Table of Contents

How to integrate Milestone with BioStar 2	1
The summary of Procedure	
Step 1: Install BioStar 2	2
Step 2: Install one of Milestone XProtect VMS (with professional license or higher)	
Step 3: Install BioStar 2 Integration for Milestone XProject	3
Step 4: Add IP Camera in Milestone XProtect VMS	3
Step 5: Create new Access Control to connect Milestone to BioStar 2	7
Major Features	
Feature 1: Access Control Events	. 14
Feature 2: Cardholders	
Step 6: Utilize XProtect Smart Client	
Major Features	
Feature 1: Live	
Feature 2: Alarm Manager	. 25
Feature 3: BioStar2	. 28
Feature 4: Access Control	. 29

System Configuration, BioStar 2, Milestone

How to integrate Milestone with BioStar 2

The summary of Procedure

- 1. Install BioStar 2.
- 2. Install one of Milestone XProtect VMS (with professional license or higher).
- 3. Install BioStar 2 Integration for Milestone XProject.
 - 😰 AC Plugin for BioStar2
 - 😰 WorkspacePluginforBioStar2
- 4. Add IP Camera in Milestone XProtect VMS.
- 5. Create new Access Control to connect Milestone to BioStar 2.
- 6. Utilize XProtect Smart Client.

Before you integrate Milestone with BioStar 2, check the Prerequisites below.

Prerequisites

- Must install the one of Milestone XProtect VMS.
 - XProtect Professional 2017 R2
 - XProtect Professional+ 2017 R2
 - XProtect Expert 2017 R2
 - XProtect Corporate 2017 R2
- Must install BioStar 2.4.1 or higher version.
- Must have a Milestone license for XProtect Professional or higer version.
- XProtect VMS and BioStar 2 must be installed first.
- All access control configuration settings of BioStar 2 must be completed.
- System requrements
 - CPU: 4GHz Quad Core
 - RAM: Minimum 10 GB
 - Hard disk space: Minimum 1 TB free hard disk space available
 - Operating system:

Microsoft® Windows® 10 Pro (64 bit)* Microsoft Windows 10 Enterprise (64 bit)* Microsoft Windows 8.1 Pro (64-bit) Microsoft Windows 8 Enterprise (64-bit) Microsoft Windows 8 Pro (64-bit) Microsoft Windows 7 Ultimate (64-bit) Microsoft Windows 7 Enterprise (64-bit) Microsoft Windows 7 Professional (64-bit) Microsoft Windows 2008 R2 (64bit): Standard

Other: Microsoft .NET 4.5.1 Framework

Step 1: Install BioStar 2

Refer to the below link if you do not know how to install BioStar 2. BioStar 2 Installation

If you use the port number 443 for BioStar 2, you should change it into other number. This is because the port number for BioStar 2 will be collided with the port number used when XProtect Management Client 2017 R3 is installed. When you set the port number 443 for BioStar 2 and then try to install XProtect Management Client 2017 R3, you will get the below error.

When you set the port number 443 for BioStar 2 and then try to install XProtect Management Client 2017 R3, you will get the below error.

XProtect Professional + 2017 R3 Test

A system error has occurred

A system error has occurred during installation. Open the log file for details.

Error details: The IIS uses port 443, but this port is also used by the process "Idle" on this computer.

To continue the installation, you must first close the other application or change the port of the other application.

You can use the command-line tool netstat to identify the application if in doubt."

Step 2: Install one of Milestone XProtect VMS (with professional license or higher)

You can download the installation file of Milestone XProtect VMS in the below link.

https://www.milestonesys.com/support/resources/download-software/

While you install the application, it is required to activate Milestone's license.

Step 3: Install BioStar 2 Integration for Milestone XProject

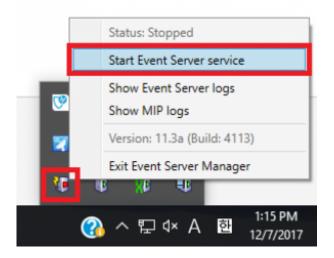
You should install two installation files below.

😰 AC Plugin for BioStar2

- WorkspacePluginforBioStar2
- AC Plugin for BioStar2.exe is used to connect the access control system and XProtect VMS.
- WorkspacePluginforBioStar2.exe provides the functionality for using BioStar 2 in the XProtect Smart Client.

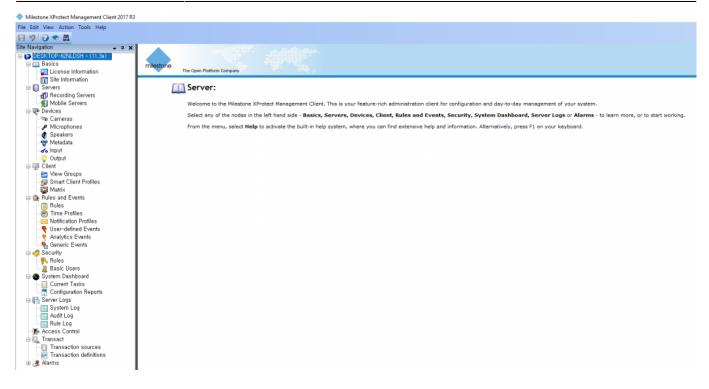
You can refer to BioStar2 Integration for Milestone XProtect Setup Guide to install them.

After succeeding in installation of two applications, start the Milestone XProtect Event Server manually. You can find it in the system tray and right-click on the below icon.

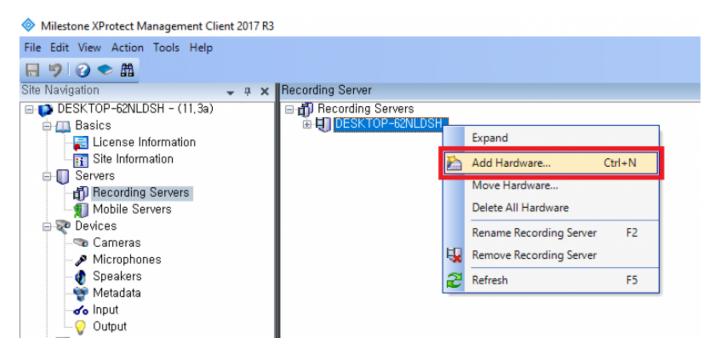


Step 4: Add IP Camera in Milestone XProtect VMS

When you run XProtect Management Client 2017 R3 and connect to your PC, you can see the below screen.



Prepare IP camera. Go to Servers > Recording Servers. Right click one of Recording Servers and select Add Hardware.



Select Express (recommended) and then click Next button.

Add Hardware		_		×
	Add Hardware			
	This wizard helps you detect and set up hardware,			
	Hardware detection method:			
	 Express (recommended) Automatically detects hardware on the recording server's local network 			
	 Address range scanning Scans defined network address ranges and detects hardware models 			
	 Manual Detects hardware models for manually entered IP addresses and host names 			
milestone				
The Open Platform Company				
Help	< Back Next >	Can	cel	

Add new user and enter User Name & Password for IP camera. Then, click Next button.

