



IDCUBE

Access360 – Milestone XProtect Plugin
August 2021 Plugin Version Number: 1.0

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Overview

Using Access360 – Milestone XProtect Plugin, a user can connect with an Access360 server for a site to monitor controllers, doors, inputs, view card holder information, events related to them and issue command to lock/unlock a door from Milestone Client Application. Furthermore, the plugin has a link that embeds Access360 user and device administration tools called HRView and Security View.

The plugin acts as a bridge between the two systems and supports two way communication. From Access360, it pulls all events, card holders in real-time and push them to the Milestone Server. From Milestone XProtect client, user can control doors. The plug-in supports following configuration.

1. Connect to a specific site.
2. Login as access360 user with admin privilege.
3. Map a door with camera.
4. Specify data refresh interval.

Advantages

1. From the Milestone XProtect console, user can do monitoring of wide range of controllers and readers from Mercury/HID Aero/HID Vertx and biometric devices like IDEMIA (Morpho), Suprema, Virdi.
2. Various card holder events such as Grant/Deny Access, Anti pass back violation etc. along with the video footage of the event from a camera mapped to the door are visible in the Milestone client console. This includes the events related to staff, visitor and vehicle tags who are present in the site.
3. Alerts from different type of input like fire alarm, AC/Battery failure, intrusion detector etc. are also available in the same console.
4. The Acces360 – HRView menu under Access Control Administration link, user can leverage all Access360 functions like access control of staff/visitors and vehicle, access policies, reports and dashboard.
5. The Acces360 – Dashboard menu under Access Control Administration link, user can view dashboard that shows Access360 Widgets, like Alarm Summary, Head Count and many more.

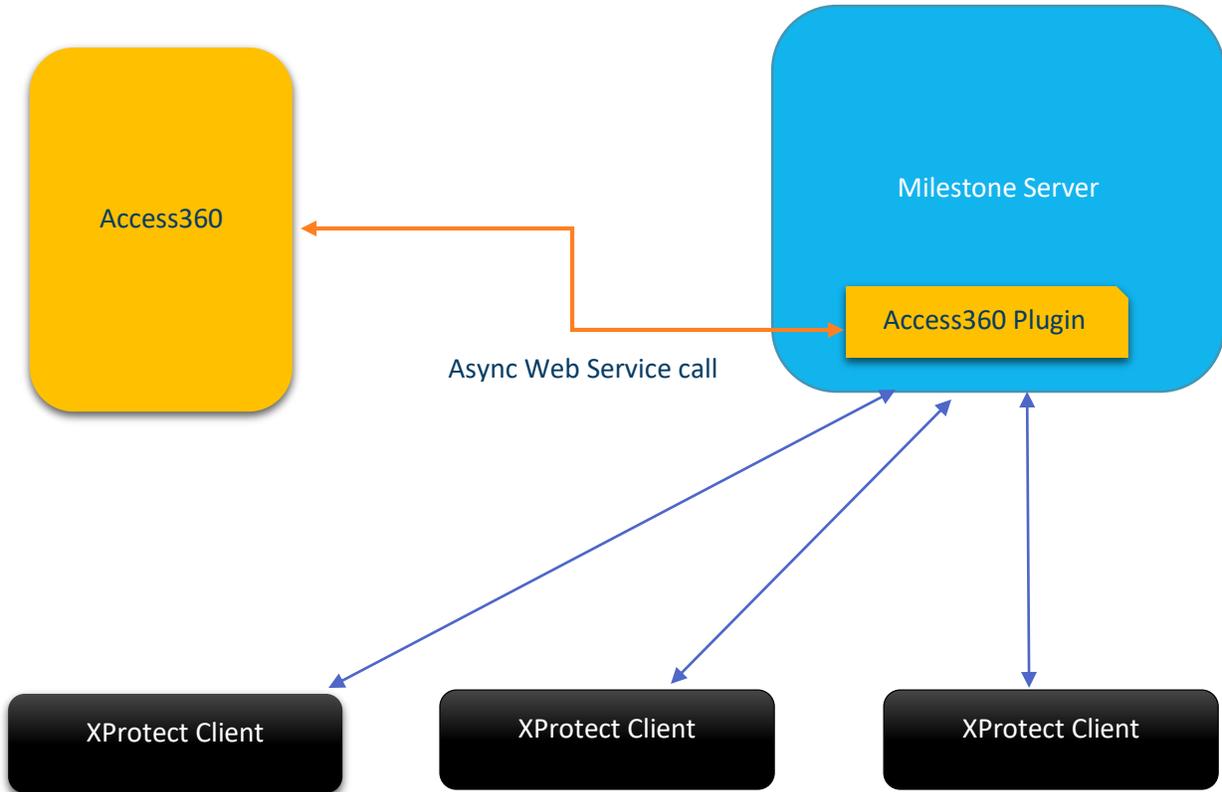
Milestone and Access360 Version

The Access360 MIP Plugin is developed with the following version of Milestone.



