Milestone Certified Solution

OPEN OPTIONS®
ACCESS TECHNOLOGY

Certified Solution for
milestone

DNA Fusion™ XProtect Integration

Date certified (2019-05-15)

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About Open Options

Since its founding in 1997, Open Options has been a pioneer in the open platform community. Today, the company continues to be a leading provider of innovative access control solutions with the best service and support teams in the industry. Open Options' flagship access control platform, DNA Fusion™, seamlessly connects with leading security technologies — including video, biometrics, wireless locks, intercom, and more — to provide customers with a best-of-breed security solution. Our open business culture and dedication to customer service is what sets us apart; when you do business with Open Options, you're doing business with real people who care about your experience.

About Milestone Systems

Milestone Systems is a global leader in providing open platform IP video surveillance software. Milestone has provided easy-to-use, powerful video management software in more than 200,000 installations, worldwide.

Milestone XProtect® provides open architecture products that are compatible with more IP cameras, encoders, and digital video recorders than any other manufacturer. Because Milestone provides an open platform, you can integrate today's best business solutions and expand what's possible with future innovations. Visit www.milestonesys.com for more.

Executive Summary

DNA Fusion delivers a complete and scalable access control solution for any organization ranging from the multi-campus enterprise to a single lobby entrance. DNA Fusion takes full advantage of the distributed network architecture model and open platform control panels allowing organizations to monitor and manage several integrated systems through a single common interface.

DNA Fusion utilizes a combination of both native and managed technologies to maximize speed as well as productivity. DNA Fusion takes full advantage of Visual Studio's C++ and .NET tools and leverages Microsoft's remoting technologies to communicate securely across the network. Microsoft SQL Server is employed for the DNA Fusion database to permit easy connectivity, management, and synchronization across other business systems.

DNA Fusion seamlessly integrates with Milestone Systems' XProtect VMS platform allowing live and recorded video to be surfaced in the DNA Fusion access control software. This integration relies on the DNA Fusion interface to view cameras, associate cameras in XProtect to door and alarm events, and camera callup and/or PTZ preset based on access control events. DNA Fusion also supports plotting cameras on graphic maps and simplifies XProtect integration setup with such features as "scan for cameras" to automatically pull associated cameras into the DNA Fusion interface.

Key features

- PC based access control system
- Developed to Mercury Security open hardware platform
- Scalable to accommodate any system in terms of doors and/or cardholders
- Real-time event and alarm reporting
- Connects to many additional building systems
- Solution listed on Federal Approved Products List
- Seamless integration to Milestone XProtect VMS and XProtect Access
- Support for most reader technologies, including secure channel OSDP
- Graphic map function for visual representation of system components/site
- Web and Mobile platforms that support Milestone functionality
- Scan for cameras feature allows for quick VMS setup in DNA Fusion
- Triggers and macros provide unlimited if/then logical statements and actions

Typical applications

- K-12 school districts
- Colleges and Universities
- Large corporate campuses
- Financial institutions
- Government and Military institutions
- Healthcare facilities
- Oil and Gas and Utilities

Certified Products

- DNA Fusion v7.6.0.12
- Milestone XProtect Corporate 2019 R1 (specify tested XProtect versions)
    - XProtect® Expert
    - XProtect® Professional and Professional +
    - XProtect® Enterprise
    - XProtect® Smart Client 2019

Performance of the solution may vary if different XProtect products and/or system components not listed in the tests details are included.

Test Setup – DNA Fusion/XProtect Integration

Install Milestone XProtect Corporate 2019 R1 on the Open Options Windows 2019 VM Demo System – Completed

Install DNA Fusion 7.6.0.12 on the Open Options Windows 2019 VM Demo System – Completed

Install the Milestone support files on the Open Options Windows 2019 VM Demo System – Completed

Add the Milestone XProtect Corporate NVR to the Open Options Windows 2019 VM Demo System – Completed

Scan for cameras and verify video on the Open Options Windows 2019 VM Demo System – Completed

Create camera call ups for Doors in the Open Options Windows 2019 VM Demo System – Completed

Assigned default cameras to select Door for playing video back from the DNA Fusion Alarms and Events Managers

