

SIS – Milestone XProtect Integration

AssaSWAC Plugin

User's Manual

ASSA ABLOY Opening Solutions Hungary Korlátolt Felelősségű Társaság 8000 Székesfehérvár, Palánkai u. 5.



With SIS integrated surveillance management system in general use, the SIS module designed for integration into Milestone will ensure availability of access control data via the video surveillance management system too.

In practice, this will involve integration with XProtect module known as Access.

It is designed to visualize card readout information (such as Card Nos. and user-related data) and rights, provide feedback on door statuses, handle various responses thereto, e.g. acknowledgements, and manage map displays.

Thanks to the module available for integration, an SIS access control system can be used as an integral part of the video system.

In addition, the module designed for integration will serve to allow data synchronizations and transfers between SIS and Milestone XProtect systems as described below.

Master data:

Categories of data transferrable from SIS system to Milestone video management software:

- SC-1000 access points as have been added to SIS client program
- Cardholders
- Event types

Events:

Continuous two-way communications will take place between the two systems. Any events, including pass-through, invalid token, etc, as may occur in the access control system will be received and forwarded to XProtect video management system via RestApi protocol by the SIS communications program.

Device statuses:

Transfer of data on access point statuses, including:

- normal or card-openable,
- permanent open,
- alarm,
- got opened / closed.

This Manual describes how to install the Seawing Milestone Plugin known as AssaSWAC and what settings to make via Milestone XProtect Management program. That is to say, Milestone XProtect VMS, including components as written below, is assumed to have been installed:

- Milestone XProtect Management (2020 R2 20.2a 4122)
- Milestone XProtect Smart Client (2020 R2 20.2a 2352)
- Milestone services, incl. Management Server, Event Server, and Recording Server



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System components:

- SISCOM v2.3.11.2043 SisConnect: designed to serve external systems via RestAPI protocol
- SIS Client v2.3.11.2043 program (for configuration and addition of WEB admin user)
- Seawing Milestone access control plugin known as SeawingPlugin (AssaSWAC)
- XProtect Management 2020 R2 20.2a 4122 (for management, recording and event servers)
- XProtect Smart Client 2020 R2 20.2a 2352

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Configuration of SIS Connect

Option software requirements: The option key shall include option SisConnect. SIS min v2.3.0.2028

SIS Client program : menu option EDIT \ Devices

- Select control computer and click function button + to open a device types selection window. Select type 'SiS Connect'.
- 2. Enter main data and select 'Sis Connect' for driver.
- 3. Set up parameters displayed upon a device save in the following way:
 - API type: 'RestAPI'
 - Rest API URL PC IP address: The IP address of the machine used for running XProtect services.
 - Token will expire in X secs: 300
- 4. Save data and restart the communications program.

Checking RestAPI

https://<IP address of control computer>:4443/api

SisCom RestAPI x +	- 0 ×
← → C ▲ Nem bictonságos 10.16.193.21.4443/api	० 🕁 💿 🕫 🏚 🚺 🗄
SiSCom RestAPI	
Authorize	•
Authentication	~
POST /login Login to application	<u> </u>
POST /logout Logout to application	a
Subscribe and Fetch Event - Realtime Event	\checkmark
POST / subscribe Subscribe to different types of tasks	a
POST /subscribe/(token) Fetch buffered event from server	a
Persons administration	~
GET / persons Returns viid persons List	a
POST /persons insert a new person to the SIS.	a
PUT / persons: Update one person.	a
DELETE /persons Change active state to inactive state one person.	a
GET /persons/(personID) Returns a valid person by ID.	a
CET / persons/count Returns valid persons count	a
GET /persons/from/(fromNumber)/to/(toNumber) Ruturns vaid ordered person();it by Person().	â .

If it does not run, you should run file cert_install batch via the command line started as an administrator.

C:\Program Files (x86)\Seawing\SiSCom\RestAPIContent\cert_install.bat

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Adding a SIS WEB admin user

SISConnect module requires a log-in before usage. To do so, enter a SIS WEB user via SIS Client program.

SIS Connect will provide data in response to http queries only upon a successful login of any external system via this user.

Login parameters of a SIS WEB user can be defined along with Access Control (Plugin) parameters via the Milestone XProtect Management program. (Refer to section Configuration via Milestone XProtect Management Client)

- 1. When in SIS Client program, start menu option SYSTEM \ Users \ Users.
- 2. Click function [Web users] in the list of functions on the left side of the window.
- 3. Use function button [New] to open a persons selection window, and select a person to associate the WEB admin user login with. Alternatively, if the desired person has not been added yet, use function button [New person] for defining relevant personal details.
- 4. Enter a login name for the WEB admin user, select role 'Web administrator', and click button [OK] to save your entries.

Users X Web users X							
Layout ^						Login name	
						milestoneadmin	
Vertical/horizontal						Relea	
	Milestone Admin	milestoneadmin	Development	Employee	active	Web administrator	
Functions ^	Sisadmin	sisadmin	Development	Employee	active	Web user	
Change password	Kustyán Otília		Kereskedelem	Employee	active		
	st results row count: 2						+ - 🖌 🗙
10:55:18							

- 5. In the window appearing upon save, enter a user password.
- 6. When the password is entered, a user with WEB administrator role will be created.



Installing Milestone Seawing AC Plugin

IMPORTANT: Install the plugin on the computer used for running Milestone server services.

1. Stopping Milestone XProtect Event Server

Right-click Event Server icon on the System tray (i.e. Windows tray in the bottom right corner) to get a floating menu displayed, and click function **Stop Event Server Service>**.