Integration Plugin Version	Access360 Version	XProtect Version
1.0.0.0	v3.3	21.1b

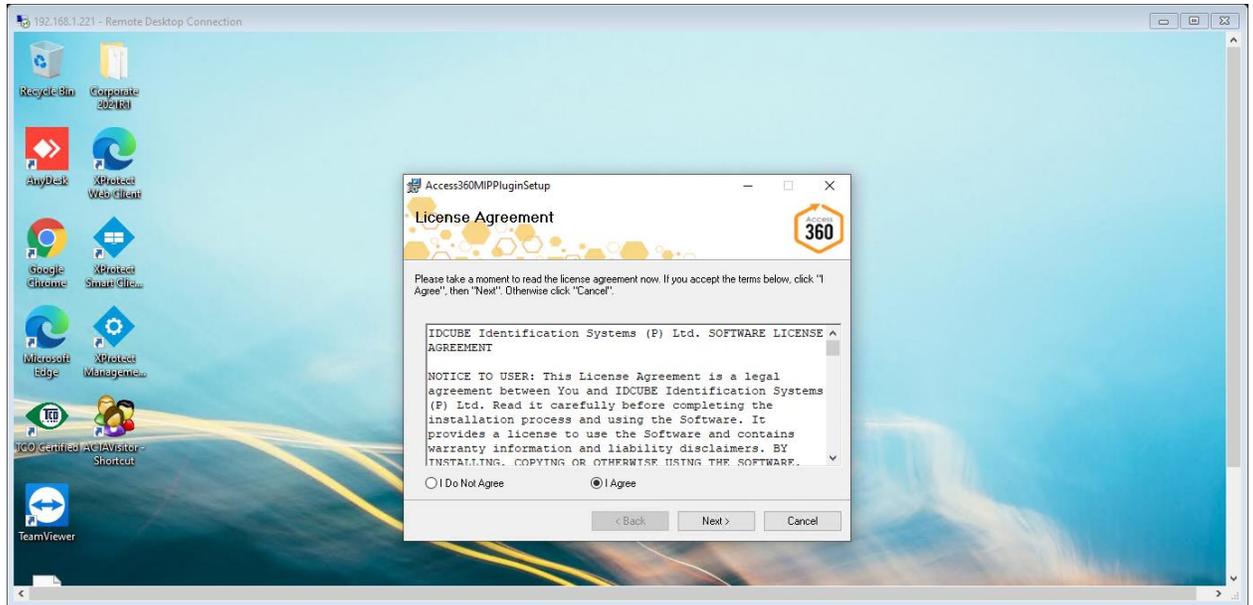
Architecture



Deployment

1. Deployment using Setup

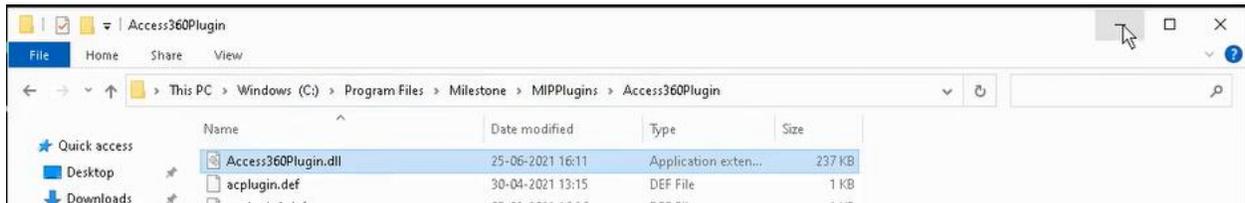
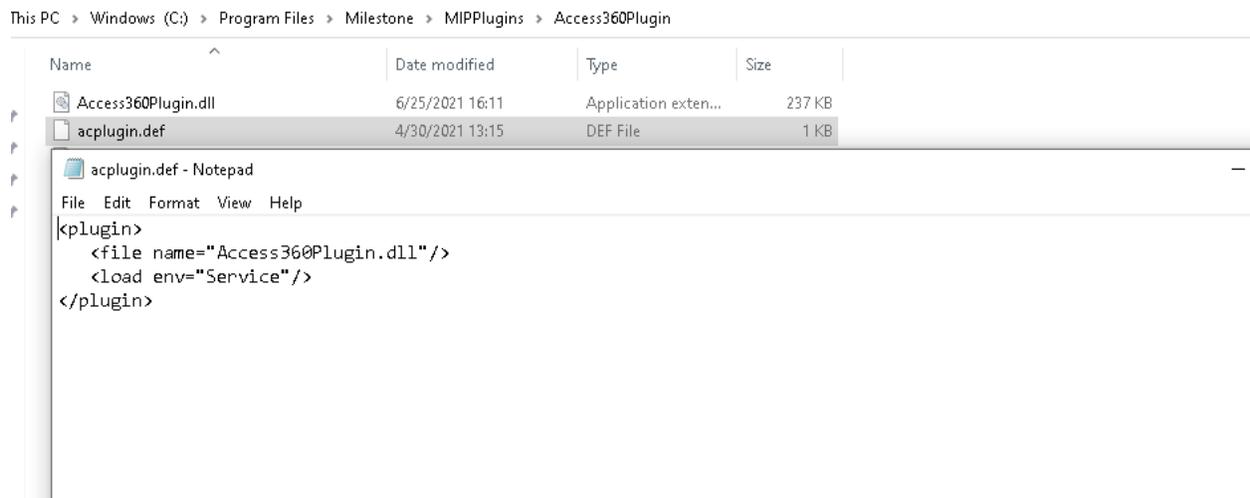
Name	Date modified	Type	Size
 Access360MIPPluginSetup.exe	8/27/2021 7:03 PM	Application	540 KB
 Access360MIPPluginSetup.msi	8/27/2021 7:03 PM	Windows Installer ...	1,598 KB



2. XCopy Deployment:

The Access360 – Milestone XProtect Plugin, can be deployed in the Milestone XProtect Server by simply copying files. Following are the steps:

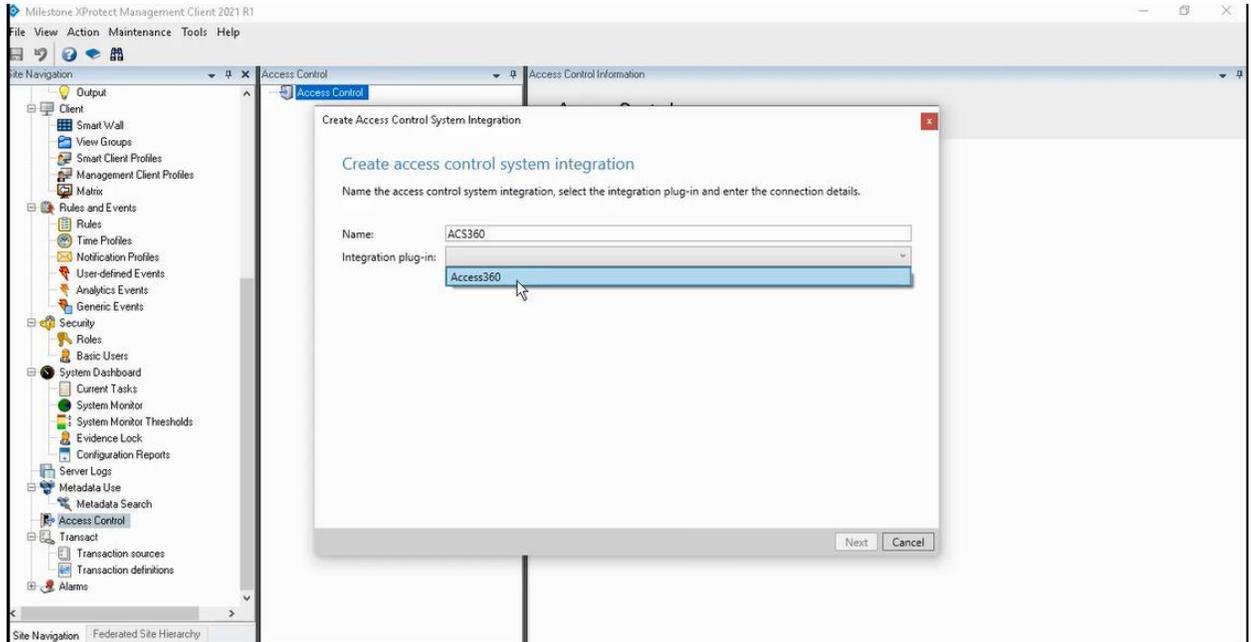
1. Open the Milestone Installed directory, for example, C:\Program Files\Milestone.
2. Inside the directory MIPPlugins, paste the folder Access360Plugin



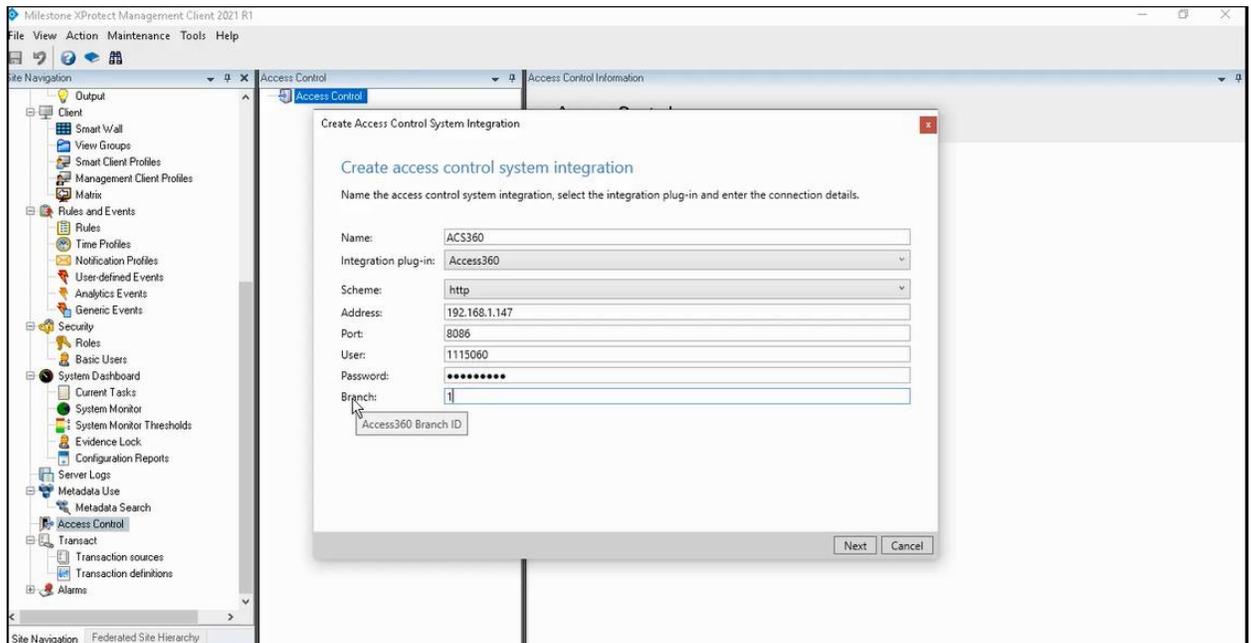
Configuration

To configure Access360 – Milestone XProtect Plugin, open Milestone XProtect Management client and login to the Milestone server. Following are the steps:

1. In site navigation panel, click on Access Control node, it will open Access Control panel and will show all plugin added under it.
2. Right click on the Access Control Node of the tree and from context menu, click on Create New, Create Access Control System Integration Wizard opens.