Add Har	dware						×
Spec	ify user name and password if devices are not using the defa	ault ones.					
							_
Include	User Name	Password			Ac	id	
	(Factory Default)				Rem		
	root	•••••			nem	love	
	1	•••••					
L							
L							
L							
L							
L							
	Help		< Back	Next >	Can	cel	

If you enter the information correctly, available camera will be found. To add IP camera, click **Next** button.

Add Hardware				- 0	×
Wait while the system connects to each hardware Successfully collected hardware will be added.	and collects device specific info	rmation.			
Collected hardware information:				Stop	
Address	Port	Hardware model		Status	
192.168.14.200	80	Axis 214/215		Success	
Help		< Back	Next >	Cancel	

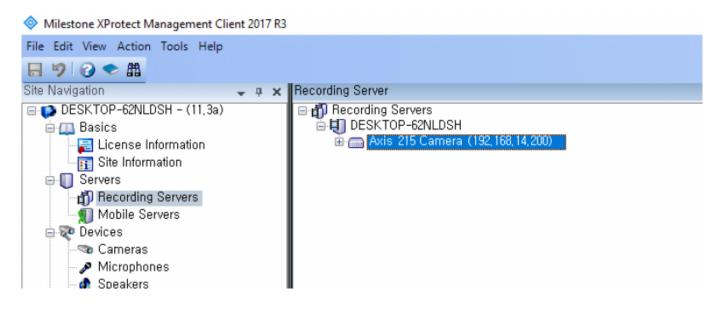
Click Next button.

Add Hardware				×
Hardware and cameras are enabled per default. Manually enable The hardware and its devices will be assigned auto-generated n				
Hardware name template:		Device name template:		
Default		 ✓ Default 		~
Hardware to Add	Enabled	Name		
Axis 215 Camera - 192.168.14.200				
Hardware:		Axis 215 Camera (192.168.14.200)		
Camera port 1:		Axis 215 Camera (192.168.14.200) - Camera 1		
P Microphone port 1:		Axis 215 Camera (192.168.14.200) - Microphone 1		
Speaker port 1:		Axis 215 Camera (192.168.14.200) - Speaker 1		
of a Input port 1:		Axis 215 Camera (192.168.14.200) - Input 1		
Output port 1:		Axis 215 Camera (192.168.14.200) - Output 1		
Help		< Back Next >	Cancel	

Click folder icon and select one default camera group. Then, click **Finish** button.

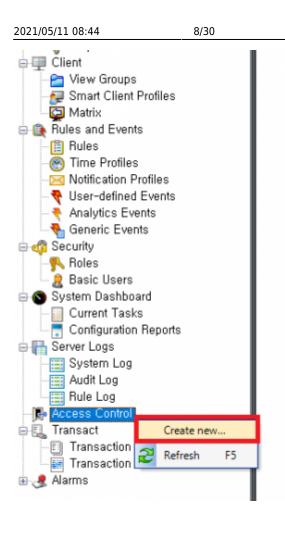
Add Hardware				_	• ×
Select a default group for all devices types. Alternatively, select device group individual	lly for each dev	ce.			
Default camera group:	_	Devices	Add to Group		
No group selected	2	Cameras			
Default microphone group:	_	The Axis 215 Camera (192.168.14.200) - Camera 1	Default Group		~
No group selected,	2				
Default speaker group:					
No group selected,	6				
Default metadata group:					
No group selected,					
Default input group:					
No group selected,	6				
Default output group:					
No group selected,	6				
Help		< Back	Finish	Cance	el
				-	

If you succeed in add IP camera, you can see your camera in the Recording Servers's tree.



Step 5: Create new Access Control to connect Milestone to BioStar 2

Right click Access Control and select Create new.



Enter all items.

- Name: Enter name of Access Control you want to use
- Integration plug-in: Select BioStar2 Server
- Address: Enter URL for access to BioStar 2 (including port number)
- User: Login ID for BioStar 2
- Password: Password for BioStar 2

Croato accoss o	control system integration
create access t	ontroi system integration
Name the access conti	rol system integration, select the integration plug-in and enter the connection details.
Name:	BioStar 2
ntegration plug-in:	BioStar2 Server ~
Address:	https://192.168.14.17:456/
Jser:	admin
assword:	•••••
Use HTTP encryption:	

10/30

😭 BioStar Setting				×
Service Status				
The	Core Web Server servic	te has been started.	Running	Stop
BS2 The	BioStar 2 service has be	Running	Stop	
T&A The	T&A Web Server servic	e has been started.	Running	Stop
The	Video Server service ha	as been started.	Running	Stop
Database Server C DB Type Host	Maria DB 127.0.0.1	Port 33	12	_
	Database Name	Database User	Database Pass	word
AC	biostar2_ac	biostar2_ac_user	****	***
ТА	biostar_tna	biostartnauser	*******	****
Video	biostar_ve	biostarveuser	********	****
	Test Connection	n Sav	e	

If you fail to connect to the access control system (BioStar 2 AC), you will get the below error. Please check if all settings are correct.

Connecting to	the access control	ol system			
Collecting configurat	ion data				
Unable to receive cor	nfiguration from the acces	s control system. Error m	essage: Error fetching con	figuration.	

If you succeed in connection to the access control system (BioStar 2 AC), you can see below picture.

onfiguration successfully rece	eived from access contro	ol system.	
Added:			
Doors (1)			•
Units (4)			
Servers (1)			-
Events (178)			•
Commands (6)			•
States (7)			•

If BioStar 2 connected to Milestone successfully, the below screen will appear.

After selecting IP camera you will use in the right panel, **drag the cameras to the access points** for each door in the left list.

Create Access Control System Integration	
Associate cameras	
Drag cameras to the access points for each door in the Client when access control events related to one of the	list. The associated cameras are used in the XProtect Smart door's access points are triggered.
Doors:	Cameras:
All doors 👻	DESKTOP-62NLDSH
Name Enabled License 🤝	Axis 215 Camera (192.168.14.200) - Camera 1
test door 🗹 Pending	
Access point: (입실 장치) BioStation A2 541531003 Drop camera here to associate it with the access point	
<	<u>د</u>
	Previous Next Cancel

If you succeeded in integrate Milestone with BioStar2 with IP camera, you can see below picture.

Create Access Control System Integration	
You have successfully completed the access control system integration	
Your XProtect Smart Client users can now monitor access control events. See the help system for how to optimize the XProtect Smart Client for access control system integration.	
You can edit the integration settings in the access control system properties, if you, for example, update the access control system.	
Ck	ose

Once you succeed in integration between BioStar 2 and Milestone, you can add/edit the access control properties at any time.

To manage them, you need to select one of Access Control.

At the bottom, there are 5 tabs you can configure.

