# Card-Access 4K Milestone Access Control Plugin

## Version 1.4

**Date: 01-20-2022**

# CardAccess4K Access Control Plugin

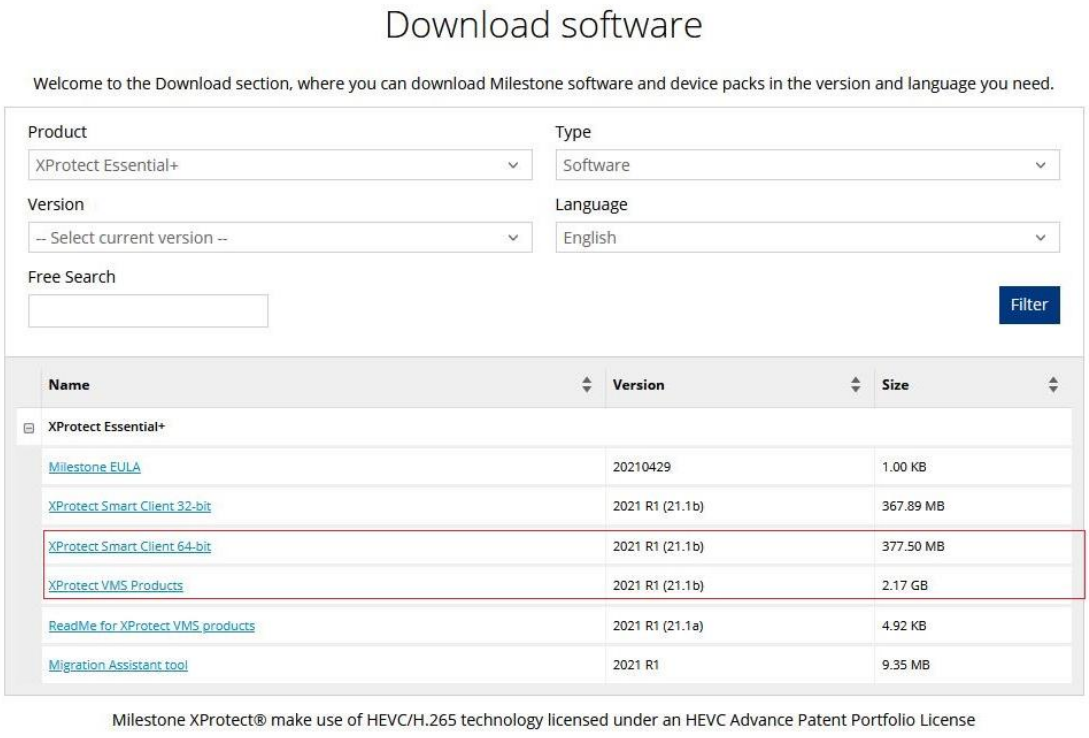
CardAccess4K Access Control is customized of Milestone Access Control Plugin. The Doors can be manual controlled using this plugin. CardAccess4K Badge and Reader events shows to the event grid. Also, CardAccess4K Badges shows as cardholders.

**Prerequisites:**

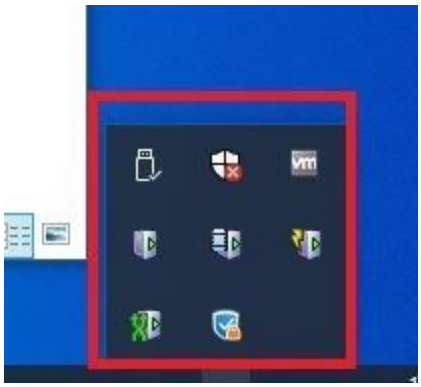
A) CA4K version 1.1.5x.xxx or later must be installed.

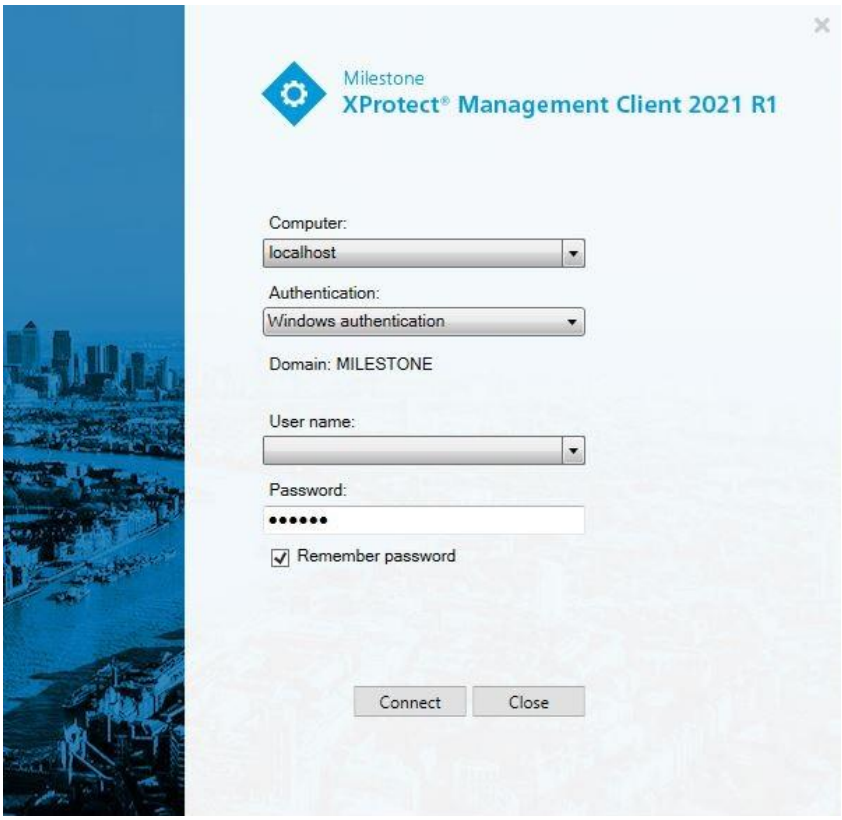
B) CA4K RESTful API must be installed.
**NB:** Please confirm port 8081 is configured for both inbound and outbound. Make sure CA4K Application is up and running also check CA4K RESTful API by browsing API webpage (ex: <ip address>: 8081). IIS must be installed and configured same as CA4K web client installation, please refer ***CA4KWeb Installation and Configuration.pdf*** in documentation folder.

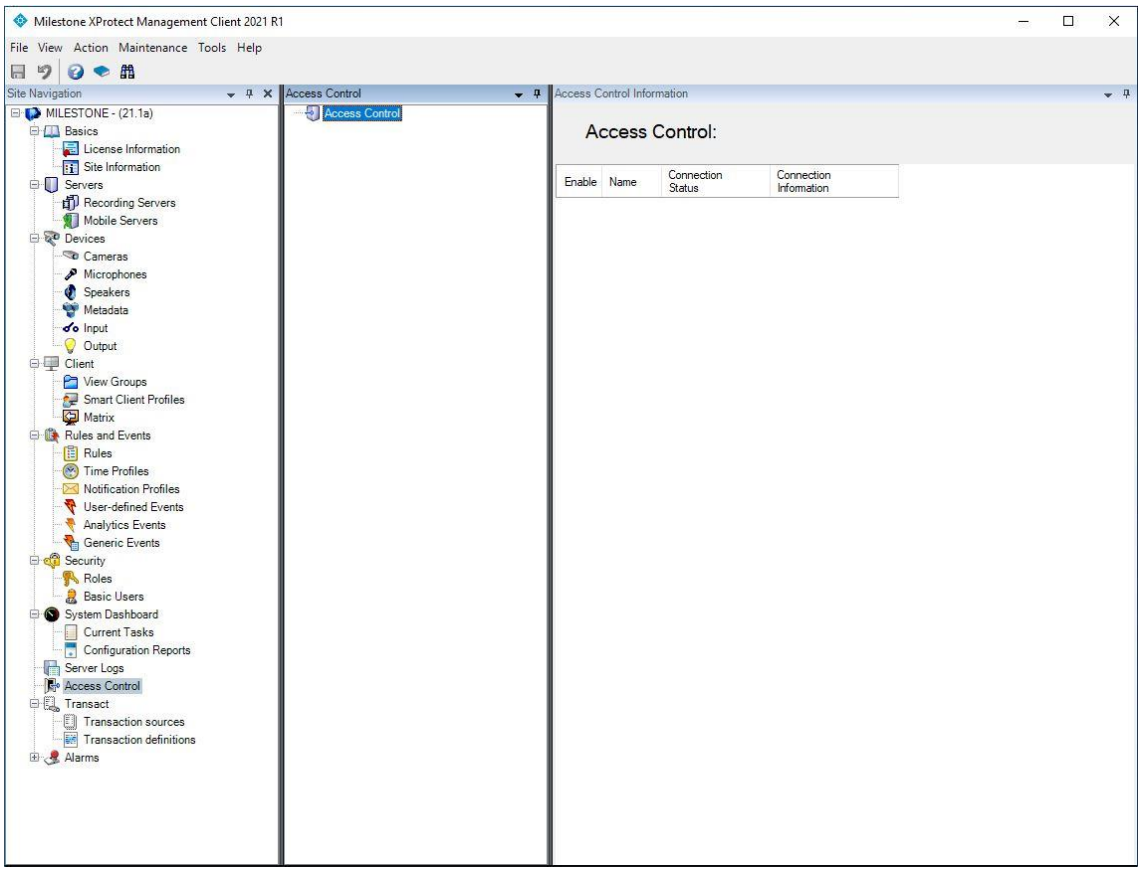
1. Download and install Milestone Management Client and Smart Client (64 bits) from bellow link https://www.milestonesys.com/downloads/?prod=1419&type=11&lang=27asdfasdf