Video display in DNA Fusion Web and Mobile applications

DNA Fusion Client Testing - testing will last 1 week starting 4/8/2019 and ending 4/15/2019

•   Test functionality of Milestone camera call ups – Pass

•   Test functionality of Milestone camera default assignments - Pass

•   Test functionality of the Milestone PTZ control – Pass

•   Test playback of Milestone recorded video – Pass

List of all macros created for testing:

1. Camera Call UP EP 1501 R1 Door
    a. Access Granted Door Used – AXIS P3365 Fixed Dome Network Camera (cam2.ooaccess.com) - Camera 1 – single video window
    b. Door Forced – AXIS P3365 Fixed Dome Network Camera (cam2.ooaccess.com) - Camera 1 – live view pane 1 – recorded video pane 2 – 15 second pre alarm
    c. Door Held – AXIS P3365 Fixed Dome Network Camera (cam2.ooaccess.com) - Camera 1 – single video window
2. Camera Call MR-51e R1 Door
    a. Access Denied Door – AXIS P3365 Fixed Dome Network Camera (cam3.ooaccess.com) - 1– double video window – live view pane 1 – recorded video pane 2 – 15 second pre alarm
    b. Door Forced – AXIS P3365 Fixed Dome Network Camera (cam3.ooaccess.com) – Camera 1 - Recorded video
    c. Door Held – AXIS P3365 Fixed Dome Network Camera (cam3.ooaccess.com) - Camera 1– Live video
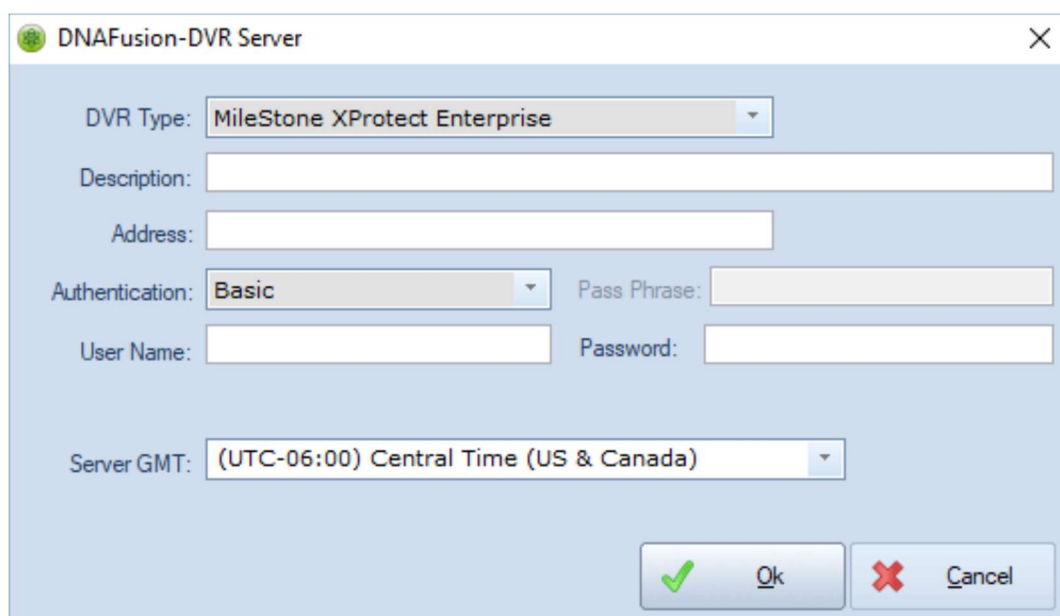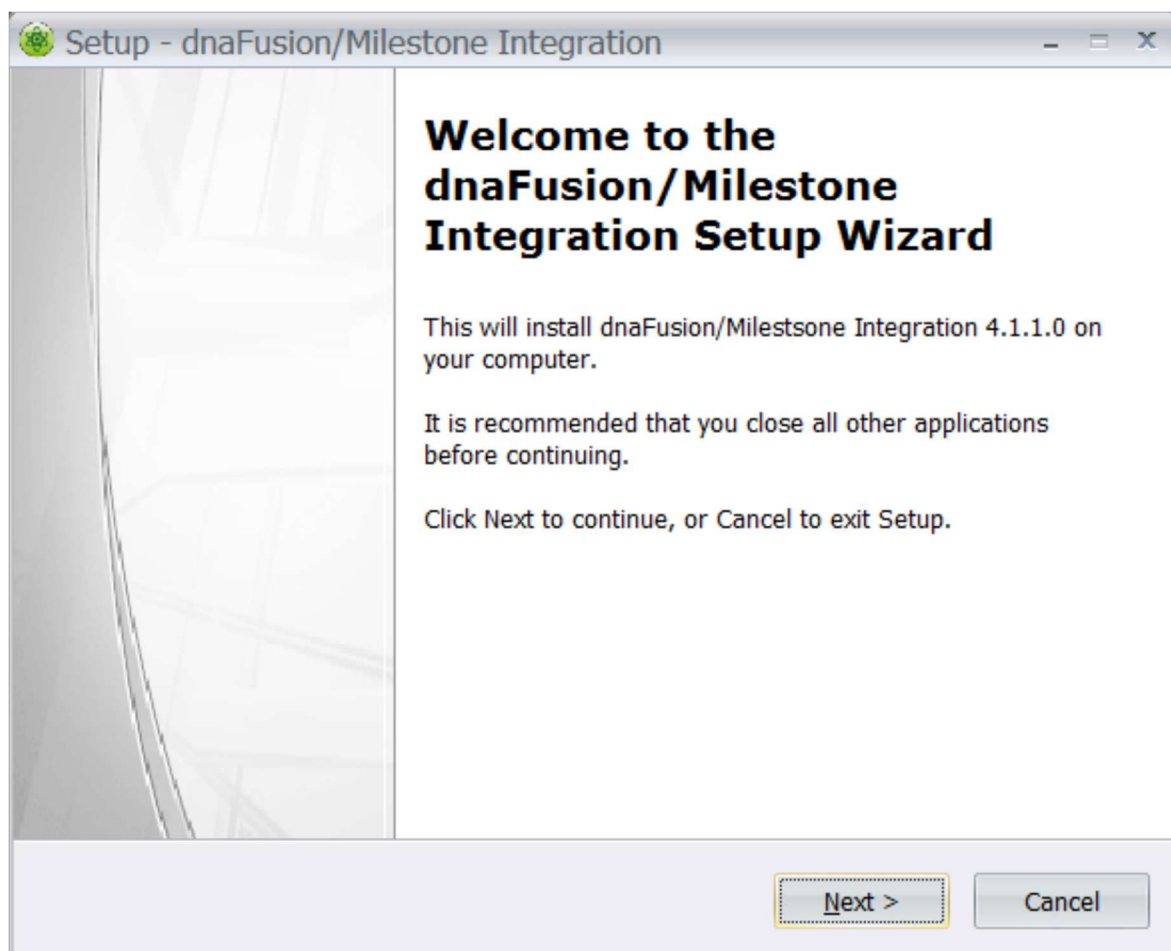