Milestone XProtect Management Client 2017 R3	- σ ×
	0 ^
File Edit View Action Tools Help	
🗄 🦻 🕝 🗢 🛍	
Site Navigation - a x Access Control - a Acce	ess Control Information 👻 🕫
B DESKTOP-62NLDSH - (11,3a) B - Access Control	
	General settings
License Information	inable: 🗹
Site Information	naule: ex. ex. and ex. ex. and
e Servers	anne unoste c
The conding dervers	escription
1 Mobile Servers	
😑 👽 Devices	
- The Cameras - A Microphones	
Developer	
See Materials	rtegration plug-in: BioSta/2 Server (Version: 1.0, 1.0)
- do Input	ast configuration refresh: 12/4/2017 6:16 PM
- Output	Refresh Configuration
Cleart	
- Physical View Groups	ddress: https://192.168.14.17.456/
- 🐙 Smart Client Profiles	iser: admin
	assword:
	vent poling period (ms): 250
	ise new captured image: 🗹
Time Profiles	Ise HTTP encryption:
-⊡ Notification Profiles 	
Analytics Events	
Generic Events	
G denence Evenus	
Roles	
Basic Users	
🕀 🕥 System Dashboard	
Current Tasks	
Configuration Reports	
🖶 🏣 Server Logs	
System Log	
- Audit Log	
T=1 Rule Log	
Access Control	
D Terrentie entret	
Transaction sources	
Alarms	
a Ca Malina	
	g General Settings 👒 Doors and Associated Cameras 🍖 Access Control Events 🕡 Access Request Notifications 🔔 Cardholders
	nelisia balinta la neuro en concentra contrata de versas contrat estas de la constructiona 🔭 concentrationale

- General Settings: You can update the access control system name, network settings and login information.
- Doors and Associated Cameras: You can associate the cameras with access points.
- Access Control Events: You can activate or deactivate the access control event from BioStar 2, also create and assign the user-defined categories.
- Access Request Notifications: You can create an access control action or command which is performed by the operator on the associated access points. For example, when a card holder requests the door open, XProtect display a notification and then operator sending a door open command.
- Cardholders: You can view or search the cardholder information. The cardholder information is synchronized with user information of BioStar 2. In BioStar 2, user information includes user name, access group, RFID card number, fingerprint template, face template and PIN.

Major Features

Feature 1: Access Control Events

This function is used for classifying Access Control Events into certain Event Category. In general, there are a variety of different events in each access control system. To manage them efficiently in Milestone, you should map all access control events to certain Event Category.

cess	s control events		
lect the	events you want to monitor in XProtect Smart Client, Use categories	to simplify the use of triggering events,	
nabled	Access Control Event	Source Type	Event Category
121	1:1 인증 성공 (ID + PIN)	Access Point	Access granted, Access Point
✓	1:1 인증 성공 (ID + 얼굴 + PIN)	Access Point	Access granted, Access Point
✓	1:1 인증 성공 (ID + 얼굴)	Access Point	All categories
✓	1:1 인증 성공 (ID + 지문 + PIN)	Access Point	Access denied
✓	1:1 인증 성공 (ID + 지문)	Access Point	
✓	1:1 인증 성공 (액세스온카드 + PIN)	Access Point	Access granted
✓	1:1 인증 성공 (액세스온카드 + 지문 + PIN)	Access Point	Access Point
✓	1:1 인증 성공 (액세스온카드 + 지문)	Access Point	
	1:1 인증 성공 (액세스온카드)	Access Point	Access request
✓	1:1 인증 성공 (카드 + PIN)	Access Point	Alarm
✓	1:1 인증 성공 (카드 + 얼굴 + PIN)	Access Point	Device Related
	1:1 인증 성공 (카드 + 얼굴)	Access Point	
✓	1:1 인증 성공 (카드 + 지문 + PIN)	Access Point	Door Related
✓	1:1 인증 성공 (카드 + 지문)	Access Point	Error
	1:1 인증 성공 (카드)	Access Point	Liřt Related
✓	1:1 인증 실패 (ID)	Access Point	
_	1:1 인증 실패 (PIN)	Access Point	Test Event Category
_	1:1 인증 실패 (액세스온카드 + PIN)	Access Point	
✓	1:1 인증 실패 (액세스온카드 + 지문)	Access Point	Access denied, Access Point, Access request
✓	1:1 인증 실패 (얼굴)	Access Point	Access denied, Access Point, Access request
	1:1 인증 실패 (지문)	Access Point	Access denied, Access Point, Access request
✓	1:1 인증 실패 (카드)	Access Point	Access denied, Access Point, Access request
✓	1:1 협박 지문 인증 (ID + PIN)	Access Point	Access granted, Access Point, Alarm, Warning
✓	1:1 협박 지문 인증 (ID + 얼굴 + PIN)	Access Point	Access granted, Access Point, Alarm, Warning
_	1:1 협박 지문 인증 (ID + 얼굴)	Access Point	Access granted, Access Point, Alarm, Warning
✓	1:1 협박 지문 인증 (ID + 지문 + PIN)	Access Point	Access granted, Access Point, Alarm, Warning
	1:1 협박 지문 인증 (ID + 지문)	Access Point	Access granted, Access Point, Alarm, Warning
_	1:1 협박 지문 인증 (액세스온카드 + PIN)	Access Point	Access granted, Access Point, Alarm, Warning
~	1:1 협박 지문 인증 (액세스온카드 + 지문 + PIN)	Access Point	Access granted, Access Point, Alarm, Warning
_	1:1 협박 지문 인증 (액세스온카드 + 지문)	Access Point	Access granted, Access Point, Alarm, Warning
_	1:1 협박 지문 인증 (액세스온카드)	Access Point	Access granted, Access Point, Alarm, Warning
	1:1 협박 지문 인증 (카드 + PIN)	Access Point	Access granted, Access Point, Alarm, Warning
	1:1 협박 지문 인증 (카드 + 얼굴 + PIN)	Access Point	Access granted, Access Point, Alarm, Warning
_	1:1 협박 지문 인증 (카드 + 얼굴)	Access Point	Access granted, Access Point, Alarm, Warning
	1:1 협박 지문 인증 (카드 + 지문 + PIN)	Access Point	Access granted, Access Point, Alarm, Warning
v	1:1 협박 지문 인증 (카드 + 지문)	Access Point	Access granted, Access Point, Alarm, Warning

User-defined Categories,..

🚜 General Settings 👒 Doors and Associated Cameras 🍖 Access Control Events 🖟 Access Request Notifications 🤰 Cardholders

If you want to create customized Event Category, you can make it by clicking **User-defined Categories** button.