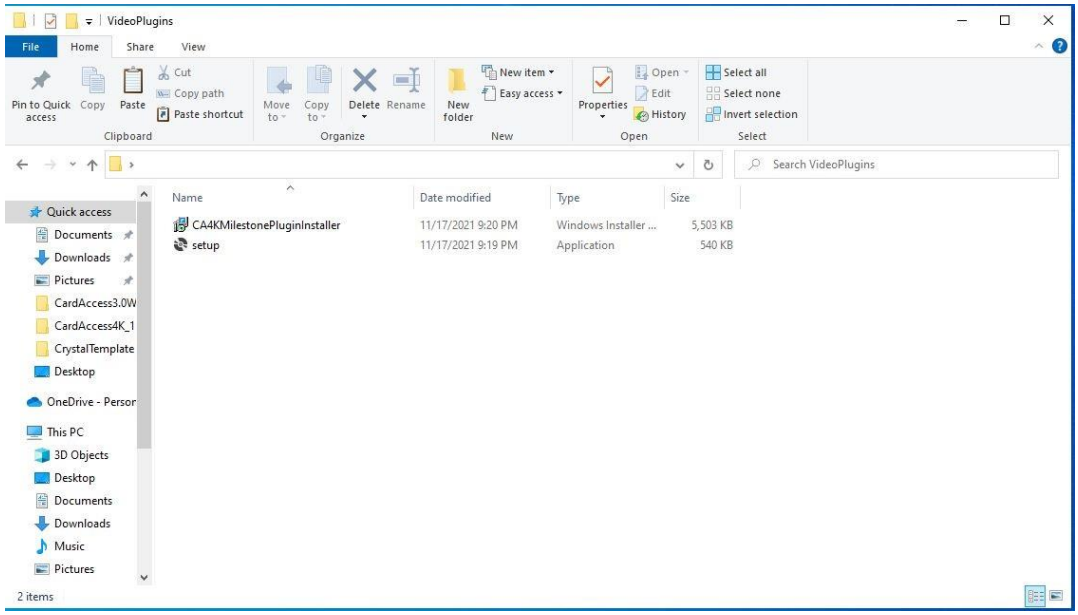

After completing installation installed service manager will show on the task manager. Run The Milestone Management Client and active the milestone access control license.



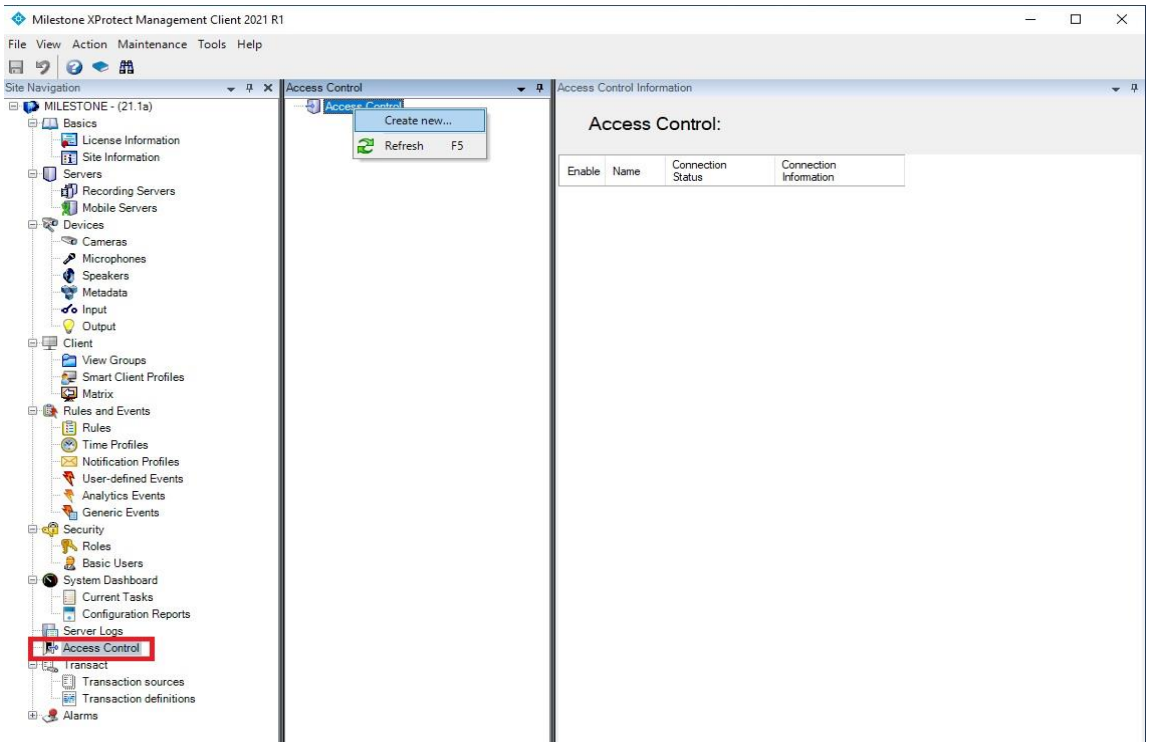

Milestone
XProtect® Management Client 2021 R1
Computer:
localhost
Authentication:
Windows authentication
Domain: MILESTONE
User name:
Password:
Remember password
Connect
Close



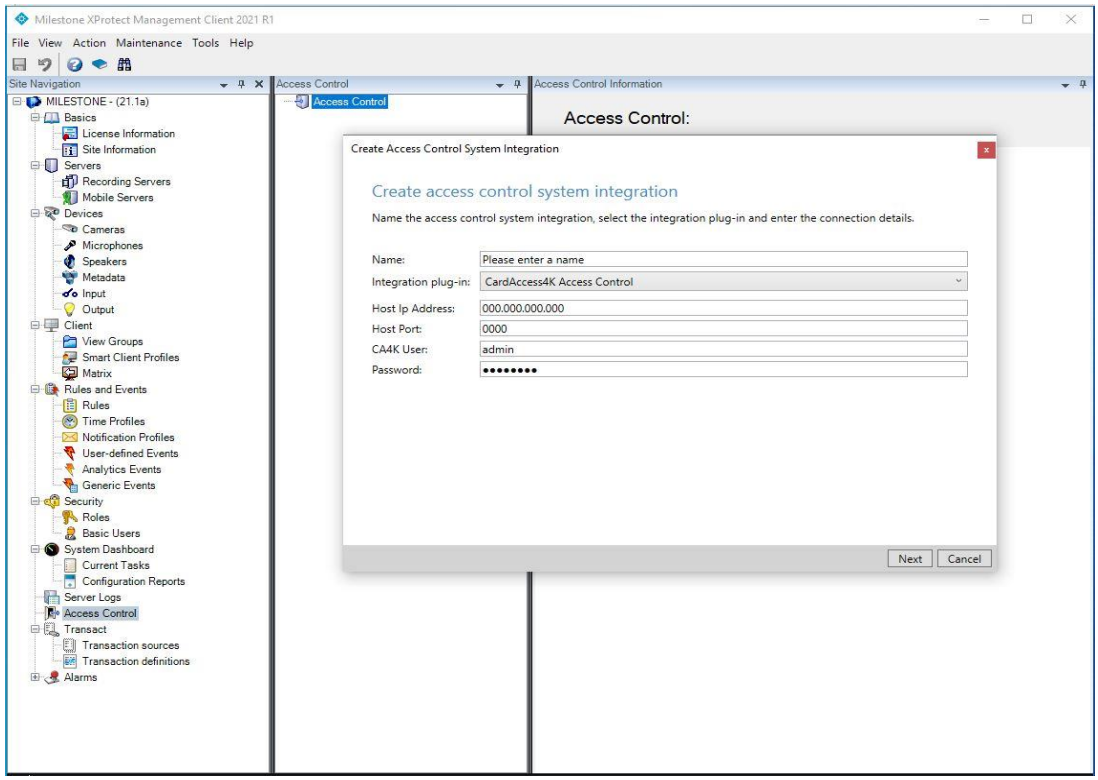

2. Stop the Milestone XProtect Event Server Service. Install the installer for Milestone Plugins from CA4K installer/VideoPlugins folder. After completing the installation start the Milestone XProtect Event Server Service.

