

# Milestone Systems Milestone Integration Platform Software Development Kit



## Open a world of innovative possibilities

The Milestone Integration Platform Software Development Kit (MIP SDK)\* is a comprehensive tool that makes it easy to create applications for Milestone XProtect® video management software (VMS). The development framework allows you to seamlessly integrate business solutions and video enable security devices while managing them all together in the XProtect software.

## Experience the power of the open platform

The Milestone open platform environment enables fast and flexible integration of applications and systems into the XProtect software, coming from Milestone Solution Partners (MSPs), end customers or third-party vendors. The open architecture of XProtect together with the MIP SDK allows for endless possibilities to add features and functionality to applications for creating powerful, new surveillance solutions.

*\*The MIP SDK can be used with the XProtect® Corporate, XProtect® Enterprise and XProtect® Professional software products.*

### The Milestone open platform is your foundation for success

Milestone is the world's leading provider of open platform IP video surveillance software. XProtect is designed with open architecture that allows for integration with the widest choice of network video and computer hardware. The XProtect products interface with more than 1,000 IP cameras, encoders and select DVRs from almost 100 different manufacturers. Committed to providing a true IP video open platform and freedom of choice, Milestone is proud to be among the first VMS vendors to support ONVIF and PSIA standards.

The open platform lets you optimize your security installation with today's and tomorrow's best-of-breed solutions since hardware is decoupled from software. By integrating IP video with multiple security systems and video analytics, you gain true value-adding efficiency and expand your capabilities.

- Streamlined solutions – Merge and manage diverse security systems in one united interface
- Innovative – With endless integration possibilities, MSPs can meet customer needs and build market differentiation
- Comprehensive – Detailed development framework contains tools, user-friendly templates and code samples



The Open Platform Company

# Innovative Integration Solutions

The MIP SDK offers a multitude of integration possibilities with XProtect software, so you can enhance and customize your installation according to your needs. You can integrate with systems such as access and perimeter control, Physical Security Information Management (PSIM) solutions, mobile devices and video analytics. Instead of managing disparate systems on different interfaces, the MIP SDK allows you to merge all of your security platforms into one interface.

With the MIP SDK you can differentiate your solutions to stand out in the market and better meet customer needs. The MIP SDK also provides a faster route to market since it builds a united interface, allowing you to develop one solution that works with all XProtect products.



*The MIP SDK allows custom integrations with other systems that can be managed or monitored through one interface.*

## Three ways to integrate

To provide maximum flexibility and allow optimal integration of a wide range of different types of systems and applications, the Milestone Integration Platform enables three ways of integration. You can use one integration method or a combination of integration methods.

### Protocol integration

The most basic integration method gives you the freedom to choose your coding platform. If you do not have access to the .NET framework, you can use protocol integration to access Milestone configuration, retrieve live or recorded video and send control commands and events.

### Component integration

Using the .NET framework, the component integration method allows you to take advantage of free software components that act as building blocks to make it easier to integrate with XProtect. Component integrations enable an application to display live and recorded video, receive and send events, issue control commands, access XProtect configurations and get live video streams.

### Plug-in integration

This advanced integration method allows you to embed plug-ins directly into the XProtect application environment and run them as an integral part of the XProtect software and client applications. Integration directly in the open platform enables you to utilize Event Server, XProtect® Smart Client and Management Client/Application, making your application easier than ever to use. A plug-in is able to run across XProtect products, making it easy to support multiple products with a single developed plug-in.

# Extensive development toolbox

Committed to Milestone's open platform promise, the MIP SDK features extensive documentation to help you develop and to inspire you to create unique and powerful solutions. The MIP SDK is a toolbox containing code samples and applications, proven Milestone libraries, Microsoft® Visual Studio® project templates and code components for common tasks. The development framework not only reduces the effort and time needed to develop a solution, but it also provides standard and well-tested components to help ensure a high-quality solution.



## The MIP SDK Documentation\*:

- One user interface contains all documentation
- You can search across notes and interface documentation
- Documentation is divided according to key development approach: protocol, component and plug-in
- Each integration method tab contains information such as application catalog, architecture notes, class reference documentation, getting started tools and samples
- You can access code components for common tasks such as system logon, video decoding and rendering, configuration distributions and authorization verifications

\*Access to the documentation is granted to all MSPs.

*"Working with the new Milestone MIP SDK has been a breeze. I found the SDK layout to be very intuitive and well thought out. This SDK will allow us to deliver an even tighter integrated solution with lots of new features to our customers in a very short time frame."*

**George Crawford, Software Developer,**  
Open Options Inc. Graphics

## The open platform is a flexible environment. Some of the options it allows are:

- Add simple ways of system control, for example handling devices with pan-tilt-zoom functionalities, events and outputs
- Store custom configurations
- Share custom configuration between applications
- Assign similar administrative settings for XProtect Corporate, XProtect Enterprise and XProtect Professional
- Add specific user controls to "Setup," "Live" and "Playback" panels inside XProtect Smart Client
- Add customized user settings, for example private user and shared users
- Make customized graphics overlay on top of live or recorded video, for example in analytics applications
- Ability to export video in AVI and native database formats

# Fast and future proof

It does not matter which version of XProtect software you are using because the MIP SDK's unique, unified platform allows you to build one solution that applies to present and future\* software versions. Saving you time and money, the MIP SDK unified solution makes the MSP and customer solutions product and release independent. In the open platform environment, integrated solutions are tied to a common .NET library, rather than specific component versions, ensuring solutions will work seamlessly across the XProtect products and between different product releases. Simply put, the MIP SDK makes it easier and more cost-effective than ever to create unified solutions.