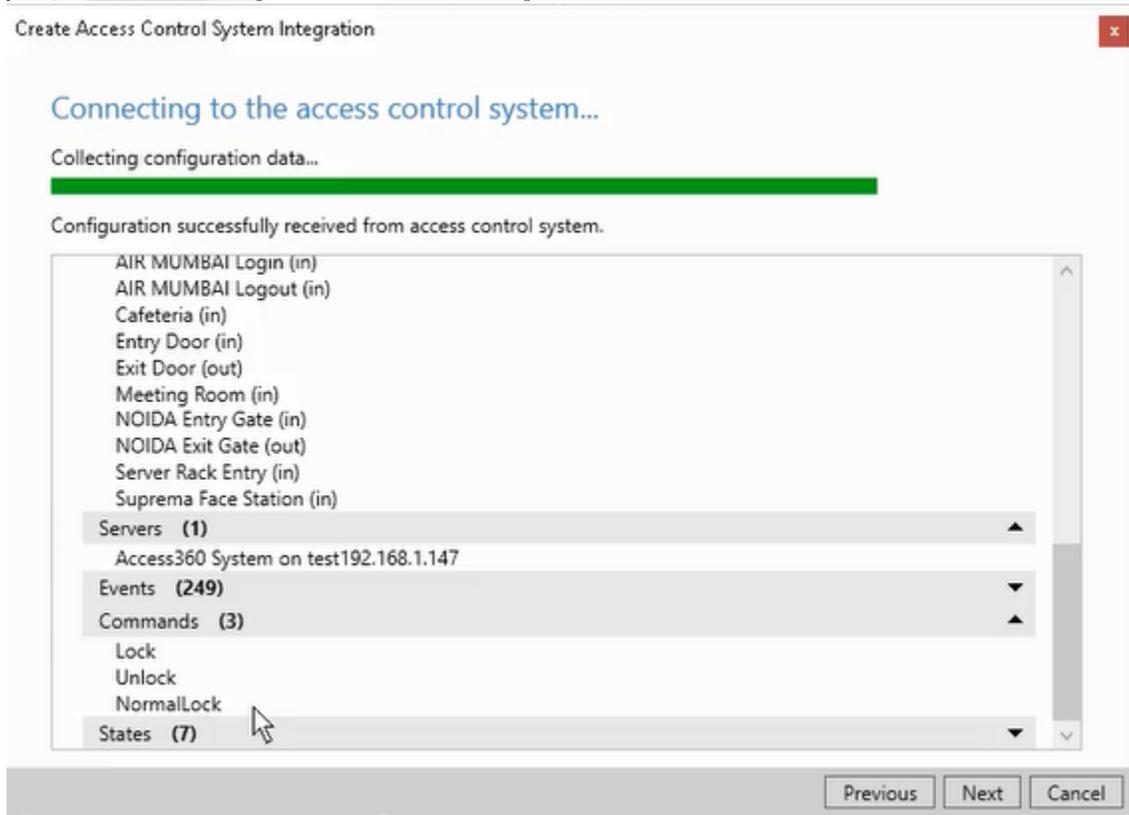
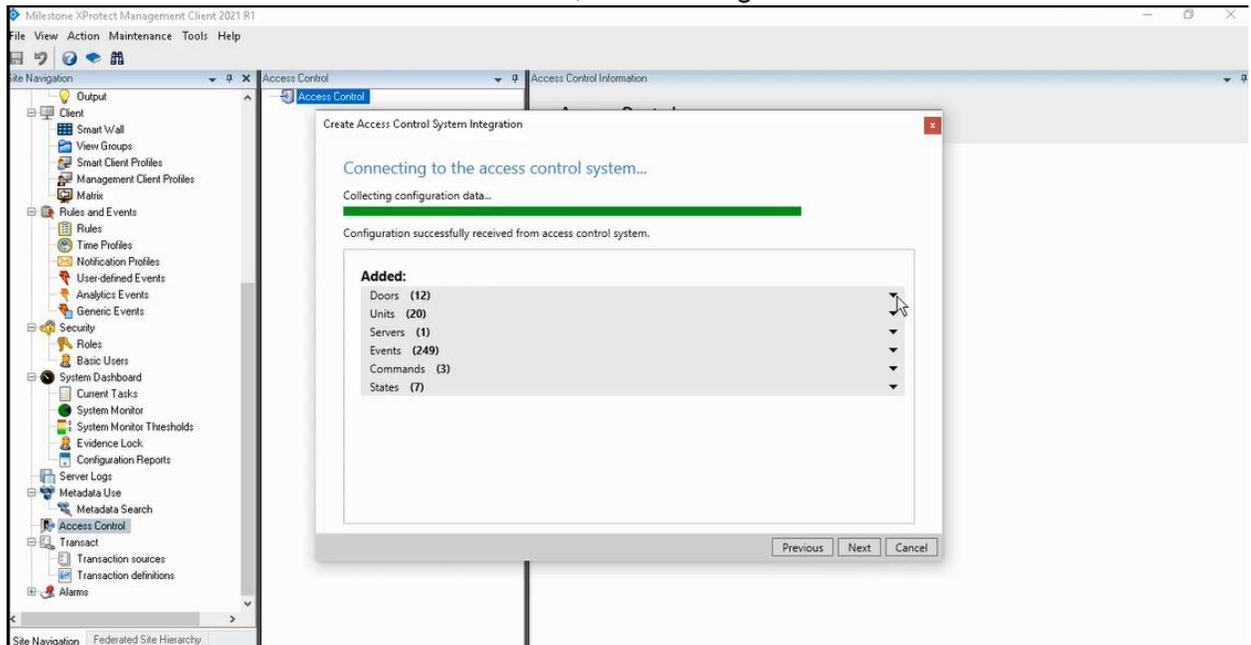


3. Enter a Name, as a convention, it should be preferably the site name prefix with ACS 360. For example, ACS360-MUMBAI Office
4. Select the integration plug-in as “Access360” from Dropdown and enter the following fields



- a. Address: IP Address/Server DNS name of the Access360 Server
- b. Port number : where the Access360 services are listening (default value – 80 for Http and 443 for Https)
- c. User/Password: Login ID and Password of the user in Access360. Based on the access rights of the user in Access360, data shall be retrieved.
- d. Branch: Unique branch ID from Access360, specific to the Site/Location.

- Fetch master data for the site. Click on Next, the following data is loaded.



- Associate Cameras: Once the doors are loaded, they can be associated with available cameras as shown below.



Create Access Control System Integration

Associate cameras

Drag cameras to the access points for each door in the list. The associated cameras are used in the XProtect Smart Client when access control events related to one of the door's access points are triggered.

Doors: All doors

- All doors
 - 101
 - 103
 - IDCUBE NOIDA AIR Main Entry
 - MERCURY
 - Office Attendance Controller
 - Server Rack
 - FS F2

Cameras:

- DESKTOP-PFEVEHA
 - Camera Group 1
 - Hikvision1

Previous Next Cancel

Create Access Control System Integration

Associate cameras

Drag cameras to the access points for each door in the list. The associated cameras are used in the XProtect Smart Client when access control events related to one of the door's access points are triggered.

Doors: Office Attendance Controller

Name	Enabled	License	
Entry Door	<input checked="" type="checkbox"/>	Pending	<input checked="" type="checkbox"/>

Access point: **Entry Door (in)**
 Hikvision1 [Remove](#)
Drop camera here to associate it with the access point

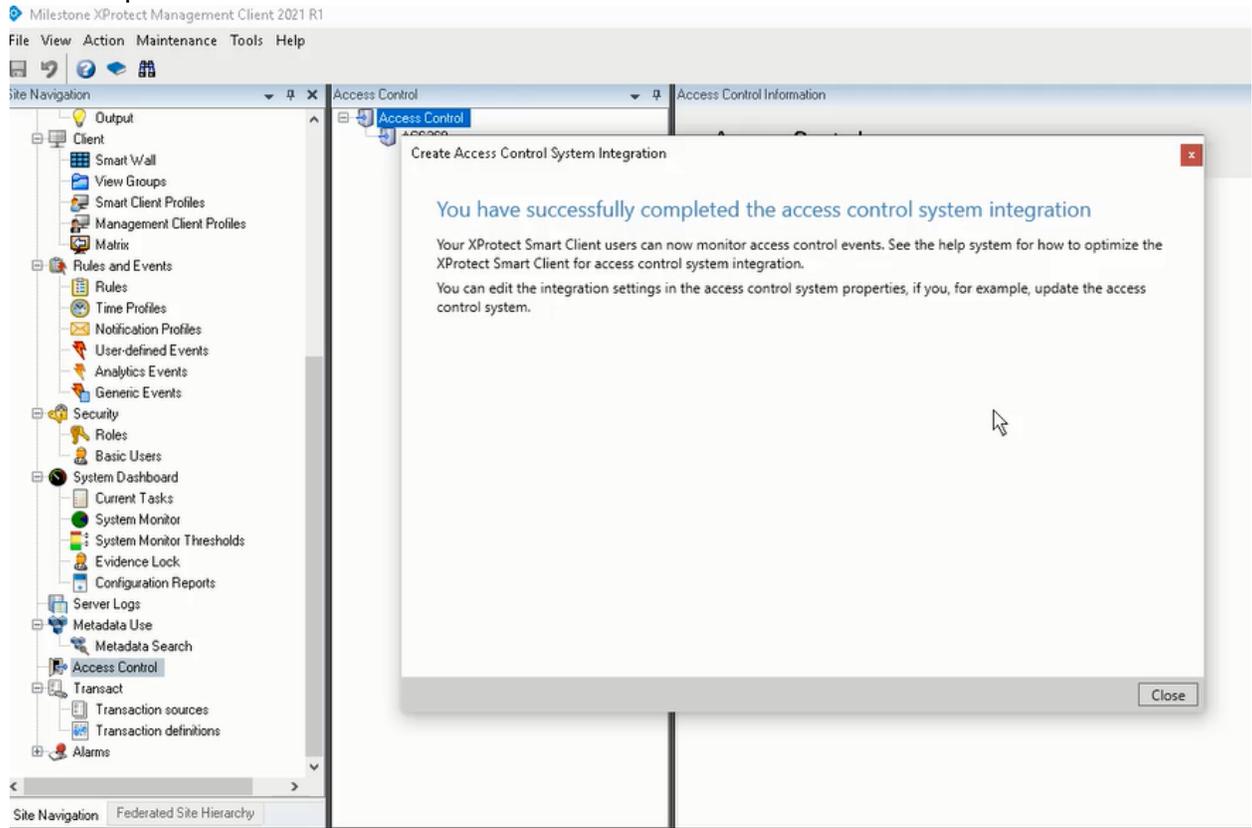
Exit Door	<input checked="" type="checkbox"/>	Pending	<input type="checkbox"/>
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Cameras:

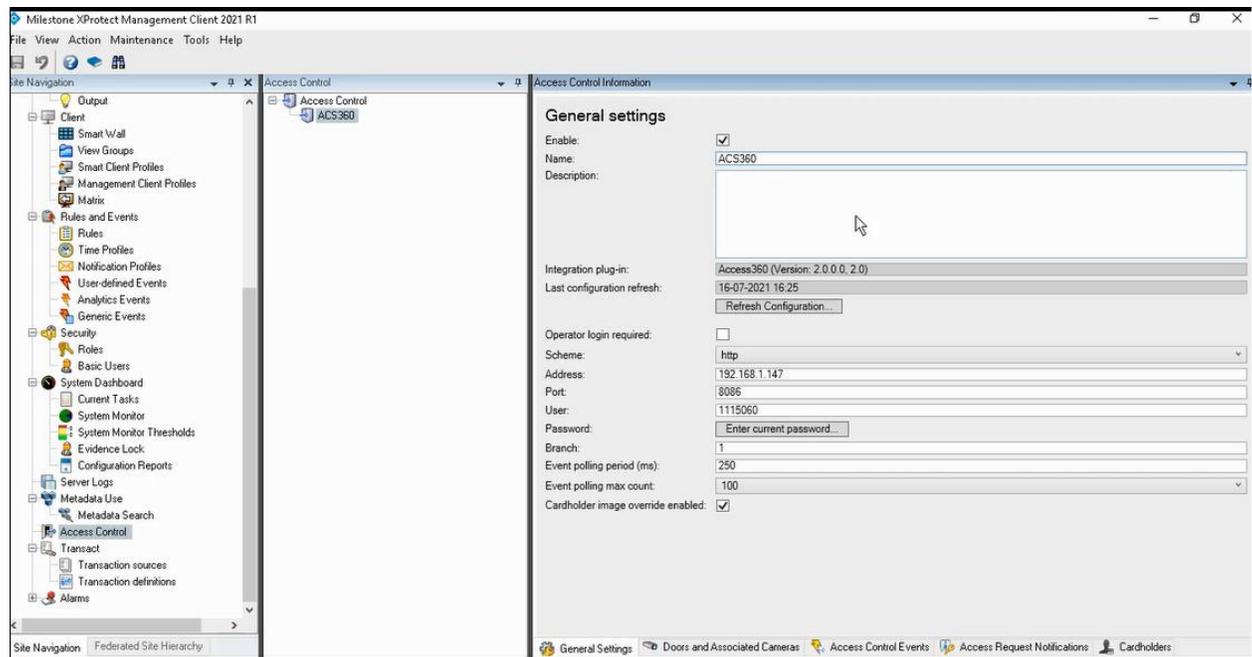
- DESKTOP-PFEVEHA
 - Camera Group 1
 - Hikvision1**

Previous Next Cancel

7. Final Step



8. View Configuration: The configuration can be viewed by clicking on the Access Control instance. Any changes like port number user name password etc. can be updated from here.



Milestone XProtect Management Client 2021 R1

File View Action Maintenance Tools Help

Site Navigation

- Output
- Client
 - Smart Wall
 - View Groups
 - Smart Client Profiles
 - Management Client Profiles
 - Main
- Rules and Events
 - Rules
 - Time Profiles
 - Notification Profiles
 - User-defined Events
 - Analytics Events
 - Generic Events
- Security
 - Roles
 - Basic Users
- System Dashboard
 - Current Tasks
 - System Monitor
 - System Monitor Thresholds
 - Evidence Lock
 - Configuration Reports
- Server Logs
- Metadata Use
 - Metadata Search
- Access Control
 - Transaction sources
 - Transaction definitions
- Alarms

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
<input checked="" type="checkbox"/>	Deny Access - Camera Capture	Access Point	Access denied, Access request
<input checked="" type="checkbox"/>	Deny access - Card/Pin deleted	Access Point	Access denied, Access request
<input checked="" type="checkbox"/>	Deny access - Card/Pin deleted	Access Point	Access denied, Access request
<input checked="" type="checkbox"/>	Deny access - Credential not found	Access Point	Access denied, Access request
<input checked="" type="checkbox"/>	Deny Access - De-activated Card	Access Point	Access denied, Access request
<input checked="" type="checkbox"/>	Deny Access - Dirty Sensor	Access Point	Access denied, Access request
<input checked="" type="checkbox"/>	Deny access - Door group/schedule not con.	Access Point	Access denied, Access request
<input checked="" type="checkbox"/>	Deny Access - Door Locked	Access Point	Access denied, Access request
<input checked="" type="checkbox"/>	Deny access - door schedule	Access Point	Access denied, Access request
<input checked="" type="checkbox"/>	Deny Access - Duress Code Detected	Access Point	Access denied, Access request
<input checked="" type="checkbox"/>	Deny Access - Duress FP	Access Point	Access denied, Access request
<input checked="" type="checkbox"/>	Deny Access - Elevators - floor not in floors.	Access Point	Access denied, Access request
<input checked="" type="checkbox"/>	Deny Access - Elevators - Floor request not.	Access Point	Access denied, Access request
<input checked="" type="checkbox"/>	Deny Access - Elevators - timeout	Access Point	Access denied, Access request
<input checked="" type="checkbox"/>	Deny Access - Elevators - unknown error	Access Point	Access denied, Access request
<input checked="" type="checkbox"/>	Deny Access - Face Detection	Access Point	Access denied, Access request
<input checked="" type="checkbox"/>	Deny Access - Fake Finger	Access Point	Access denied, Access request
<input checked="" type="checkbox"/>	Deny access - FP already authenticated	Access Point	Access denied, Access request
<input checked="" type="checkbox"/>	Deny access - FP blacklisted	Access Point	Access denied, Access request
<input checked="" type="checkbox"/>	Deny access - FP limited period	Access Point	Access denied, Access request
<input checked="" type="checkbox"/>	Deny access - FP not captured	Access Point	Access denied, Access request
<input checked="" type="checkbox"/>	Deny access - FP not matched	Access Point	Access denied, Access request

User-defined Categories...

General Settings Doors and Associated Cameras Access Control Events Access Request Notifications Cardholders

Milestone XProtect Management Client 2021 R1

File View Action Maintenance Tools Help

Site Navigation

- Output
- Client
 - Smart Wall
 - View Groups
 - Smart Client Profiles
 - Management Client Profiles
 - Main
- Rules and Events
 - Rules
 - Time Profiles
 - Notification Profiles
 - User-defined Events
 - Analytics Events
 - Generic Events
- Security
 - Roles
 - Basic Users
- System Dashboard
 - Current Tasks
 - System Monitor
 - System Monitor Thresholds
 - Evidence Lock
 - Configuration Reports
- Server Logs
- Metadata Use
 - Metadata Search
- Access Control
 - Transaction sources
 - Transaction definitions
- Alarms

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
Sudhanshu Upadhyay	Employee
Suman Lata	Employee
Sumit	Employee
sumit kumar	Employee
Sushmita Mondal	Employee
Sushmita Nandan	Employee
Tania Sarkar	Employee
Test	Employee
test kumar	Employee
Test First Middle Last	Employee
Test Leave	Employee
Testleave2	Employee
Testleave3	Employee
Twelve	Employee
Twenty Five	Employee
Ujjal Sarmah	Employee
Ujjal-N Sarma-N	Employee
User	Employee
User2	Employee

Ujjal Sarmah
Employee

Select picture...
Delete picture...

