Milestone Certified Solution

OPEN OPTIONS®
ACCESS TECHNOLOGY

Certified Solution for
milestone

DNA Fusion™ and XProtect® Access

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.

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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 Access, giving customers a wider choice in security management. This integration allows users to view and manage their DNA Fusion access control system directly through the Milestone Smart Client interface and surfaces key components of the access control system such as cardholder information and photos at entry door to compare and verify entry, access control events and alarms that can be associated to cameras within the XProtect system, and control of access control doors via the Smart Client interface.

Key features of DNA Fusion

- 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
- Milestone XProtect® Smart Client 2019 R1

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

Test Setup – ACM Plugin/XProtect® Access

Milestone XProtect® 2019 R1 Access Control with DNA Fusion 7.6.0.15

Install and configure Flex API v1.26.

Install Milestone Flex API Integration plug-in DNA Fusion (Version: 1.1.2.5, 1.1e)

Milestone Xprotect® Management Client 2019 R1

1. Enable Access Control Settings
   a. Flex API Service URL: http://locahost:8097
   b. Flex API Key:
   RkFQSUtFAAJQAAAAQGVQOeKhSJeWL7Xy35SnPDTXKhaxRGWmRfZhlTsmzNfqSwxyUmkWq6DK90u+IndXBLmtr+RGZd7MdPOE1xE7yn9P3V1NfBHC1eh79sheYqE=
   c. Event Receiver Port: 8899
2. Doors and Associated Cameras
   a. Enabled Doors and Associated Cameras to Access Point.
3. Access Control Events
   a. Enabled all events monitored in XProtect Smart Client.

4. Cardholders
   a. Listed and search for cardholder(s) with assign pictures used in the XProtect Smart Client

Milestone XProtect Smart Client features

1. Access Control
   a. Events viewed by Event Type, Doors or Cardholders with associated Video feeds.
   b. Door mode control including Momentary Unlock, Disabled, Unlocked, Locked, Facility Code, Card Only, Pin Only, Card and Pin, and Card or Pin.
   c. Door status display
   d. Overlay buttons on video with door commands
   e. Run reports based on access control events
2. Live with views with associated Door Access Event with Card Holder Names and Picture displayed.

Testing by Lane Ford

Server tested on: VM-2019-lf

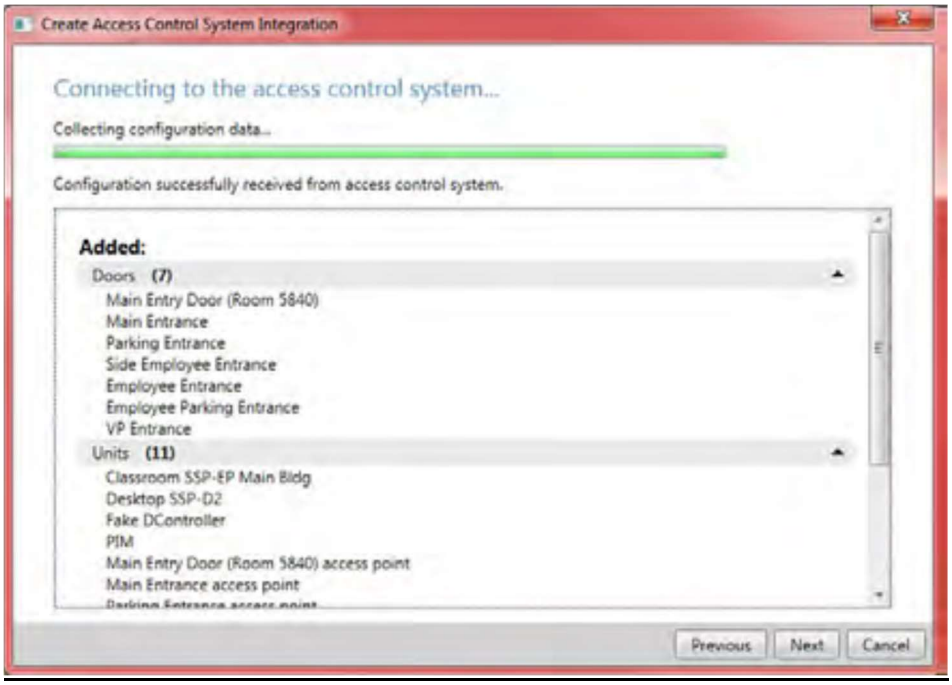
Hardware tested on:

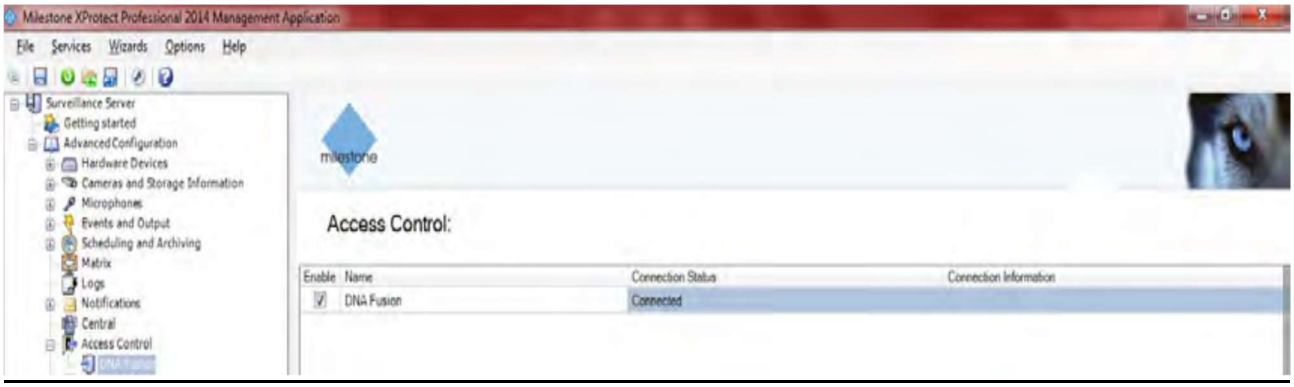
- DController (Mercury EP1501)
- NSC-100 (Mercury MR51e)

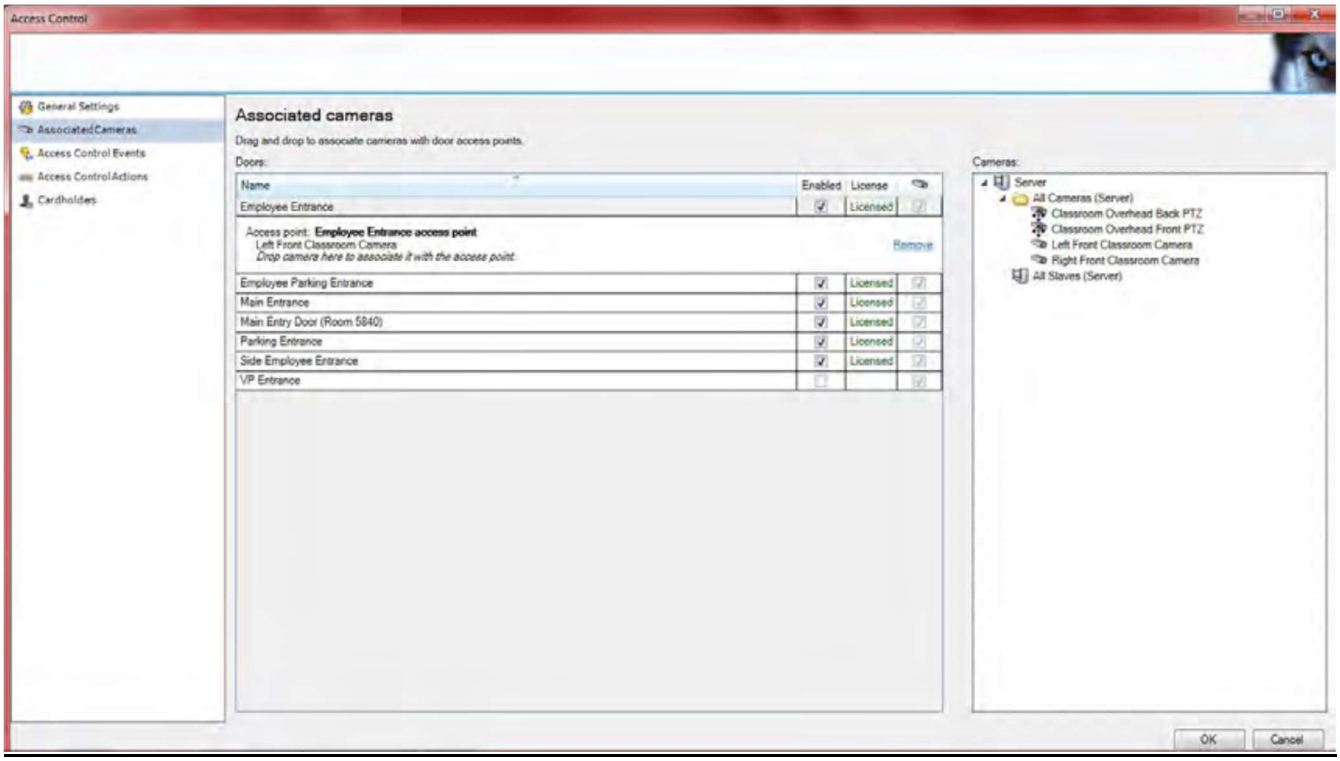
All simulated video streams used in this test were configured at 30 frames per second (FPS). All video streams were configured to use the H.264 video codec. The image resolutions used in this test included the following:

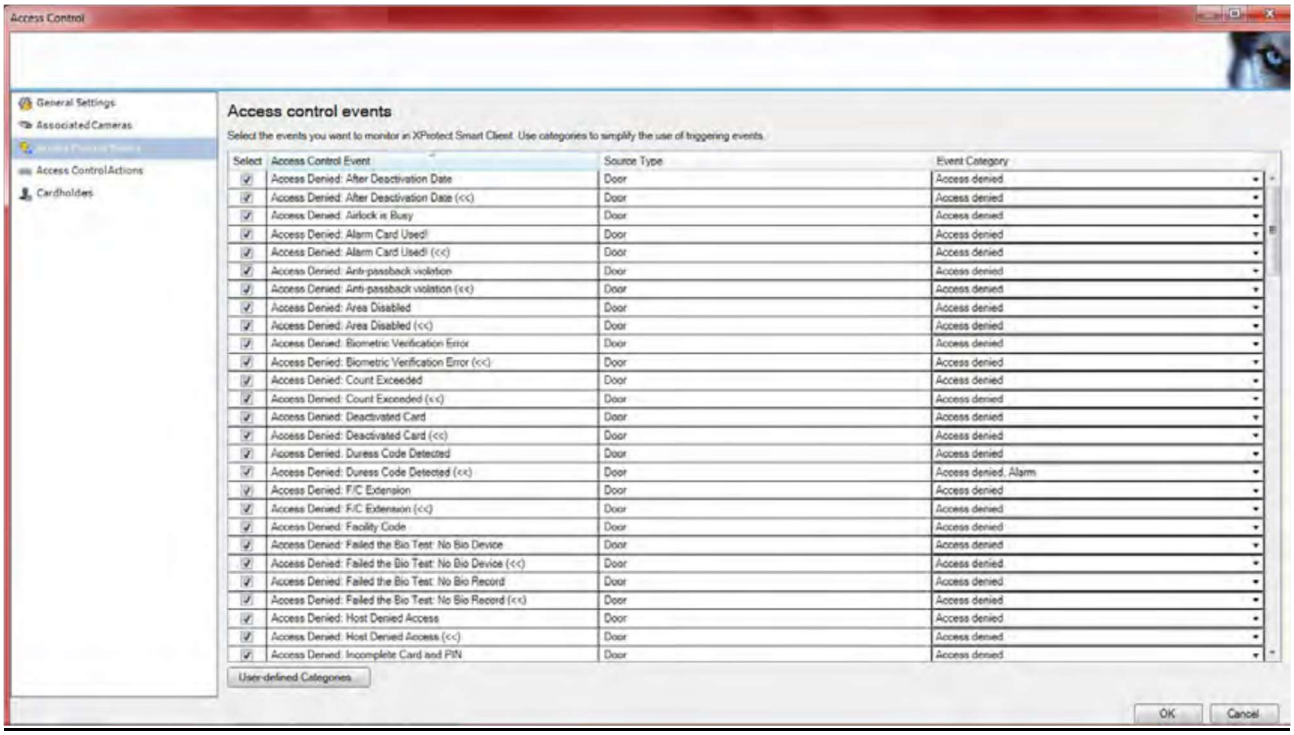
- 1920x1080 (2.1 Megapixel / 1080p / 2.3 Mbit/s)