Enabled Acce	ess Control Event		Source Type			Event Category
	인증 실패 (ID)		Access Point			Access denied, Access Point, Access request
	인증실패 (PIN)		Access Point			Access denied, Access Point, Access request
	민증 실패 (액세스온카드 + PIN)		Access Point		Access denied, Access Point, Access request	
	인증 실패 (액세스온카드 + 지문)		Access Point			Access denied, Access Point, Access request
	민증 실패 (얼굴)		Autors Dalas			Access denied, Access Point, Access request
	인증 실패 (지문)	User-defined Categories		×		Access denied, Access Point, Access request
	민증 실패 (카드)					Access denied, Access Point, Access request
✓ 1:1 ĝ	협박 지문 인증 (ID + PIN)	Name		Add		Access granted, Access Point, Alarm, Warning
	협박 지문 인중 (ID + 얼굴 + PIN)	Test Event Category		Remove		Access granted, Access Point, Alarm, Warning
V 1:1 2	협박 지문 인증 (ID + 얼굴)					Access granted, Access Point, Alarm, Warning
	법박 지문 인증 (ID + 지문 + PIN)					Access granted, Access Point, Alarm, Warning
✓ 1:1 g	협박 지문 인증 (ID + 지문)					Access granted, Access Point, Alarm, Warning
✓ 1:1 ĝ	협박 지문 인증 (액세스온카드 + PIN)					Access granted, Access Point, Alarm, Warning
1:1 g	협박 지문 인증 (액세스온카드 + 지문 + PI)					Access granted, Access Point, Alarm, Warning
✓ 1:1 ĝ	협박 지문 인증 (액세스온카드 + 지문)					Access granted, Access Point, Alarm, Warning
✓ 1:1 2	협박 지문 인증 (액세스온카드)					Access granted, Access Point, Alarm, Warning
☑ 1:1 협박 지문 인증 (카드 + PIN)	범박 지문 인증 (카드 + PIN)					Access granted, Access Point, Alarm, Warning
✓ 1:1 2			OK	Cancel		Access granted, Access Point, Alarm, Warning
✓ 1:1 ĝ	협박 지문 인증 (카드 + 얼굴)		UK	Cancel		Access granted, Access Point, Alarm, Warning
✓ 1:1 ĝ	협박 지문 인증 (카드 + 지문 + PIN)		Access Point			Access granted, Access Point, Alarm, Warning
✓ 1:1 g	협박 지문 인종 (카드 + 지문)		Access Point			Access granted, Access Point, Alarm, Warning
✓ 1:1 ĝ	협박 지문 인증 (카드)		Access Point			Access granted, Access Point, Alarm, Warning
✓ 1:N 9	인증 성공 (얼굴 + PIN)		Access Point			Access granted, Access Point
✓ 1:N 9	민증 성공 (얼굴)		Access Point			Access granted, Access Point
✓ 1:N 9	인증 성공 (지문 + PIN)		Access Point			Access granted, Access Point
✓ 1:N 9	민중 성공 (지문)		Access Point			Access granted, Access Point
✓ 1:N 9	인증 실패 (PIN)		Access Point			Access denied, Access Point, Access request
1:N 9	민중 실패 (액세스온카드 + PIN)		Access Point			Access denied, Access Point, Access request
✓ 1:N 9	민증 실패 (액세스온카드 + 지문)		Access Point	Access Point		Access denied, Access Point, Access request
✓ 1:N 9	민증 실패 (얼굴)		Access Point			Access denied, Access Point, Access request
✓ 1:N 9	민중 실패 (지문)		Access Point			Access denied, Access Point, Access request
✓ 1:N §	협박 지문 인증 성공 (얼굴 + PIN)		Access Point			Access granted, Access Point, Alarm, Warning
	협박 지문 인증 성공 (얼굴)		Access Point			Access granted, Access Point, Alarm, Warning
✓ 1:N §	협박 지문 인증 성공 (지문 + PIN)		Access Point			Access granted, Access Point, Alarm, Warning
	협박 지문 인증 성공 (지문)		Access Point			Access granted, Access Point, Alarm, Warning
AC P	Yower 성공					
AC P			BioStar2 Terminal			Alarm, Device Related

Feature 2: Cardholders

The user who is enrolled in BioStar 2 is synchronized with the cardholder in Milestone.

List of all Users

BioStar 2:

BioStar	2 @	Setting () About	🧿 Help									,	Administrator
DASH BOARD	۸ ک	DD USER	All U	Jsers					H 1/1 Þ	H 50 rd	ows 💌		¥ Go
8	User	Status											•••
USER	🚊 All Users	6		ID	Name	Email	Group	Acces	s Group	Ð	•		Status
DEVICE					Administrator		All Users	AG3	0	0	(
G				2	hailey		All Users	AG3	1	0	1		
DOOR				3	kate		All Users	AG3	1	0	(
₽					tim		All Users	AG3	1	0	(
ELEVATOR					уј		All Users	AG3	1	0	(
\odot				6	ethan		All Users	AG3	1	0	(
ZONE													
() 4000000													

Milestone:

Access Control 🚽 🦊	Access Control Information			
Access Control	Cardholders			
		the cardholder. The cardholder picture is use	d in the XProtect Smart Client, when a	n access control event has been registered,
	Search cardholder Q			
	Name	Type	1	
	Administrator	AG3		
	ethan	AG3		
	halley	AG3		
	kate	AG3		
	tim	AG3		
		AG3		
	уј	AG3		
			1	
	🍪 General Settings 👒 Doors and Associ	ated Cameras 🏾 🍖 Access Control Events	🧓 Access Request Notifications 👔	Cardholders
		v.	- A	

User Details

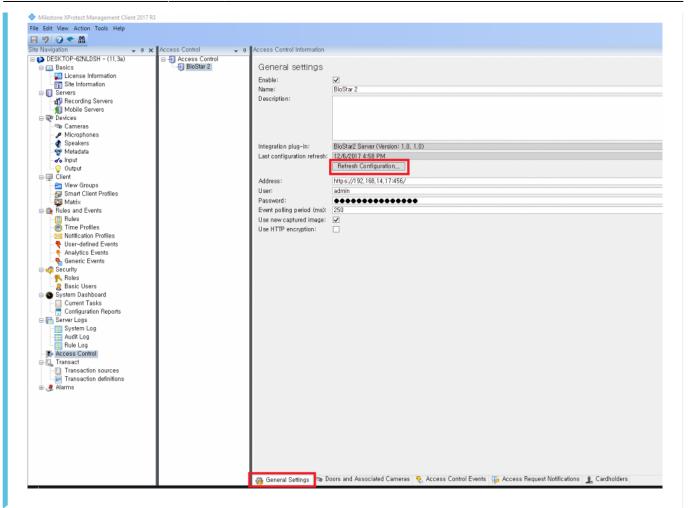
BioStar 2:

✓ kate						3/6 4 Þ
Information						
	• Name • ID	kate 3	• Email • Telephone			
	• Group	All Users	v • Status	Active		
	Period Operator Level	2001/01/01 00:00 ~ 2030/12/31 23:59 00000 User	• Access Group	A63		*
	 Login ID Password 	kate				
Credential						
• 🖾 PIN	•••••					
Auth Mode	Device Default					
Credential	+ Fingerprint 🛞	+ Face 🕘 + Card 📼				
 1:1 Security Level 	•	Device Default				
	Туре	Card Data Format	Sur	nesary	Ca	and History
	Fingerprint	-		1	/1	
					Apply	Cancel