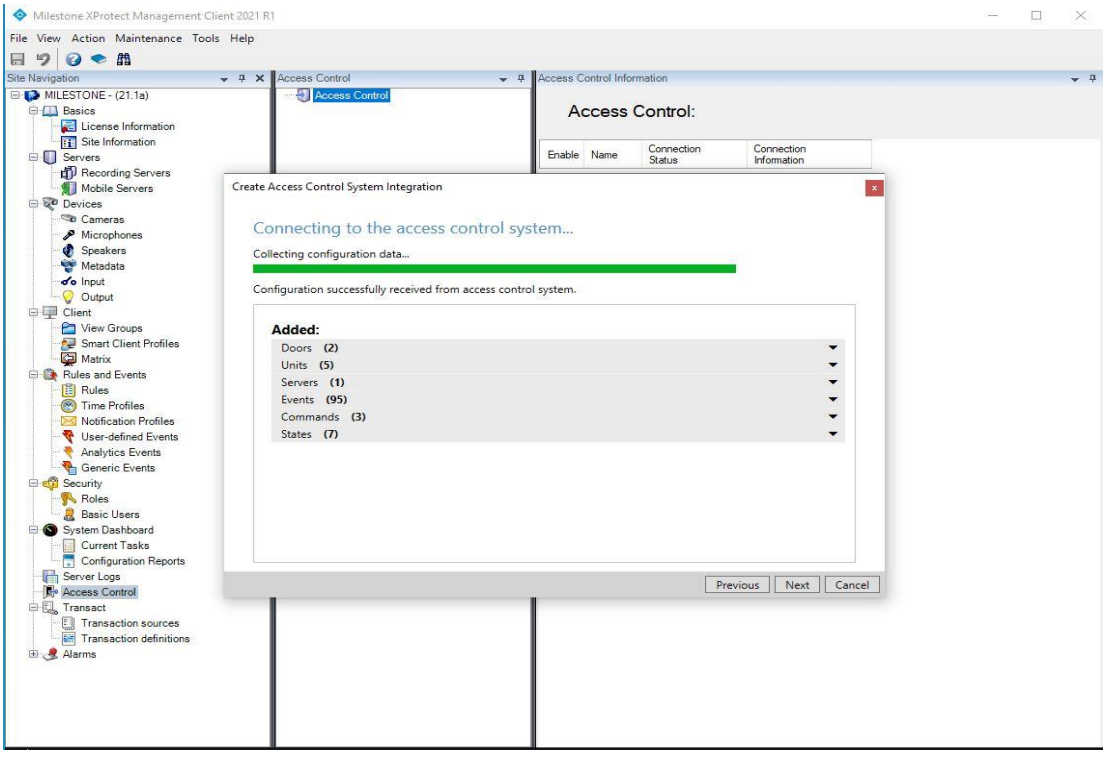


3. Refresh the Management Client (press F5), select Access Control, right click and click create a new

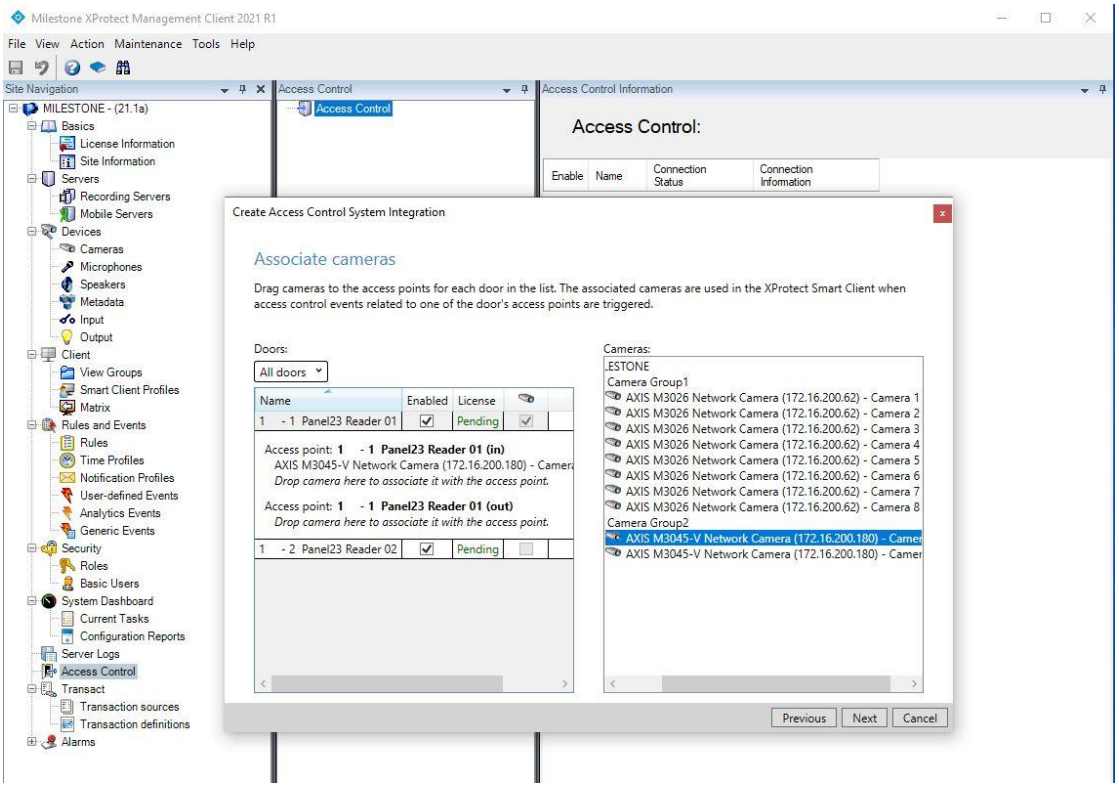


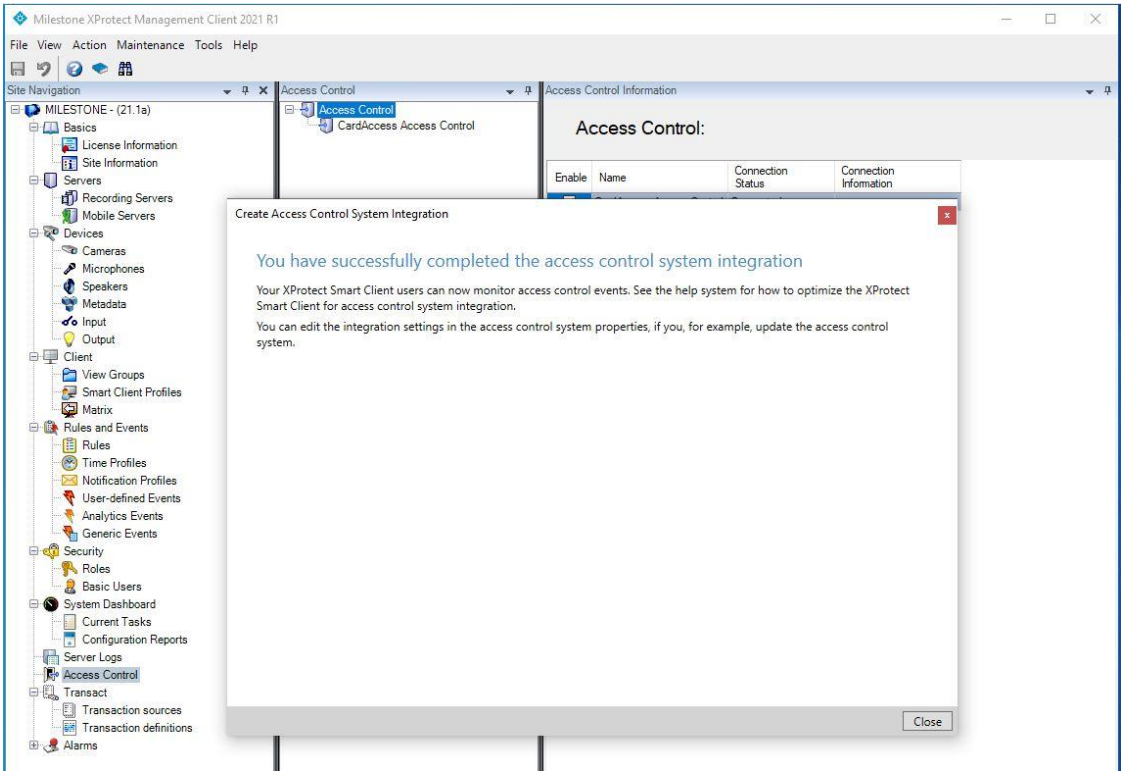

4. Create Access Control System Integration screen enter name and select CardAccess4K Access Control from integration plugin-in list, enter CA4K RESTful API IP address, port and user password. Click next.


Milestone XProtect Management Client 2021 R1
File View Action Maintenance Tools Help
Site Navigation
Access Control
Access Control Information
Access Control:
Create Access Control System Integration
Create access control system integration
Name the access control system integration, select the integration plug-in and enter the connection details.
Name: Please enter a name
Integration plug-in: CardAccess4K Access Control
Host Ip Address: 000.000.000.000
Host Port: 0000
CA4K User: admin
Password: ••••••••
Next
Cancel

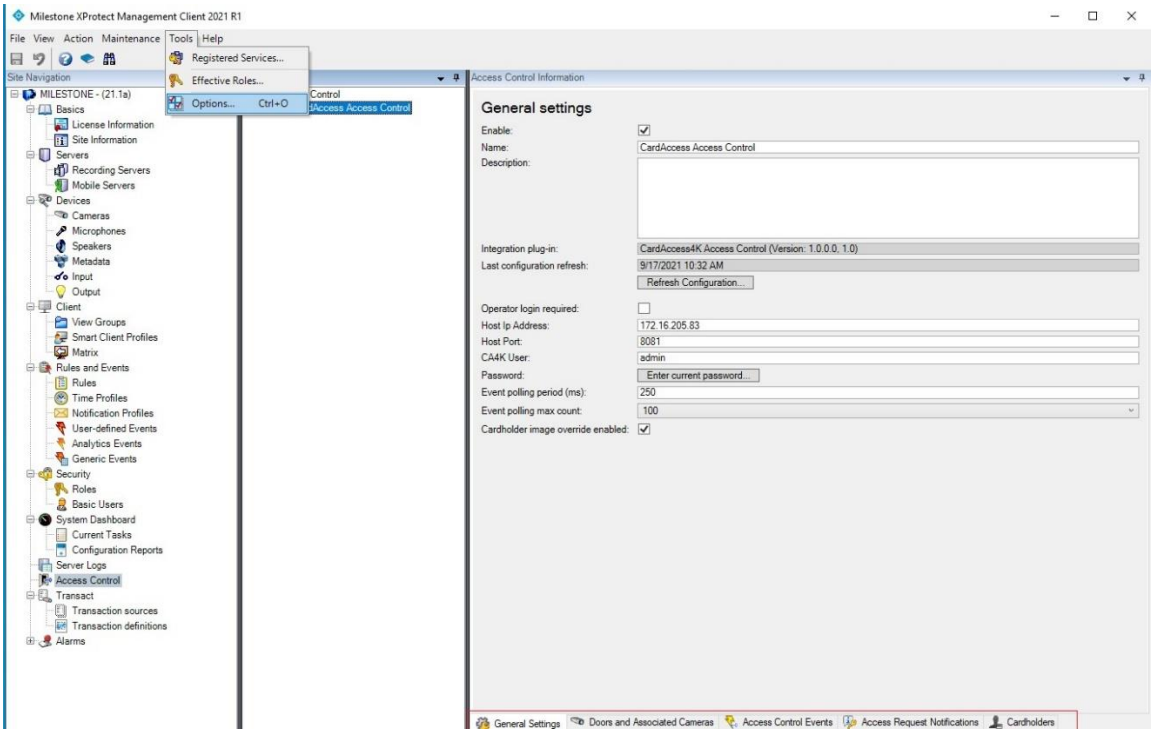

Milestone XProtect Management Client 2021 R1
File View Action Maintenance Tools Help
Site Navigation
Access Control
Access Control Information
Access Control:
Enable
Name
Connection Status
Connection Information
Create Access Control System Integration
Connecting to the access control system...
Collecting configuration data...
Configuration successfully received from access control system.
Added:
Doors (2)
Units (5)
Servers (1)
Events (95)
Commands (3)
States (7)
Previous
Next
Cancel

5. Select pre-configured camera from Milestone Recording Server and drug on the associate door in the door list. Click next and complete the configuration.

