight integration with the Map Function allows for indication and acknowledgement of active alarms via in the map
- Alarm descriptions and work instructions make alarms actionable for the operators
- Alarm escalation and alarm forwarding possibilities allows different alarms to be handle by operators with appropriate skills
- Alarm reports enables effortless documentation of incidents

Map Function

- Build-in map function in the XProtect Smart Client that provides intuitive overview of the system and offers integrated access to all system components
- Map images can be in standard graphical file formats incl. jpg, gif, png, tif, etc.
- Any number of layered maps City, street, building, room, etc.
- Instant camera preview on 'mouse over'
- Depiction of camera view-zones on map, with clickable
 PTZ zones for instant PTZ control
- Easy drag-and-drop and point-and-click definition of: cameras, servers, microphones, speakers, I/O devices, hot-zones for map hierarchies, camera view-zones and PTZ camera presets position view zones
- Integrated control of speakers, microphones, and events and output I/O control, including: doors, gates, light, access control systems etc.
- Real-time status monitoring indication from all system components including cameras, I/O devices, system servers, etc.
- Graphical at-the-glance visualization of the system status through color coding
- Hierarchical propagation of status indications to higher ordered maps
- Different level of status indications available (alarm, warning and errors)
- System performance data for cameras and servers including camera resolution, FPS, network usage, disk space, etc.

Camera Navigator

- Provides consistent and comprehensive visual verification, ensuring easier tracking of moving object in geographically complex security environments
- Automatically display of thumbnail views of nearby cameras
- Add on to the map application no special configuration needed

Export and Print

- Export in native database format; including a standalone Recording Viewer application for instant and easy viewing by authorities
- Encryption & password protection option for exported recordings and files in the native database format
- Create AVI files or save JPEG images
- Print incident reports including image, surveillance details and free-text user comments

Setup and Management

- Install the Smart Client from a web page on the management server
- Notification about new updates at logon
- Application Options allows users to adapt the layout and personalize the application to their particular preferences

Authentication

- System logon uses Microsoft active directory or local Windows user account
- Use current Windows logon for authentication
- Auto-logon and auto-restore views

System

- Support for both IPv4 and IPv6 addressing
- Support for multicast streams with automatic switch to unicast if the network becomes unreliable





XProtect Smart Client - Player

- Playback of recorded or achieved video and audio evidence
- Same user-friendly interface and most functions as the XProtect Smart Client
- Instant one-click playback for easy viewing of exported video evidence
- Advanced second-level investigation tools make it easy to refine exported video and re-export the most essential evidence
- The project tool allows users to merge video exports or archives from two different locations or XProtect systems together into one new export
- View up to 100 cameras time-synched during playback
- Scrollable activity timeline with magnifying feature
- Instant search on recordings based on date/time and activity/alarm (Video Motion Detection)
- Evidence can be generated as a printed report, a JPEG image, an AVI film or in the native database format
- Export audio recordings in WAV or AVI format
- Export video digitally zoomed to view area of interest only and to minimize export footprint size
- Re-export evidence containing native database and the XProtect Smart Client - Player for instant, easy viewing by authorities
- Encryption & password protection option for exported recordings and files
- Ability to add comments to exported evidence, also
 encrypted
- De-interlacing of video from analog cameras
- IPIX technology for PTZ in 360° recorded images
 360° ImmerVision Enables[®] Panomorph lens
- 360° ImmerVision Enables [®] Panomorph lens technology

XProtect Remote Client

Live view and Playback

- View live video for 1-16 cameras simultaneously from the same or different servers
- Playback of up to 9 recorded videos with date, sequence or time searching
- Advanced video navigation including fast/slow playback, jump to date/time, single step and video motion search
- Individual views can be user-defined in various layouts: view or playback camera images from multiple servers simultaneously in the same view
- Shared views can be managed centrally via the server with admin/user rights and user groups
- Import static or active HTML maps for fast navigation to cameras and good premises overviews
- Control output port relay operation, like control of gates
- Quick overview of sequences with detected motion and preview window

I/O and Events

• Quick overview of events

PTZ

- Control PTZ cameras remotely, also using preset positions
- Remote PTZ Point-and-Click control
- Remote PTZ zoom to a marked rectangle
- Take manual control over a PTZ camera that runs a patrolling scheme; after a timeout with no activity the camera reverts to its scheduled patrolling.
- Fisheye camera (Grandeye[™]/IPIX[™]) support for 1x2 or 2x2 'Quad View' for viewing all 360° at once
- Optional video compression in streaming from server to client gives better use of bandwidth

Export

- Create AVI files or save JPEG images
- Print incident reports with free-text user comments

Authentication

- System logon using XProtect user name and password
- System logon using Microsoft active directory user accounts

System

• Thin browser based client that does not require any software installation



XProtect Smart Wall

System

- Hardware agnostic runs on standard servers and displays, no special Video Wall hardware or network configurations required
- Flexible and seamlessly scalable supports any numbers of Smart Walls with any number and any combination of monitors at any location