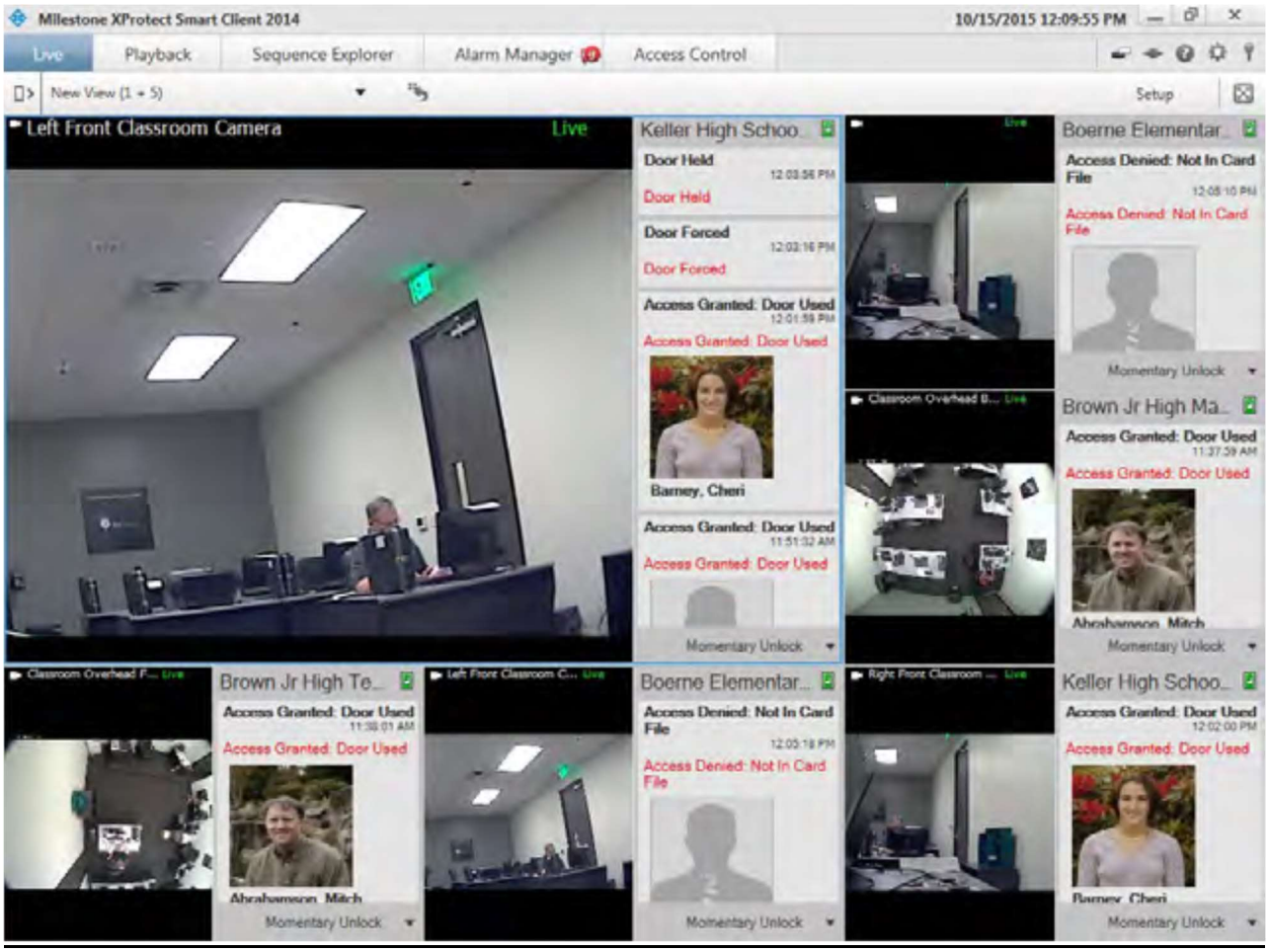
Setup - FlexAPI Milestone Plugin
Welcome to the FlexAPI Milestone Plugin Setup Wizard
This will install FlexAPI Milestone Plugin 1.0.0.0 on your computer.
It is recommended that you close all other applications before continuing.
Click Next to continue, or Cancel to exit Setup.
FLEX API
Next >
Cancel


Create Access Control System Integration
Connecting to the access control system...
Collecting configuration data...
Configuration successfully received from access control system.
Added:
Doors (7)
Main Entry Door (Room 5840)
Main Entrance
Parking Entrance
Side Employee Entrance
Employee Entrance
Employee Parking Entrance
VP Entrance
Units (11)
Classroom SSP-EP Main Bldg
Desktop SSP-D2
Fake DController
PIM
Main Entry Door (Room 5840) access point
Main Entrance access point
Previous
Next
Cancel


