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 **Fix Me!** このページはまだ完全には、翻訳されません。翻訳の完了を支援して下さい。  
(翻訳が完了したらこの段落を削除して下さい)

[System Configuration](#), [BioStar 2](#), [Milestone](#)

## BioStar2とMilestoneの統合を利用する方法

### 手順の概要

1. BioStar 2をインストールします。
2. Milestone XProtect VMSの1つをインストールします (professionalライセンス以上が必要)
3. MilestoneXProtect用のBioStar2統合をインストールします。



AC Plugin for BioStar2



WorkspacePluginforBioStar2

4. Milestone XProtectVMSにIPカメラを追加します。
5. マイルストーンをBioStar2に接続するための新しいアクセスコントロールを作成します。
6. XProtect Smart Clientを利用します。

MilestoneをBioStar2と統合する前に、以下の前提条件を確認してください。

- ・ Milestone XProtect VMSのいずれかをインストールする必要があります。
  - XProtect Professional 2017 R2
  - XProtect Professional+ 2017 R2
  - XProtect Expert 2017 R2
  - XProtect Corporate 2017 R2
- ・ BioStar 2.4.1以上のバージョンのインストールが必要です。
- ・ XProtectProfessional以降のバージョンのマイルストーンライセンスが必要です。
- ・ XProtect VMSとBioStar2を先にインストールする必要があります。
- ・ BioStar2のすべてのアクセスコントロール設定を完了する必要があります。
- ・ システム要求
  - CPU: 4GHz Quad Core
  - RAM: 最小10GB
  - ハードディスク容量 : 最小1TBのハードディスク空き容量
  - OS:
    - Microsoft® Windows® 10 Pro(64 bit)\*
    - Microsoft Windows 10 Enterprise (64bit)\*
    - 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 (64-bit):Standard

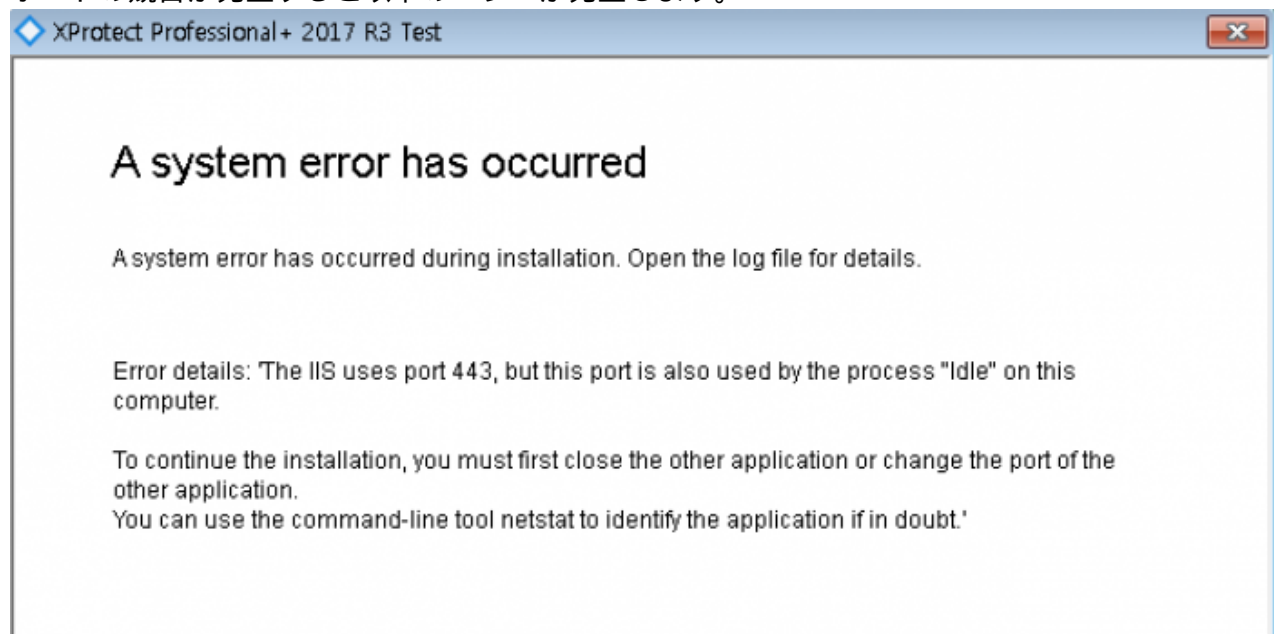
- その他: Microsoft.NET 4.5.1 Framework

## ステップ 1: BioStar 2をインストール

以下のリンクにてインストールしてください。

<https://www.supremainc.com/jp/support/biostar-2-package.asp>

BioStar 2にポート番号443および9000を使用する場合は、他の番号に変更する必要があります。  
XProtect Management Client 2017 R3のポートと衝突するためです。  
ポートの競合が発生すると以下のエラーが発生します。

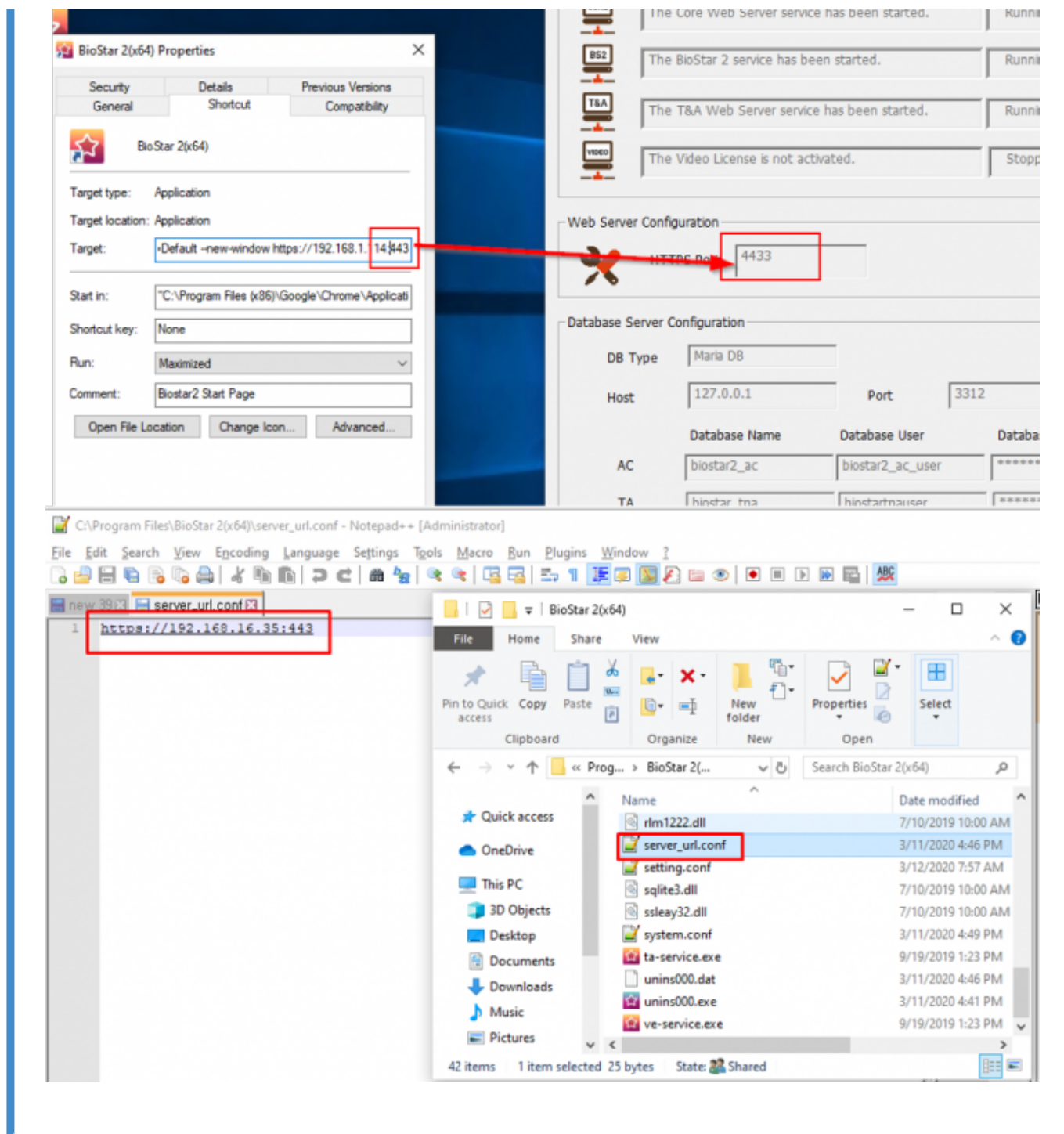


したがって、BioStar2のhttpsおよび9000ポートを変更することをお勧めします。

ポート変更後、BioStar2のショートカットの設定も変更してください。

C:\Program Files\BioStar

2(x64)の「server\_url.conf」のHTTPSのポート番号も手動で更新してください。



## ステップ 2: Milestone XProtect VMSをインストール (プロフェッショナルライセンス以上)

Milestone XProtect VMSのインストールファイルは、以下のリンクからダウンロードできます。

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

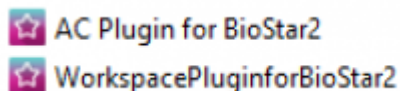
インストール中に、マイルストーンのライセンスをアクティブする必要があります。



## ステップ 3: Milestone XProject用のBioStar2統合をインストール

以下の2つのインストールファイルをインストールする必要があります。

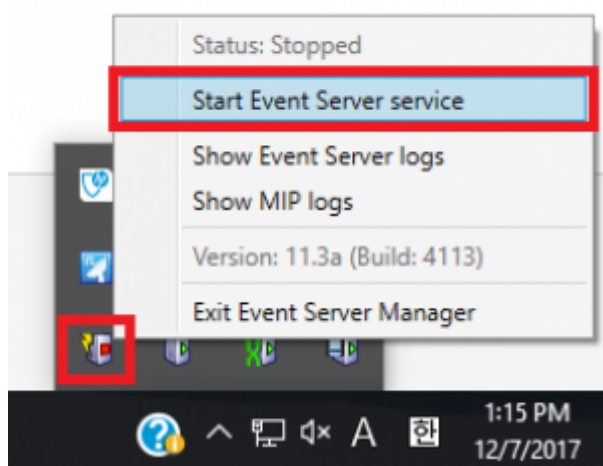
[https://www.supremainc.com/en/solutions/suprema-integration-milestone.asp?sKIND\\_TYPE=GD01501](https://www.supremainc.com/en/solutions/suprema-integration-milestone.asp?sKIND_TYPE=GD01501)



- AC Plugin for  
BioStar2.exeはアクセスコントロールシステムとXProtectVMSを接続するために使用されます。
- WorkspacePluginforBioStar2.exeはXProtectスマートクライアントでBioStar2を使用するための機能を提供します。

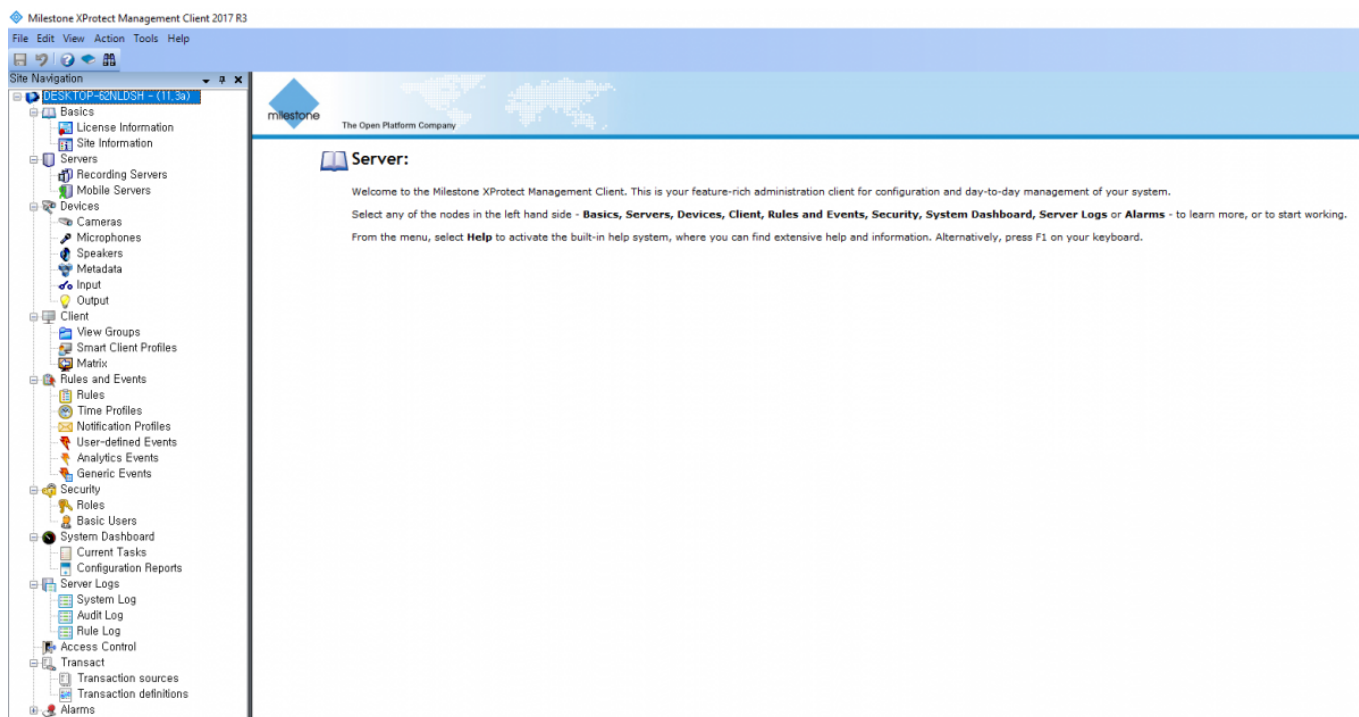
インストールするには、BioStar2 Integration for MilestoneXProtectセットアップガイドを参照してください。

2つのアプリケーションのインストールに成功したら、Milestone XProtectイベントサーバーを手動で起動します。  
システムトレイにあり、下のアイコンを右クリックします。



## ステップ 4: Milestone XProtectVMSにIPカメラを追加

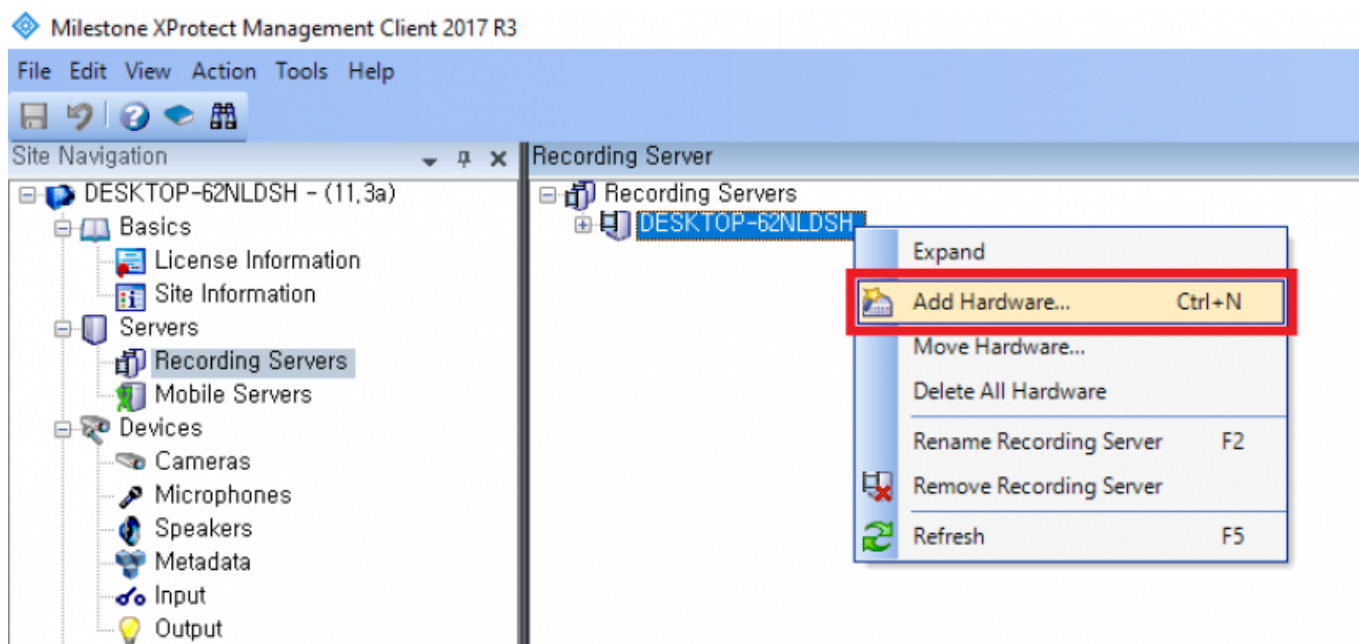
XProtect Management Client 2017 R3を実行してPCに接続すると、次の画面が表示されます。