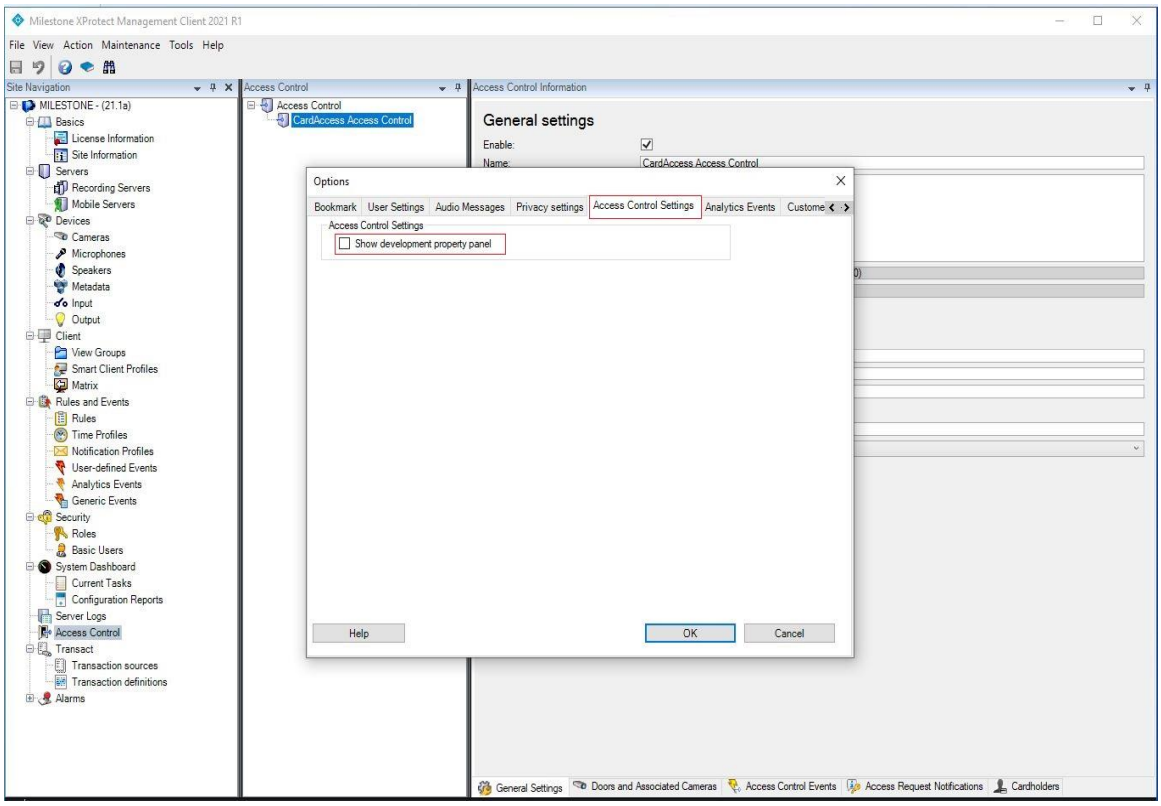


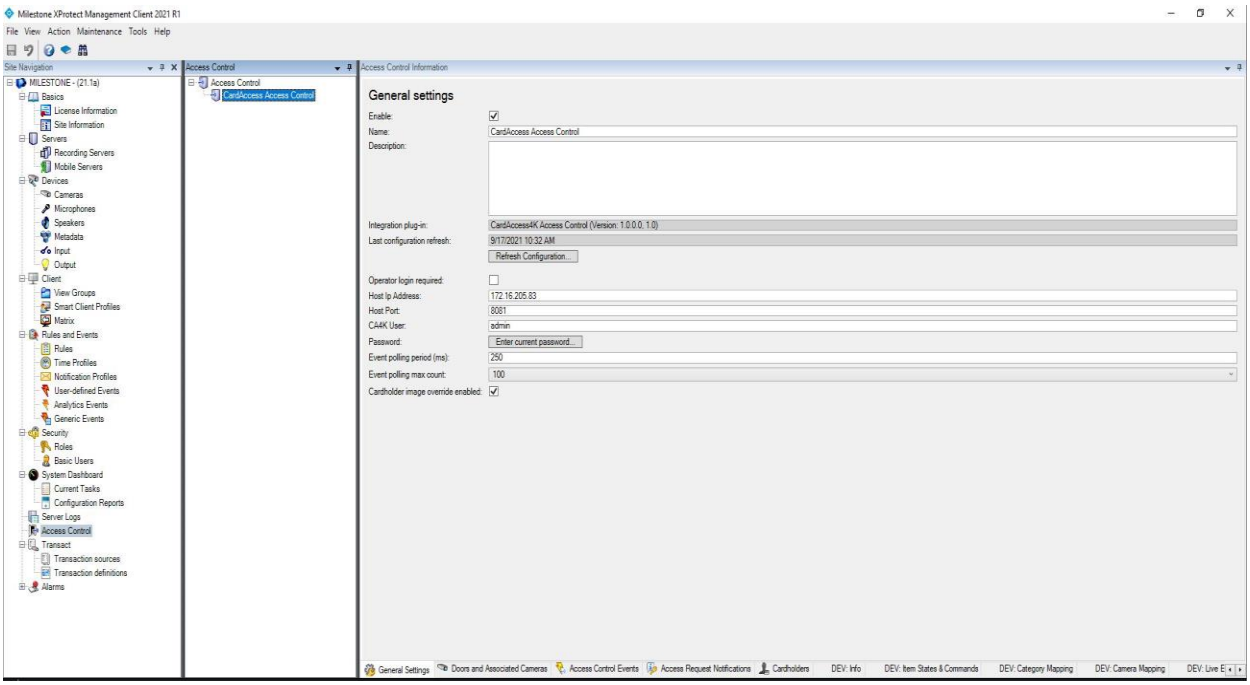



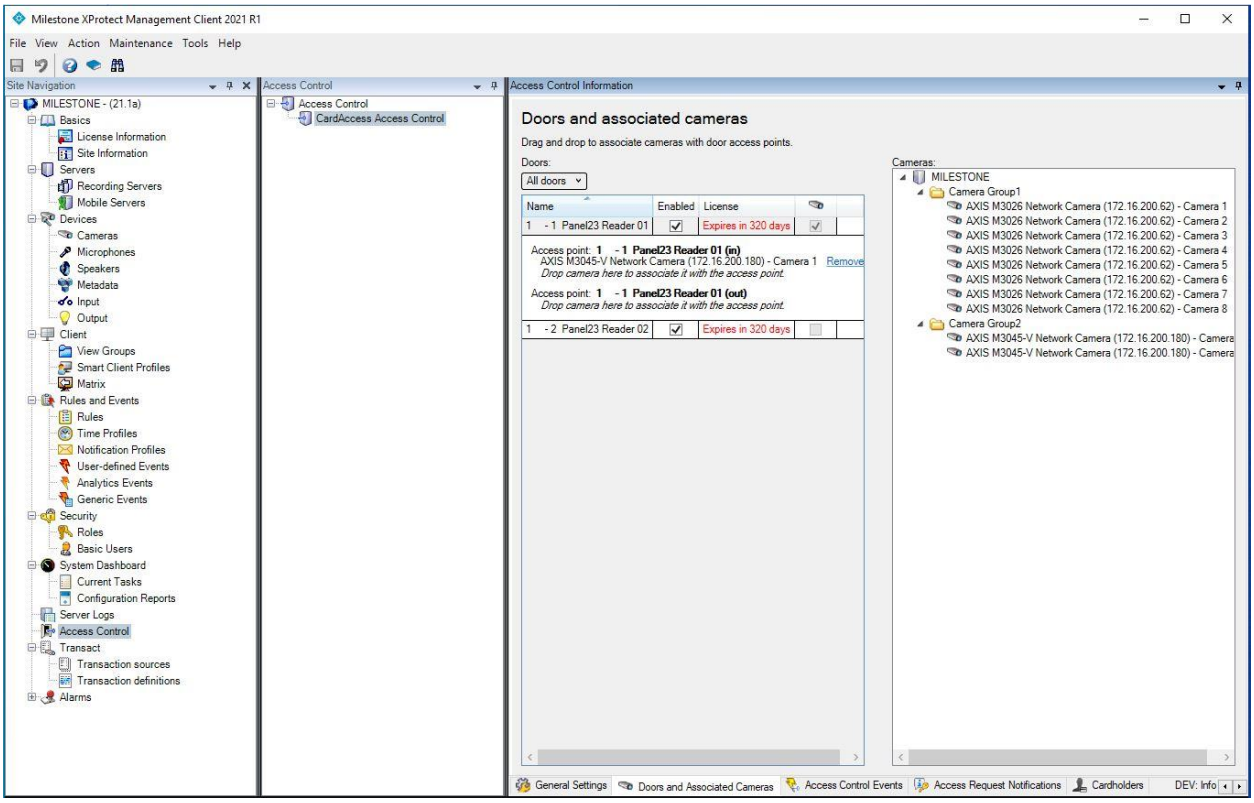
6. Access control will appear with minimum control tabs. For getting details info click Options from Tools menu.