*\*The MIP SDK can be used with XProtect Corporate 4 and XProtect Enterprise 8 and XProtect Professional 8 available the second half of 2011.*

## Share open platform plug-ins between XProtect

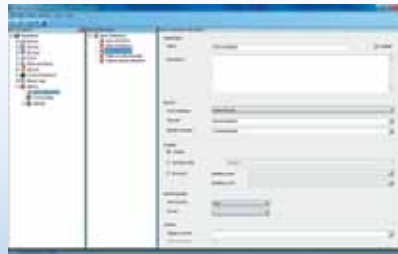
1

XProtect Smart Client



2

XProtect Corporate Management Client



3

XProtect Enterprise and XProtect Professional Management Application



### Milestone Integration Platform

*With the MIP SDK, you can create one plug-in integration that is tied to a common .NET library so it can be used in XProtect Smart Client, XProtect Corporate, XProtect Enterprise and XProtect Professional management interfaces.*

## Take your solution one step further by joining the Milestone Solution Partner (MSP) program

Partnering with Milestone provides you with the following advantages:

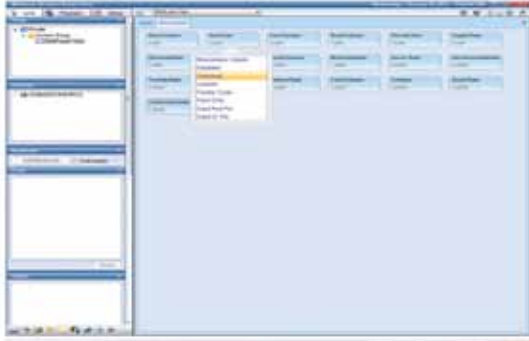
- Complete integration descriptions published in the Milestone Solution Finder
- Marketing partnerships including access to Milestone partner events, trade show booths and joint marketing activities
- Sales partnerships with the Milestone sales and partner channels
- Technical partnership with direct access to Milestone SDK developers and consultants
- The opportunity to market your own integration to other Milestone partners
- Access to Milestone communication tools

For more information about the MSP program and how to obtain the MIP SDK, please visit: [www.milestonesys.com/msp](http://www.milestonesys.com/msp)



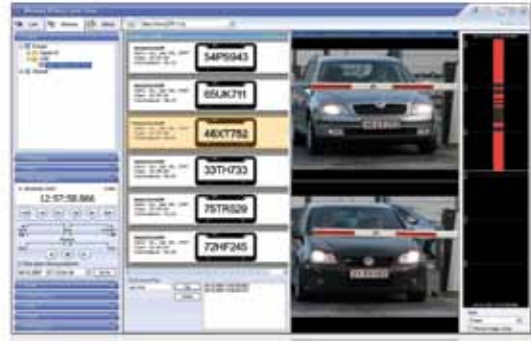
# Imagine the possibilities

The MIP SDK offers a rich set of integration possibilities that enable MSPs to develop innovative solutions to meet customer needs and build market differentiation. Using the MIP SDK, MSPs have created custom solutions to enable access control, video analytics, building management, situation management, PSIM solutions and mobile clients.



## Access control

Using the MIP SDK, you can integrate video taken from cameras at access points including doors and gates and manage them and their alarms through one common interface in XProtect. The video enabled integration helps reduce false alarms and increases security because you can visually verify the identity of people before granting them access.



## Video analytics

When you integrate video analytics, such as people counting, license plate recognition or biometrics into XProtect, you can give your solution intelligence that analyzes your video for specific parameters. With the MIP SDK, you can view video analytics data in the same interface in the XProtect software.



## PSIM solutions

With the MIP SDK you can video enable current PSIM systems, which adds an increased level of accuracy and verification to your solution. Because you integrate XProtect with the PSIM system, you gain unified control over the entire system and can video verify alarms and events across the system.



## Loss prevention

With the MIP SDK, video data can be linked with loss prevention solutions to help reduce fraud and identify suspicious behavior. Linking video with radio frequency identification (RFID) technology and people and zone counters, you can improve store operations.

**The Open Platform: a foundation for long-term success**

Milestone XProtect acts as the powerful core of surveillance systems, providing the widest choice in third-party hardware components and integration with other business systems. It is the foundation enabling you to cost-effectively choose the best solutions for today and tomorrow.



**About Milestone Systems**

Founded in 1998, Milestone Systems is the global industry leader in open platform IP video management software. The XProtect platform delivers powerful surveillance that is easy to manage, reliable and proven in thousands of customer installations around the world. With support for the widest choice in network hardware and integration with other systems, XProtect provides best-of-breed solutions to 'video enable' organizations – managing risks, protecting people and assets, optimizing processes and reducing costs. Milestone software is sold through authorized and certified partners. For more information, visit: [www.milestonesys.com](http://www.milestonesys.com)

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