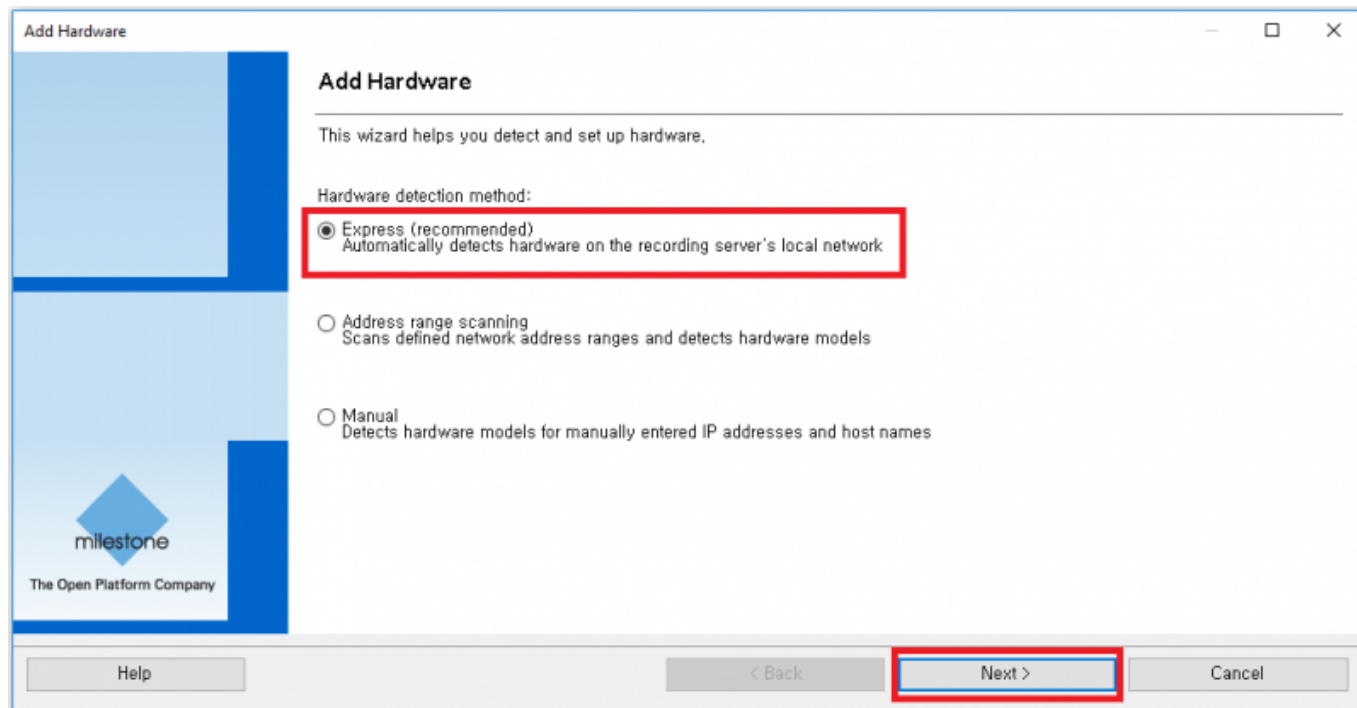
IPカメラを準備します。

**Servers > Recording Servers**に移動します。

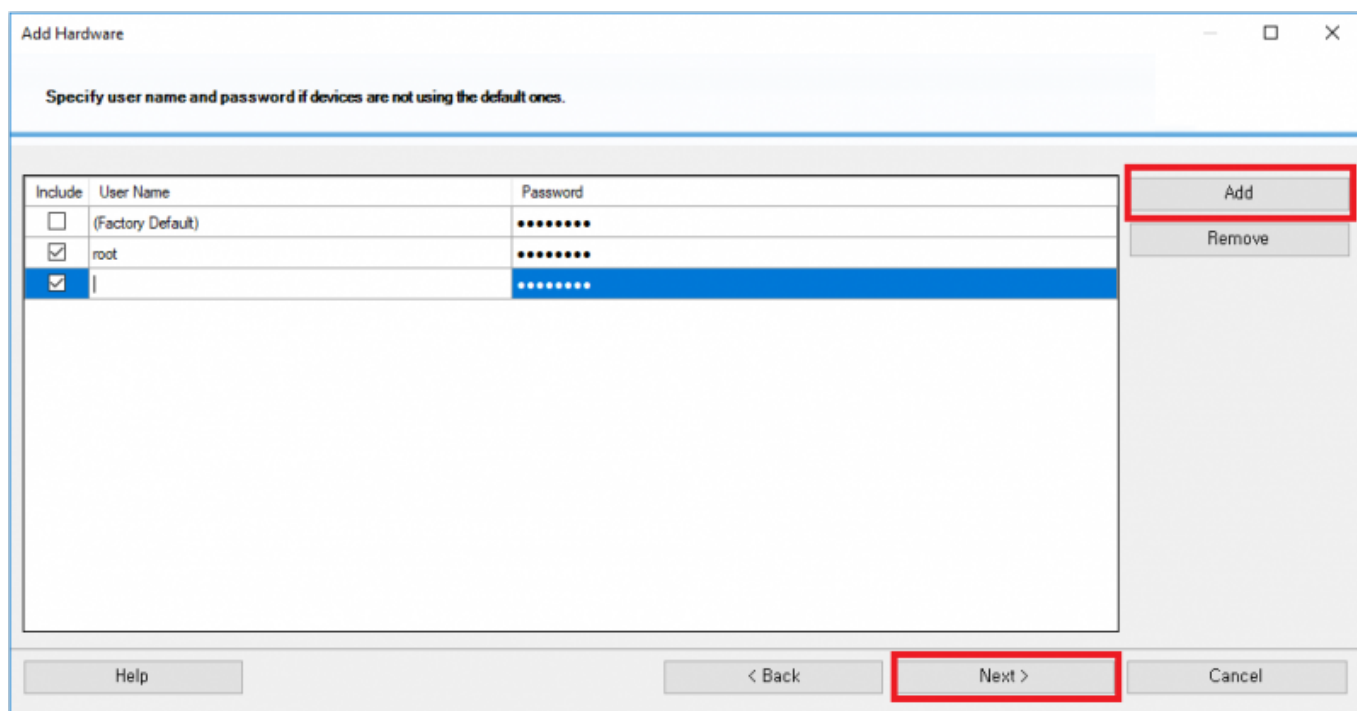
**Recording Servers**の1つを右クリックし**Add Hardware**をクリックします。



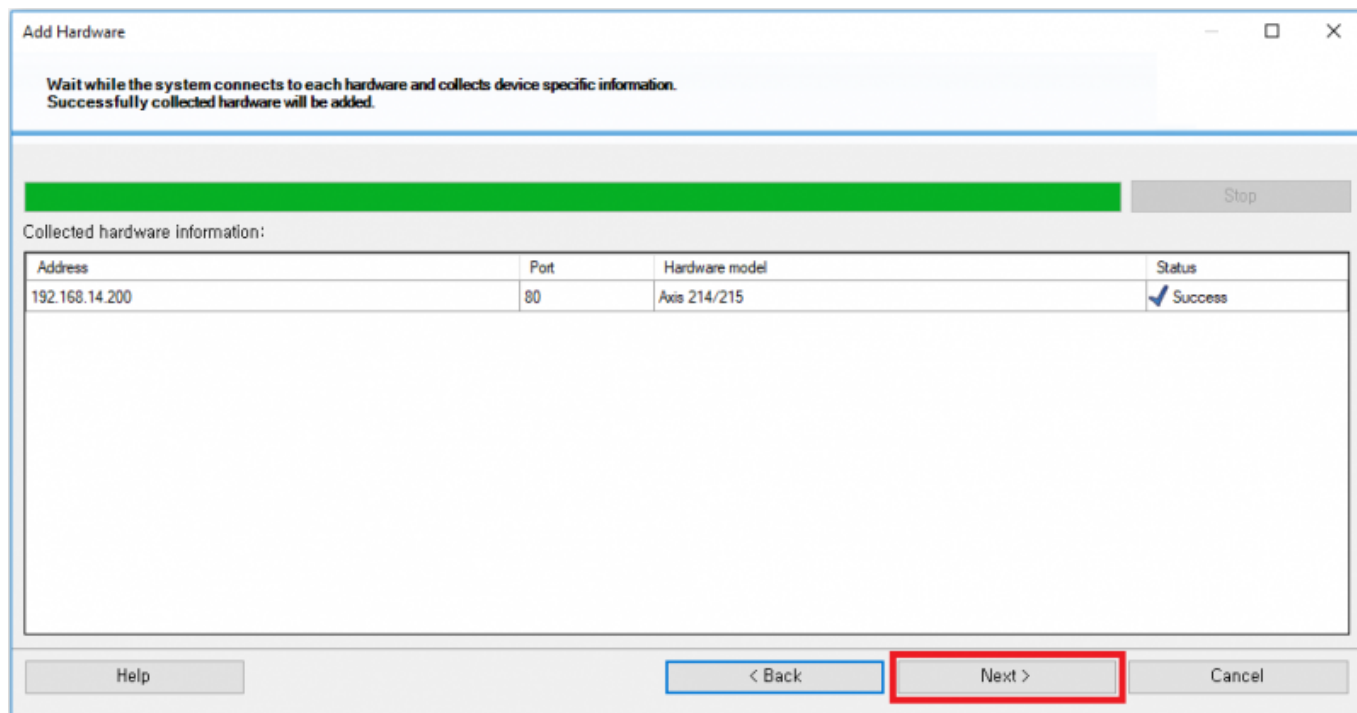
**Express (recommended)**を選択し**Next**ボタンをクリックします。



**Add**をクリックし新しいユーザーを追加します。IPカメラのユーザー名とパスワードを入力します。  
**Next**ボタンをクリックします。



情報が正しければ、利用可能なカメラが見つかります。IPカメラを追加するには、**Next** ボタンをクリックします。

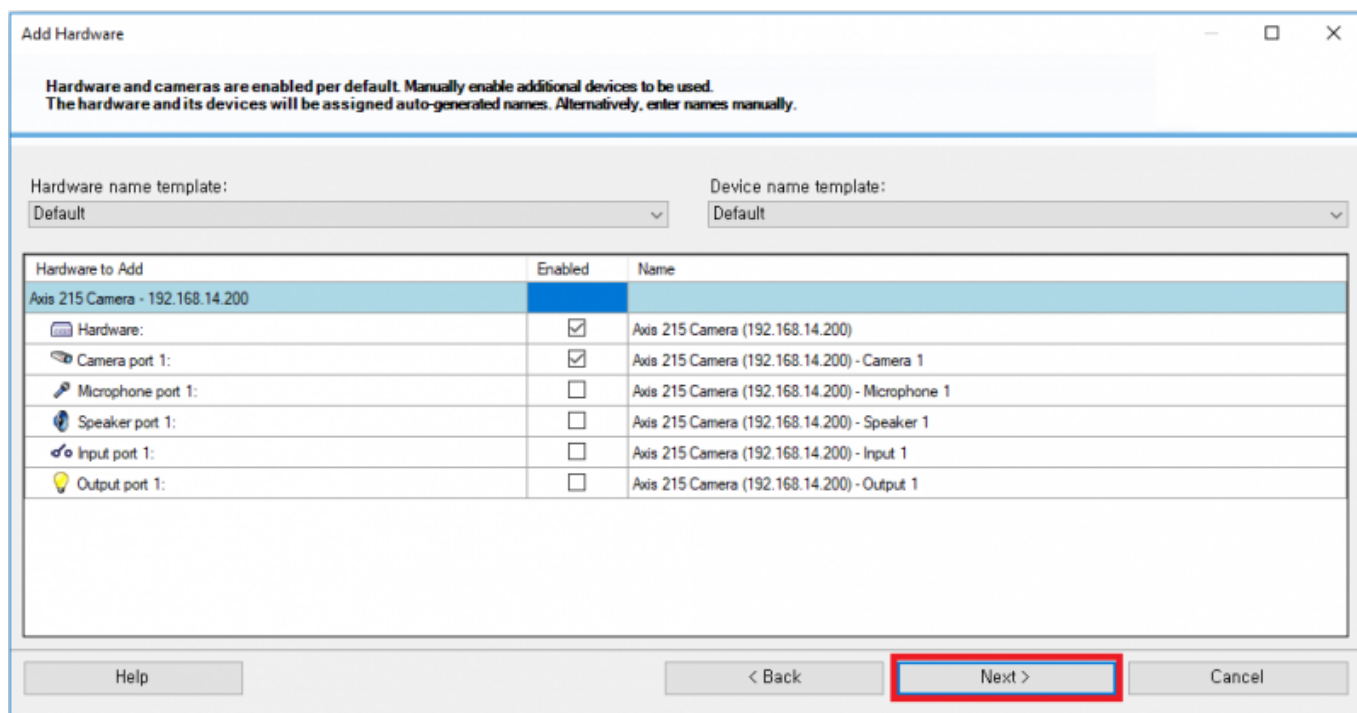


The screenshot shows the 'Add Hardware' window. At the top, a message states: 'Wait while the system connects to each hardware and collects device specific information. Successfully collected hardware will be added.' Below this is a green progress bar and a 'Stop' button. The 'Collected hardware information:' section contains a table with the following data:

Address	Port	Hardware model	Status
192.168.14.200	80	Axis 214/215	✓ Success

At the bottom, there are buttons for 'Help', '< Back', 'Next >' (highlighted with a red box), and 'Cancel'.