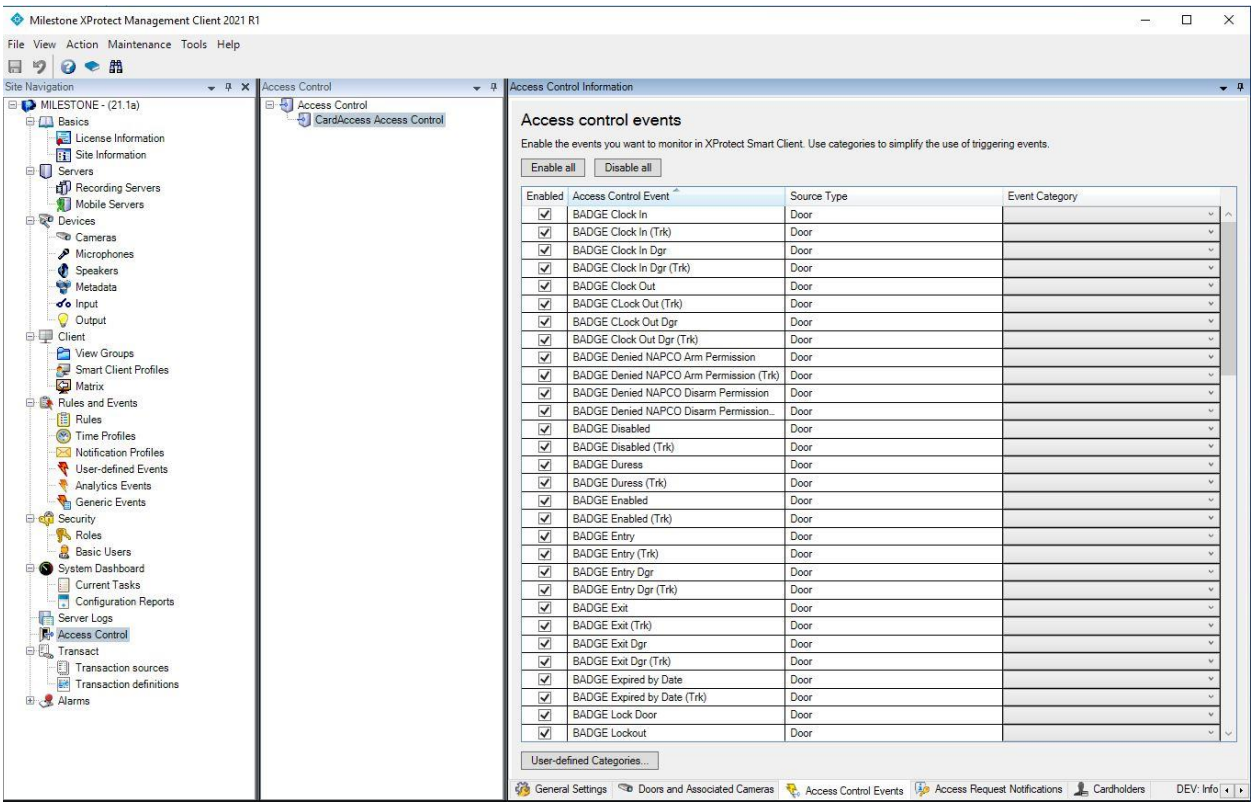


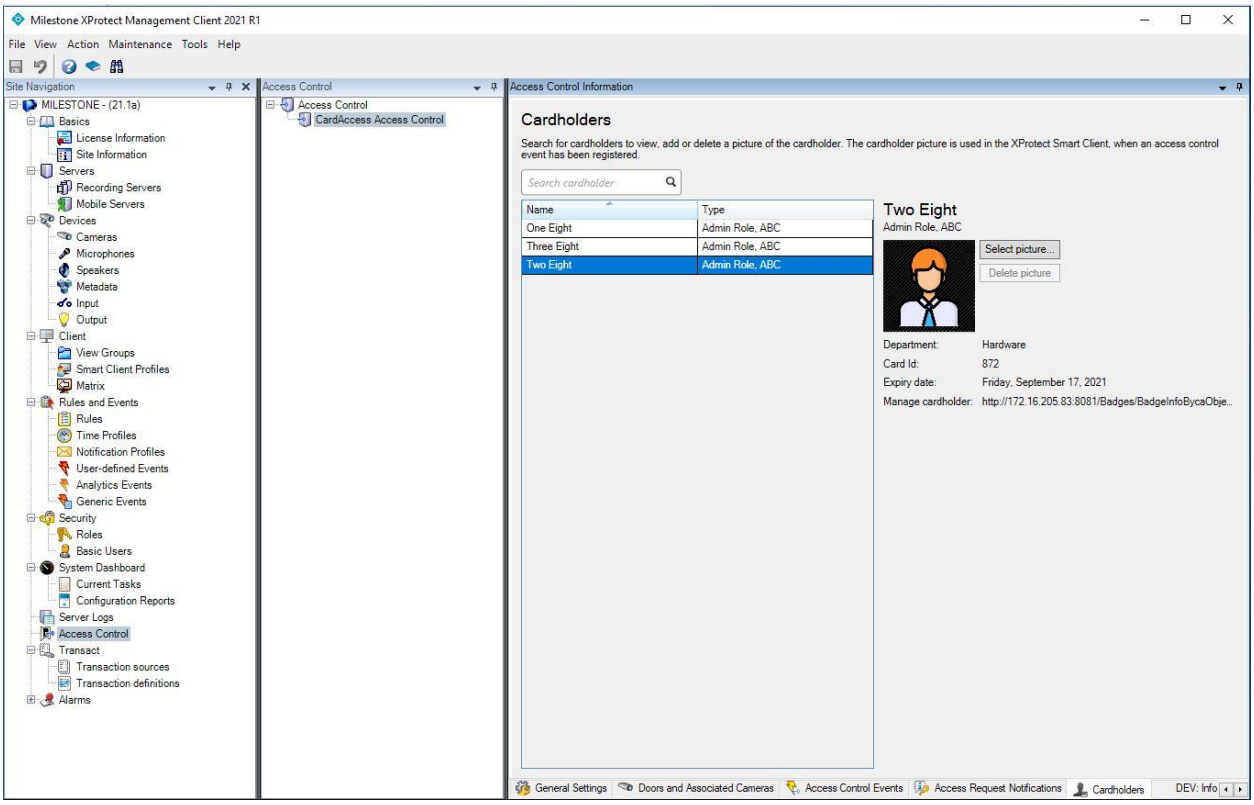

On the option screen select Access control settings tab and checked Show development properly panel and click Ok.