Milestone:

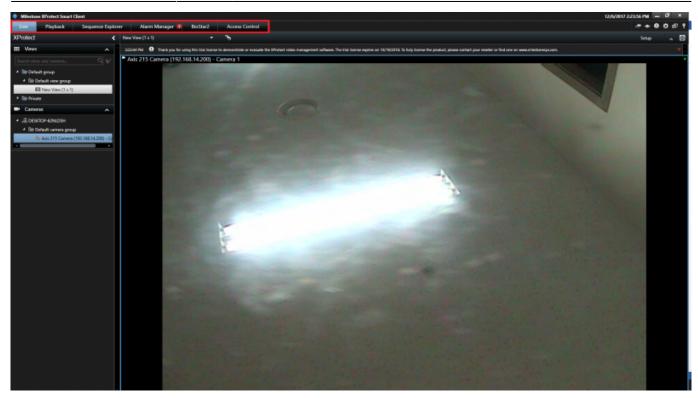
Access Control	a Access Control Information			
BioStar 2	Cardholders	cture of the cardholder. The card	tholder picture is used in the $\!$	ntect Smart Client, when an access control event has been registered.
	Name	Туре	kate	
	Administrator	AG3	AG3	
	ethan	AG3		
	halley	AG3		
	kate	A63		
	tim	AG3		
	yi .	AG3		
			사용자 ID:	3
			사용자 그를	All Users
			비활성:	false
			시작 날짜:	2001-01-01 오전 12:00:00
			만료 날짜:	
			PIN:	true
			지문:	1
			얼굴:	0
			카드:	0
			12.	·

Although the information on user/door/device is changed except for real-time events in BioStar 2, it will not be updated in Milestone automatically. In these cases, you should click **Refresh Configuration** button in Milestone (**Access Control** > **General Settings**). Otherwise, the user information between BioStar 2 and Milestone are different.



Step 6: Utilize XProtect Smart Client

If you succeed in integration with Milestone with BioStar2, you can monitor real-time video, identify the detected alarm from the door, access to BioStar 2 and check the event logs displayed in BioStar 2 by utilizing XProtect Smart Client.



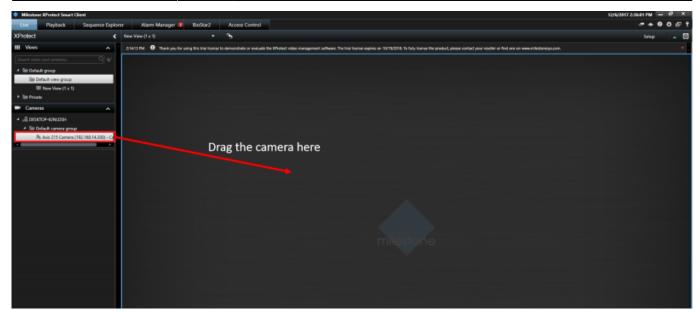
- Live
- Alarm Manager
- BioStar2
- Access Control

Major Features

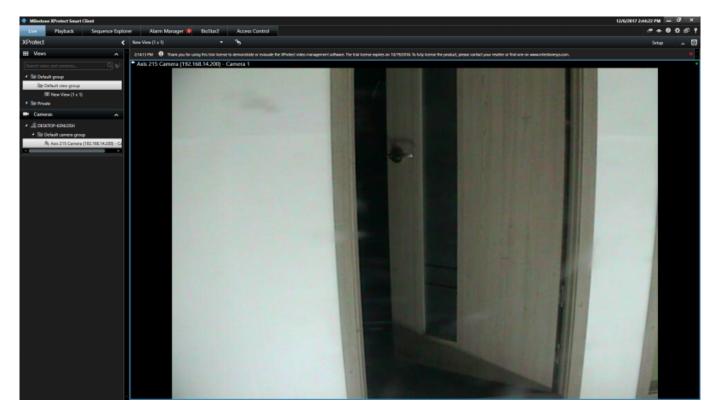
Feature 1: Live

In Milestone XProtect Smart Client, you can monitor real-time video recorded by IP camera. After you select the camera you associated in Milestone XProtect management, drag it into the right panel.

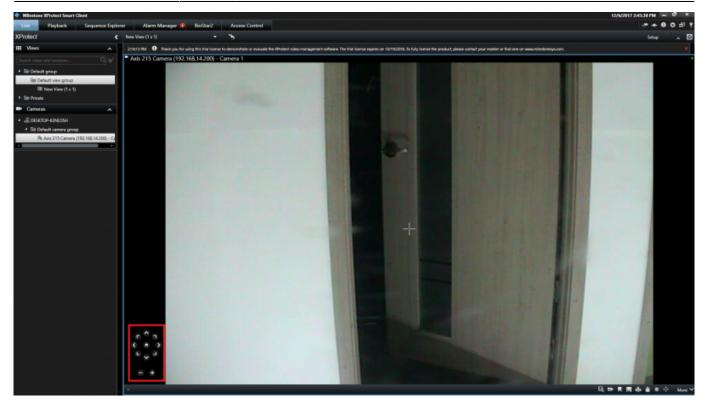
How to utilize BioStar 2 integrating with Milestone



Then, you can see the real-time video recorded by IP camera.

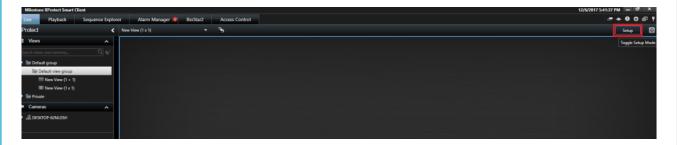


In addition, you can adjust direction or zoom in/out by clicking the icon located in left-bottom side.



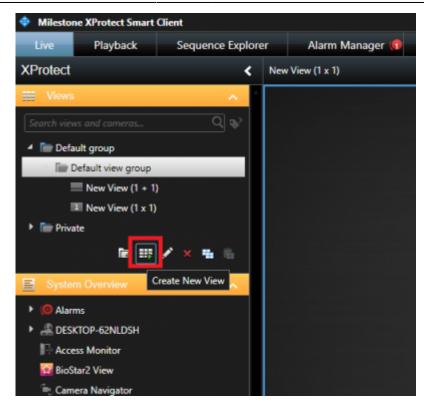
You can customize the View in Live tab.

For example, if you want to monitor video and check the information on users who authenticate their identity with PIN/Fingerprint template at the same time, click **Setup** button.



Then, you can see various options you can configure. First of all, click **Create New View** icon.