**Next**ボタンをクリックします。

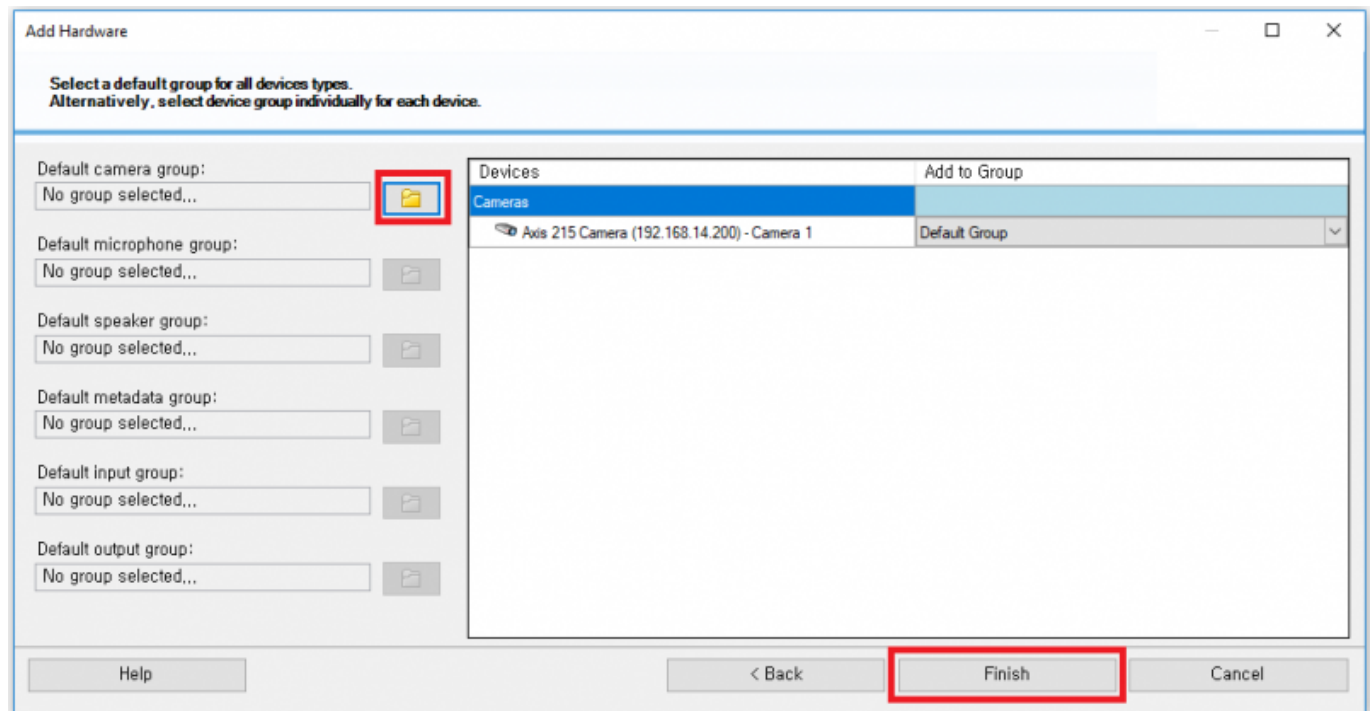


The screenshot shows the 'Add Hardware' window after clicking 'Next'. It displays configuration options for the hardware. At the top, there are dropdown menus for 'Hardware name template:' (set to 'Default') and 'Device name template:' (set to 'Default'). Below these is a table with the following data:

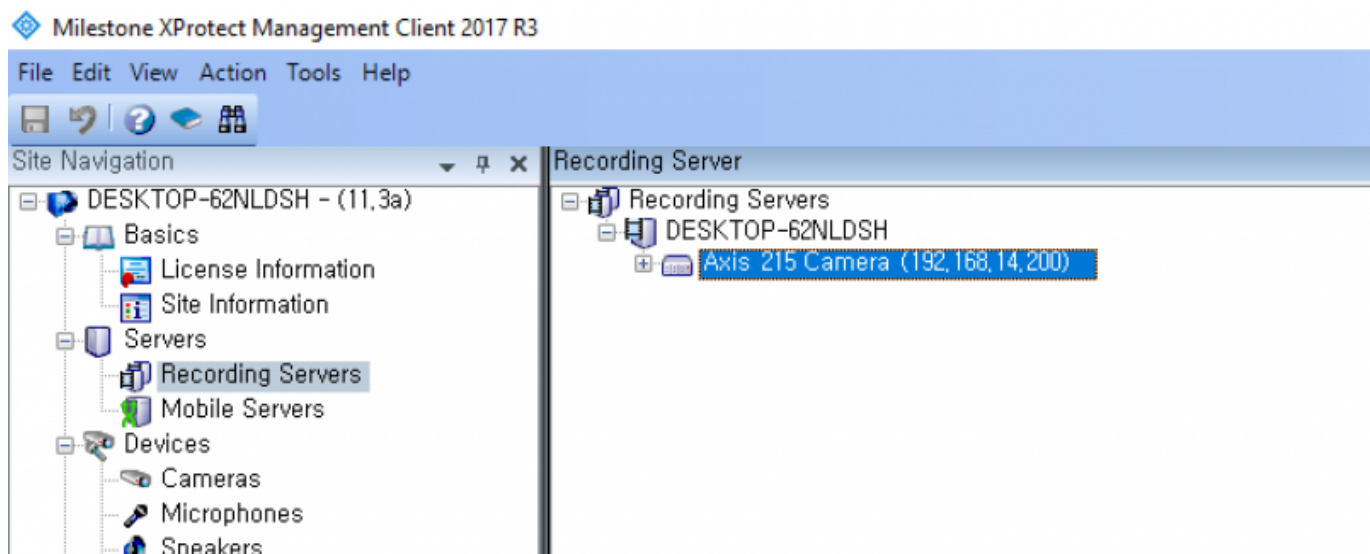
Hardware to Add	Enabled	Name
Axis 215 Camera - 192.168.14.200	<input checked="" type="checkbox"/>	
Hardware:	<input checked="" type="checkbox"/>	Axis 215 Camera (192.168.14.200)
Camera port 1:	<input checked="" type="checkbox"/>	Axis 215 Camera (192.168.14.200) - Camera 1
Microphone port 1:	<input type="checkbox"/>	Axis 215 Camera (192.168.14.200) - Microphone 1
Speaker port 1:	<input type="checkbox"/>	Axis 215 Camera (192.168.14.200) - Speaker 1
Input port 1:	<input type="checkbox"/>	Axis 215 Camera (192.168.14.200) - Input 1
Output port 1:	<input type="checkbox"/>	Axis 215 Camera (192.168.14.200) - Output 1

At the bottom, there are buttons for 'Help', '< Back', 'Next >' (highlighted with a red box), and 'Cancel'.

フォルダアイコンをクリックして、デフォルトのカメラグループを1つ選択します。 **Finish** ボタンをクリックします。



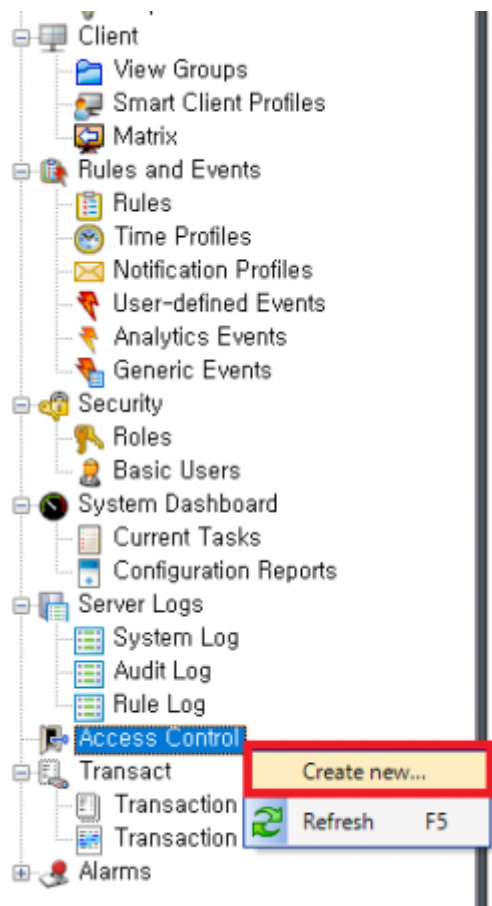
IPカメラの追加に成功すると、Recording Serversのツリーにカメラが表示されます。



## ステップ

### 5 : マイルストーンをBioStar2に接続するため新しいアクセスコントロールを作成

**Access Control**を右クリックし**Create new**を選択します。



すべての項目を入力してください。

- Name : アクセスコントロールの名称を入力します。
- Integration plug-in : **BioStar2 Server**を選択します。
- Address : BioStar 2にアクセスするためのURLを入力してください (ポート番号を含む)
- User : BioStar 2のログインID
- Password : BioStar 2のパスワード

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:

Integration plug-in:

Address:

User:

Password:

Use HTTP encryption: ☐

Next Cancel

The image shows the 'BioStar Setting' window. It has three main sections: 'Service Status', 'Web Server Configuration', and 'Database Server Configuration'.

**Service Status:** This section contains four rows of service status information. Each row has an icon, a status message, a 'Running' button, and a 'Stop' button.

Service	Status Message	Running	Stop
CORE	The Core Web Server service has been started.	Running	Stop
BS2	The BioStar 2 service has been started.	Running	Stop
T&A	The T&A Web Server service has been started.	Running	Stop
VIDEO	The Video Server service has been started.	Running	Stop

**Web Server Configuration:** This section contains a 'Wrench and Screwdriver' icon and a label 'HTTPS Port' followed by a text box containing the value '456'.

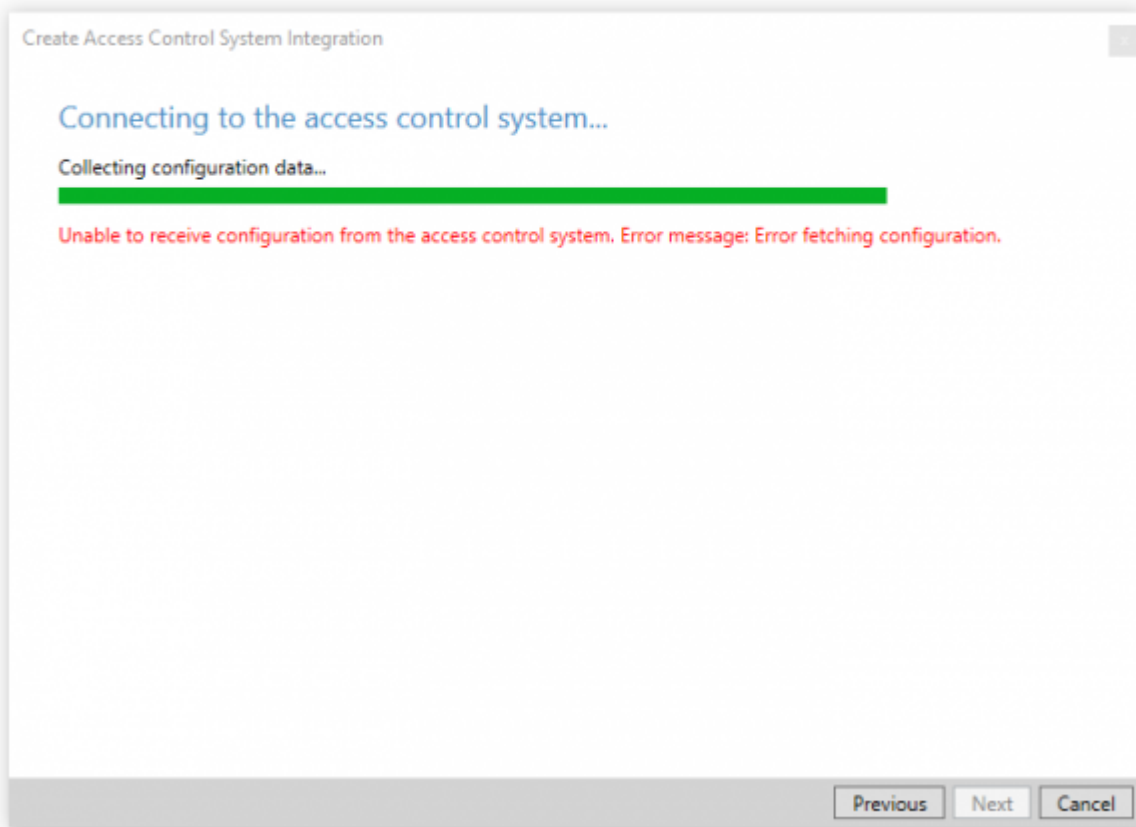
**Database Server Configuration:** This section contains a table for database configuration. The table has columns for 'DB Type', 'Host', 'Port', 'Database Name', 'Database User', and 'Database Password'.

DB Type	Host	Port	Database Name	Database User	Database Password
Maria DB	127.0.0.1	3312			
AC			biostar2_ac	biostar2_ac_user	*****
TA			biostar_tna	biostartnauser	*****
Video			biostar_ve	biostarveuser	*****

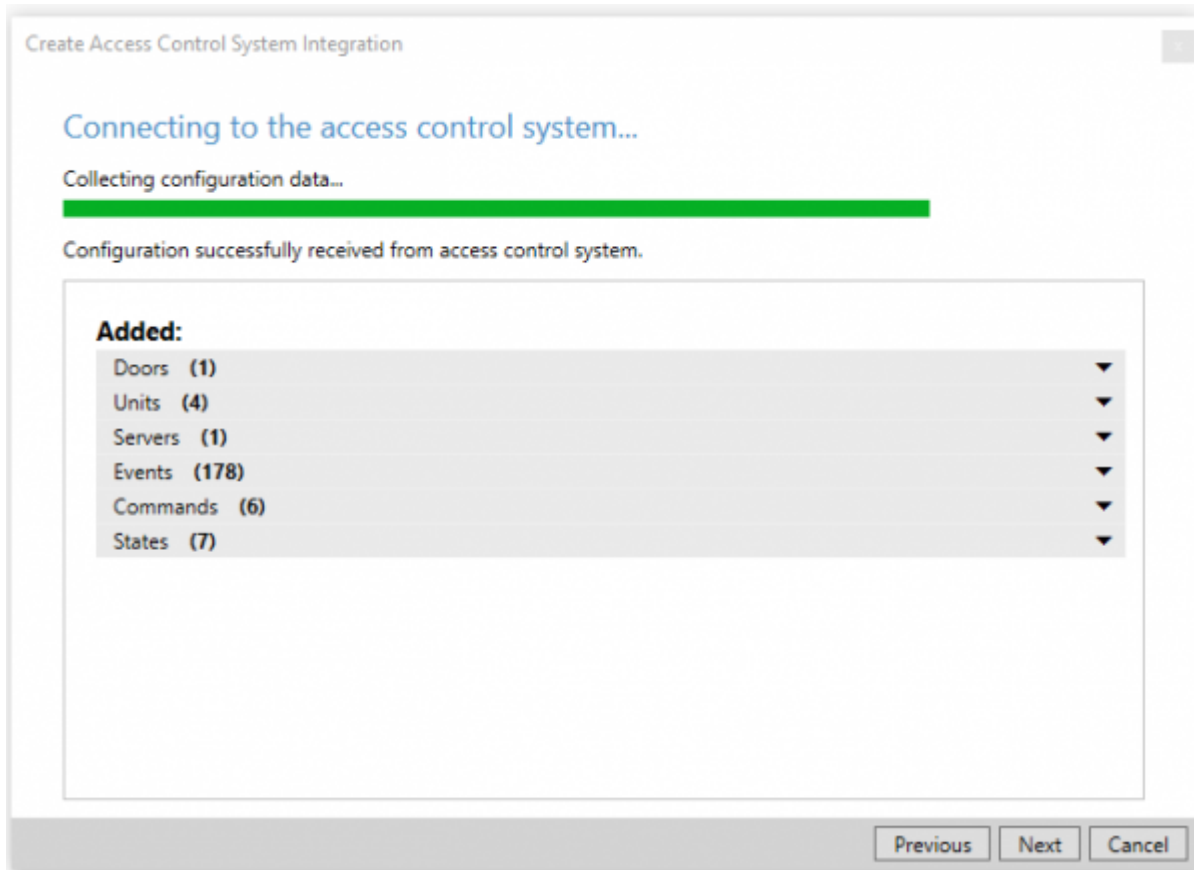
At the bottom of the 'Database Server Configuration' section, there are two buttons: 'Test Connection' and 'Save'.