Card Id2: 387CA376
Expiry Date Card Id2: 01 April 2023
Card Id1434: 12006049316
Expiry Date Card Id1434: 31 December 2037
EmployeeName: Ujjal Sarmah
Manage cardholder: http://192.168.1.147:8086/HRView/login.aspx?L...

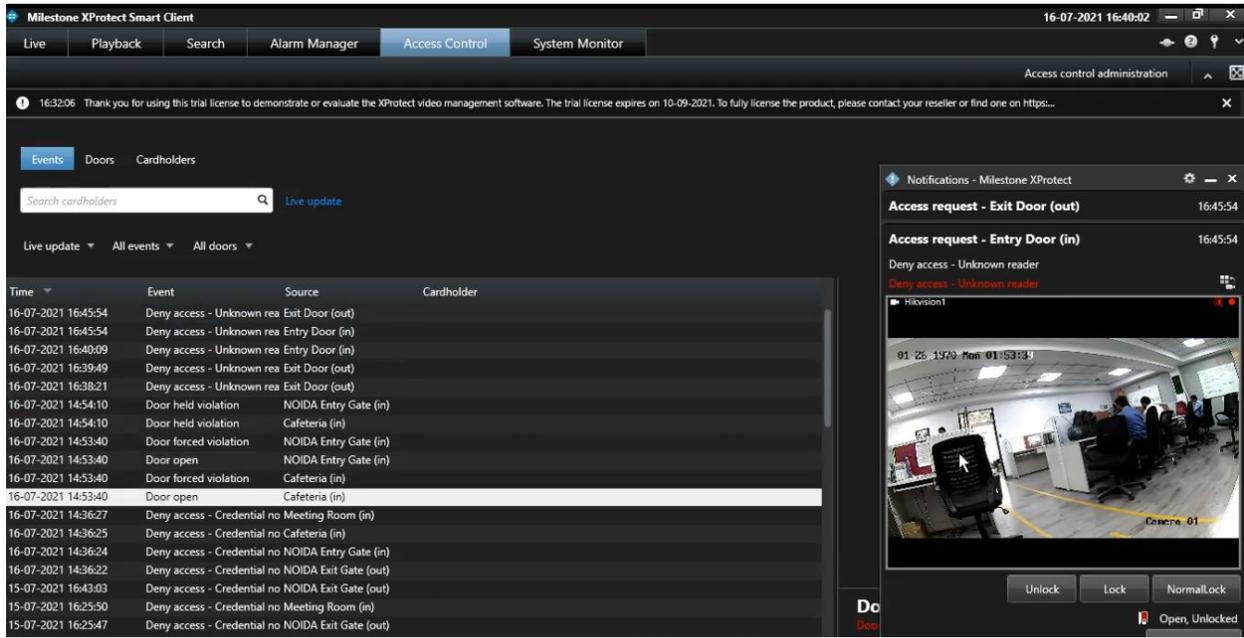
General Settings Doors and Associated Cameras Access Control Events Access Request Notifications Cardholders

XProtect Smart Client

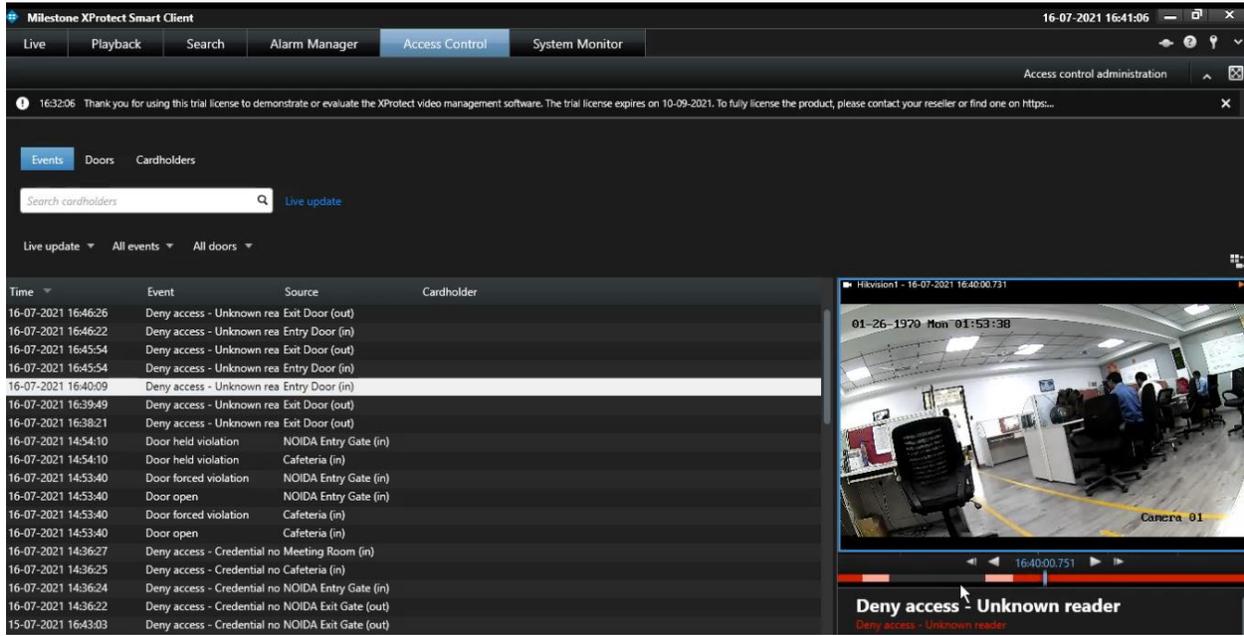
1. Open and Login to XProtect Smart Client 2021 R1. The plug-in added in the Management Server will be loaded in the XProtect console as a Tab.



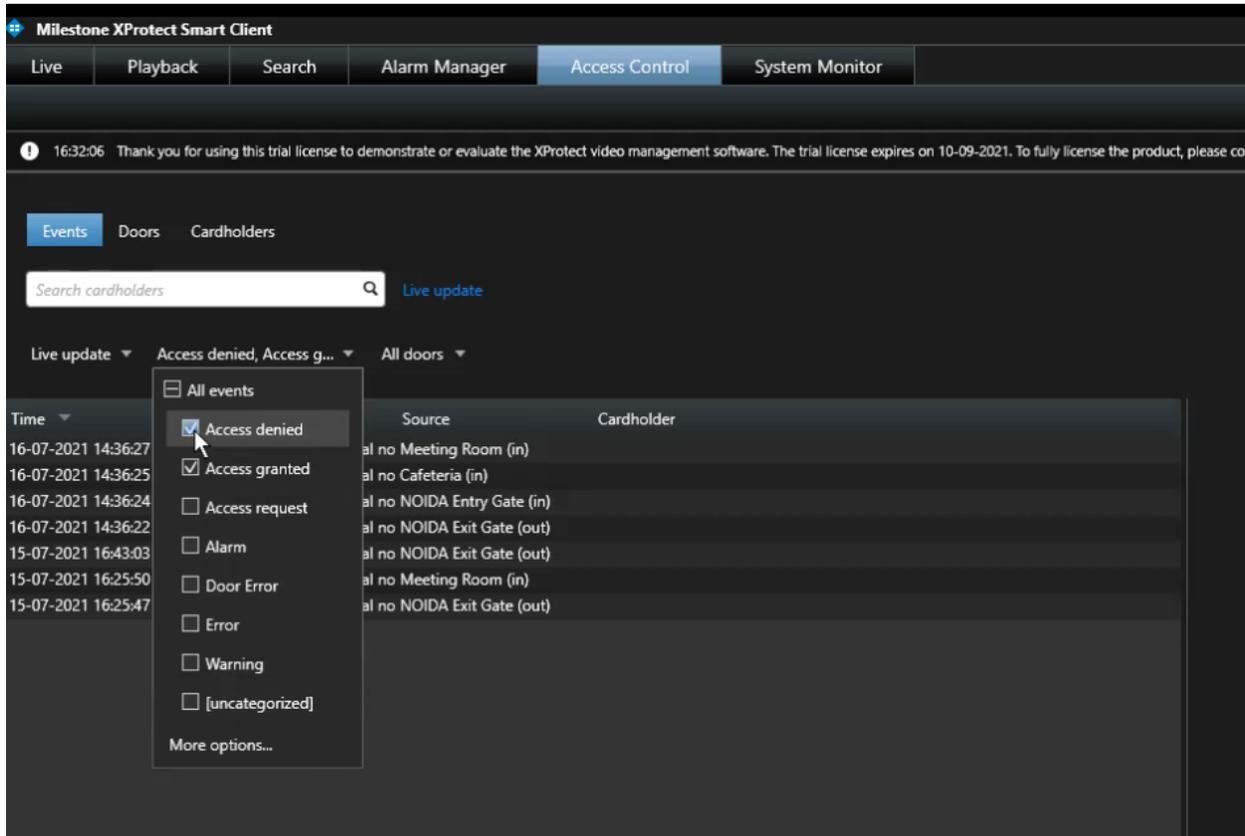
2. Click to open the Access Control Tab, as shown in the screenshot, three sub tabs will be loaded. a) Events, b) Doors and c) Cardholders
3. Click on the Events tab, all events from Access360 system will be shown. All events supported in Access360 like Card Holder Events, Doors/Controller events, Input/Interface events shall be listed here. The real time events are loaded as per the Event Polling Period configured for the plug-in in management server configuration page.
4. Click on an event, like the door event shows the details of the event and if camera is mapped then the video clip of the event and live view can be seen.
5. If the event is a door type then the option to Lock (Permanent lock), Unlock and Normal Lock is shown.