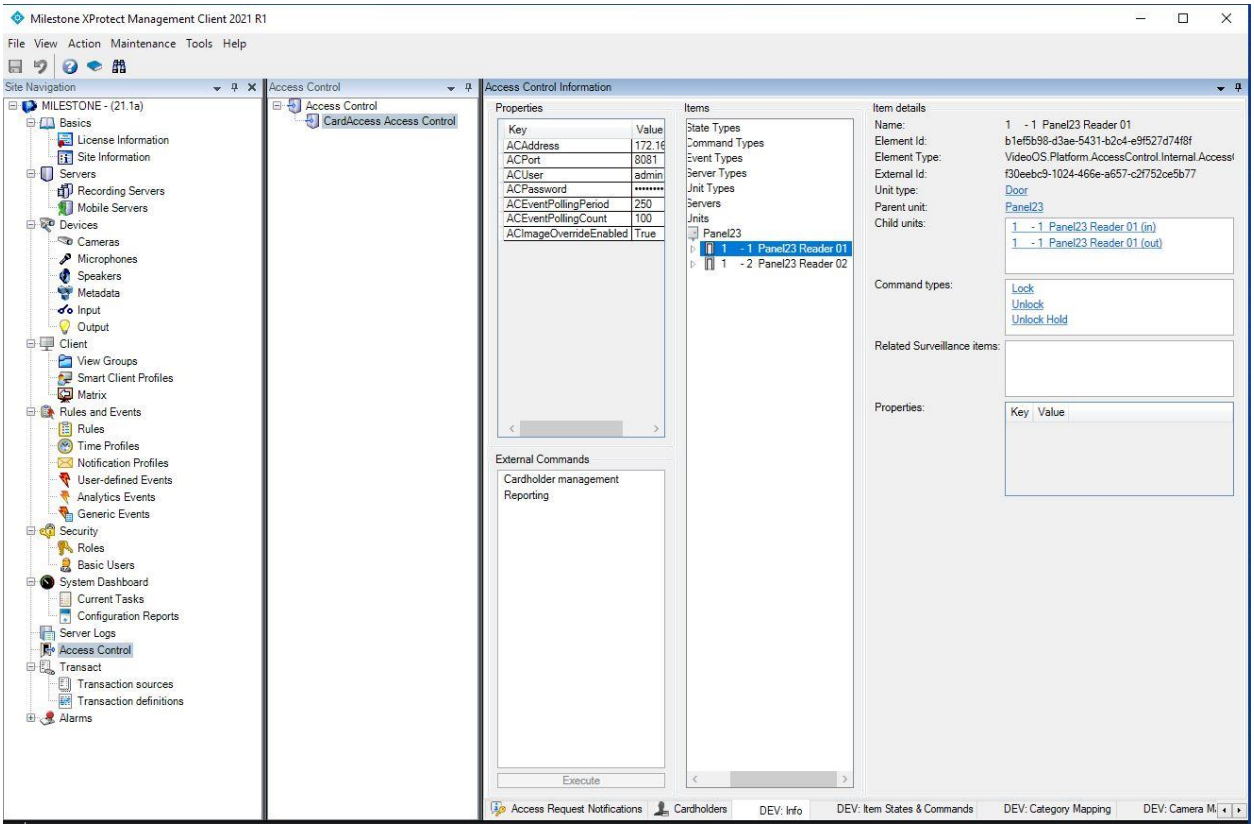


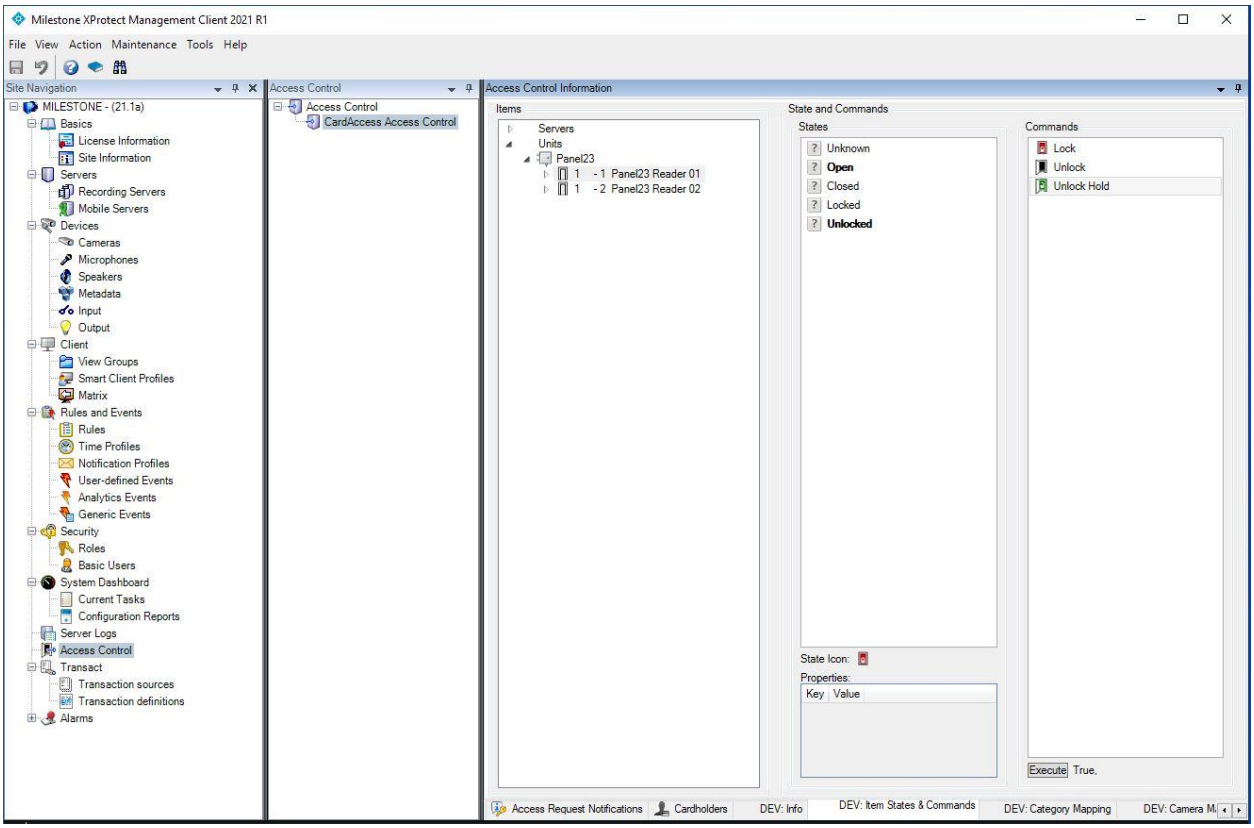

Milestone XProtect Management Client 2021 R1
File View Action Maintenance Tools Help
Site Navigation
Access Control
Access Control Information
General settings
Enable:
Name:
CardAccess Access Control
Description:
Integration plug-in:
CardAccess4K Access Control (Version: 1.0.0.0, 1.0)
Last configuration refresh:
9/17/2021 10:32 AM
Refresh Configuration...
Operator login required:
Host Ip Address:
172.16.205.83
Host Port:
8081
CA4K User:
admin
Password:
Enter current password...
Event polling period (ms):
250
Event polling max count:
100
Cardholder image override enabled:
General Settings
Doors and Associated Cameras
Access Control Events
Access Request Notifications
Cardholders
DEV: Info
DEV: Item States & Commands
DEV: Category Mapping
DEV: Camera Mapping

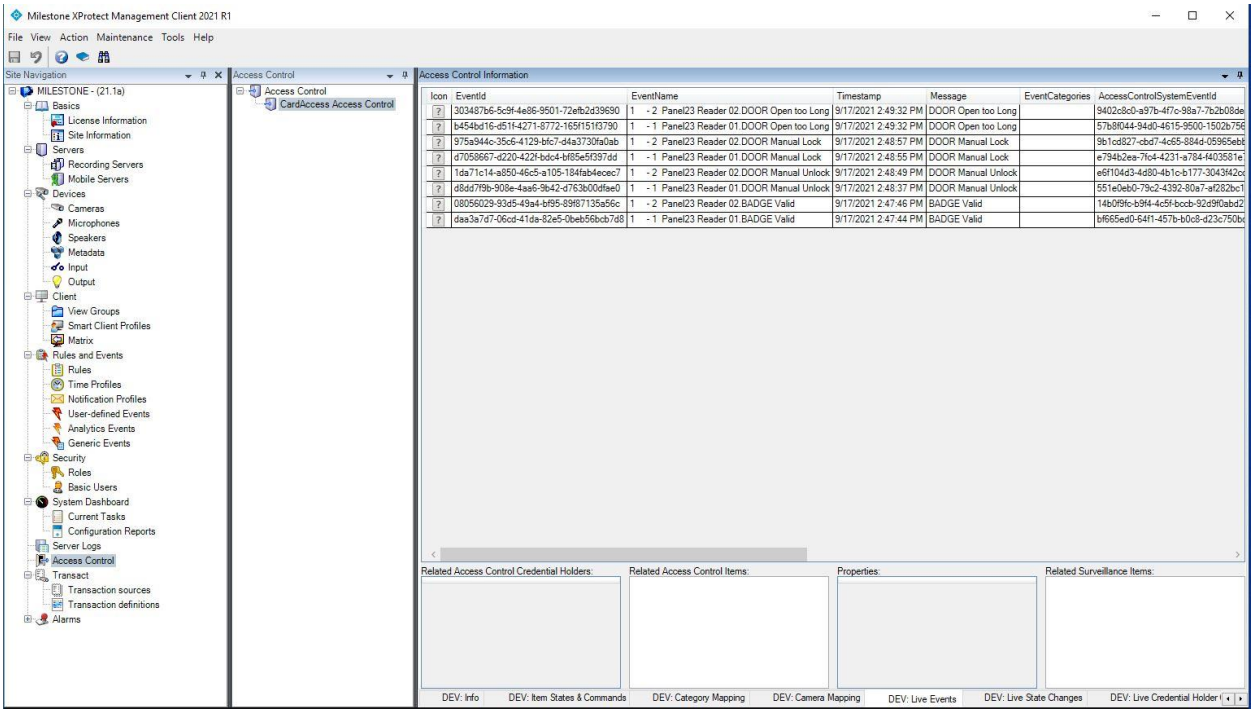

Milestone XProtect Management Client 2021 R1
File View Action Maintenance Tools Help
Site Navigation
Access Control
Access Control Information
Doors and associated cameras
Drag and drop to associate cameras with door access points.
Doors:
All doors
Name
Enabled
License
1 - 1 Panel23 Reader 01
Expires in 320 days
Access point: 1 - 1 Panel23 Reader 01 (in)
AXIS M3045-V Network Camera (172.16.200.180) - Camera 1
Remove
Drop camera here to associate it with the access point.
Access point: 1 - 1 Panel23 Reader 01 (out)
Drop camera here to associate it with the access point.
1 - 2 Panel23 Reader 02
Expires in 320 days
Cameras:
MILESTONE
Camera Group1
AXIS M3026 Network Camera (172.16.200.62) - Camera 1
AXIS M3026 Network Camera (172.16.200.62) - Camera 2
AXIS M3026 Network Camera (172.16.200.62) - Camera 3
AXIS M3026 Network Camera (172.16.200.62) - Camera 4
AXIS M3026 Network Camera (172.16.200.62) - Camera 5
AXIS M3026 Network Camera (172.16.200.62) - Camera 6
AXIS M3026 Network Camera (172.16.200.62) - Camera 7
AXIS M3026 Network Camera (172.16.200.62) - Camera 8
Camera Group2
AXIS M3045-V Network Camera (172.16.200.180) - Camera
AXIS M3045-V Network Camera (172.16.200.180) - Camera
General Settings
Doors and Associated Cameras
Access Control Events
Access Request Notifications
Cardholders
DEV: Info


Milestone XProtect Management Client 2021 R1
File View Action Maintenance Tools Help
Site Navigation
MILESTONE - (21.1a)
Basics
License Information
Site Information
Servers
Recording Servers
Mobile Servers
Devices
Cameras
Microphones
Speakers
Metadata
Input
Output
Client
View Groups
Smart Client Profiles
Matrix
Rules and Events
Rules
Time Profiles
Notification Profiles
User-defined Events
Analytics Events
Generic Events
Security
Roles
Basic Users
System Dashboard
Current Tasks
Configuration Reports
Server Logs
Access Control
Transact
Transaction sources
Transaction definitions
Alarms
Access Control
Access Control
CardAccess Access Control
Access Control Information
Access control events
Enable the events you want to monitor in XProtect Smart Client. Use categories to simplify the use of triggering events.
Enable all
Disable all
Enabled
Access Control Event
Source Type
Event Category
BADGE Clock In
BADGE Clock In (Trk)
BADGE Clock In Dgr
BADGE Clock In Dgr (Trk)
BADGE Clock Out
BADGE CLock Out (Trk)
BADGE CLock Out Dgr
BADGE Clock Out Dgr (Trk)
BADGE Denied NAPCO Arm Permission
BADGE Denied NAPCO Arm Permission (Trk)
BADGE Denied NAPCO Disarm Permission
BADGE Denied NAPCO Disarm Permission...
BADGE Disabled
BADGE Disabled (Trk)
BADGE Duress
BADGE Duress (Trk)
BADGE Enabled
BADGE Enabled (Trk)
BADGE Entry
BADGE Entry (Trk)
BADGE Entry Dgr
BADGE Entry Dgr (Trk)
BADGE Exit
BADGE Exit (Trk)
BADGE Exit Dgr
BADGE Exit Dgr (Trk)
BADGE Expired by Date
BADGE Expired by Date (Trk)
BADGE Lock Door
BADGE Lockout
Door
User-defined Categories...
General Settings
Doors and Associated Cameras
Access Control Events
Access Request Notifications
Cardholders
DEV: Info


Milestone XProtect Management Client 2021 R1
File View Action Maintenance Tools Help
Site Navigation
MILESTONE - (21.1a)
Basics
License Information
Site Information
Servers
Recording Servers
Mobile Servers
Devices
Cameras
Microphones
Speakers
Metadata
Input
Output
Client
View Groups
Smart Client Profiles
Matrix
Rules and Events
Rules
Time Profiles
Notification Profiles
User-defined Events
Analytics Events
Generic Events
Security
Roles
Basic Users
System Dashboard
Current Tasks
Configuration Reports
Server Logs
Access Control
Transact
Transaction sources
Transaction definitions
Alarms
Access Control
Access Control
CardAccess Access Control
Access Control Information
Cardholders
Search for cardholders to view, add or delete a picture of the cardholder. The cardholder picture is used in the XProtect Smart Client, when an access control event has been registered.
Search cardholder
Name
Type
One Eight
Admin Role, ABC
Three Eight
Admin Role, ABC
Two Eight
Admin Role, ABC
Two Eight
Admin Role, ABC
Select picture...
Delete picture
Department:
Hardware
Card Id:
872
Expiry date:
Friday, September 17, 2021
Manage cardholder:
http://172.16.205.83:8081/Badges/BadgeInfoBycaObje...
General Settings
Doors and Associated Cameras
Access Control Events
Access Request Notifications
Cardholders
DEV: Info