アクセスコントロールシステム（BioStar 2 AC）に接続できない場合、以下のエラーが発生します。すべての設定が正しいか確認してください。



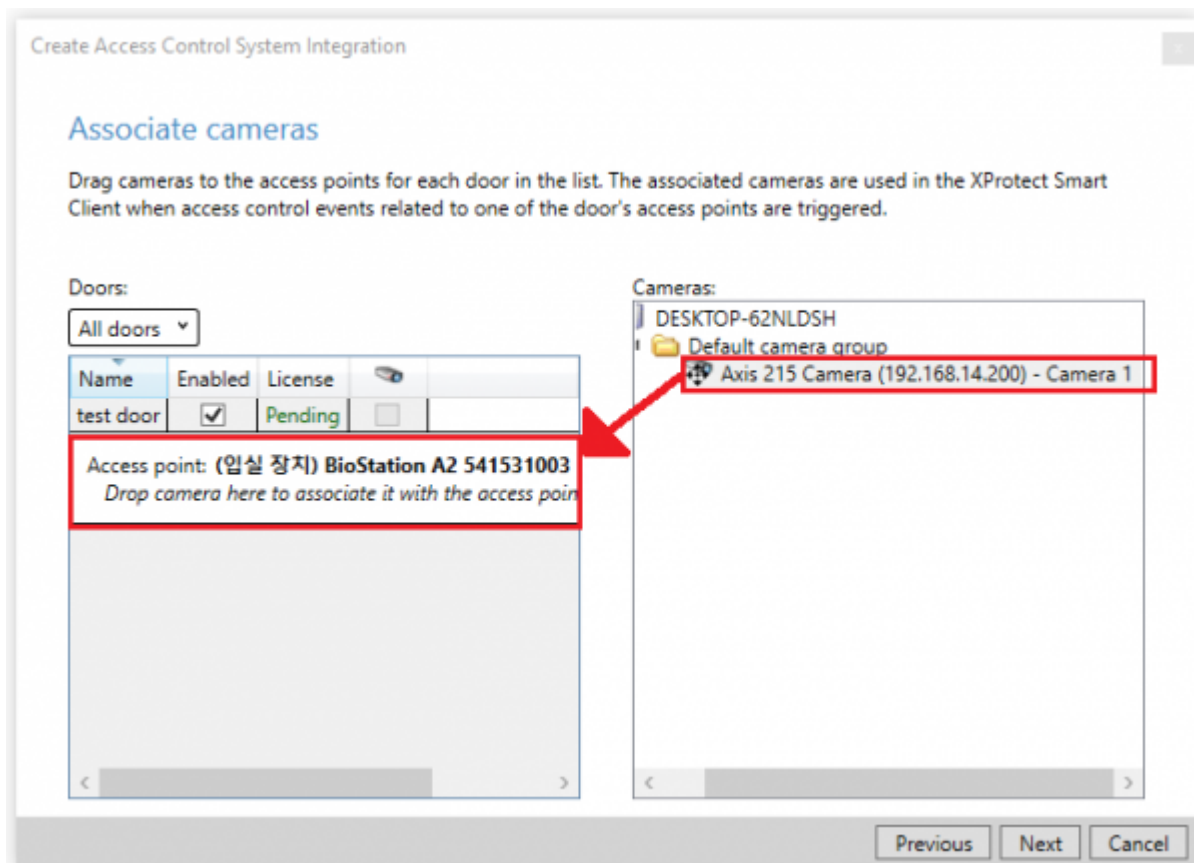


If you succeed in connection to the access control system (BioStar 2 AC), you can see below picture.

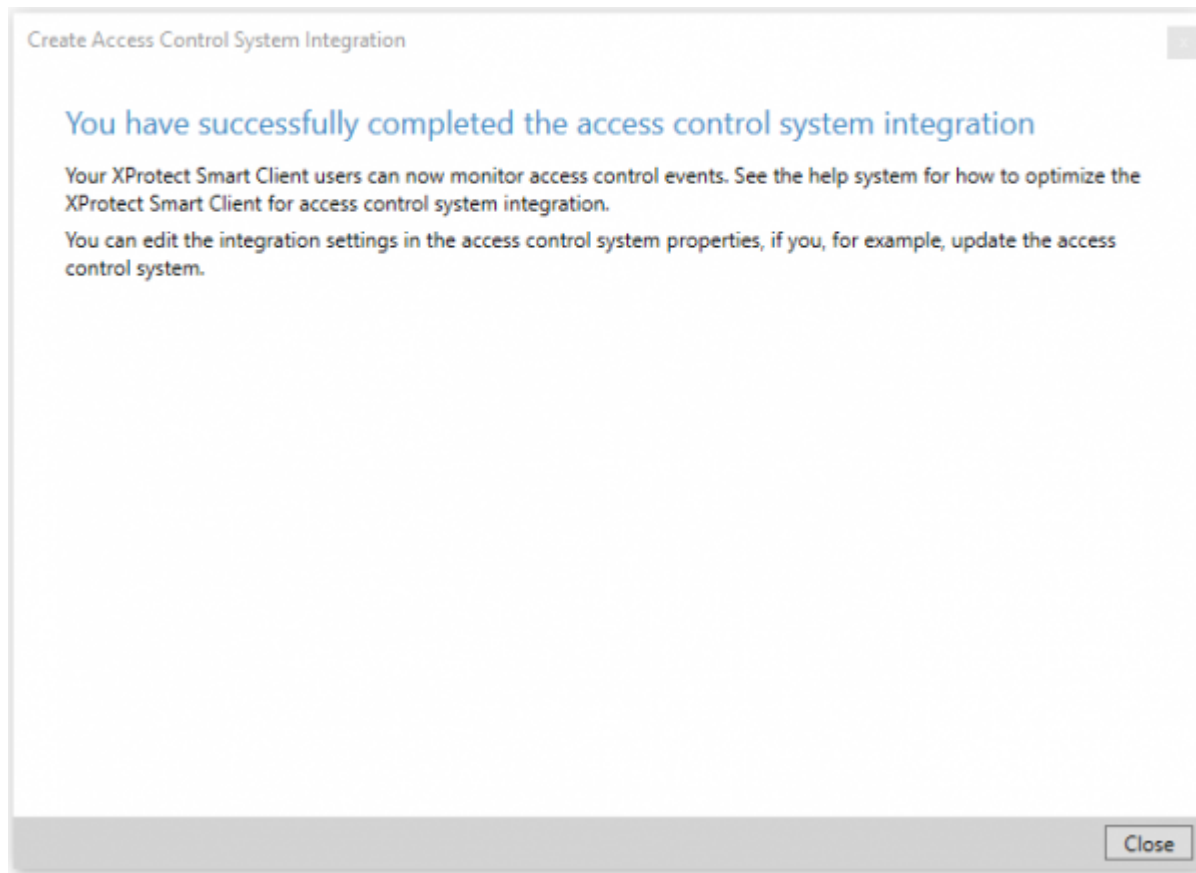


If BioStar 2 connected to Milestone successfully, the below screen will appear.

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.



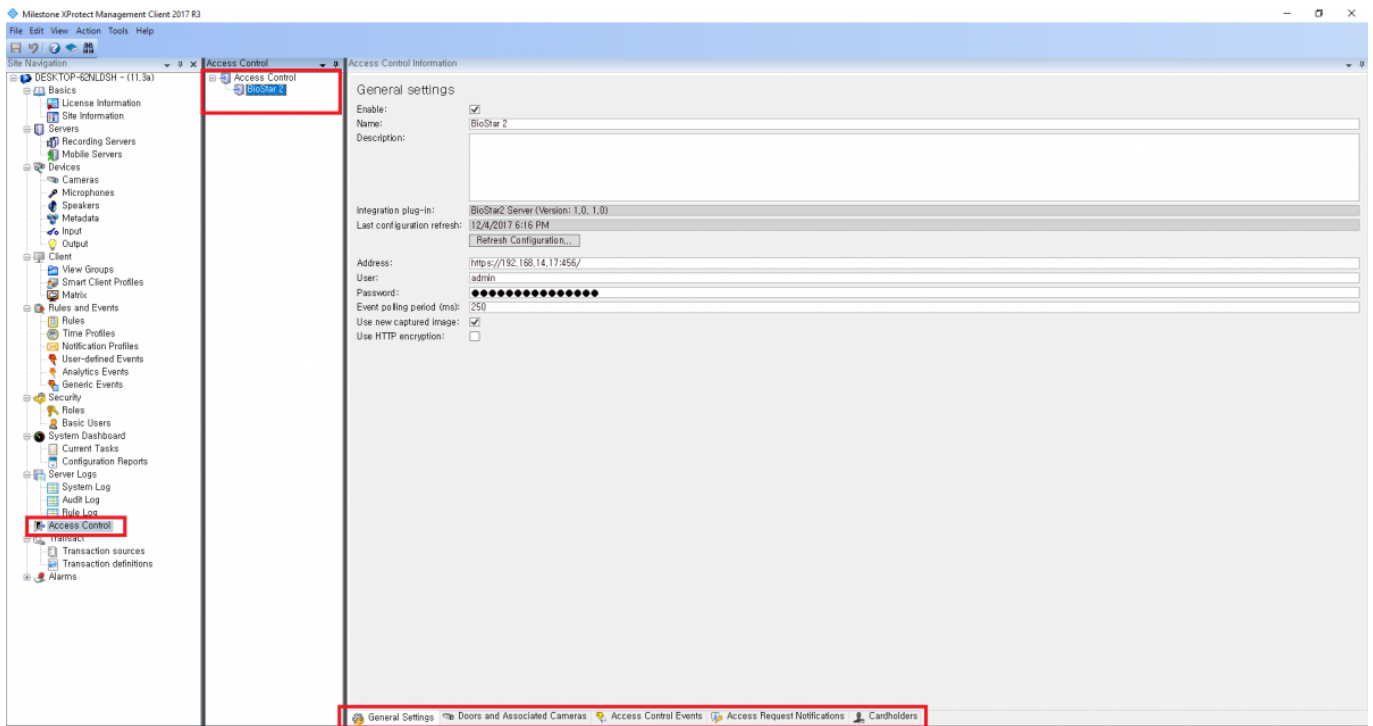
If you succeeded in integrate Milestone with BioStar2 with IP camera, you can see below picture.



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.

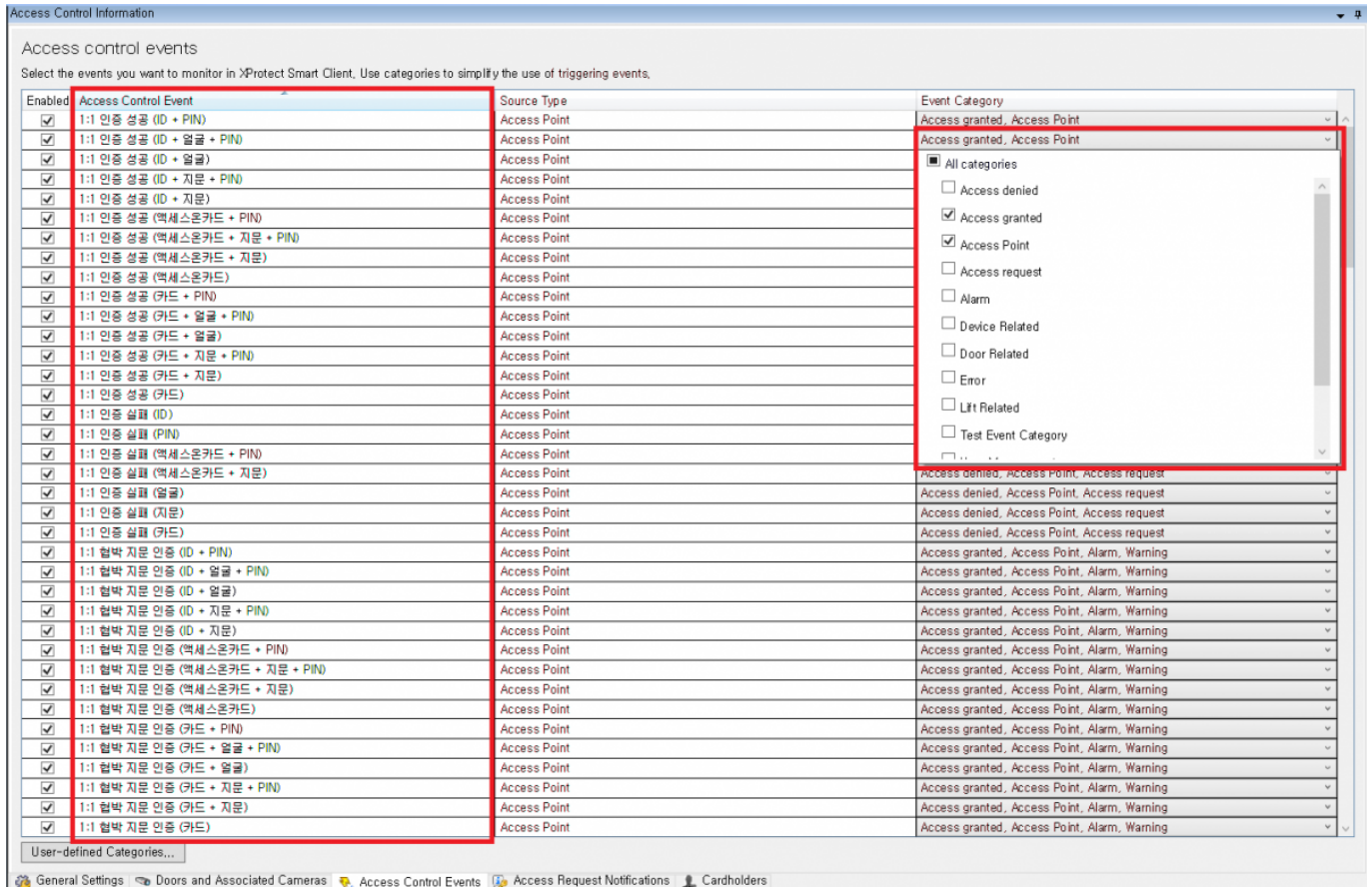


- **General Settings:** You can update the access control system name, network settings and login information.
- **Doors and Associated Cameras:** You can associate the cameras with access points.
- **Access Control Events:** You can activate or deactivate the access control event from BioStar 2, also 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.