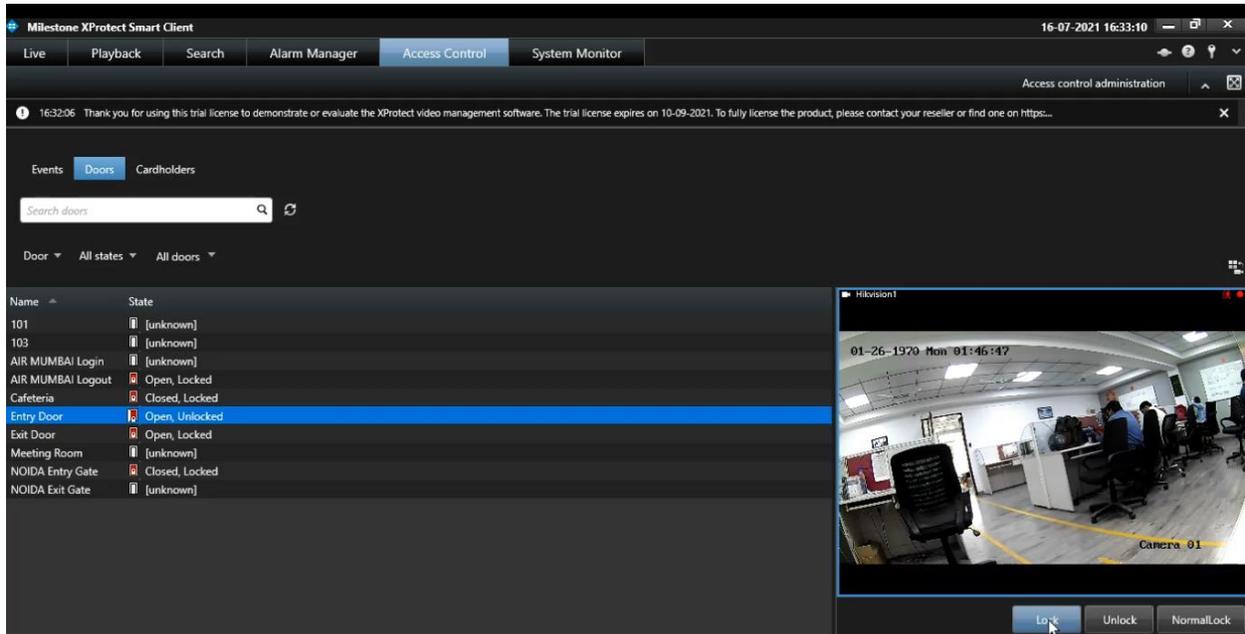
6. Click on an event, like the deny access, shall show the video of the message event as shown below



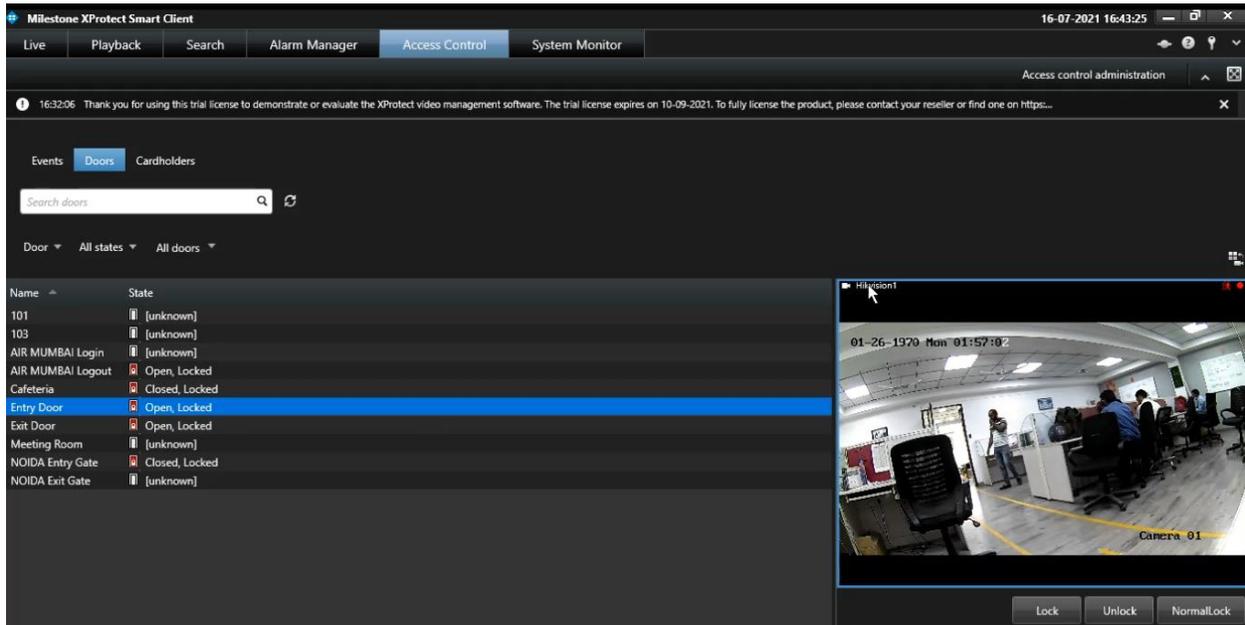
7. Option to filter events based on Event Category



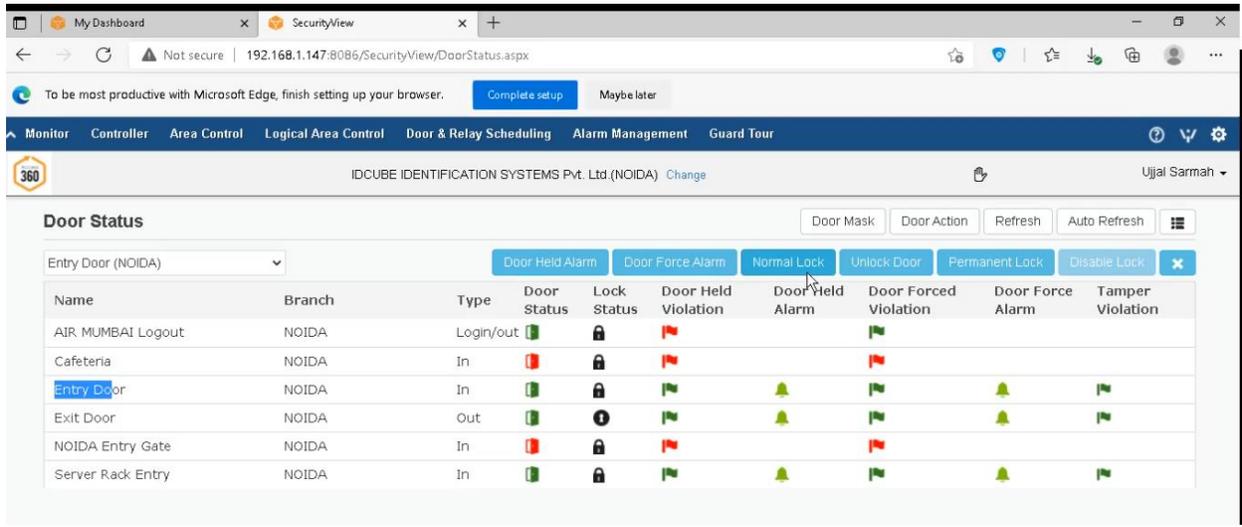
8. Click on the Doors tab to view the door status. If a camera is mapped the real time view can be seen in the side pane as shown below.
9. There are three buttons to change the door status, Lock – Permanent Lock, Unlock and Normal Lock.
10. Once any of the button is pressed, the command is sent to the respective controller.