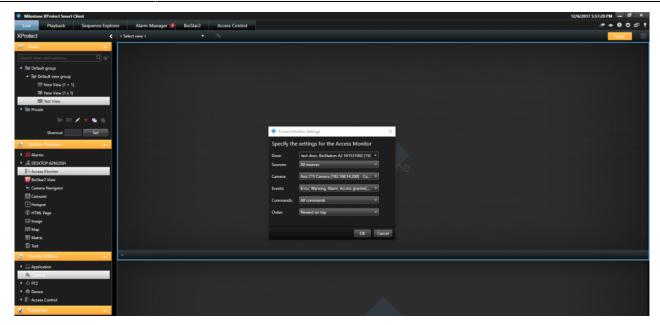
22/30



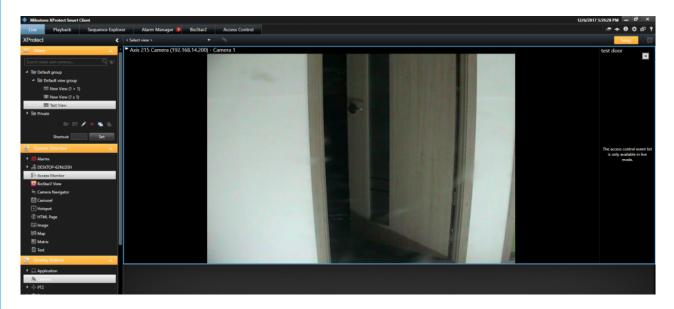
After that, you can select one option you want to customize in the view. By clicking the icon shaped pencil, you can modify the name. Then, Click **Set** button.

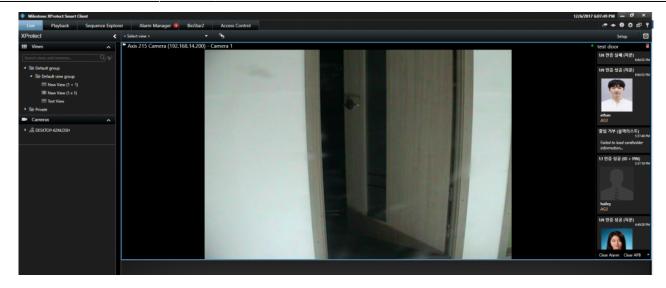
Live	Plauback			Alarm Manager (RigSte
_	Playback	Sequence Explo		Alarm Manager 📢	BioStar
KProtect		<	Ne	w View (1 x 1)	
E Views		~			
		Q 🔊			
4 📄 Defau	ilt group				
in De	efault view group				
-	New View (1 + 1	1)			
ш	New View (1 x 1)			
🕨 🛅 Privat	e				
	Ter #1	A	<u> </u>		
		43	<u> </u>		
System	Overview	4:3 Portrait	•	1+1	
🕨 🌔 Alarm	IS	16:9		1+1*	
DESK	TOP-62NLDSH	16:9 Portrait		1x2	
Acces	s Monitor			2 x 1	
😭 BioSta	ar2 View				
🚔 Came	ra Navigator				
Carou	isel				
Hotsp	ot			4x1	
🕀 нтмі	. Page			1+1+4	
🖃 Image	2			1+5	
間 Map			≣	≣ 2x3	
Matri	x			li 1+7	
🗄 Text			в	3 x 3	
Overlay	/ Buttons	~		2 + 8	
Appli	cation			6 1+11	
 A Came 				2 + 10	
► PTZ			10	6 4x4	
 Device 	e				
Acces			2	4 4 x 6	
			2		
Proper	ners	~	В	6x6	
	No properties av	ailable.		7 x 7	
	no properties av			8 x 8	
				10 x 10	
			_		

Next, drag **Access Monitor** in **System Overview**. In the Access Monitor Settings, you should specify the settings for the Access Monitor and click **OK** button.

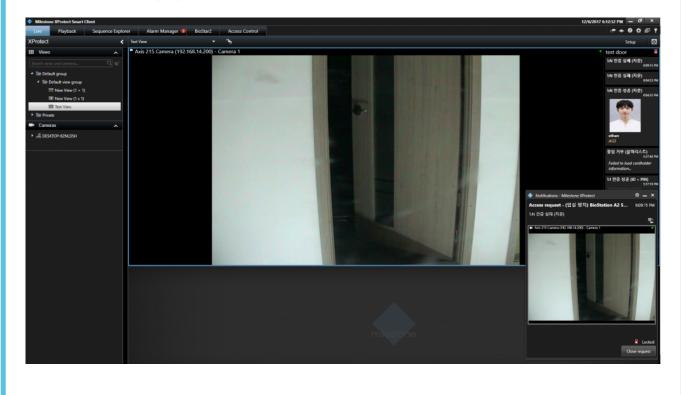


Once you click OK button, you can see the customized view. Please note that you should click Setup button again to escape the setting of View. If you see below screenshot, you can monitor video and the information on users who authenticate their identity to enter the door simultaneously.





If someone fails to authenticate their identity, the notification will be displayed in the rightbottom side and display the real-time video.



Feature 2: Alarm Manager

If an alarm occurs in BioStar 2, the alarm message will be generated in Milestone.

BioStar 2:

2021/05	5/11 08:44 26/30	How to utilize BioStar 2 integrating with Milestone
BioStar	2 🛞 Setting () About (?) Help	
DASH BOARD	Dashboard	
A USER		
	January 2017 ~ December 2017	
DOOR	8	Access denied (Blacklist) ×
	6	• User 134205897
© ZONE	2 JAN FEB MAR APP MAY	Device BioStation A2 541531003 (192.168.14.207) Alarm Access denied (Blacklist) SEP OCT
(+) ACCESS CONTROL		• Date 2017/12/07 11:18:30
_	Usage	Comment
		tures of BioStar 2.5
		ice supported from BioStar 2.5 Acknowledge Ignore I
() TIME ATTENDANCE	User Fingerprint Face Card Device Door 2 5 0 3 3/1000 1/1000	8/1009 1
ATTENDANCE	Alarm Monitor	

Milestone:

2021/05/11 08.44

26/30

Milestone XProtect Smart Clie	ent					그는 말 같은 것 같은 것 같아요.									12/7/2017 1	1:17:58 AM	- 0	×
Live Playback	Sequence Explorer	Alarm Mana	iger 💋	BioStar2	Access Control											e + 1	90:	p 🕈
																Setup		
105441 AM B Thank you for usit	ing this trial license to demonstra	te or exaluate the 3	Ovolect video e	anagement soft	ware. The trial license emires or	10/19/2018. To fully license the product, pil	ease co	ontact your reseller or find one on we	en milestonesis com.									×
								Axis 215 Camera (192.1		mera 1 - 1	12/7/2017 11	-13-39.93	3 AM					
								Axis 215 Camera (1921)	68.14.200 C 3		12/1/2017	# F# 54.5	3 AM			Map Over	Victor -	
								18:50 AM	11.00 AM	-	12/7/20		:13:40.159 AM	11 ⊨	1130 AM			
Quick Filters T New (2)		Priority Level		State Name			Owner									Rep		
T in progress (0)	10.56.56 AM 12/7/20		1	New	홍입 거부 (봉택리스트)	(입설 장지) BioStation A2 5		5										
T On hold (0)	5:37:48 PM 12/6/2012		1	New	홍입 거부 (봉맥리스트)	(땁실 잠지) BioStation A2 5		4										
T Closed (0)																		