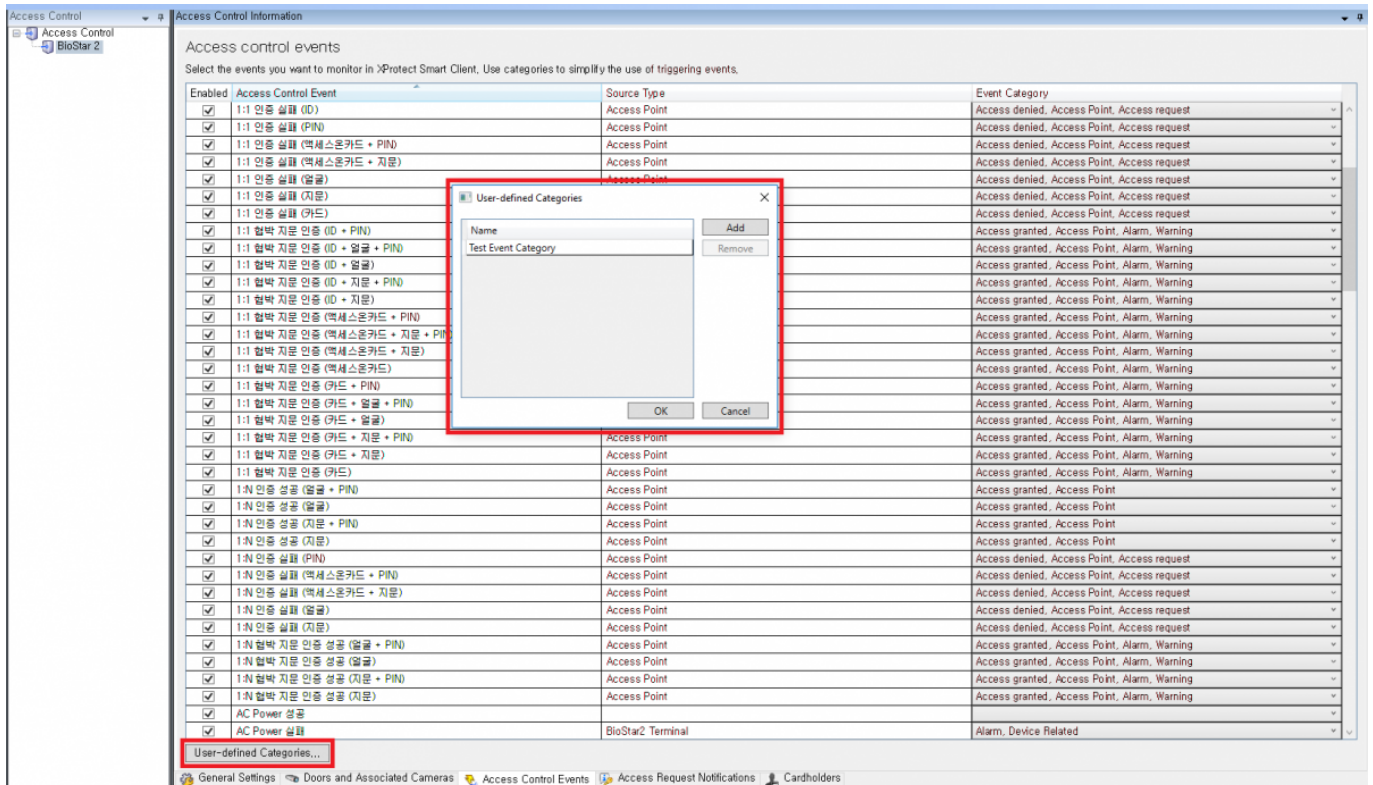
## Major Features

### 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.



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

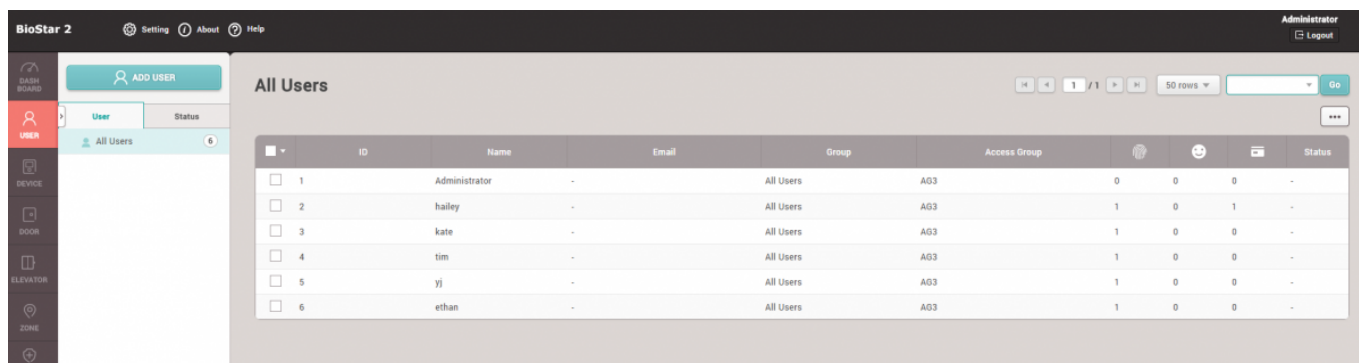


## Feature 2: Cardholders

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

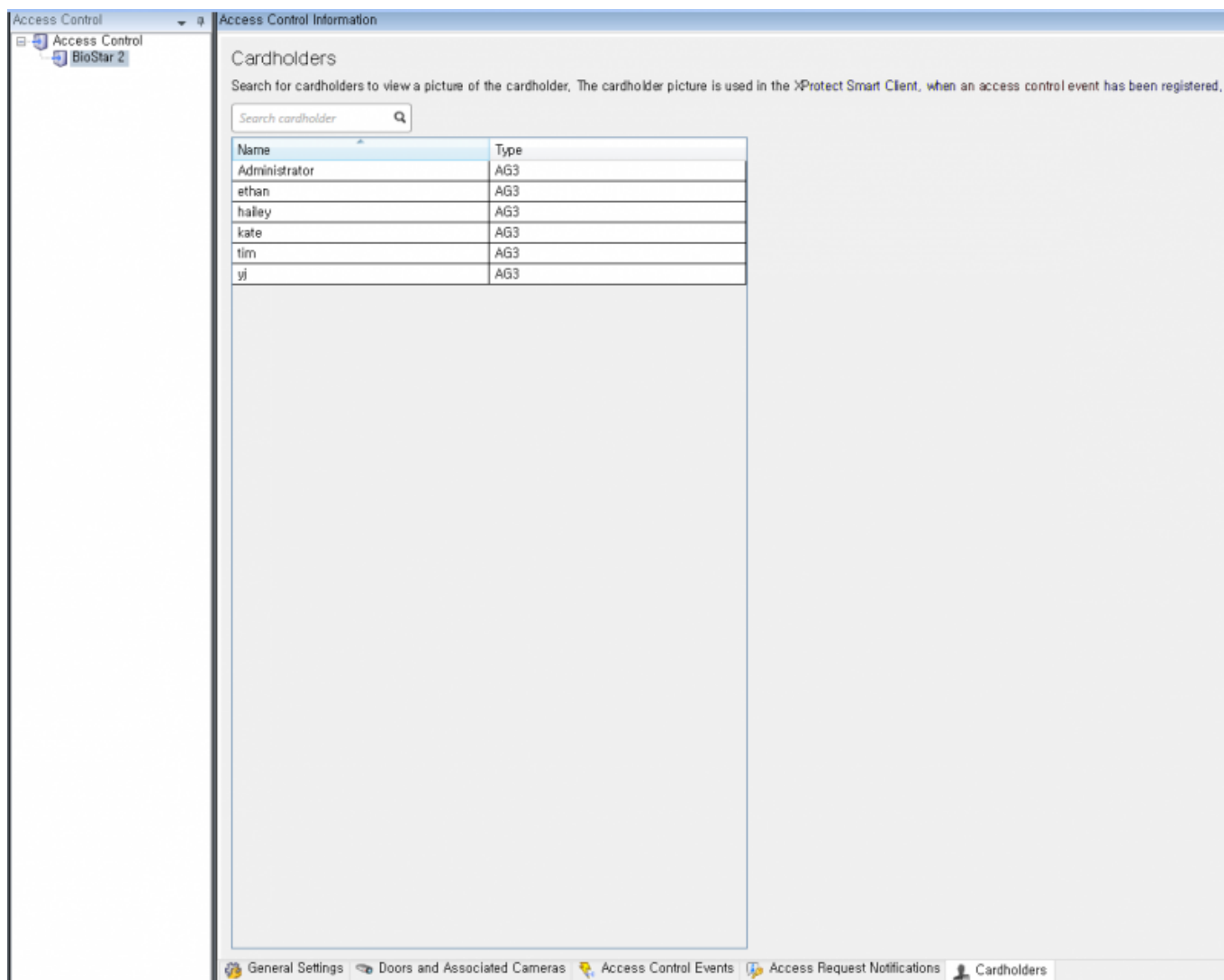
### List of all Users

BioStar 2:



ID	Name	Email	Group	Access Group	Status
1	Administrator	-	All Users	AG3	-
2	hailey	-	All Users	AG3	-
3	kate	-	All Users	AG3	-
4	tim	-	All Users	AG3	-
5	yj	-	All Users	AG3	-
6	ethan	-	All Users	AG3	-

Milestone:



Name	Type
Administrator	AG3
ethan	AG3
hailey	AG3
kate	AG3
tim	AG3
yj	AG3

## User Details

### BioStar 2:

The screenshot shows the 'kate' user details window in BioStar 2. It is divided into two main sections: 'Information' and 'Credential'.

**Information Section:**

- Name:** kate
- ID:** 3
- Group:** All Users
- Period:** 2001/01/01 00:00 ~ 2030/12/31 23:59
- Operator Level:** User
- Login ID:** kate
- Password:** (masked with asterisks)
- Email:** (empty field)
- Telephone:** (empty field)
- Status:** Active (toggle switch)
- Access Group:** AG3

**Credential Section:**

- PU:** (masked with asterisks)
- Auth Mode:** Device Default
- Credential:** + Fingerprint, + Face, + Card
- 1:1 Security Level:** Device Default

Below the credential section is a table with columns: Type, Card Data Format, Summary, and Card History.

Type	Card Data Format	Summary	Card History
Fingerprint	-	1	

At the bottom right, there are 'Apply' and 'Cancel' buttons.

### Milestone:

The screenshot shows the 'Access Control Information' window in Milestone. It displays a list of cardholders and their details.

**Cardholders Table:**

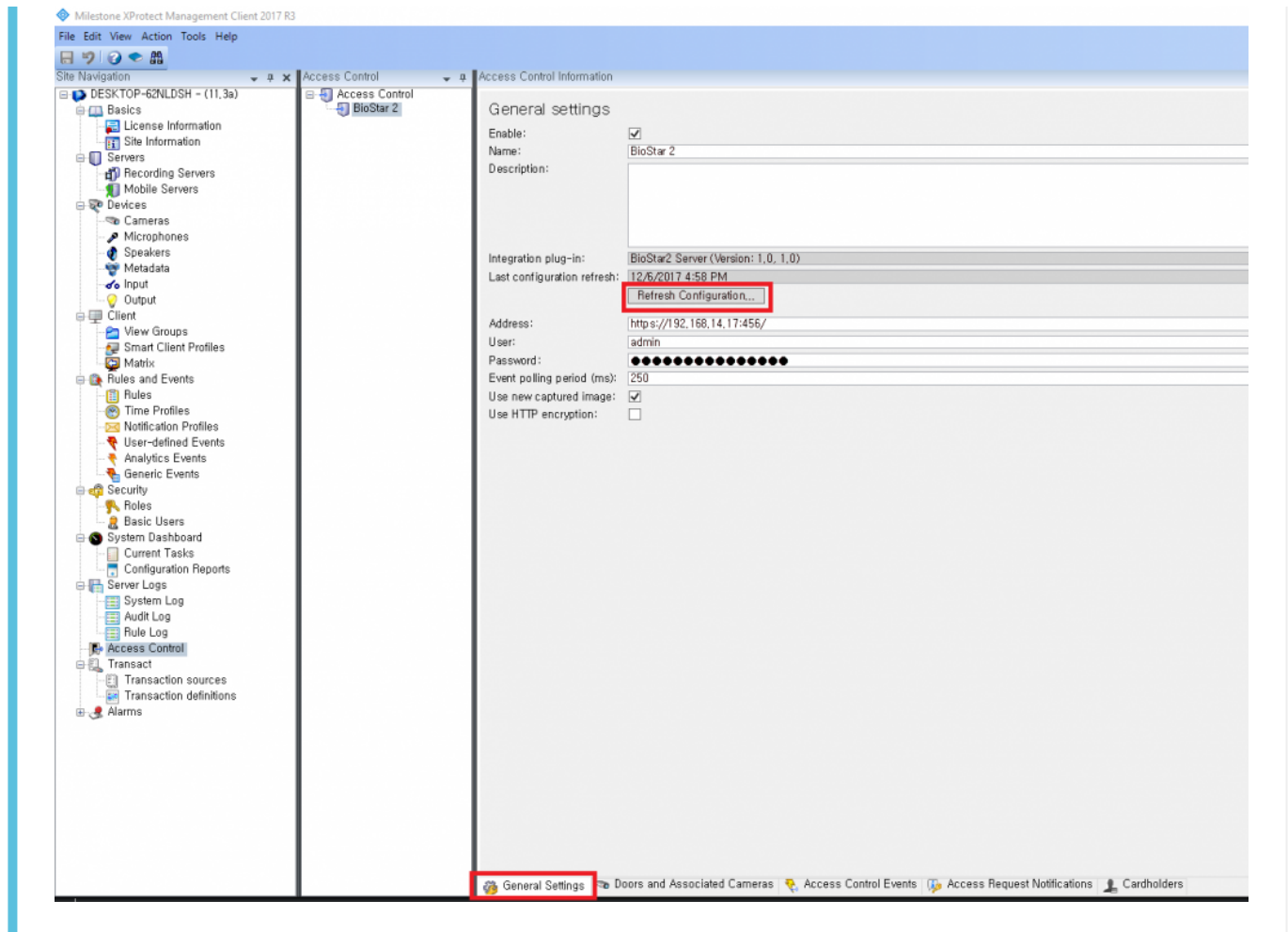
Name	Type
Administrator	AG3
ethan	AG3
hailey	AG3
kate	AG3
tim	AG3
yi	AG3

**User Details for 'kate':**

- Name:** kate
- Type:** AG3
- 사용자 ID:** 3
- 사용자 그룹:** All Users
- 비활성:** false
- 시작 날짜:** 2001-01-01 오전 12:00:00
- 만료 날짜:** 2030-12-31 오후 11:59:00
- PIN:** true
- 지문:** 1
- 얼굴:** 0
- 카드:** 0

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.

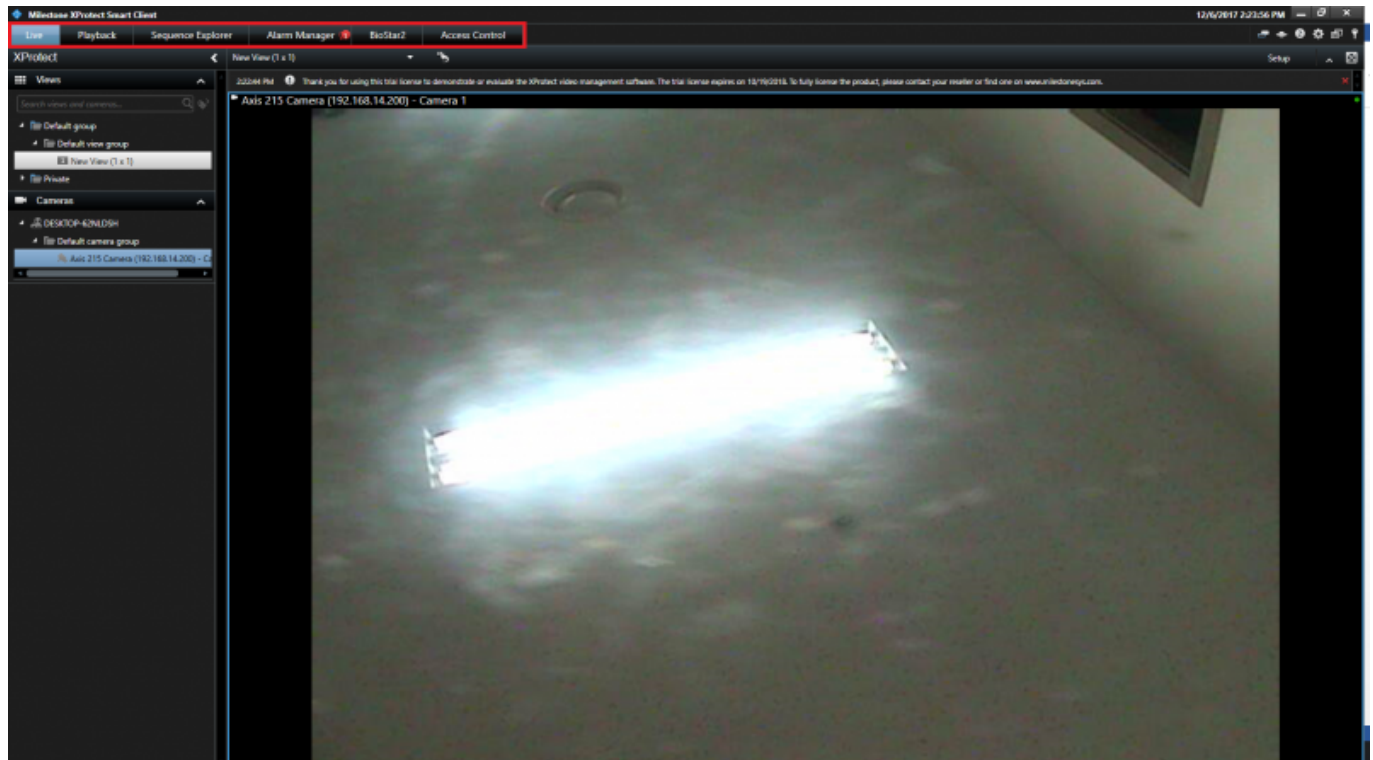




## Step 6: Utilize XProtect Smart Client

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.