2. Start (C:\Milestone\AssaSWAC\)SeawingPluginSetup.msi.

Welcome to the Seawing AC Plugin for Milestone Setup Wizard	lestone		
IMPORTANT: Milestone server must already be installed on this comput XProtect Event Server is stopped during installation! On the next page s folder.	ter. Make sur specify the co	re Milesto prrect Mil	one estone
This computer program is protected by copyright law and international tr duplication or distribution of this program, or any portion of it, may result penalties, and will be prosecuted to the maximum extent possible under	reaties. Unau in severe civi the law.	thorized il or crimi	nal

[Next>]



Note that the **right** Milestone folder in Program Files will be required (Milestone will automatically search for plugins in MIPPlugins folder of its own).

C:\Program Files\Milestone\MIPPlugins\AssaSWAC\

🛃 Seawing AC Plugin for Milestone			—		×
Select Installation Folder					
The installer will install Seawing AC Plugin for M	ilestone to the	following folder	r.		
To install in this folder, click "Next". To install to	a different fol	der, enter it belo	ow or cl	lick "Brow	se".
<u>Folder:</u> C:\Program Files\Milestone\MIPPlugins\Ass	saSWACV		[Browse)isk Cost	
	< Back	Next >		Cance	el



🖟 Seawing AC Plugin for Milestone	_		×
Installation Complete			
Seawing AC Plugin for Milestone has been successfully installed.			
Click "Close" to exit.			
Please use Windows Update to check for any critical updates to the .NET F	ramewo	rk.	
< Back Close		Car	ncel

- If SisConnect has already been set up in SIS system (refer to section Configuration of SIS Connect), get SISCom communications program started.
 Alternatively, if SISConnect has not been set up yet, start with adding and parametrizing it via SIS Client program, and start SisCom communications program afterwards.
- Get Milestone XProtect Event Server started. Right-click Event Server icon on the System tray (i.e. Windows tray in the bottom right corner) to get a floating menu displayed, and click function <Stop Event Server Service>.



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Note: If SISCom is started upon an Event Server launch when installation is not done for the first time, it may fail to get connected. This problem is easy to resolve via Milestone by proceeding like this: Start Milestone XProtect Management Client, search for Access Control and your Seawing plugin (by the name it has been added) within, and press button **Refresh configuration**. If XProtect Smart Client has been running, it will prompt for a restart.

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Configuration via Milestone XProtect Management Client

1. Get Milestone XProtect Management Client program started.



2. Log in, using login parameters you had to define in the setup process of XProtect Professional.

	Computer: localhost	
	Authentication:	
-	Windows authentication (current user) 🔻	
11114	Domain: AD	
and the second	User name:	
	AD\TunLac 👻	
	Password:	
	Remember password	

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3. Adding and parametrizing 'Access Control':

Prior to the configuration process, make sure that

- SISCom communications program and SISConnect are running; 2021.01.25 10:17:46.8591 ; SiSConnect Driver initialization 2021.01.25 10:17:47.1730 ; Sis Connect - Protocol started! 2021.01.25 10:17:47.1800 ; RestApi starting... 2021.01.25 10:17:49.7771 ; RestApi started! Listen on: https://localhost:4443
- a Web admin user holding a password has been defined in SiS Client program;
- your Milestone licence includes an Access Control Base Licence and at least one Door licence;

License Type	Activated
Hardware Device	0 out of 25
Access control door	0 out of 2
Transaction source	0 out of 1

- XProtect Event Server is running.



When in XProtect Management Client program, right-click to select 'Access Control' in the left-side hierarchy of the user interface, and click function [Create New...] in the floating menu appearing.



4. Define an optional integration name for the access control system mandatorily.



Create access co	ontrol system integration
Name the access contro	system integration, select the integration plug-in and enter the connection details.
Name: AE	BA ABLOY Seawing Access Control
Integration plug-in:	v
	Next Cancel
ct item 'ASSA Al	BLOY Seawing Access Control' in the 'Integration plug-in' panel.
ct item 'ASSA Al ate Access Control Syste Create access co	BLOY Seawing Access Control' in the 'Integration plug-in' panel. ^{m Integration}
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ct item 'ASSA Al ate Access Control Syste Create access control Name the access control Name: Integration plug-in: SISCom IP Address: SISConnect Port: SiS Web User:	BLOY Seawing Access Control' in the 'Integration plug-in' panel. m Integration ontrol system integration I system integration, select the integration plug-in and enter the connection details. ABBA ABLOY Seawing Access Control ASSA ABLOY Seawing Access Control 10.16.193.21 4443 admin

- SISCom IP Address: The IP address of your SIS control computer, i.e. the one used for running SisCom. It must be the real IP address (and not a DNS or localhost).
- SISConnect Port: 4443
- Sis Web User: The name of the WEB admin user defined via SIS Client program.
- Sis Web User Password: The login password associated with the WEB admin user defined via SIS Client program.
 - Refer to section Adding a SIS WEB admin user.
- Having defined parameters, click function button [Next].
 Milestone will get connected to SiSCom SISConnect, and query for access points and event types.

5.



Create Access Control System Integration	×
Connecting to the access control system	
Collecting configuration data	
Retrieving door controllers	
	Previous Next Cancel
Create Access Control System Integration	x
Connecting to the access control system Collecting configuration data	
Added:	
Doors (14)	-
Units (29)	-
Servers (1)	-
Events (226)	•
Commands (3)	-
States (12)	-
	Previous Next Cancel

- Doors: SC-1000 access points
- Units: Readers on SC-1000 access points, and superior hardware components (controllers)
- Servers: Your SIS control computer
- Events: Event types to be handled and visualized by systems SIS and XProtect.
- Commands: Commands that SC-1000 access points can process, including:

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command will make the selected
rmanently closed state. It means
ot let anyone to pass through.
ss point will be made assume at only valid card readouts will let
m will let the access point remain as defined by a specific ne SIS).