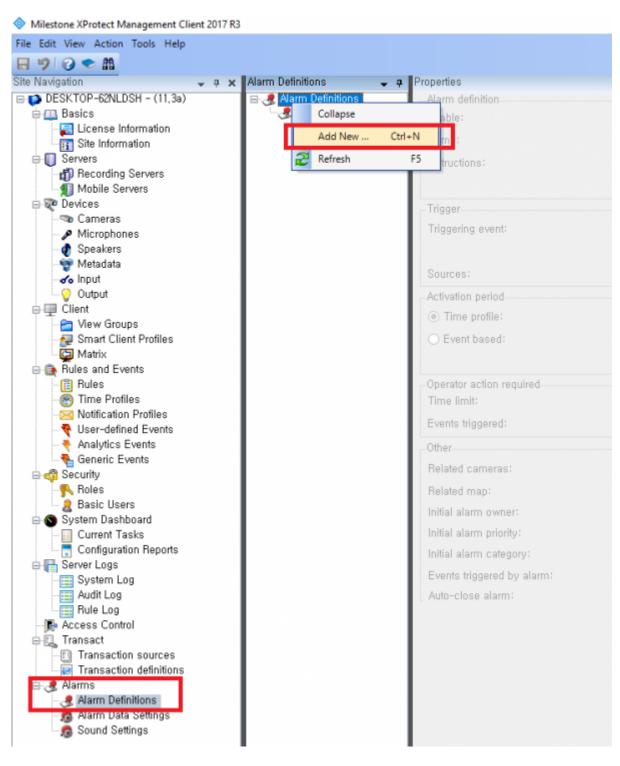
In Milestone, Alarm Manager will judge if generated event should be dealt with alarm based on Access Control Events tab and Alarm Definitions.

[How to configure the alarm]

This setting is required to view or acknowledge the access control event alarms of BioStar 2 in XProtect Smart Client. The alarm can be set in Setting menu of BioStar 2 and if the event alarm happens, XProtect Smart Client displays the alarm in Alarm Manager.

- http://kb.supremainc.com/knowledge/

Go to Alarms in the Site Navigation and select **Alarm Definitions**. Then, right click **Alarm Definitions** and click **Add New**.



Enter Name in Alarm definition section.

Select Access Control Event Categories and one of Events you want to set in Trigger section. In below picture, I selected Alarm.

Selet one option for **Sources** in **Trigger** section. In below picture, I selected **All doors**.

Alarm Definitions 🚽 🚽	# Properties		
Alarm Definitions	Alarm definition		
🗶 Alarm Test	Enable:		
	Name:	Alarm Test	
	Instructions:		^
			×
	Trigger		
	Triggering event:	Access Control Event Categories	×
		Alarm	~
	Sources:	All doors	~
	Activation period		
	Time profile:	Always	×
	O Event based:	Start:	Select,
		Stop:	Select
	Operator action required		
	Time limit:	1 minute	×
	Events triggered:		Select,
	Other		
	Related cameras:		Select
	Related map:		v
	Initial alarm owner:		~
	Initial alarm priority:	High	×
	Initial alarm category:		~
	Events triggered by alarm:		Select
	Auto-close alarm:		
4			

At this point, please check Access Control Events which **Alarm** event is allocated. You can map Alarm event to certain Access Control Events. In below picture, I set Alarm event for the Access Control Event, **"Access denied (Blacklist)"**.

Access control events		
Select the events you want to monitor in XProtect Smart Client, U	se categories to simplify the use of triggering events,	
Enabled Access Control Event	Source Type	Event Category
☑ 인종 실패 (시간 초과)	Access Point, Door	Access denied, Access Point, Access request, Zone Related
☑ 인종 실패 (잘못된 인종 모드)	Access Point, Door	Access denied, Access Point, Access request, Zone Related
✓ 인증 실패 (잘못된 크리덴셜)	Access Point, Door	Access denied, Access Point, Access request, Zone Related
☑ 입력 갑지	BioStar2 Terminal	Device Related
☑ 장치 시간 설정	BioStar2 Terminal	Device Related
☑ 장치 시작	BioStar2 Terminal	Device Related
☑ 장치 잡금	BioStar2 Terminal	Device Related
☑ 장치 잠금 해제	BioStar2 Terminal	Device Related
☑ 장치 재설정	BioStar2 Terminal	Device Related
☑ 잘치 재시작	BioStar2 Terminal	Device Related
☑ 장치연결해제 감지	BioStar2 Terminal	Alarm, Device Related
✓ 출입 거부 (기간 만료)	Access Point, Door	Access Point, Alarm, Zone Related
☑ 총입 거부 (블랙리스트)	Access Point, Door	Access Point, Alarm, Zone Related
☑ 율입 거부 (비율깡 사용사)	Access Point, Door	All categories
✓ 총입 거부 (소프트 시간 지정 안티패스벅)	Access Point, Door	
☑ 총입 거부 (소프트 안티패스벽)	Access Point, Door	Access denied
☑ 출입 거부 (스케롤 장금)	Access Point, Door	Access granted
출입 거부 (시간 지정 안티페스백)	Access Point, Door	Access Point
☑ 출입 거부 (얼굴 경출 실패)	Access Point, Door	
✓ 출입 거부 (잘못된 출입 그룹)	Access Point, Door	Access request
✓ 출입 거부 (촬영 실패)	Access Point, Door	✓ Alarm
☑ 출입 거부 (하드 안티패스백)	Access Point, Door	
☑ 출입문 강제 열림	Access Point, Door	Device Related Alarm
☑ 총입문 강제 열림 알람	Access Point, Door	Door Related
☑ 총입문 강제 열림 알람 해제	Access Point, Door	Error
☑ 솔입문 개방	Access Point, Door	
✓ 출입문 닫힌	Access Point, Door	Lift Related
☑ 출입문 안티패스백 알람	Access Point, Door	Test Event Category
✓ 출입문 안티패스백 알람 해제	Access Point, Door	
☑ 출입문 열림	Access Point, Door	Access Point, Door Related
✓ 출입문 잡금	Access Point, Door	Access Point, Door Related
☑ 출입문 장시간 열림	Access Point, Door	Access Point, Alarm, Door Related
✓ 총입문 장시간 열림 알람	Access Point, Door	Access Point, Alarm, Door Related
✓ 출입문 장시간 열림 알람 해제	Access Point, Door	Access Point, Door Related
✓ 침입 감지	Door	Alarm, Zone Related
☑ 침입 경보 상태 해제	Door	Zone Related
☑ 타입존 설정	BioStar2 Terminal	Device Related

Feature 3: BioStar2

In Milestone XProtect Smart Client, you can access to BioStar 2 and add/modify the data (e.g. User, Device, Door) in BioStar 2.