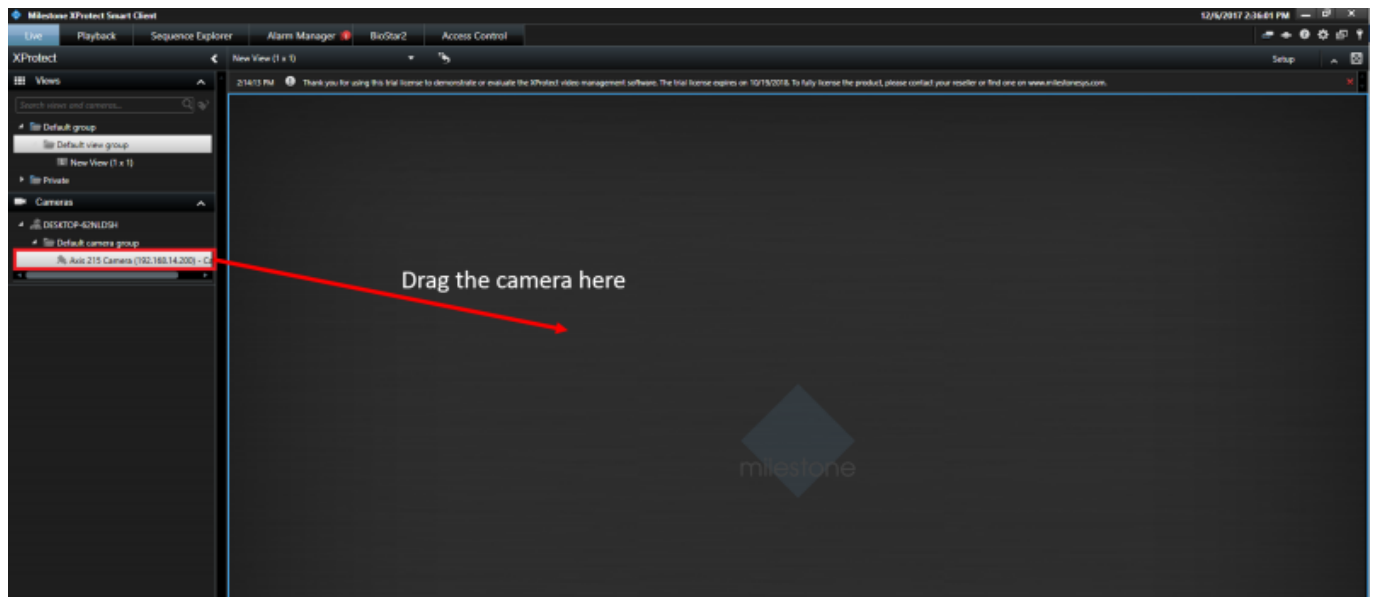


- Live
- Alarm Manager
- BioStar2
- Access Control

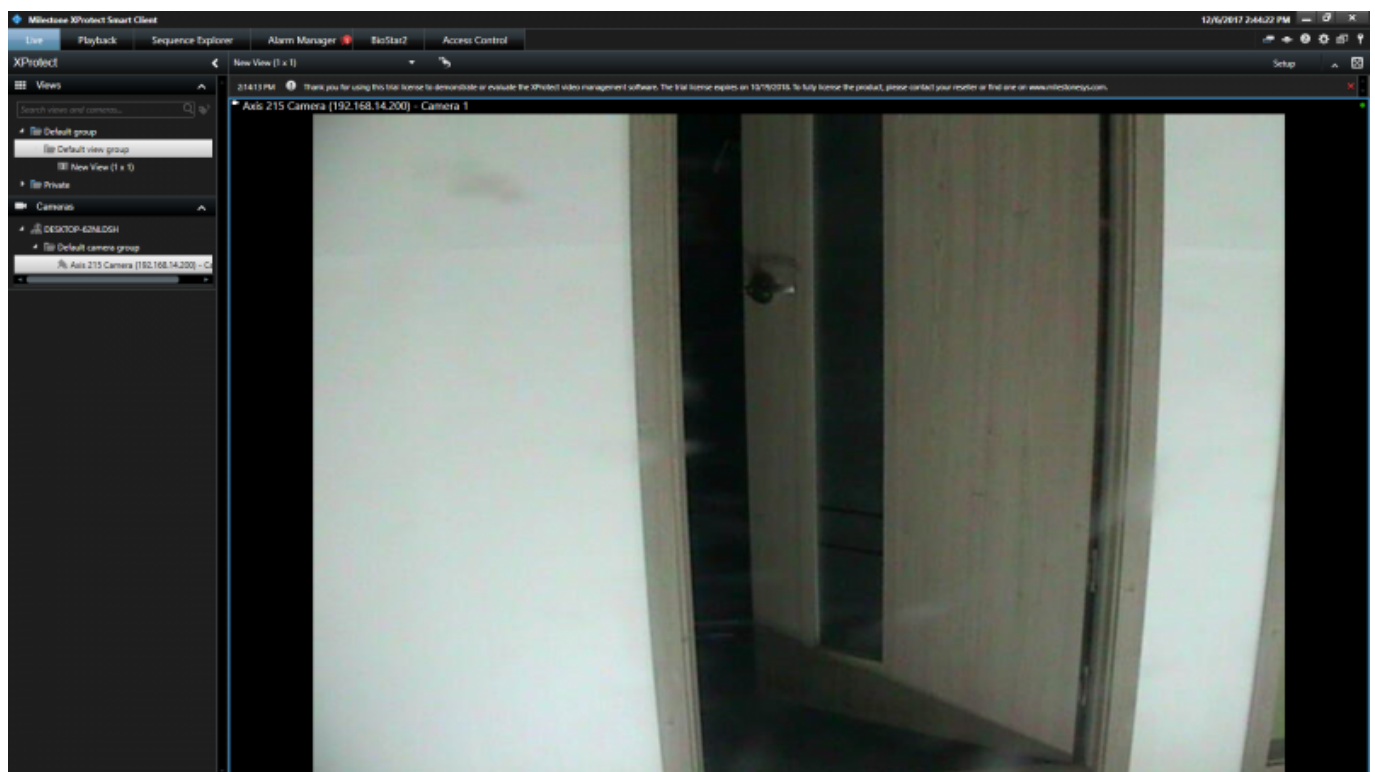
## Major Features

### Feature 1: Live

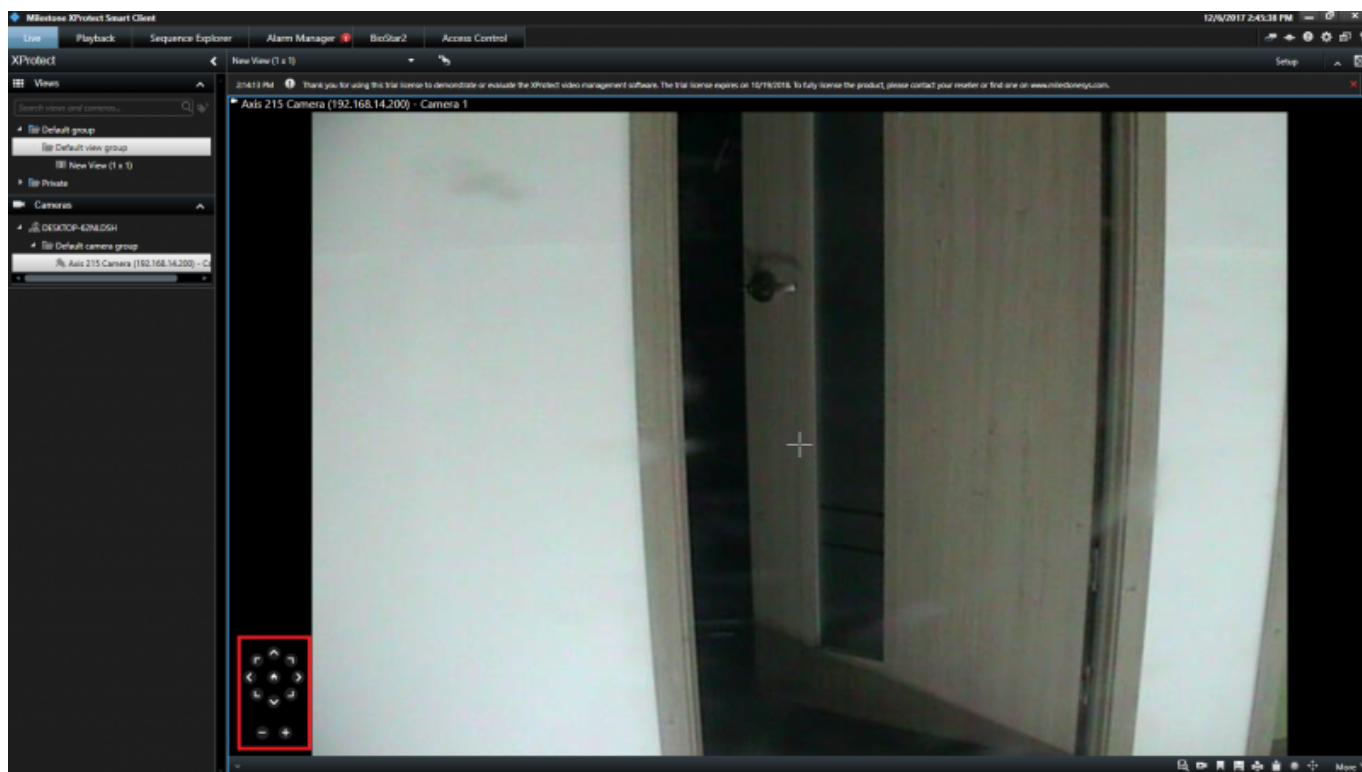
In Milestone XProtect Smart Client, you can monitor real-time video recorded by IP camera. After you select the camera you associated in Milestone XProtect management, drag it into the right panel.



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

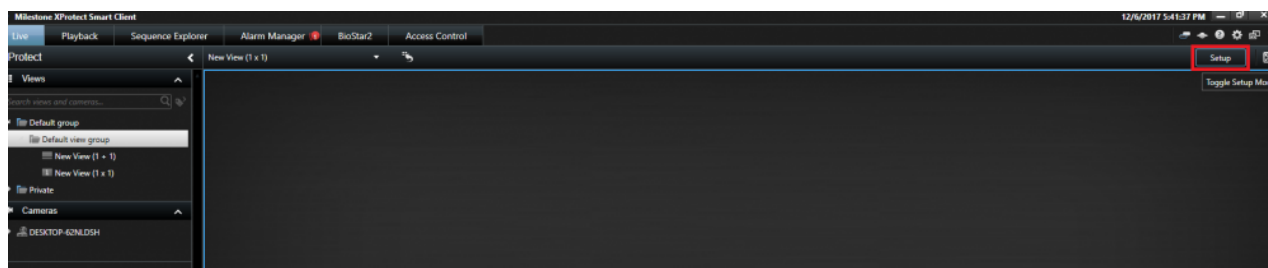


In addition, you can adjust direction or zoom in/out by clicking the icon located in left-bottom side.

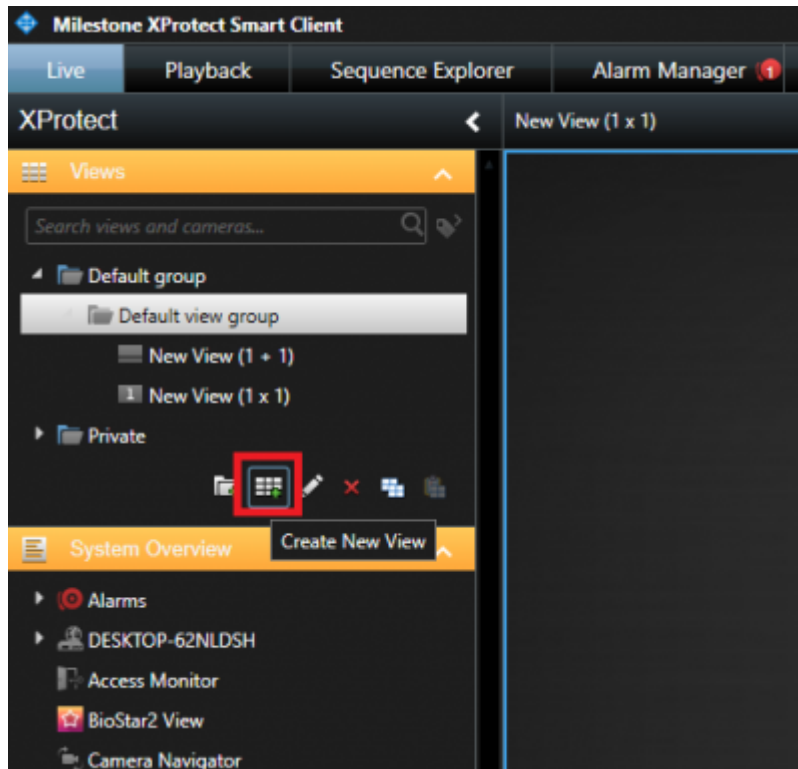


You can customize the View in Live tab.

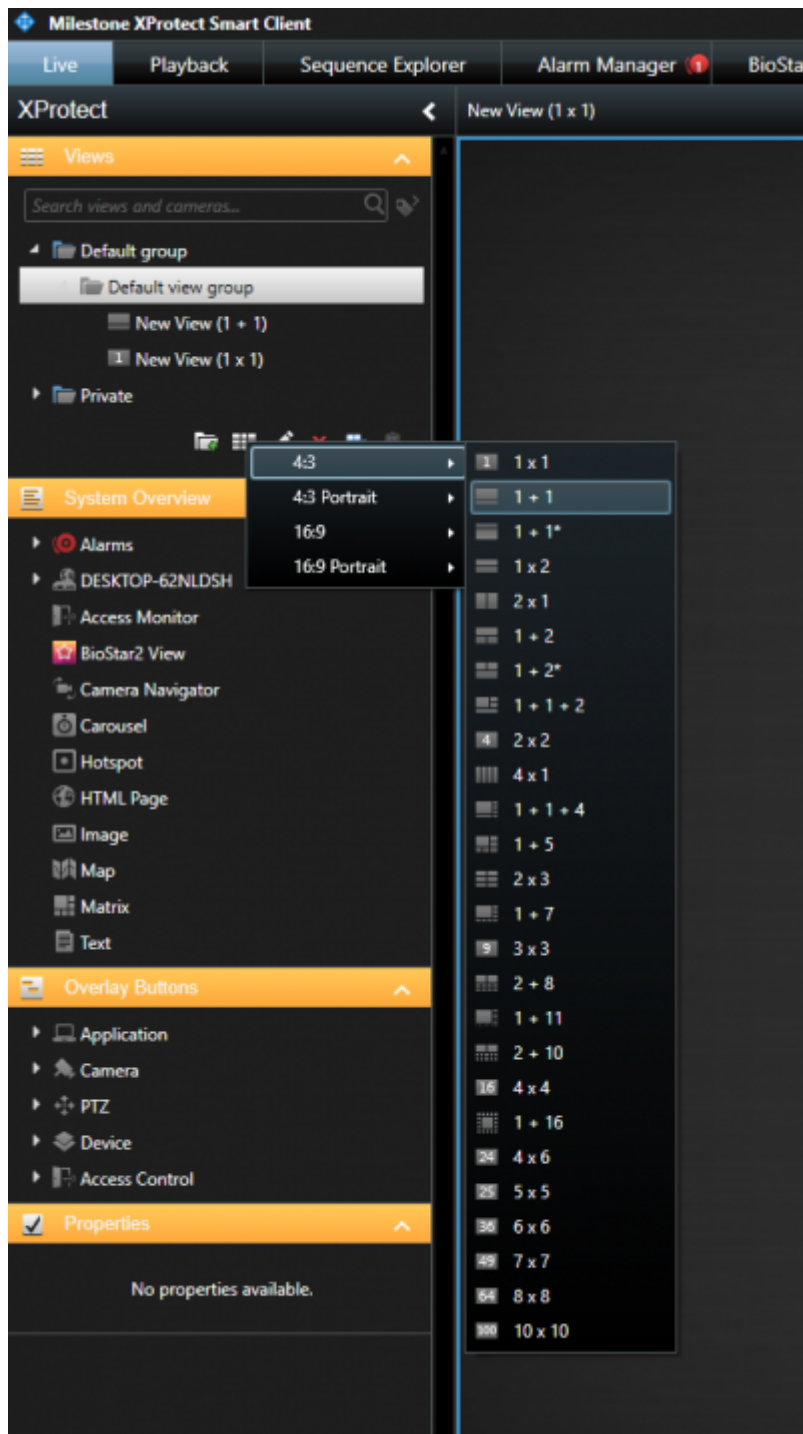
For example, if you want to monitor video and check the information on users who authenticate their identity with PIN/Fingerprint template at the same time, click **Setup** button.