Milestone XProtect Professional 2014 Management Application
File Services Wizards Options Help
Surveillance Server
Getting started
Advanced Configuration
Hardware Devices
Cameras and Storage Information
Microphones
Events and Output
Scheduling and Archiving
Matrix
Logs
Notifications
Central
Access Control
Access Control:
Enable Name Connection Status Connection Information
DNA Fusion Connected


Access Control
General Settings
Associated Cameras
Access Control Events
Access Control Actions
Cardholders
Associated cameras
Drag and drop to associate cameras with door access points.
Doors:
Name Enabled License
Employee Entrance Licensed
Access point: Employee Entrance access point
Left Front Classroom Camera
Drop camera here to associate it with the access point.
Remove
Employee Parking Entrance Licensed
Main Entrance Licensed
Main Entry Door (Room 5840) Licensed
Parking Entrance Licensed
Side Employee Entrance Licensed
VP Entrance
Cameras:
Server
All Cameras (Server)
Classroom Overhead Back PTZ
Classroom Overhead Front PTZ
Left Front Classroom Camera
Right Front Classroom Camera
All Slaves (Server)
OK
Cancel


Access Control
General Settings
Associated Cameras
Access Control Actions
Cardholders
Access control events
Select the events you want to monitor in XProtect Smart Client. Use categories to simplify the use of triggering events.
Select
Access Control Event
Source Type
Event Category
Access Denied: After Deactivation Date
Access Denied: After Deactivation Date (<c)
Access Denied: Airlock is Busy
Access Denied: Alarm Card Used!
Access Denied: Alarm Card Used! (<c)
Access Denied: Anti-passback violation
Access Denied: Anti-passback violation (<c)
Access Denied: Area Disabled
Access Denied: Area Disabled (<c)
Access Denied: Biometric Verification Error
Access Denied: Biometric Verification Error (<c)
Access Denied: Count Exceeded
Access Denied: Count Exceeded (<c)
Access Denied: Deactivated Card
Access Denied: Deactivated Card (<c)
Access Denied: Duress Code Detected
Access Denied: Duress Code Detected (<c)
Access Denied: F/C Extension
Access Denied: F/C Extension (<c)
Access Denied: Facility Code
Access Denied: Failed the Bio Test: No Bio Device
Access Denied: Failed the Bio Test: No Bio Device (<c)
Access Denied: Failed the Bio Test: No Bio Record
Access Denied: Failed the Bio Test: No Bio Record (<c)
Access Denied: Host Denied Access
Access Denied: Host Denied Access (<c)
Access Denied: Incomplete Card and PIN
Door
Access denied
Access denied, Alarm
User-defined Categories...
OK
Cancel


Milestone XProtect Smart Client 2014
10/15/2015 12:09:55 PM
Live
Playback
Sequence Explorer
Alarm Manager
Access Control
New View (1 + 5)
Setup
Left Front Classroom Camera
Live
Keller High Schoo...
Door Held
Door Held
Door Forced
Door Forced
Access Granted: Door Used
Access Granted: Door Used
Barney, Cheri
Momentary Unlock
Boerne Elementar...
Access Denied: Not In Card File
Access Denied: Not In Card File
Momentary Unlock
Brown Jr High Ma...
Access Granted: Door Used
Access Granted: Door Used
Momentary Unlock
Brown Jr High Te...
Access Granted: Door Used
Access Granted: Door Used
Momentary Unlock
Boerne Elementar...
Access Denied: Not In Card File
Access Denied: Not In Card File
Momentary Unlock
Keller High Schoo...
Access Granted: Door Used
Access Granted: Door Used
Momentary Unlock

Conclusion

The Open Options DNA Fusion integration to Milestone XProtect® Access offers a powerful integration between Access Control and Video Management. The combination of integrations provide our customers a choice in UI for administering both Access and Video. The integration to XProtect Access allows added functionality and security within the XProtect® Smart Client by surfacing access control events, doors, and cardholder information and providing a window of controlling doors and reporting on access events and alarms from within the Milestone interface.

Resources

ACM Plugin Datasheet –

https://www.ooaccess.com/download/Milestone-ACM-Integration.pdf