Testing by Lane Ford

Server tested on: VM-2019-lf

Hardware tested on:

•   DController (Mercury EP1501)

•   NSC-100 (Mercury MR51e)

All simulated video streams used in this test were configured at 30 frames per second (FPS). All video streams were configured to use the H.264 video codec. The image resolutions used in this test included the following:

• 1920x1080 (2.1 Megapixel / 1080p / 2.3 Mbit/s)

Setup - dnaFusion/Milestone Integration

Welcome to the dnaFusion/Milestone Integration Setup Wizard

This will install dnaFusion/Milestsone Integration 4.1.1.0 on your computer.

It is recommended that you close all other applications before continuing.

Click Next to continue, or Cancel to exit Setup.

Next >   Cancel

DNAFusion-DVR Server

DVR Type: MileStone XProtect Enterprise

Description:

Address:

Authentication: Basic   Pass Phrase:

User Name: Password:

Server GMT: (UTC-06:00) Central Time (US & Canada)

✔ Ok   ✖ Cancel

Hardware Properties: DOOR 1.1.D1

Common Properties
Door Objects
Advanced
Macros
Auto Unlock

Common Properties

Address
Site: Site 1: OO Training
Controller: 1.1: Dallas Office (2nd Floor)
Door Number: ACM: 1   Door Type: Normal

Situations...