States: Device statuses. Statuses of SC-1000 access points, including:

Disconnected:	No connection between SIS and Milestone.
Disconnecteur	



Connected:	Device communicating
Unknown:	Unknown
Open:	The door at the access point has got opened.
Closed:	The door at the access point has got closed.
Locked:	Locked up. The access point has assumed a permanently closed state.
Unlocked:	The access point is card-openable (normal state)
Not communicating:	Device not communicating
Not communicating: Fault	Device not communicating Device failure. Several causes are possible, e.g. a hardware component of the controller associated with the device fails to communicate.
Not communicating: Fault AC fault:	Device not communicating Device failure. Several causes are possible, e.g. a hardware component of the controller associated with the device fails to communicate.
Not communicating: Fault AC fault: Battery fault:	Device not communicating Device failure. Several causes are possible, e.g. a hardware component of the controller associated with the device fails to communicate.

7. Upon a click on function button [Next], XProtect will let you **associate cameras with** access points.

Doors and associated cameras	
Drag and drop to associate cameras with door access points.	
Doors:	Cameras:
All doors V	HUSZEL0071
Name Enabled License 💿	
1119 OFFICE ^	
1234 OFFICE Pending	
Access point: 1234 OFFICE (In) Drop camera here to associate it with the access point. Access point: 1234 OFFICE (Out) Drop camera here to associate it with the access point.	
1234 OFFICE 2	
1464 OFFICE Pending	
A barrier IN	
A barrier OUT	
APERIO UPDATE	
B barrier IN	
B barrier OUT	
Development 1	

The process can be done any time later. Cameras can be defined via this program (Devices \rightarrow Cameras).

Doors and associated cameras – Access Points

When 'Access Control' defined is selected, its window titled 'Doors and associated cameras' will show all SC-1000 access points derived from SIS system. When in this window, you can associate cameras

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with the access points, and use check-boxes labelled as 'Enabled' to choose access points for control via XProtect system as well.

It is only the events involving access points chosen here that will be visualised in, and it is only these access points that can be controlled via, XProtect Smart Client program.

Milestone XProtect Management Client	t 2020 R2		-	- 🗆 X
File Edit View Action Tools Help				
🗄 🦻 😧 🗢 🏥				
Site Navigation	V Access Control V A	Access Control Information		• •
HUSZEL007 - (20.2a) HUSZEL007 - (20.2a) Generation Generation	Control AssAABLOY Seaming - SIS	General settings Enable: Name: Description:	ASSAABLOY Seaving - SIS	
🕎 Metadata		Last configuration refresh:	2021.05.03 9:27	
Output			Refresh Configuration	
e 🕎 Client		SISCom IP Address:	10.16.193.21	
View Groups		SISConnect Port:	4443	
Matrix		SiS Web User:	milestoneadmin	
Rules and Events		SiS Web User Password:	•	
Rules		Event polling period (ms). Verbose lons enabled:	2000	
Time Profiles		SiSWeb server:	HUSZEL0071	
Votification Profiles		SiSWeb: Cardholder editor command enabled:	 ✓ 	
Analytics Events		SiSWeb: Visitor appointment command enabled:	\checkmark	
Generic Events		SiSWeb: other commands:	Tag management : SisWeb/WebLine/TagEditor	
Security Security Security Security Security Security Security Security Configuration Reports Security Security Security Transaction sources Security Atama				
		General Settings 🗠 Doors and Associated C	ameras Access Control Events 🌾 Access Request Notifications 📕	Cardholders
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Milestone XProtect Management Client 2020 R2											- 0	×
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Site Nangation Site Nangation Site Nangation Site Structure Information Sarvara Deceding Servers Deceding Servers	Access Control v 9 Access Control Access Co	Access Control Informa Doors and as Drag and drop to ass Doors: All sours v Name * 1130 OFFICE Access point: TIII's Access point: TII's Access point: TII'	tion	License Pending (In) atte d with the second	neras loor access the access loop access l	s points.			SZEL0071 Camera Group 1 Tan VIVOTEK FD Tan VIVOTEK FD Tan VIVOTEK FD Camera Group 2	1161 (192.168,7) 1161 (192.168,7) 1161 (192.168,7)	8.70) - Camer 7.72) - Camer 7.73) - Camer	• 0 • 1
		👸 General Settings	🔊 Doors	s and Assoc	iated Carr	neras 🍖 Acc	ess Contro	l Events 🕠	Access Reques	t Notifications	🛓 Cardholde	rs

'Access control events' – Event Types

This window will show a list of event types derived from SIS system.