11. The updated door status is reflected in the console as shown below. E.g. See Entry Door status is updated as Locked.



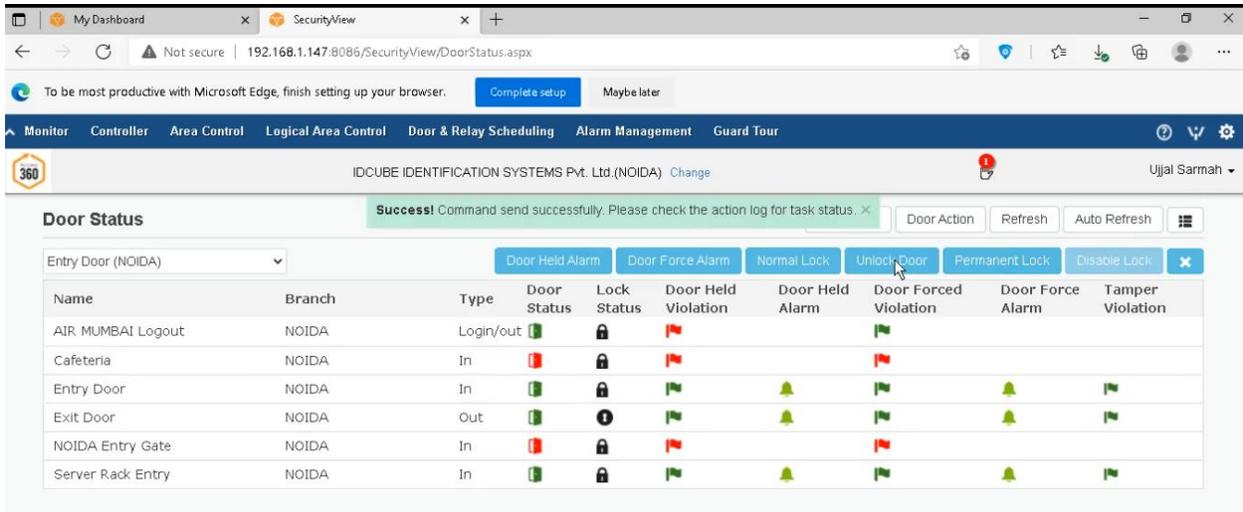
12. The same status can be viewed from Access360, Security View application which is also showing the status as Locked.



The screenshot displays the 'Door Status' interface within the Access360 application. The browser address bar shows the URL '192.168.1.147:8086/SecurityView/DoorStatus.aspx'. The application header includes navigation tabs like 'Monitor', 'Controller', and 'Alarm Management'. The main content area features a 'Door Status' section with a dropdown menu set to 'Entry Door (NOIDA)'. Above the table are several filter buttons: 'Door Held Alarm', 'Door Force Alarm', 'Normal Lock', 'Unlock Door', 'Permanent Lock', and 'Disable Lock'. The table below lists various doors with columns for Name, Branch, Type, Door Status, Lock Status, Door Held Violation, Door Held Alarm, Door Forced Violation, Door Force Alarm, and Tamper Violation. Each cell contains a small icon representing the status.

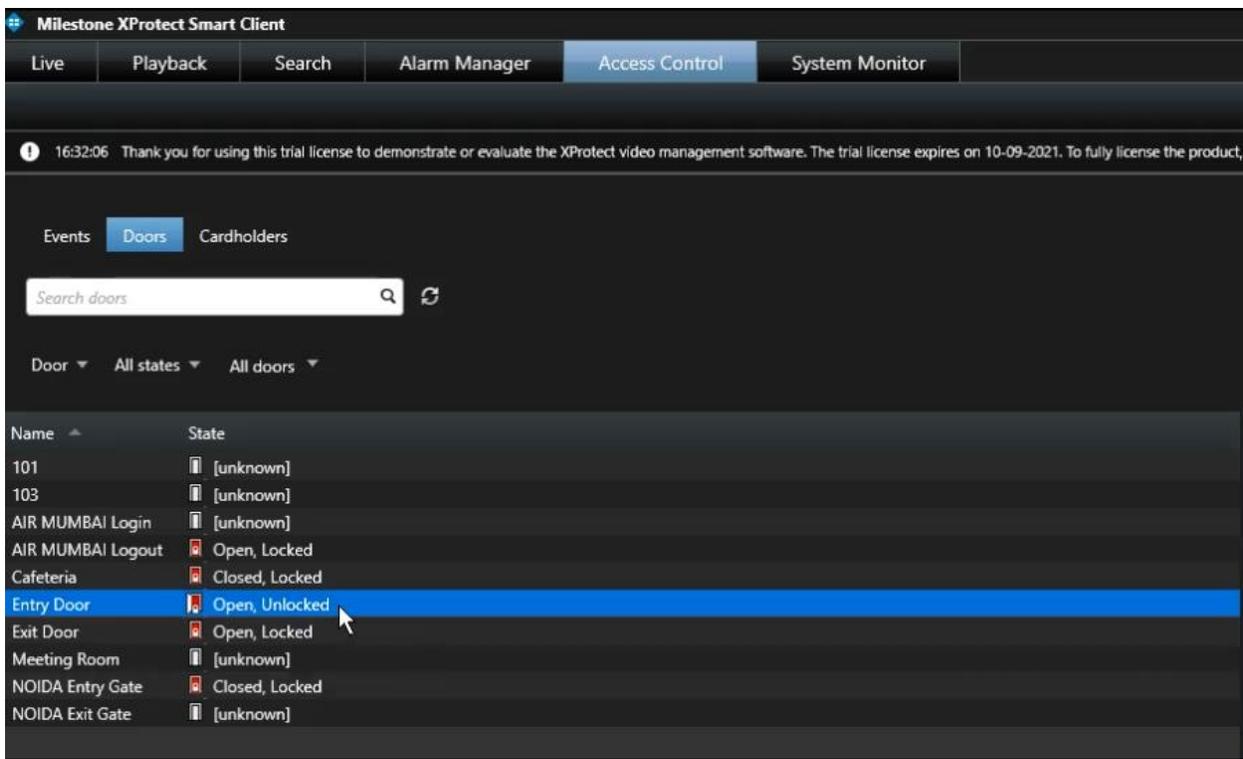
Name	Branch	Type	Door Status	Lock Status	Door Held Violation	Door Held Alarm	Door Forced Violation	Door Force Alarm	Tamper Violation
AIR MUMBAI Logout	NOIDA	Login/out							
Cafeteria	NOIDA	In							
Entry Door	NOIDA	In							
Exit Door	NOIDA	Out							
NOIDA Entry Gate	NOIDA	In							
Server Rack Entry	NOIDA	In							

13. From Access360, Security View application, the door status can be changed. Once we click Normal Lock button from above screen, it also sends the command to respective controller which is also visible in Doors tab in Access360 plug-in as shown below.



The screenshot shows the Access360 Security View application interface. At the top, there's a navigation bar with tabs: Monitor, Controller, Area Control, Logical Area Control, Door & Relay Scheduling, Alarm Management, and Guard Tour. Below this, the main content area is titled "Door Status" and displays a table of door information. A success message at the top indicates a command was sent successfully. The table has columns for Name, Branch, Type, Door Status, Lock Status, Door Held Violation, Door Held Alarm, Door Forced Violation, Door Force Alarm, and Tamper Violation. The "Entry Door" row is highlighted, showing its status as "Open, Unlocked".