Milestone XProtect Management Client 2021 R1
File View Action Maintenance Tools Help
Site Navigation
MILESTONE - (21.1a)
Basics
License Information
Site Information
Servers
Recording Servers
Mobile Servers
Devices
Cameras
Microphones
Speakers
Metadata
Input
Output
Client
View Groups
Smart Client Profiles
Matrix
Rules and Events
Rules
Time Profiles
Notification Profiles
User-defined Events
Analytics Events
Generic Events
Security
Roles
Basic Users
System Dashboard
Current Tasks
Configuration Reports
Server Logs
Access Control
Transact
Transaction sources
Transaction definitions
Alarms
Access Control
Access Control
CardAccess Access Control
Access Control Information
Properties
Key Value
ACAddress 172.16
ACPort 8081
ACUser admin
ACPassword
ACEventPollingPeriod 250
ACEventPollingCount 100
ACImageOverrideEnabled True
External Commands
Cardholder management
Reporting
Execute
Items
State Types
Command Types
Event Types
Server Types
Unit Types
Servers
Units
Panel23
1 - 1 Panel23 Reader 01
1 - 2 Panel23 Reader 02
Item details
Name: 1 - 1 Panel23 Reader 01
Element Id: b1ef5b98-d3ae-5431-b2c4-e9f527d74f8f
Element Type: VideoOS.Platform.AccessControl.Internal.Access
External Id: f30eebc9-1024-466e-a657-c2f752ce5b77
Unit type: Door
Parent unit: Panel23
Child units:
1 - 1 Panel23 Reader 01 (in)
1 - 1 Panel23 Reader 01 (out)
Command types:
Lock
Unlock
Unlock Hold
Related Surveillance items:
Properties:
Key Value
Access Request Notifications
Cardholders
DEV: Info
DEV: Item States & Commands
DEV: Category Mapping
DEV: Camera M

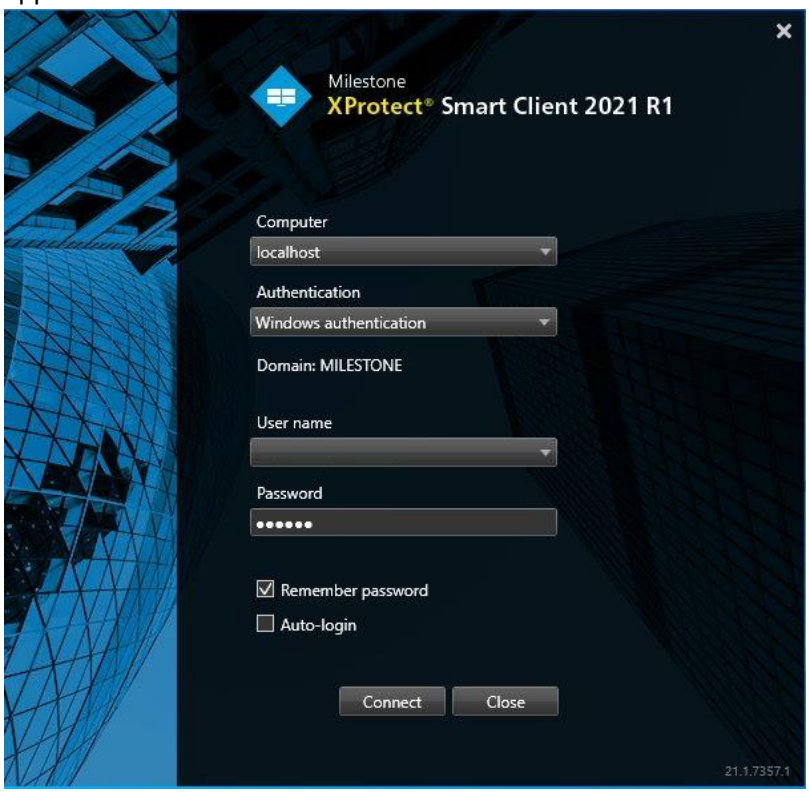

Milestone XProtect Management Client 2021 R1
File View Action Maintenance Tools Help
Site Navigation
MILESTONE - (21.1a)
Basics
License Information
Site Information
Servers
Recording Servers
Mobile Servers
Devices
Cameras
Microphones
Speakers
Metadata
Input
Output
Client
View Groups
Smart Client Profiles
Matrix
Rules and Events
Rules
Time Profiles
Notification Profiles
User-defined Events
Analytics Events
Generic Events
Security
Roles
Basic Users
System Dashboard
Current Tasks
Configuration Reports
Server Logs
Access Control
Transact
Transaction sources
Transaction definitions
Alarms
Access Control
Access Control
CardAccess Access Control
Access Control Information
Items
Servers
Units
Panel23
1 - 1 Panel23 Reader 01
1 - 2 Panel23 Reader 02
State and Commands
States
Unknown
Open
Closed
Locked
Unlocked
State Icon:
Properties:
Key Value
Commands
Lock
Unlock
Unlock Hold
Execute
True,
Access Request Notifications
Cardholders
DEV: Info
DEV: Item States & Commands
DEV: Category Mapping
DEV: Camera M