Access Control 🗸 🦊	Access Control Information				↓ ₽	
Access Control	Access control events					
	Enable the events you want to	Enable the events you want to monitor in XProtect Smart Client. Use categories to simplify the use of triggering events.				
	Enable all Disable all	Enable all Disable all				
	Enabled Access Control Ev	rent S	Source Type	Event Category		
	 AC fault 	A	Access Point, Door	Alarm, Alarm Monitoring, Monitoring,	, Warn 👻 🔿	
	AC fault restored	A	Access Point, Door	Alarm Monitoring, Monitoring, Warni	ng v	
	 Access control 	A	Access Point, Door		~	
	Access monitoring	A	Access Point, Door	Monitoring	~	
	Access with PIN	A	Access Point, Door	Access granted, Monitoring	~	
	 Activated by contr 	ol tag A	Access Point, Door	Monitoring	~	
	✓ Add tag	А	Access Point, Door	Monitoring	Ý	
	✓ Address fault	A	Access Point, Door	Alarm, Alarm Monitoring, Monitoring,	, Warn 👻	
	 Address fault rest 	pred A	Access Point, Door	Alarm Monitoring, Monitoring, Warning	ng v	
	All key cases clos	ed A	Access Point, Door	Monitoring	v	
	APB buffer full	A	Access Point, Door	Alarm Monitoring, Monitoring	~	
	APB Violation	Д	Access Point, Door	Access denied, Alarm Monitoring, M	onitori \vee	
	 Battery discharger 	Α Δ	Access Point, Door	Alarm, Alarm Monitoring, Monitoring,	, Warn Y	
	 Battery discharger 	d restored A	Access Point, Door	Alarm Monitoring, Monitoring, Warni	ng Y	
	 Battery fault 	A	Access Point, Door	Alarm, Alarm Monitoring, Monitoring,	, Warn Y	
	 Battery fault restor 	red A	Access Point, Door	Alarm Monitoring, Monitoring, Warni	ng Y	
	 Blocked passage 	А	Access Point, Door	Monitoring	~	
	Call / External LEI	O flashing A	Access Point, Door	Monitoring	Ý	
	CAN fault	Α	Access Point, Door	Alarm Monitoring, Monitoring, Warni	ng ~	
	CAN fault restored	A	Access Point, Door	Alarm Monitoring, Monitoring, Warni	ng v	
	 Card collector employed 	pty A	Access Point, Door	Monitoring	Ŷ	
	Card collector full	A	Access Point, Door	Alarm Monitoring, Monitoring, Warni	ng v	
	 Card collector: car 	rd rejected A	Access Point, Door	Alarm Monitoring, Monitoring	v	
	Card jam	А	Access Point, Door	Alarm Monitoring, Monitoring	Ý	
	Card printed	A	Access Point, Door	Monitoring Al	larm Monitoring, I	
	User-defined Categories] ors and Associated Came as 🏾 🍢	Access Control Events 🖟 Access Request	Notifications 🧘 Cardholders		

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п	~	Card collector: card rejected	Access Point, Door	Alarm Monitoring, Monitoring		
	~	Card jam	Access Point, Door	Alarm Monitoring, Monitoring	~	
	✓	Card printed	Access Point, Door	Monitoring	Alarm Monitoring, I	
	🧐 Genera	Settings Volume as User and Associated Came as	Access Control Events			

Similarly to SIS, event types can be categorized in XProtect Management. When data on event types are imported from SIS, the SIS plugin will observe event type setups in SIS (which of them are set up to be or not to be monitored for or processed as alarms) and try to find a category in Milestone to match each of them.

These default setups can be edited in XProtect Management for each event type. Proceed as follows:

- Select an event type which you want to edit the categorization of.
- Open up the drop-down list of the relevant 'Event Category' data entry field.
- Use check-boxes to choose all categories that you want the event type to be included in.
- Use function <Save> to confirm your settings.

Ele gdit View Action Iools Help	Milestone XProtect Management	Client 2020 R2				- 1	⊐ ×
Image: Stel Neighting Image: Stel Neigh	<u>File Edit View Action Tools H</u> elp						
Site Navigation • A × Access Control • A Access Control Information • Access Control Information • Access Control Information • Access Control Pige Basics • Access Control • Access Control events • Access •	日 🦻 🚱 🗢 曲						
Access control events Devices Client Disable all Disable all	Site Navigation 🗸 🕂 🗙	Access Control	🚽 🕂 🛛 Access Co	ntrol Information			• 4
Enabled Access Control Event Source Type Event Category Image: System Dashbard Access Point, Door Monitoring Image: System Dashbard Image: System Dashbard Access Point, Door Monitoring Image: System Dashbard Image: System Dashbard Access Point, Door Monitoring Image: System Dashbard Image: System Dashbard Access Point, Door Monitoring Image: System Dashbard Image: System Dashbard Access Point, Door Monitoring Image: System Dashbard Image: System Dashbard Access Point, Door Monitoring Image: System Dashbard Image: System Dashbard Access Point, Door Monitoring Image: System Dashbard Image: System Dashbard Access Point, Door Monitoring Image: System Dashbard Image: System Dashbard Image: System Dashbard Access Point, Door Monitoring Image: System Dashbard Image: System Dashbard Image: System Dashbard Access Point, Door Alarm Monitoring, War. Image: System Dashbard Image: Sourd Settings Image: System Dashbard Access Point, Door Image: System Dashbard Access Point, Door Access Point, Door Access Point, Door Access P	Site Navigation • 0 × 0 × • HUSZEL0071 - (20 2a) • Basics • Servers • Client • Client • Rules and Events • Southy • System Dashboard • System Dashboard • Atarma Definitions • Alarma Definitions • Sound Settings	Access Control	Access Co Access Co	ntrol Information SS Control events he events you want to monitor in XPr all Disable all d Access Control Event inspection finished Interface fault Interface fault Interface fault Interface fault Invalid gate Invalid Ingerprint Key case colored Key case colored Key case colored Latch sensor castraet tefined Castram The Station The St	Source Type Access Point, Door Access Point,	Ify the use of triggering events. Event Category Monitoring Monitoring Monitoring Monitoring Monitoring Alarm Monitoring, Monitoring, W Al categories Alcess granted Access granted Alarm	

'Cardholders': Cardholders

This window is available for viewing details on persons defined in SIS Client program. Personal details are forwarded on an ongoing basis. That is to say, whenever a change is made to them in SIS client program, it will be forwarded by SisConnect to SeawingAccessControl plugin, and hence XProtect program, automatically.