29/30

	XProtect Smart Client			12/6/2017 5:28:14 PM - 01 ×						
Live	Playback Sequence Explorer Alarm Manager	BioStar2 Access Control		r + ♥ Ç mi' Setup [5						
BioStar 2	2 🕲 Setting () About (?) Help			Administrator E Logeot						
C SH B	Dashboard									
A USER				Year Month Week						
	January 2017 ~ December 2017									
	8									
ELEVATOR 20ME	4 2 JAN FEB MAR	APR NAY JUN	JUL AUS SEP OCT	HOV DEC						
ACCESS CONTROL	Usage		Notice	Notice						
	User Fingerprint Fingerprint Fingerprint	Card 9 Core 1000	Few Features of BioStar 2.5 New device supported from BioStar 2.5 FW versions supporting new features and device	e .						
	Alarm Monitor									
	Dute			Alarm						
	2017/12/06 13:17	BioStation A2 541531003 (192.168.14.207)		Device Disconnection Detected						
	2017/12/05 17:57	BioStation A2 541531003 (192.168.14.207)		Device Disconnection Detected						
	2017/12/05 17:56	BioStation A2 541531003 (192.168.14.207)		Held door opened						

Feature 4: Access Control

You can check Events, Doors and Cardholders for BioStar 2 in Milestone.

Milestone XProtect S	mart Client			
Live Playbac	k Sequence Explo	orer Alarm Manage	er 🔞 BioStar2	Access Control
10:54:41 AM 🕕 Thank ;	you for using this trial license to	demonstrate or evaluate the XPro	ptect video management so	software. The trial license expires on 10/19/2018. To fully license the product, please contact your reseller or find one on www.milestonesys.com.
Events Doors	Cardholders	c		
Scarch caranoiders		~		
Today 🔻 All events	✓ All doors ✓			
				Access report
Time 👻	Event	Source	Cardholder	Access report
Time 12/7/2017 11:18:30 AM	Event 출입 거부 (블랙리스트)	Source (입실 장치) BioStation A2 54		Access report
				Access report
12/7/2017 11:18:30 AM	출입 거부 (블랙리스트)	(입실 장치) BioStation A2 54		Access report
12/7/2017 11:18:30 AM 12/7/2017 10:56:56 AM	출입 거부 (블랙리스트) 졸입 거부 (블랙리스트)	(입실 장치) BioStation A2 54 (입실 장치) BioStation A2 54		Access report
12/7/2017 11:18:30 AM 12/7/2017 10:56:56 AM 12/7/2017 10:55:28 AM	출입 거부 (블랙리스트) 출입 거부 (블랙리스트) 출입 거부 (블랙리스트)	(입실 장치) BioStation A2 54 (입실 장치) BioStation A2 54 (입실 장치) BioStation A2 54		Access report
12/7/2017 11:18:30 AM 12/7/2017 10:56:56 AM 12/7/2017 10:55:28 AM 12/7/2017 10:51:18 AM	출입 거부 (블랙리스트) 출입 거부 (블랙리스트) 출입 거부 (블랙리스트) 장치연결해제 감지	(입실 장치) BioStation A2 54 (입실 장치) BioStation A2 54 (입실 장치) BioStation A2 54 (입실 장치) BioStation A2 54 Xpass 53129 (192.168.14.22		Access report
12/7/2017 11:18:30 AM 12/7/2017 10:56:56 AM 12/7/2017 10:55:28 AM 12/7/2017 10:51:18 AM 12/7/2017 10:21:58 AM	출입 거부 (블랙리스트) 출입 거부 (블랙리스트) 출입 거부 (블랙리스트) 장치연결해제 감지 장치연결해제 감지	(임실 장치) BioStation A2 54 (임실 장치) BioStation A2 54 (임실 장치) BioStation A2 54 (임실 장치) BioStation A2 54 Xpass 53129 (192.168.14.22 BioLiteNet 538101268 (192.		
12/7/2017 11:18:30 AM 12/7/2017 10:56:56 AM 12/7/2017 10:55:28 AM 12/7/2017 10:51:18 AM 12/7/2017 10:51:18 AM 12/7/2017 10:21:58 AM 12/7/2017 9:30:48 AM	출입 거부 (블랙리스트) 출입 거부 (블랙리스트) 출입 거부 (블랙리스트) 장지연결해제 감지 장치연결해제 감지 장치 시간 설정	(입실 장치) BioStation A2 54 (입실 장치) BioStation A2 54 (입실 장치) BioStation A2 54 (입실 장치) BioStation A2 54 Xpass 53129 (192.168.14.22 BioLiteNet 538101268 (192. BioLiteNet 538101268 (192.		
12/7/2017 11:18:30 AM 12/7/2017 10:56:56 AM 12/7/2017 10:55:28 AM 12/7/2017 10:51:18 AM 12/7/2017 10:51:18 AM 12/7/2017 10:21:58 AM 12/7/2017 9:30:48 AM	출입 거부 (블랙리스트) 출입 거부 (블랙리스트) 출입 거부 (블랙리스트) 장지연결해제 감지 장치연결해제 감지 장치 시간 설정	(입실 장치) BioStation A2 54 (입실 장치) BioStation A2 54 (입실 장치) BioStation A2 54 (입실 장치) BioStation A2 54 Xpass 53129 (192.168.14.22 BioLiteNet 538101268 (192. BioLiteNet 538101268 (192.		
12/7/2017 11:18:30 AM 12/7/2017 10:56:56 AM 12/7/2017 10:55:28 AM 12/7/2017 10:51:18 AM 12/7/2017 10:51:18 AM 12/7/2017 10:21:58 AM 12/7/2017 9:30:48 AM	출입 거부 (블랙리스트) 출입 거부 (블랙리스트) 출입 거부 (블랙리스트) 장지연결해제 감지 장치연결해제 감지 장치 시간 설정	(입실 장치) BioStation A2 54 (입실 장치) BioStation A2 54 (입실 장치) BioStation A2 54 (입실 장치) BioStation A2 54 Xpass 53129 (192.168.14.22 BioLiteNet 538101268 (192. BioLiteNet 538101268 (192.		
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You can also create the PDF report for Event records by clicking **Access report** button.

Milestone XProtect Smart Client											
Live	Playback	sequence Explo	orer Alarm Mana	ger 🔞	BioStar2	Access Control					
1:55:29 PM 🕕 Thank you for using this trial license to demonstrate or evaluate the XProtect video management software. The trial license expires on 10/19/2018. To fully license the product, please contact your reseller or find one on www.milestonesys.com.											
Events Doors Cardholders Search cardholders Q Today * All events * All doors *											
											Access report
Time 👻		Event	Source	Cardho	older						
12/7/2017 1:4	14:00 PM	출입문 장금	test door								
12/7/2017 1:4	13:57 PM	출입문 개방	test door								
12/7/2017 1:4	3:57 PM	1:N 인증 성공 (지문)	(입실 장치) BioStation A2	54 kate							
12/7/2017 1:2	6:28 PM	Server connected	BioStar2 System								

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Permanent link: http://kb.supremainc.com/knowledge/doku.php?id=en:how_to_integrate_milestone_with_biostar_2&rev=1512637369

Last update: 2017/12/07 18:02