Other
Description: Dallas Lobby Door
Home Page:

Point Alarm Properties
Alternate Priority: 0   Security Level: Normal
☐ Do Not Load Home Page on Alarm
Alarm Media File:
Alarm Text:

Camera: Camera 1
None
1- Front PTZ
10 - Warehouse 360
2 - Front Entrance
3 - Lobby
4 - Side Entrance
5 - Carport
6 - Warehouse Double Door
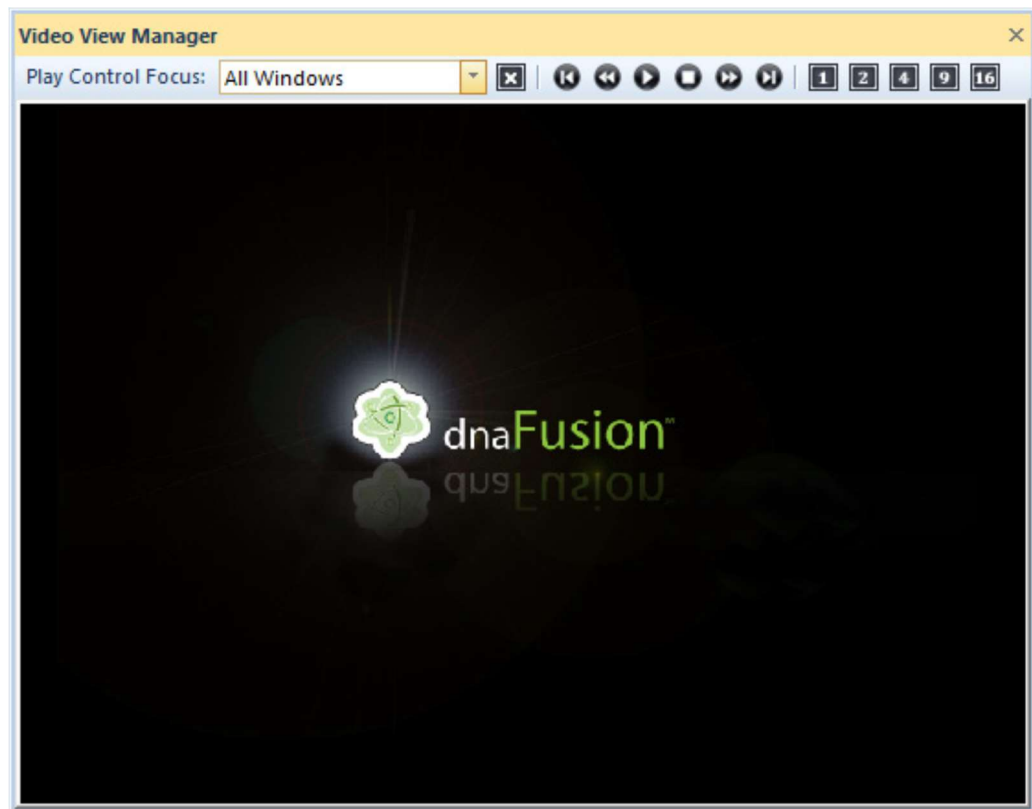7 - Warehouse Single Door
8 - Warehouse Rollup Door
9 - Classroom
Camera 1
Front Left Camera
Front Right Camera
Overhead Camera (PTZ)

Templates
Template Name:
Description:
Application Notes:

✔ Ok
✖ Cancel
? Help

Video View Manager

Play Control Focus: All Windows

Conclusion

The Open Options DNA Fusion Integration to Milestone XProtect® platform offers a powerful integration between Access Control and Video Management. The integration of the XProtect video platform into DNA Fusion provides users a unified solution that connect these two critical security solutions into a single platform for monitoring and keeping any facility safe.

Resources

General VMS Integration Datasheet –

https://www.ooaccess.com/download/product_datasheets/VMS-Datasheet.pdf