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Refer to section Data Synchronization.

Access Control	▼ ‡	Access Control Information				– 4
Access Control		Cardholders				
		Search for cardholders to view, a access control event has been re	add or delete a picture of the cardho egistered.	older.	The cardholder picture is used in the XProtect Smart Client, when a	a
		Search cardholder	Q			
		Name	Туре		Anabell Wilson	
		Abigail Brown	Employee	\sim	Employee	
		Admin Morton	Employee		Select picture	
		Aladin Atkin	Employee		Delete nicture	
		Alexander Dallas	Employee			
		Amelia Anderson	Employee		l 👗	
		Anabell Wilson	Employee			
		Anabell Wilson (SEA011)	Private vehicle		Valid from: 2018. január 1., hétfő 00:00	
		Andrea Baker	Employee		Expiry date: 2050 január 28. péntek 23:59	
		Andrea Blye	Employee		Denartment: Manufacture	
		Ava O"Brien	Employee		Employee ID: 91005	
		Ava Wilson	Employee		E-mpily anabel wilson@assaablov.com	
		Barbara Allen	Employee		Phone: 06/30/123-4567	
		Bell Bell	Employee		Prom: 201	
		Benjamin Wilson	Employee		Room. 201.	
		Bennett Bennett	Employee			
		Berton Taylor	Employee			
		Bertram Johnson	Employee			
		Bethany Davis	Employee			
		Betty Anderson	Employee			
		Bob Baker	Employee			
		Callum Smith	Employee			
		Carol Bad	Employee			
		Charlie Cyrus	Visitor Vehicle			
		Charlotte Evans	Employee			
		Daniel Cyrus	Visitor Vehicle			
		David Cyrus	Visitor Vehicle			
		David Murphy	Visitor			
		Delila Williams	Employee	\sim		_
		🍪 General Settings 👒 Doors	and Associated Cameras 🛛 🎨 Acc	cess C	Control Events 🤴 Access Request Notifications 🤰 Cardholders	

Alarm definition – Alarm Events

The alarm window of Milestone XProtect Smart Client program will visualize events that have been included in categories with an alarm definition assigned to.

To add an alarm definition, proceed as follows:

1. When in Milestone XProtect Management Client program, select menu option 'Alarms / Alarm Definitions'.



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2. Right-click to get a floating menu displayed and click function <Add new...>.



- 3. Enter all necessary details:
 - Enable: It must be selected.
 - Name: Optional
 - Triggering event: 'Access Control Event Categories'

Choose a desired event type category underneath ('Alarm Monitoring' is recommended). Note: You can query for and edit event type categories via the Access Control Events window under Access Control of Management Client (refer to 'Access control events' – Event Types).

Alarm Definitions 🛛 👻 🕂	Alarm Definition Information		-
Alarm Definitions	Alam definition		
SIS Alarm Definition	Jarm Definition Enable: Name:		
		SIS Alarm Definition	
	Instructions:		^
			~
	Trigger		
	Triggering event: Access Control Event Categories	Access Control Event Categories	~
		Alarm Monitoring	~
	Sources:	All doors	\sim

- Sources: 'All doors'. It will define access points the events of which your alarm definition shall apply to.

The rest of parameters are optional and available for fine tuning.

4. Use function <Save> to confirm your settings.



Important: Events meeting these criteria will not be visualized in any alarm views of XProtect Smart Client unless you confirm your settings.



Milestone – Webline

Some parameters offered by AssaSWAC plugin will enable the user to call for functions of Seawing SisWeb module from **Access Control** panel of Milestone XProtect Smart Client program, provided that SisWeb has been installed.

On 'General Settings' panel of 'AccessControl', enter the name of the SisWeb server and define a set of functions to call for.

Milestone XProtect Management Client	int 2020 R2				
File Edit View Action Tools Help					
🗏 🦻 😧 🗢 🛍					
Site Navigation A	access Control 🗸 🗸	Access Control Information			
Setter strangenetic Implementation Implementation Implementation Implementation Implementation Implementation Implementation	General settings Enable: Name: Description:	ASSAABLOY Seawing - :	SIS		
- Re Access Control Transact B & Alarms		Integration plug-in: Last configuration refresh:	ASSA ABLOY Seawing A 2021.04.12 12:21 Refresh Configuration	Access Control (Version: 1.0.0.0, 1.0)	
		SISCom IP Address:	10.16.193.21		
		SISConnect Port:	4443		
		SiS Web User:	milestoneadmin		
		SiS Web User Password:	•		
		Event polling period (ms):	2000		
		Verbose logs enabled:	10071		
		SiSWeb: Cardbolder editor command enabled:			
		SiSWeb: Visitor appointment command enabled:	 ✓ 		
		SiSW/eb: other commands:			
		General Settings 🔏 Doors and Associated C	ameras 🛛 🍖 Access Contr	rol Events 🅡 Access Request Notifications	1 Cardhol

Currently, there are two built-in functions available, including 'Cardholder editor command', a personal details editor, and 'Visitor appointment command', a panel for making appointments for visitors. Use the relevant check-box to enable call of each:

SiS\	Neb server:			HUSZEL0071
SiS\	Veb: Cardholder editor command	enable	ed:	✓
SiS\	Neb: Visitor appointment commar	nd en ab	oled:	✓
Ac	cess control administration	-	\boxtimes]
	Cardholder management			
i eq				



SisWeb other command: This field is available for entering the URL of an additional WebLine function. This is to ensure that the user can call for a WebLine function via Milestone XProtect client program.

Enter an URL in the following format:

<Name of function (menu option)> : SisWeb function URL without Web server.