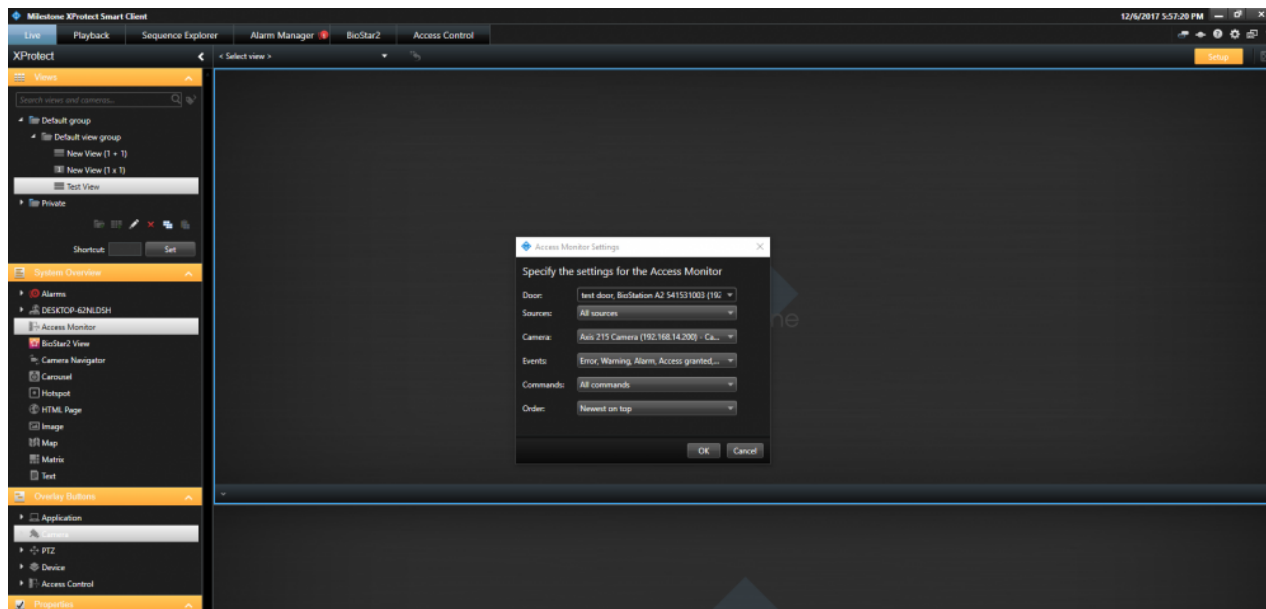
Then, you can see various options you can configure. First of all, click **Create New View** icon.



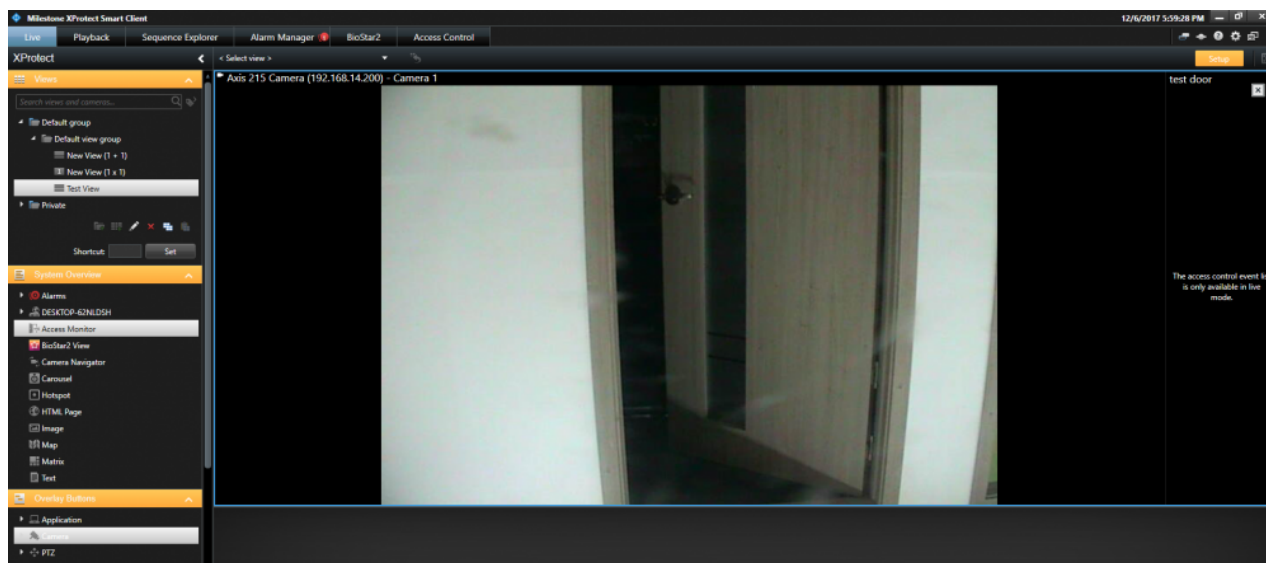
After that, you can select one option you want to customize in the view. By clicking the icon shaped pencil, you can modify the name. Then, Click **Set** button.

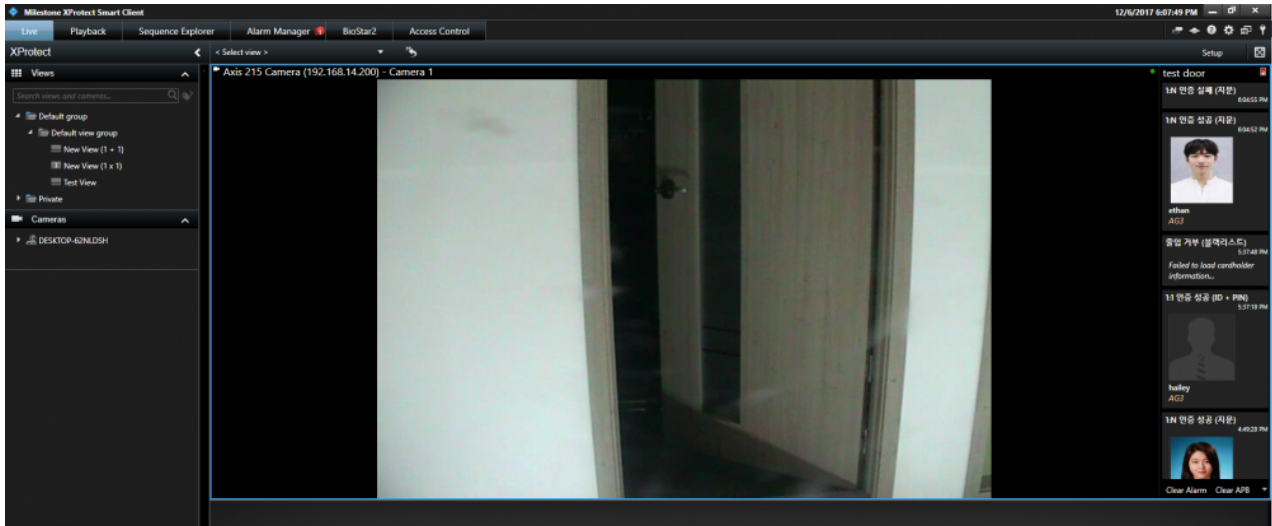


Next, drag **Access Monitor** in **System Overview**. In the Access Monitor Settings, you should specify the settings for the Access Monitor and click **OK** button.

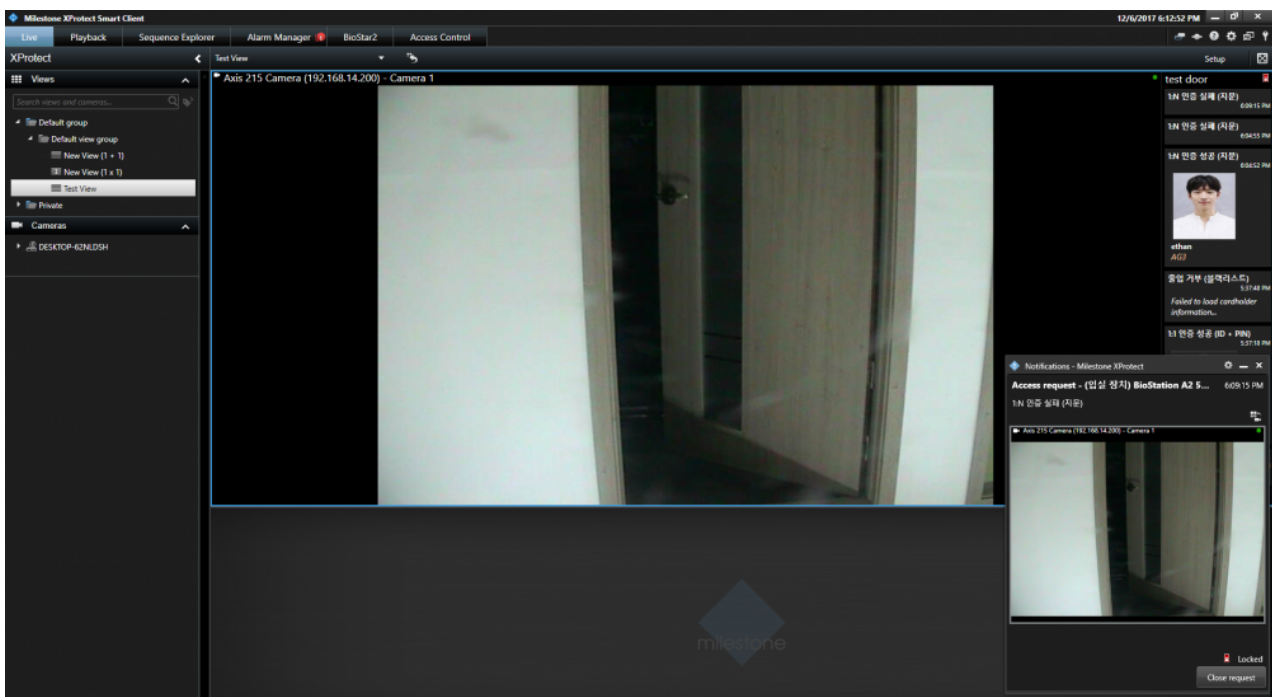


Once you click OK button, you can see the customized view. Please note that you should click Setup button again to escape the setting of View. If you see below screenshot, you can monitor video and the information on users who authenticate their identity to enter the door simultaneously.





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

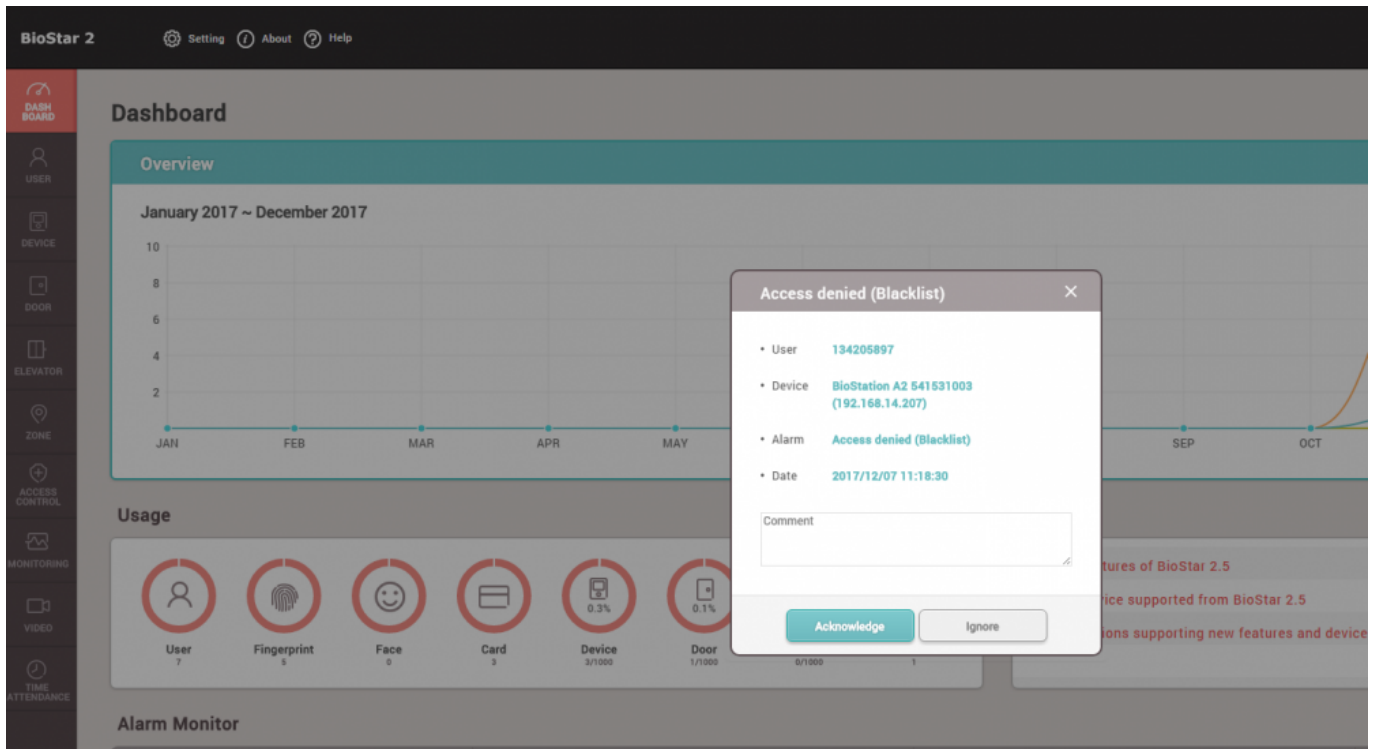


## Feature 2: Alarm Manager

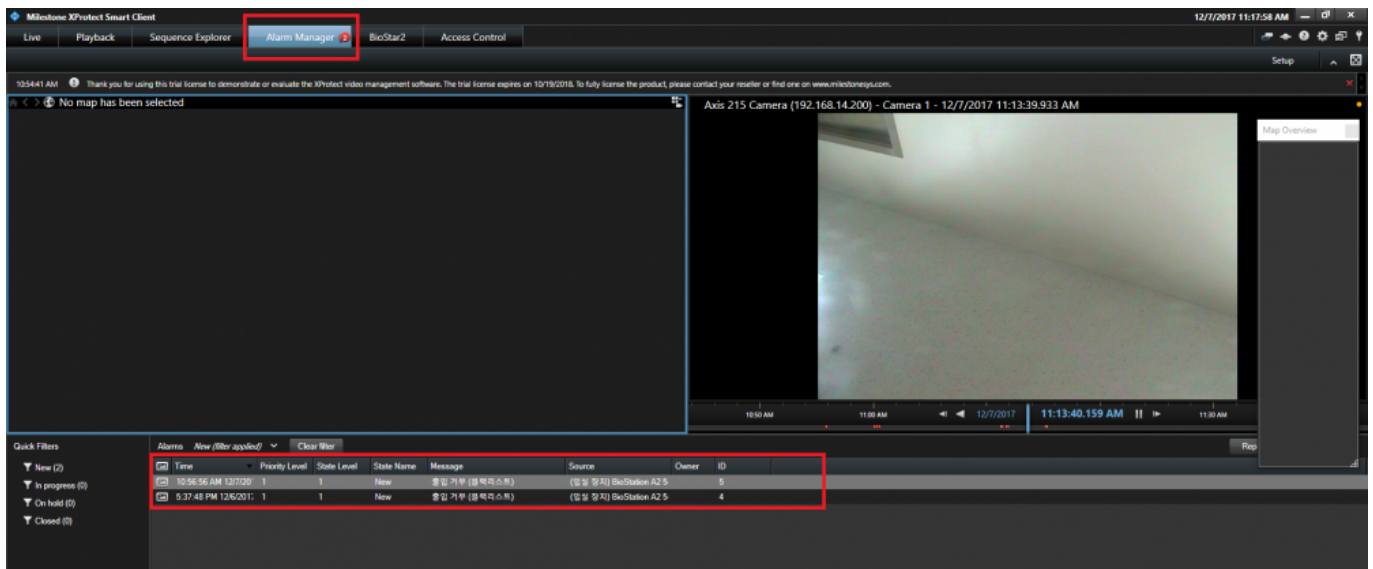
If an alarm occurs in BioStar 2, the alarm message will be generated in Milestone.