Management

- Management of Smart Wall fully integrated with XProtect Corporate's management client
- Intuitive Smart Wall builder enables easy definition of numbers of Smart Walls, size and position of individual monitors
- Smart Wall presets provides powerful control of the layout (camera grid) and actual camera content
- All user actions are subject to assignment of user rights

Control

- Dynamic user control of Smart Wall layout and content through manual drag-and-drop of cameras and views into the Smart Wall via the Smart Client
- Automatic event driven control of Smart Wall layout and content based on rules, such as motion detection, I/O, integrated 3rd party applications, time, or video analytics events
- Layout control enables instant insertion of a camera in a specific monitor and position, changes of the Smart Wall monitor layout, setting of all (or some) of the monitors in the Smart Wall to a predefined layout and set of camera feeds
- Intuitive integration with the map function enables easy drag-and-drop of cameras in to the Smart Wall from the map

View

 Individual Smart Client users can view Smart Wall views as a part of the available view selection, which enables Smart Wall to be used as an operator collaboration tool





Minimum System Requirements

XProtect Corporate Servers

XProtect Corporate Recording / Failover Servers 4.1

HW Platform:

Dual Core Intel[®] Xeon[®], minimum 2.0 GHz (Quad Core recommended) RAM: minimum 1 GB (2 GB or more recommended). Ethernet (1 Gigabit recommended) HDD: minimum 100 GB free (depends on number of cameras and recording settings)

HDD type: E-IDE, PATA, SATA, SCSI, SAS (7200 RPM or faster)

OS:

Microsoft® Windows[®] 7 Ultimate (32 bit or 64 bit*), Microsoft Windows 7 Enterprise (32 bit or 64 bit*), Microsoft Windows 7 Professional (32 bit or 64 bit*), Microsoft Windows Server 2008 R2 (64 bit), Microsoft Windows Server 2008 (32 or 64 bit*), Microsoft Windows Vista Business (32 or 64 bit*), Microsoft Windows Vista Enterprise (32 or 64 bit*), Microsoft Windows Vista Ultimate (32 or 64 bit*), or Microsoft Windows Server 2003 (32 or 64 bit*)

Software: Microsoft .NET 4.0 Framework

XProtect Corporate Management Server 4.1

HW Platform:

Dual Core Intel Xeon, minimum 2.0 GHz (Dual Core recommended).

RAM: minimum 1 GB (2 GB or more recommended) HDD: minimum 50 GB free (depends on number of servers, cameras, rules, and logging settings) HDD type: E-IDE, PATA, SATA, SCSI, SAS (7200 RPM or faster)

OS: Microsoft Windows Server 2008 R2 (64 bit), Microsoft Windows Server 2008 (32 or 64 bit), Microsoft Windows Server 2003 (32 or 64 bit) To run clustering/failover servers, a Microsoft Windows

Server 2003/2008 Enterprise or Data Center edition is needed

Software:

Microsoft .NET 4.0 Framework Microsoft .NET 3.5 Framework SP 1 required for the SQL Server containing XProtect Corporate's system configuration

Internet Information Service (IIS) 5.1, or newer

XProtect Event Server 2.1

HW Platform:

Intel Xeon, minimum 2.0 GHz (Dual Core recommended) RAM: Minimum 1 GB (2 GB or more recommended) Ethernet (1 Gigabit recommended) HDD: Minimum 10 GB free (depends on number of servers, cameras, rules, and logging settings) HDD type: E-IDE, PATA, SATA, SCSI, SAS (7200 RPM or faster)

OS:

Microsoft Windows Server 2008 R2 (64 bit), Microsoft Windows Server 2008 (32 or 64 bit), Microsoft Windows Server 2003 (32 or 64 bit)

Software:

Microsoft .NET 4.0 Framework. Internet Information Service (IIS) 5.1, or newer





XProtect Corporate Clients

XProtect Smart Client 6.0 and Smart Wall

- HW Platform: Intel Core2[™] Duo, minimum 2.0 GHz (Quad Core recommended for larger views) RAM: Minimum 512 MB (1 GB recommended for larger views) HDD: Minimum 100 MB free
- Graphics Card:
- AGP or PCI-Express, minimum 1280×1024, 16 bit colors • **OS**:
- Microsoft Windows 7 Ultimate (32 bit or 64 bit*), Microsoft Windows 7 Enterprise (32 bit or 64 bit*), Microsoft Windows 7 Professional (32 bit or 64 bit*), Microsoft Windows Server 2008 R2 (64 bit), Microsoft Windows Server 2008 (32 or 64 bit*), Microsoft Windows Vista Business (32 or 64 bit*), Microsoft Windows Vista Enterprise (32 or 64 bit*), Microsoft Windows Vista Ultimate (32 or 64 bit*), Microsoft Windows XP Professional (32 or 64 bit*) or Microsoft Windows Server 2003 (32 or 64 bit*)
- Software: Microsoft .NET 4.0 Framework DirectX 9.0, or newer Windows Help (WinHlp32.exe)