Example

List of events:

SiSWeb server:	HUSZEL0071
SiSWeb: Cardholder editor command enabled:	\checkmark
SiSWeb: Visitor appointment command enabled:	\checkmark
SiSWeb: other commands:	Event list:SisWeb/WebLine/Lists/EventList

'List of events: SisWeb/WebLine/Lists/EventList'

'EventList': The command to call for the URL will be accessible by this name.

		2021.05.03 9:38:40	_			x
Access Control			+	8	9	~
		Access control administration	on		^	\boxtimes
e XProtect video management sof	Cardholder management				:	
	······································	Visitor appointment				
		Event list				

Multiple functions and their respective URL's can be defined, separated by a ';' sign. For example: Tag management : SisWeb/WebLine/TagEditor ; Event list : SisWeb/WebLine/Lists/EventList ; etc

Click function button 'Access control administration' in Access Control window of Milestone XProtect Smart Client program to display the floating menu that offers all available WebLine interfaces to call for.



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									-	0 ×
WebLine - Person editor × +								•		
← → C ▲ Nem biztonságos huszel0071/!	SisWeb/WebLine/PersonEditor							☆ O	new 🕈	1
Person editor								Bell Bell	8 (x =
Name	General 🔹 🔍									
.	Basic data Other data Labour dat	a Entitlement groups Indiv		Effective entit	lements Work history				Card fund	tions 🔺
—	La	st name	Middle name		First name		Title		Ŭ	
E	Pe	son Name			Person type		Employee id		Tag va	lidation
				Ψ.	Contractor	T				
	De	partment	Site		Company		Superior			 X
		T	All	T	All	Ŧ	Select a person	Ψ	lag inv	alidation
					Contract from		Conctract till			
									Tag	issue
	Categories									
									ė	
	Tags			6 1.1.1		1.1.			Tag wi	hdrawal
	Card number	FC		Status		Index		<u>^</u>		
									Ŭ	8
									Downloa	i tag rights
									Functions	•
	< l							÷		
Display photo: 📃 🔟	- Delete + New						X Cancel	🖋 OK		

What is stated in section Data Synchronization will also apply to operations, such as addition of a new person, done via SisWeb program. That is to say, any changes made will be forwarded to Milestone system immediately.

Example:

	WebLine - Person editor × +							0	- 0	×
<	→ C ▲ Nem biztonságos huszel0071/	SisWeb/WebLine/PersonEdit	tor					☆ 0	💼 🛪 🔳) :
÷	Person editor							Bell Bell	8 🏚	:
ø	Name	General 🔻	Q							
	A	Basic data Other data	Labour data Entitlement gro	oups Individual er	ntitlements El	ffective entitlements	Work history Documer	its	Card functions	•
			Last name	Middle name		First name	Title			
1			Seawing			Martin	Developer		Tag validatio	on
			Seawing Martin		•	Employee	▼ 158004			3
			Department	Site		Company	Superior		Tag invalidati	K ion
			Development	• All	•	Contract from	Select a perso Conctract till	n 🔻		a
								t i		•
		Categories							lag issue	_
		These								
		Card number	FC		Status		Index		Tag withdrav	val
								*		
									Download tag r	3 rights
									Functions	•
								~		
		4						•		
	Display photo: NO	- Delete + New	v				× Cancel	🗸 ОК		



SmartClient program – Cardholders:

Live Playback Search Alarm Manager Access Control Image: Control Access Control Image: Control Image: Control Image: Control Imag
Seaving Martin Inployee Type Seaving Martin Imployee Mane Type Seaving Martin Imployee Type Type
• 9336 Stank you for using this trial ickness to demonstrate or evaluate the XPhotect video management software. The trial ickness copies of 2000 this 2, to fully license the product, please contact your reselver of find one on www.mileto. X
Events Doors Seawing 3 Name Type Seawing Martin Employee Seawing Martin Employee Seawing Martin Employee Seawing Martin Employee Vew carthoder events

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Data Synchronization

Personal Details (Cardholders)

Personal details can be entered and edited via the SIS Client program. Any changes as may be made to personal details, including addition of new persons, editing of personal details, and deletion of persons, will be forwarded by SIS to Milestone system immediately.

Changes will be visualized on Access Control 'Cardholders' panel of Milestone XProtect Smart Client.

Example: Addit	ion of a new pers	son						
Milestone XProtect Smart Clier	nt				2021.04.12 11:06:57	-	=	×
Live Playback	Search Alarm Manager	Access Control				• (9	
					Access control administratic	on		X
10:55:44 Thank you for using th	is trial license to demonstrate or evaluate the	XProtect video management s	oftware. The trial license expires on 2021.09.24	. To fully license the product, please	conta			×
Events Doors Cardholde	n O <i>G</i>				Seawing John Employee Expiry date (no expiry)			
Name	Туре				Department			
Seawing Anna	Employee				HR Employee ID 95810 View cardholder eve	nts		

Assignment of a photo to a person via SIS (an instance of editing):





These data will be sent in JSON format by SISCOM – SisConnect module to the Plugin, and on by the Plugin to Milestone.