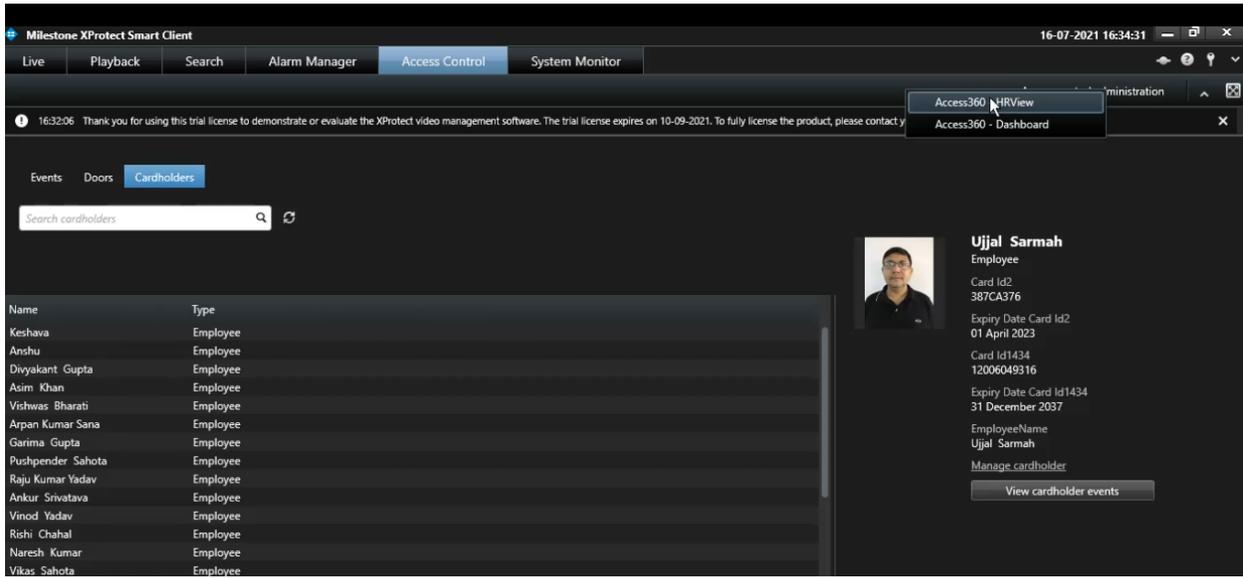
Name	Branch	Type	Door Status	Lock Status	Door Held Violation	Door Held Alarm	Door Forced Violation	Door Force Alarm	Tamper Violation
AIR MUMBAI Logout	NOIDA	Login/out	🟢	🔒	🚩		🟢		
Cafeteria	NOIDA	In	🔴	🔒	🚩		🚩		
Entry Door	NOIDA	In	🟢	🔒	🟢	🟡	🟢	🟡	🟢
Exit Door	NOIDA	Out	🟢	🔒	🟢	🟡	🟢	🟡	🟢
NOIDA Entry Gate	NOIDA	In	🔴	🔒	🚩		🚩		
Server Rack Entry	NOIDA	In	🟢	🔒	🟢	🟡	🟢	🟡	🟢



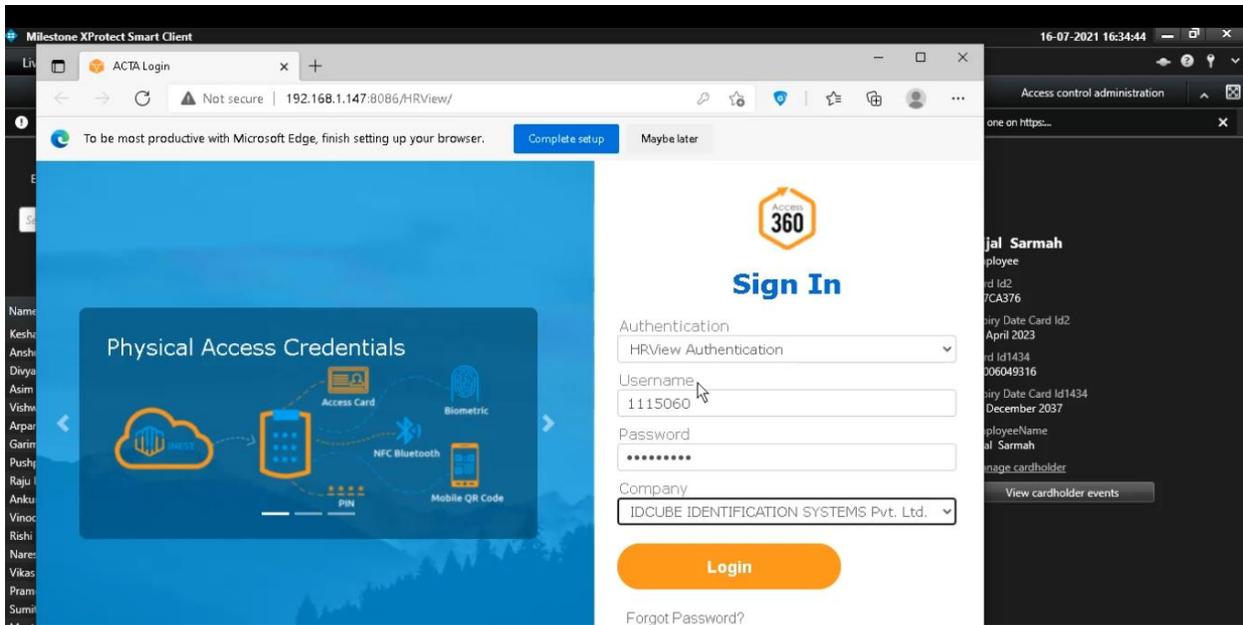
The screenshot shows the Milestone XProtect Smart Client interface. The "Access Control" tab is active. Below the navigation bar, there's a search bar and filters for "Door", "All states", and "All doors". A list of doors is displayed with columns for Name and State. The "Entry Door" row is highlighted, showing its state as "Open, Unlocked".

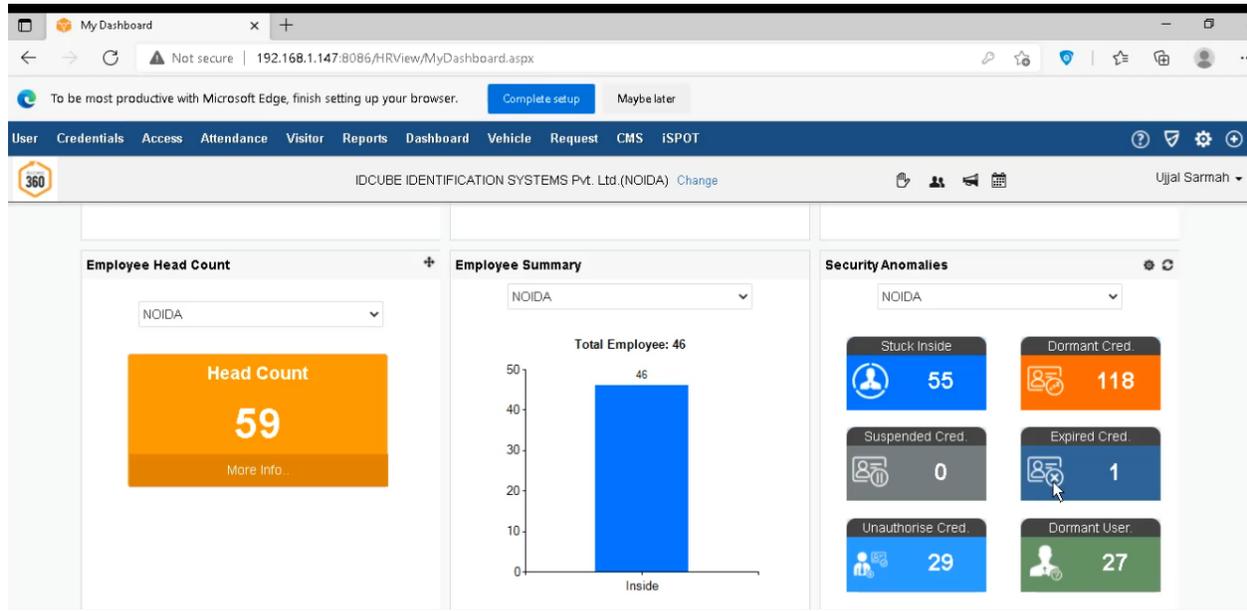
Name	State
101	🔒 [unknown]
103	🔒 [unknown]
AIR MUMBAI Login	🔒 [unknown]
AIR MUMBAI Logout	🔴 Open, Locked
Cafeteria	🔴 Closed, Locked
Entry Door	🟢 Open, Unlocked
Exit Door	🔴 Open, Locked
Meeting Room	🔒 [unknown]
NOIDA Entry Gate	🔴 Closed, Locked
NOIDA Exit Gate	🔒 [unknown]

14. Card Holders: All card holders from Access360 is pulled using the plugin along with basic details like Photograph, Card ID, and Expiry Date. In Access360, multiple card can be issued to a user, which has also been pulled using the plugin.
15. The respective events of each card holder can be viewed from the button, View cardholder events.



16. Navigation link to Access360 is available in the plug-in where privileged user can login to Access360 web portal to manage User, Credential, Attendance Rule, Access Rule, Reports, Dashboard, and other admin functions.
17. From Access360 Security View, privileged user can manage controller, biometric device, readers, interfaces, inputs and other advance access control features.





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