XProtect Remote Client 3.7

- HW Platform:
 - Intel Pentium[®] 4, minimum 2.4 GHz RAM: Minimum 256 MB (512 MB recommended for larger views, 1 GB recommended for Windows Vista) HDD: Minimum 10 MB free
- OS:

Microsoft Windows 7 Ultimate (32 bit or 64 bit*), Microsoft Windows 7 Enterprise (32 bit or 64 bit*), Microsoft Windows 7 Professional (32 bit or 64 bit*), Microsoft Windows Server 2008 R2 (64 bit), Microsoft Windows Server 2008 (32 or 64 bit*), Microsoft Windows Vista Business (32 or 64 bit*), Microsoft Windows Vista Enterprise (32 or 64 bit*), Microsoft Windows Vista Ultimate (32 or 64 bit*), Microsoft Windows XP Professional (32 or 64 bit*) or Microsoft Windows Server 2003 (32 or 64 bit*)

• Software:

DirectX 9.0, or newer Windows Help (WinHlp32.exe)

XProtect Management Client 4.1

HW Platform: Intel Core2 Duo, minimum 2.0 GHz RAM: Minimum 1 GB. Ethernet (100 megabit or higher recommended) HDD: Minimum 100 MB free

• OS:

Microsoft Windows 7 Ultimate (32 bit or 64 bit*), Microsoft Windows 7 Enterprise (32 bit or 64 bit*), Microsoft Windows 7 Professional (32 bit or 64 bit*), Microsoft Windows Server 2008 R2 (64 bit), Microsoft Windows Server 2008 (32 or 64 bit*), Microsoft Windows Vista Business (32 or 64 bit*), Microsoft Windows Vista Enterprise (32 or 64 bit*), Microsoft Windows Vista Ultimate (32 or 64 bit*), Microsoft Windows XP Professional (32 or 64 bit*) or Microsoft Windows Server 2003 (32 or 64 bit*)

• Software:

Microsoft .NET 4.0 Framework DirectX 9.0, or newer Microsoft Internet Explorer, Firefox or Safari browser for online help

*) Note that the server will run as a 32 bit service/application



Miscellaneous

Supported Languages

XProtect Smart Client 6.0

 English, Arabic, Bulgarian, Portuguese (Brazil), Simplified Chinese, Traditional Chinese, Czech, Danish, Dutch, Finnish, French, German, Hebrew, Hindi, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Russian, Swedish, Slovak, Spanish, Thai and Turkish

XProtect Remote Client 3.6

• English, German, French, Spanish, Simplified Chinese, Japanese, Italian, Danish, and Swedish

XProtect Corporate Management Client 4.1

• English, Portuguese (Brazil), Simplified Chinese, Traditional Chinese, Danish, French, German, Italian, Japanese, Russian, and Spanish

XProtect Smart Wall 1.0

- Operator interface: English, Arabic, Bulgarian, Portuguese (Brazil), Simplified Chinese, Traditional Chinese, Czech, Danish, Dutch, Finnish, French, German, Hebrew, Hindi, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Russian, Swedish, Slovak, Spanish, Thai and Turkish
- Management interface: English, Portuguese (Brazil), Simplified Chinese, Traditional Chinese, Danish, French, German, Italian, Japanese, Russian, and Spanish

Licensing Structure

Base Server License

- An XProtect Corporate Base Server license is mandatory for installing the product
- The Base Server license permits the following deployments within the legal entity purchasing the Base Server License:
 - o Unlimited numbers of Management Servers
 - Unlimited numbers of Recording Servers / Failover Servers
 - Unlimited numbers of Smart Clients and Remote Clients

Camera Channel License

- To connect to a camera, a license per camera channel is required. In total, for all copies of the product installed under this license, the product may only be used with as many cameras as you have purchased camera licenses for.
- Camera Licenses can be purchased in any numbers. To extend the installation with additional Camera Licenses, the Base Server License number (SLC) is required when ordering.

Licensing of Milestone Federated Architecture

- Milestone Federated Architecture can freely be deployed within the same legal entity. This implies that unlimited sites and cameras can be included in the federated hierarchy, without the need for additional or special licenses.
- Deployment of Milestone Federated Architecture between two, or more, XProtect Corporate systems owed by *different legal entities*, one XProtect Corporate Milestone Federated Architecture Device License is required for each named device (camera) in the federated sites that shall be accessible in the federating site.

Smart Wall Application License

- XProtect Smart Wall is an add-on product to XProtect Corporate and subject to separate licensing.
- The XProtect Smart Wall Application License permits connection of unlimited numbers of Smart Walls (incl. physical displays) and camera feeds.