Example:

2021.04.12 14:59:03.3238 ; Send Response -

{"PersonList":[{"ID":2230,"TypeCode":"E","Department":"Fejlesztés","Name":"Liza

SEAWING", "ValidFrom":null, "ValidTo":null, "Platenum":null, "EmployeeId":null, "Univaz":null, "Company":null, "Site":null, "V alidTags":"", "Email":"liza.seawing@milestonetest.hu", "Phone":null, "Room":null}]}

2021.04.12 14:59:03.3298 ; Send Response -

Field name	Description
ID	Unique identifier of the person in question.
TypeCode	 Type of the person: E: Employee C: Contractor H: Company car V: Visitor HP: Private car HV: Visitor car
Department	Organization unit the person / car belongs to or the receiving organization unit for a visitor.
Name	Name of the person.
ValidFrom	Starting date of contract term, or starting date of visitor card validity for a visitor. Format: 1990-01-01T00:00:00

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ValidTo	Closing date of contract term, or expiry of visitor card for a visitor. Format: 2022-02-08T23:59:59
Platenum	Plate number of the car in question or NULL for a person.
EmployeeId	ID No.
Univaz	UNIVAZ
Company	Company name
Site	Site address
ValidTags	Serial number of the card issued to and enabled for the person / car, including FC
Email	E-mail address
Phone	Phone number
Room	Office (or Room) No.
Image	Photo of the person in question

Card operations, and editing access rights

SIS Client (or SisWeb) program is available for carrying out operations as follows:

- issuing cards to persons,
- enabling / disabling cards,
- editing access rights.

These changes will not be subject to synchronization. All controllers in the system, and access points controlled by them, will operate, allowing or not allowing one to pass through, in accordance with the relevant setup in SIS Client.

Data on token readouts and their outcome, i.e. the events triggered, will be immediately forwarded to Milestone XProtect, using the relevant communications protocol.

Transfer of events

Any events as may occur in the access control system will be sent in JSON format by SISCOM – SisConnect module to the Plugin, and on by the Plugin to Milestone.

Example for JSON:

2021.04.12 15:04:22.0583 ; Send Response -

{"EventList":[{"EventID":148890,"EventTypeCode":"E233","Time":"2021-04-12T15:04:35+02:00","DeviceID":7780,"Pers onID":1050,"TagID":1360,"Direction":"I","DevStatusToSet":0,"DevStatusToReset":0}]}

2021.04.12 15:13:05.6984 ; Send Response -

{"EventList":[{"EventID":149060,"EventTypeCode":"E212","Time":"2021-04-12T15:13:18+02:00","DeviceID":7790,"Pers onID":null,"TagID":null,"Direction":null,"DevStatusToSet":2097154,"DevStatusToReset":0}]}

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2021.04.12 15:13:07.7318 ; Send Response -

{"EventList":[{"EventID":149080,"EventTypeCode":"E213","Time":"2021-04-12T15:13:25+02:00","DeviceID":7790,"Pers onID":null,"TagID":null,"Direction":null,"DevStatusToSet":0,"DevStatusToReset":2097152}]} 2021.04.12 15:13:13.7772 ; Send Response - {"AckEvnIds":[],"ClosedEvnIds":[],"RestoredEvnIds":[149060]}

Field name	Description
EventID	Unique identifier of the event in question.
EventTypeCode	Code of the event, e.g. E233 for 'Pass-through'
Time	Time when the event has occurred.
DeviceId	Unique identifier of the device (access point) involved in the event.
PersonID	Unique identifier of the person involved in the event if any, or NULL if there is no card-holder involved with the event.
TagID	Unique identifier of the card involved in the event if any, or NULL otherwise.
Direction	Sense of passage. I=In; O=Out NULL if there is no sense of passage related with the event.
DevStatusToSet	The event will drive the device involved to assume the status given here.Device status.0: Normal2: Alarm ???
DevStatusToReset	Previous device status code. Examples: E212 for 'Left open' DevStatusToSet":2097154,"DevStatusToReset":0 E213 for 'Got closed': ,"DevStatusToSet":0,"DevStatusToReset":2097152

Access points

New access points can be added and parametrized (setup) via SIS Client program.

These data will **not** be subject to synchronization automatically.

When in XProtect Management program, select Access Control and use function button [Refresh Configuration] on the right side of the window to import these data:



Milestone VProtect Management Client 2020 P2		
File Edit View Action Tools Help		
8 7 8 ₹ 8		
Site Navigation - 4 × Access Control - 4	Access Control Information	▼ [‡]
Image: Service	General settings Enable: Name: Description: Integration plug-in: Last configuration refresh: SISCom IP Address: SISCom refresh: SISCom refresh	ASSAABLOY Seawing - SIS ASSAABLOY Seawing Access Control (Version: 1 0 0 0, 1 0) AV10 10 10 10 10 AV10 10 10 10 AV10 10 10 10 AV10 10 10 10 AV10 10 10 AV10 AV10 10 AV10 10 AV
	General Settings 🔊 Doors and Associated C	Cameras 🎨 Access Control Events 🌾 Access Request Notifications 🥼 Cardholders

As a result, XProtect will query SIS system for access points, event types, and persons again, and visualize changes if any:

Update Configuration	×
Update Configuration	
Collecting configuration data	
Configuration successfully received from access control system.	
Added:	
Doors (1) 💌	
Apply Cancel]

Click function [Apply] to get all new data imported.



XProtect Smart Client

Visualizing Events

Any events as may occur in the access control system, including, among others, instances of pass-through or invalid tokens, will be received and forwarded via RestApi protocol by the communications program of SIS to XProtect video management system. These events will be visualized in respective views of Milestone XProtect Smart Client.