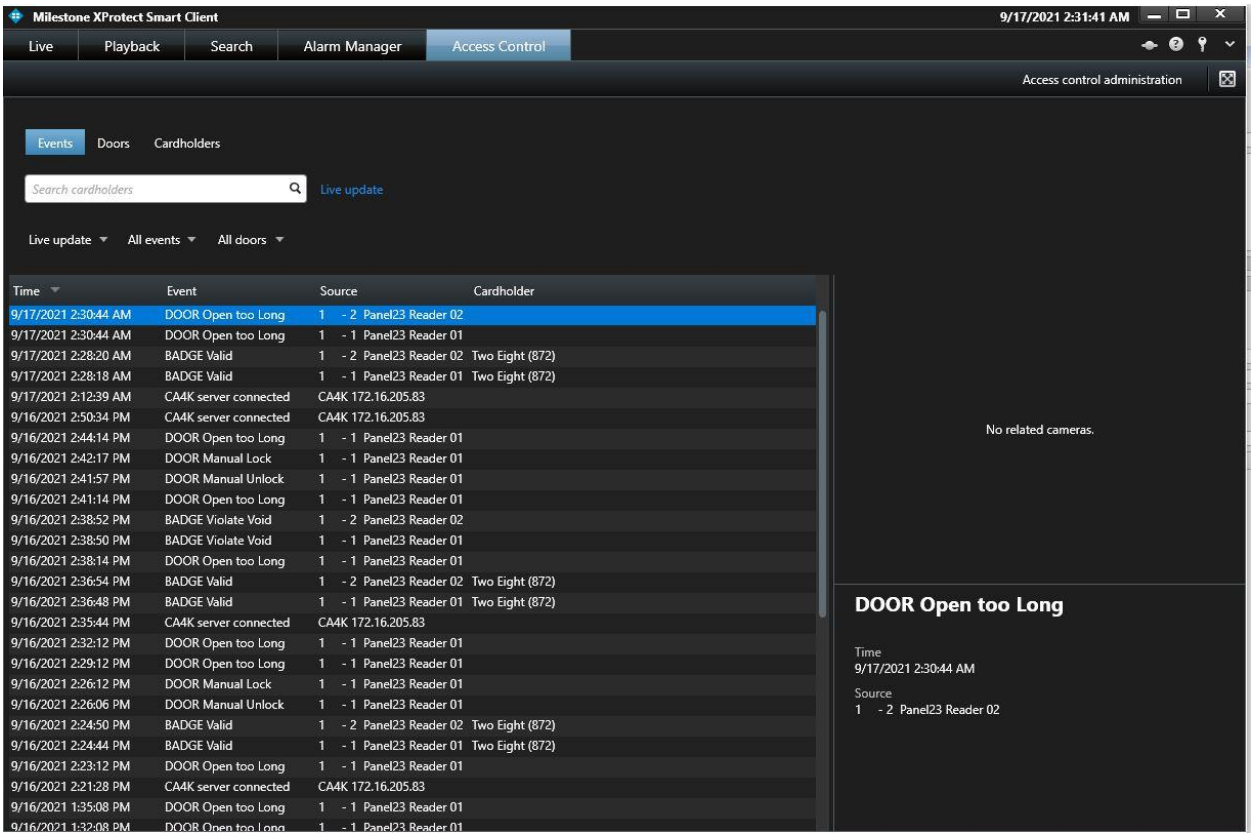


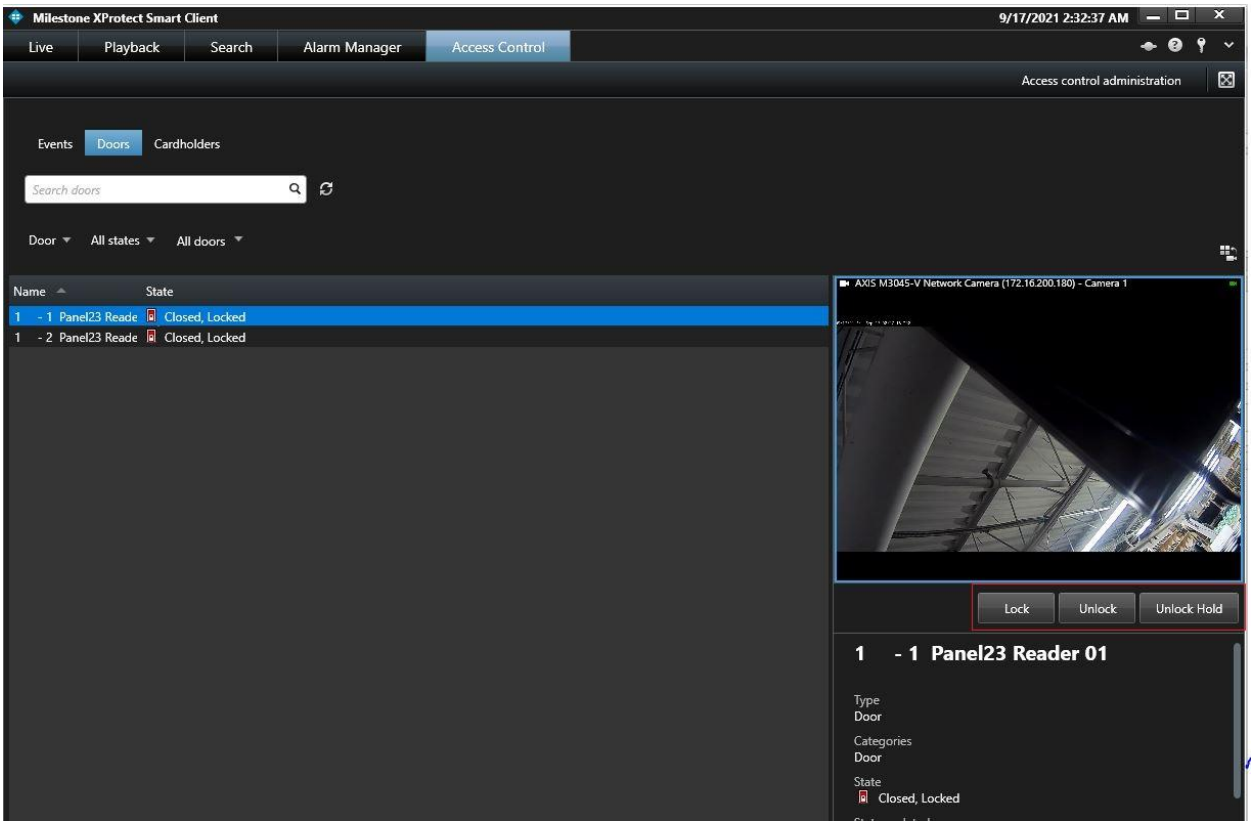

7. Run Milestone XProtect Smart Client. And select Access control Tab. Under the selected tab the sub tab of Events, Doors and Cardholders will show.

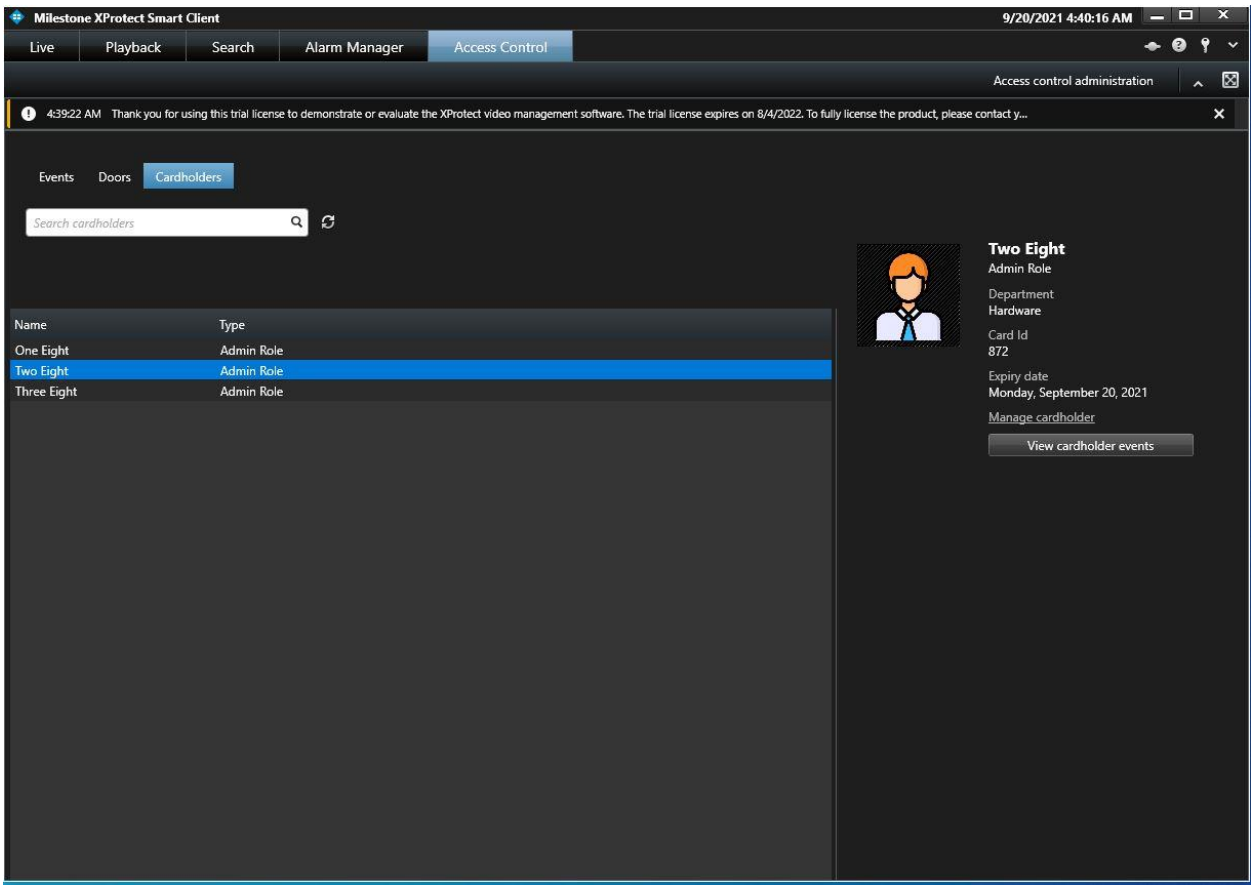
   a). Initially CA4K Badge and Reader related events will show on the event grid.

   b). On the Door sub tab. Select the door, manual control buttons, status and details will appear. User can control the door.




Milestone XProtect Smart Client
9/17/2021 2:31:41 AM
Live
Playback
Search
Alarm Manager
Access Control
Access control administration
Events
Doors
Cardholders
Search cardholders
Live update
Live update
All events
All doors
Time
Event
Source
Cardholder
9/17/2021 2:30:44 AM DOOR Open too Long 1 - 2 Panel23 Reader 02
9/17/2021 2:30:44 AM DOOR Open too Long 1 - 1 Panel23 Reader 01
9/17/2021 2:28:20 AM BADGE Valid 1 - 2 Panel23 Reader 02 Two Eight (872)
9/17/2021 2:28:18 AM BADGE Valid 1 - 1 Panel23 Reader 01 Two Eight (872)
9/17/2021 2:12:39 AM CA4K server connected CA4K 172.16.205.83
9/16/2021 2:50:34 PM CA4K server connected CA4K 172.16.205.83
9/16/2021 2:44:14 PM DOOR Open too Long 1 - 1 Panel23 Reader 01
9/16/2021 2:42:17 PM DOOR Manual Lock 1 - 1 Panel23 Reader 01
9/16/2021 2:41:57 PM DOOR Manual Unlock 1 - 1 Panel23 Reader 01
9/16/2021 2:41:14 PM DOOR Open too Long 1 - 1 Panel23 Reader 01
9/16/2021 2:38:52 PM BADGE Violate Void 1 - 2 Panel23 Reader 02
9/16/2021 2:38:50 PM BADGE Violate Void 1 - 1 Panel23 Reader 01
9/16/2021 2:38:14 PM DOOR Open too Long 1 - 1 Panel23 Reader 01
9/16/2021 2:36:54 PM BADGE Valid 1 - 2 Panel23 Reader 02 Two Eight (872)
9/16/2021 2:36:48 PM BADGE Valid 1 - 1 Panel23 Reader 01 Two Eight (872)
9/16/2021 2:35:44 PM CA4K server connected CA4K 172.16.205.83
9/16/2021 2:32:12 PM DOOR Open too Long 1 - 1 Panel23 Reader 01
9/16/2021 2:29:12 PM DOOR Open too Long 1 - 1 Panel23 Reader 01
9/16/2021 2:26:12 PM DOOR Manual Lock 1 - 1 Panel23 Reader 01
9/16/2021 2:26:06 PM DOOR Manual Unlock 1 - 1 Panel23 Reader 01
9/16/2021 2:24:50 PM BADGE Valid 1 - 2 Panel23 Reader 02 Two Eight (872)
9/16/2021 2:24:44 PM BADGE Valid 1 - 1 Panel23 Reader 01 Two Eight (872)
9/16/2021 2:23:12 PM DOOR Open too Long 1 - 1 Panel23 Reader 01
9/16/2021 2:21:28 PM CA4K server connected CA4K 172.16.205.83
9/16/2021 1:35:08 PM DOOR Open too Long 1 - 1 Panel23 Reader 01
No related cameras.
DOOR Open too Long
Time
9/17/2021 2:30:44 AM
Source
1 - 2 Panel23 Reader 02


Milestone XProtect Smart Client
9/17/2021 2:32:37 AM
Live
Playback
Search
Alarm Manager
Access Control
Access control administration
Events
Doors
Cardholders
Search doors
Door
All states
All doors
Name
State
1 - 1 Panel23 Reade Closed, Locked
1 - 2 Panel23 Reade Closed, Locked
AXIS M3045-V Network Camera (172.16.200.180) - Camera 1
Lock
Unlock
Unlock Hold
1 - 1 Panel23 Reader 01
Type
Door
Categories
Door
State
Closed, Locked


Milestone XProtect Smart Client
9/20/2021 4:40:16 AM
Live
Playback
Search
Alarm Manager
Access Control
Access control administration
4:39:22 AM Thank you for using this trial license to demonstrate or evaluate the XProtect video management software. The trial license expires on 8/4/2022. To fully license the product, please contact y...
Events
Doors
Cardholders
Search cardholders
Name
Type
One Eight
Admin Role
Two Eight
Admin Role
Three Eight
Admin Role
Two Eight
Admin Role
Department
Hardware
Card Id
872
Expiry date
Monday, September 20, 2021
Manage cardholder
View cardholder events