BioStar 2:





Milestone:



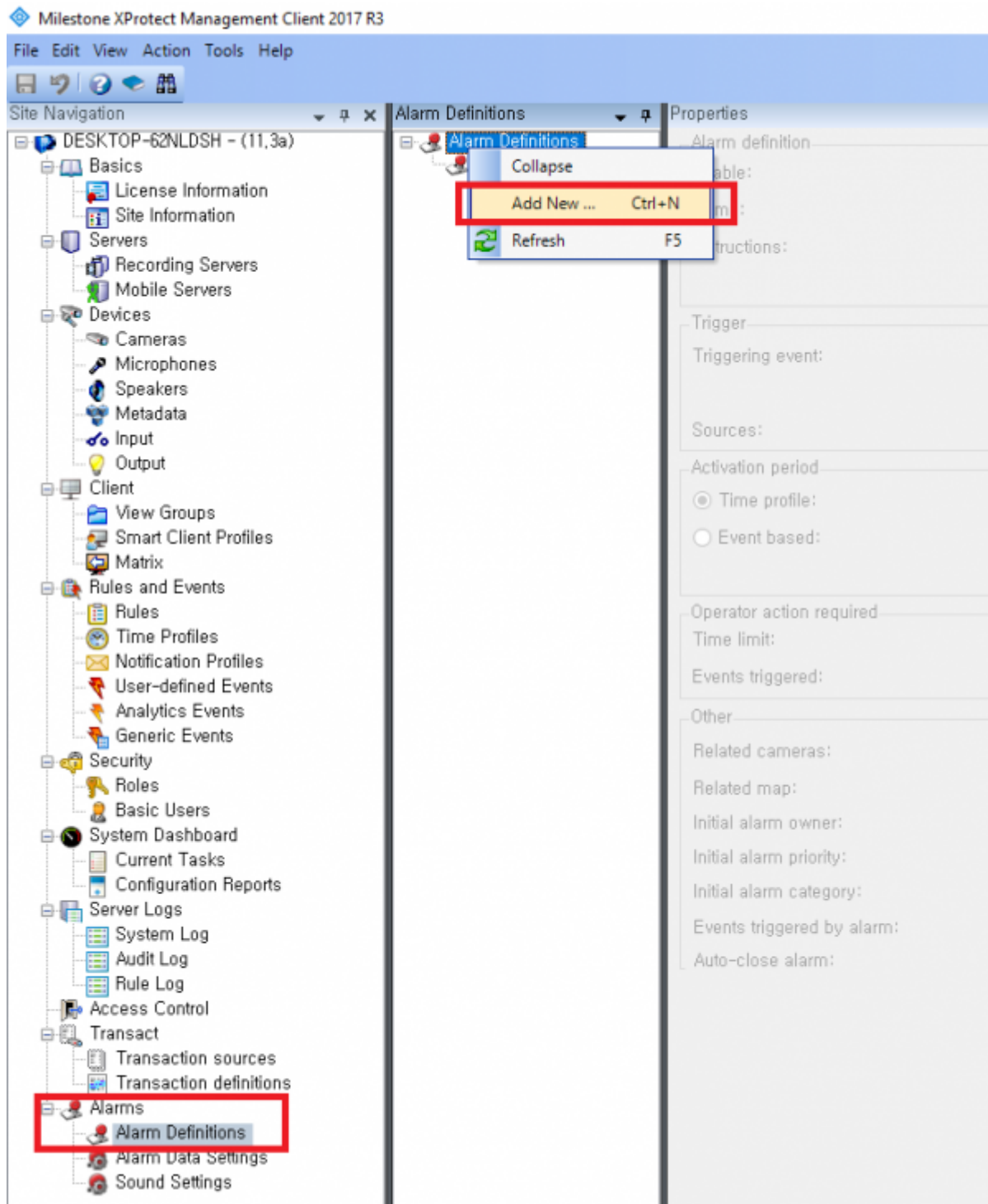
In Milestone, Alarm Manager will judge if generated event should be dealt with alarm based on Access Control Events tab and Alarm Definitions.

### [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.



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**.

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

Alarm Definitions

Properties

Alarm definition

Enable: ☒

Name:

Instructions:

Trigger

Triggering event:

Sources:

Activation period

Time profile: ☒ Always

Event based: ☐

Start:   
Stop:

Operator action required

Time limit:

Events triggered:

Other

Related cameras:

Related map:

Initial alarm owner:

Initial alarm priority:

Initial alarm category:

Events triggered by alarm:

Auto-close alarm: ☐

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 Information

Access control events

Select the events you want to monitor in XProtect Smart Client. Use categories to simplify the use of triggering events.

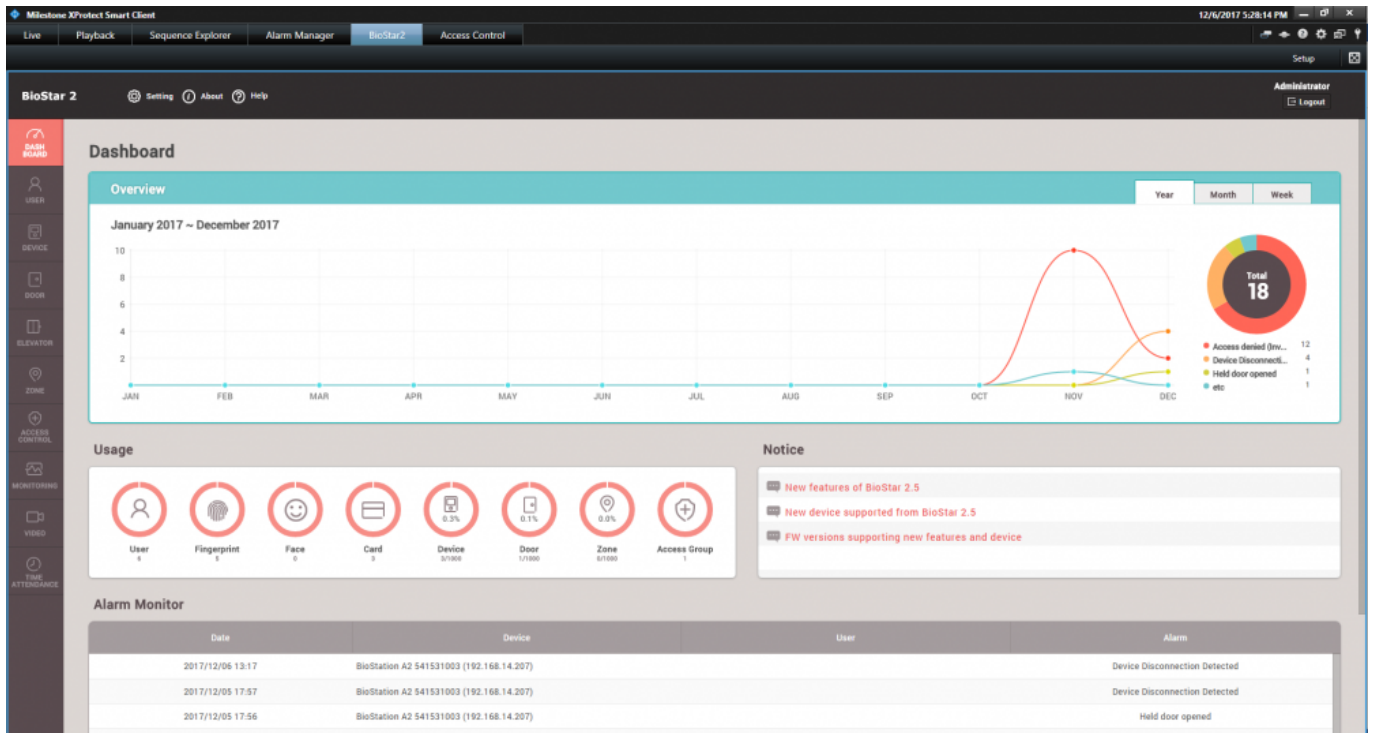
Enabled	Access Control Event	Source Type	Event Category
<input checked="" type="checkbox"/>	인출 실패 (시간 초과)	Access Point, Door	Access denied, Access Point, Access request, Zone Related
<input checked="" type="checkbox"/>	인출 실패 (잘못된 인증 모드)	Access Point, Door	Access denied, Access Point, Access request, Zone Related
<input checked="" type="checkbox"/>	인출 실패 (잘못된 카드번호)	Access Point, Door	Access denied, Access Point, Access request, Zone Related
<input checked="" type="checkbox"/>	입력 장치	BioStar2 Terminal	Device Related
<input checked="" type="checkbox"/>	장치 시간 설정	BioStar2 Terminal	Device Related
<input checked="" type="checkbox"/>	장치 시작	BioStar2 Terminal	Device Related
<input checked="" type="checkbox"/>	장치 잠금	BioStar2 Terminal	Device Related
<input checked="" type="checkbox"/>	장치 잠금 해제	BioStar2 Terminal	Device Related
<input checked="" type="checkbox"/>	장치 재설정	BioStar2 Terminal	Device Related
<input checked="" type="checkbox"/>	장치 재시작	BioStar2 Terminal	Device Related
<input checked="" type="checkbox"/>	장치연결해제 장치	BioStar2 Terminal	Device Related
<input checked="" type="checkbox"/>	출입 거부 (시간 만료)	Access Point, Door	Access denied, Access Point, Access request, Zone Related
<input checked="" type="checkbox"/>	출입 거부 (블랙리스트)	Access Point, Door	Access denied, Access Point, Access request, Zone Related
<input checked="" type="checkbox"/>	출입 거부 (비활성화 사용자)	Access Point, Door	Access denied, Access Point, Access request, Zone Related
<input checked="" type="checkbox"/>	출입 거부 (소프트 시간 지정 안티패스)	Access Point, Door	Access denied, Access Point, Access request, Zone Related
<input checked="" type="checkbox"/>	출입 거부 (소프트 안티패스)	Access Point, Door	Access denied, Access Point, Access request, Zone Related
<input checked="" type="checkbox"/>	출입 거부 (스케줄 잠금)	Access Point, Door	Access denied, Access Point, Access request, Zone Related
<input checked="" type="checkbox"/>	출입 거부 (시간 지정 안티패스)	Access Point, Door	Access denied, Access Point, Access request, Zone Related
<input checked="" type="checkbox"/>	출입 거부 (잘못된 인증 실패)	Access Point, Door	Access denied, Access Point, Access request, Zone Related
<input checked="" type="checkbox"/>	출입 거부 (잘못된 출입 그룹)	Access Point, Door	Access denied, Access Point, Access request, Zone Related
<input checked="" type="checkbox"/>	출입 거부 (활동 실패)	Access Point, Door	Access denied, Access Point, Access request, Zone Related
<input checked="" type="checkbox"/>	출입 거부 (하드 안티패스)	Access Point, Door	Access denied, Access Point, Access request, Zone Related
<input checked="" type="checkbox"/>	출입문 강제 열림	Access Point, Door	Access denied, Access Point, Access request, Zone Related
<input checked="" type="checkbox"/>	출입문 강제 열림 알람	Access Point, Door	Access denied, Access Point, Access request, Zone Related
<input checked="" type="checkbox"/>	출입문 강제 열림 해제	Access Point, Door	Access denied, Access Point, Access request, Zone Related
<input checked="" type="checkbox"/>	출입문 개방	Access Point, Door	Access denied, Access Point, Access request, Zone Related
<input checked="" type="checkbox"/>	출입문 안티패스	Access Point, Door	Access denied, Access Point, Access request, Zone Related
<input checked="" type="checkbox"/>	출입문 안티패스 해제	Access Point, Door	Access denied, Access Point, Access request, Zone Related
<input checked="" type="checkbox"/>	출입문 열림	Access Point, Door	Access denied, Access Point, Access request, Zone Related
<input checked="" type="checkbox"/>	출입문 잠금	Access Point, Door	Access denied, Access Point, Access request, Zone Related
<input checked="" type="checkbox"/>	출입문 잠시간 열림	Access Point, Door	Access denied, Access Point, Access request, Zone Related
<input checked="" type="checkbox"/>	출입문 잠시간 열림 알람	Access Point, Door	Access denied, Access Point, Access request, Zone Related
<input checked="" type="checkbox"/>	출입문 잠시간 열림 해제	Access Point, Door	Access denied, Access Point, Access request, Zone Related
<input checked="" type="checkbox"/>	침입 방지	Door	Alarm, Zone Related
<input checked="" type="checkbox"/>	침입 경보 상태 해제	Door	Zone Related
<input checked="" type="checkbox"/>	타입은 설정	BioStar2 Terminal	Device Related

User-defined Categories...

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

## 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.



## Feature 4: Access Control

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

**Access Control**

Events Doors Cardholders

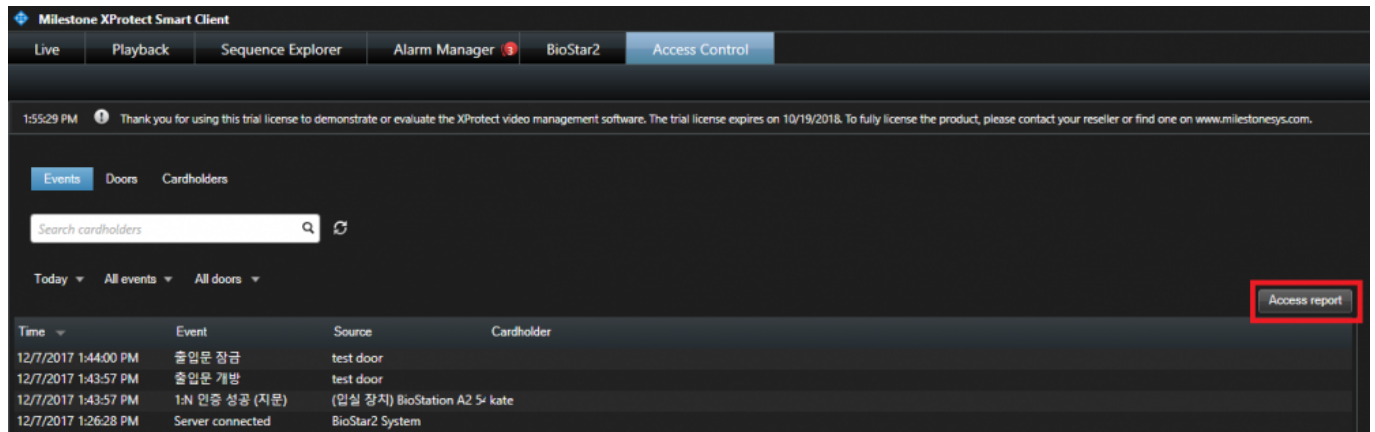
Search cardholders

Today All events All doors

Access report

Time	Event	Source	Cardholder
12/7/2017 11:18:30 AM	출입 거부 (블랙리스트)	(임실 장치) BioStation A2 541531003	
12/7/2017 10:56:56 AM	출입 거부 (블랙리스트)	(임실 장치) BioStation A2 541531003	
12/7/2017 10:55:28 AM	출입 거부 (블랙리스트)	(임실 장치) BioStation A2 541531003	
12/7/2017 10:51:18 AM	장치연결해제 감지	Xpass 53129 (192.168.14.22)	
12/7/2017 10:21:58 AM	장치연결해제 감지	BioLiteNet 538101268 (192.168.14.22)	
12/7/2017 9:30:48 AM	장치 시간 설정	BioLiteNet 538101268 (192.168.14.22)	
12/7/2017 7:44:27 AM	Server connected	BioStar2 System	

You can also create the PDF report for Event records by clicking **Access report** button.



Milestone XProtect Smart Client

Live Playback Sequence Explorer Alarm Manager 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](http://www.milestonesys.com).

Events Doors Cardholders

Search cardholders

Today All events All doors

Access report

Time	Event	Source	Cardholder
12/7/2017 1:44:00 PM	출입문 잠금	test door	
12/7/2017 1:43:57 PM	출입문 개방	test door	
12/7/2017 1:43:57 PM	1:N 인증 성공 (지문)	(입실 장치) BioStation A2 5x kate	
12/7/2017 1:26:28 PM	Server connected	BioStar2 System	

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