Live Access Control monitor:

List of events in the access control system:



Mileston	e XProtect Sr	mart Client					2021.05.03 11:52:11 🗕 🗆 🗙
Live	Playback	k Search	Alarm Manager 🔞	Access Control			◆ @ † ∨
							Access control administration
Events Search ca	Doors (Cardholders	۹ <i>۵</i>				
roday 👻	All events	✓ All doors ▼			Access report		
Interruption	ns registered ir				носсая терот	- WWOTEK ED9161 (192.16	8 78 72) - Camera 1 - 2021 05 02 11:47:40 075
Time 👻		Event	Source	Cardholder			
2021.05.03 11	1:47:54	Passage	11120 OFFICE (In)	Amelia Anderson			
2021.05.03 11	1:47:51	Passage	11120 OFFICE (In)	Aladin Atkin			
2021.05.03 11	1:47:49	Passage	11120 OFFICE (In)	Abigail Brown			
2021.05.03 11	1:47:41	Passage	11120 OFFICE (In)	Amelia Anderson			
2021.05.03 11	1:47:32	Invalid tag	11120 OFFICE (In)	Andrea Baker			
2021.05.03 11	1:47:31	Passage	11318: OFFICE (In)	Andrea Baker			
2021.05.03 11	1:47:28	Passage	11318: OFFICE (In)	Amelia Anderson			
2021.05.03 11	1:47:24	Passage	11318: OFFICE (In)	Alexander Dallas			
2021.05.03 11	1:47:19	Passage	11318: OFFICE (In)	Aladin Atkin			
2021.05.03 11	1:47:16	Passage	11318: OFFICE (In)	Abigail Brown			
2021.05.03 11	1:46:57	Invalid tag	11318: OFFICE (In)			4 4	11.47.41.000 🕨 🕨 11.48
2021.05.03 11	1:46:00	No passage	11318: OFFICE (In)	Alexander Dallas			
2021.05.03 11	1:44:42	No passage	11318: OFFICE (In)	Aladin Atkin			
2021.05.03 11	1:44:38	No passage	11318: OFFICE (In)	Abigail Brown		Passage	
2021.05.03 11	1:41:03	Permanent state end	11120 OFFICE				
2021.05.03 11	1:39:17	Permanent state end	11120 OFFICE			Time	
						2021.05.03 11:47:41	
						Source	
						TTI20 OFFICE (in)	
							Amelia Anderson
							Employee
							Valid from 2021 március 19. csütörtök 00-00
							Evolution date
							(no expirv)
							Department
							COMPANIES
							Card
							3004 (FC:255)
							Employee ID
							T36

Visualizing and Handling Alarms

Any events as may occur in SIS access control system and been defined to qualify as alarms in Milestone XProtect program, will be visualized in views titled 'Alarms' and a panel known as 'Alarm Manager' in Milestone XProtect Smart Client program.



Milectone XProtect Smart (1)	lient		nc)21.05.03.11-55-31 🗕 🗆 X
Line Disubash		A	120	
Live Playback	Search Alarm Man	Access Control		
				Setup 🔀
🏫 < 🔿 🏵 TÉRKÉPLAP			VIVOTEK FD8161 (192.168.78.73) - Camera 1 -	2021.05.03 11:47:11.633
Elépés egy biztonságos világba.	1VOTEK FD8161 (192.1)	68.78.73) - Camera 1 OFFIŒ		
0318004			1130 4 2 021.05.03 11:47:1	2.530 II ►
Quick Filters	Events All Events (filter ag	pplied) V Clear filter	11:30 11:47:111:3011:47:1	2.530 ► 1-100 >
Quick Filters	Events All Events (filter ag	pplied) V Clear filter Message	1130 - 2021.05.03 11:47:1	2.530 ⊫ 1-100 > 10
Quick Filters	Events All Events (filter ag	pplied) V Clear filter Message Passage	11:47:1 11:30 ◀ ◀ 2021.05.03 11:47:1 Source 11120 OFFICE (m)	2,530 ► 1-100 > ID 141567
Quick Filters	Events All Events (filter ag Time 11:47:54 2021.05.03 11:47:51 2021.05.03	pplied) V Clear filter Message Passage Passage	Source 11:20 OFFICE (m) 11:120 OFFICE (m) 11:20 OFFICE (m)	2.530 ► 1-100 > 10 141567 141566
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Quick Filters V All Events Servers HUSZEL0071	Events All Events (filter a) Time 1147-54 2021 05.03 1147-51 2021 05.03 1147-51 2021 05.03 1147-32 2021 05.03 1147-33 2021 05.03 1147-33 2021 05.03 1147-32 0021 05.03 1147-32 00	pplied) Clear filter Message Passage Passage Passage Passage Server connected Server connection lost Invalid tag Passage Pass	Source 11:20 OFFICE (m) 11120 OFFICE (m) 111:47:1 11120 OFFICE (m) 111:20 OFFICE (m) 11120 OFFICE (m) 11120 OFFICE (m) 11138: OFFICE (m) 1138: OFFICE (m) 1138: OFFICE (m) 1138: OFFICE (m) 1138: OFFICE (m) 1138: OFFICE (m)	2,530 ► 1-100 > D 141567 141565 141565 141565 141564 141563 141561 141561 141561 141569 141559 141558
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Any event as may be sent by SIS will be regarded as alarm by Milestone if such event falls in a category that has been associated with an alarm definition beforehand. Events can be categorized via Milestone XProtect Management program. Refer to section Alarm definition – Alarm Events

Handling alarms via Milestone XProtect Smart Client and SIS Client programs

Alarm events need to be handled via both XProtect and SIS systems.

Alarm events can be detected or deleted in SIS, while they can be acknowledged, suspended or closed in the Alarm List of XProtect Smart Client.

Note: Deletion of an alarm event via SIS Client implies removal from the monitor rather than physical deletion of the event.

Again, AssaSEAW Plugin will seek to synchronize alarm event statuses across the two systems.

SIS Client to XProtect Smart Client:



- an event detected via SIS Client program will assume status 'In progress' in XProtect Smart Client program; or
- an event deleted via SIS Client program will assume status 'Closed' in the other.

XProtect Smart Client to SIS Client:

 an event acknowledged via XProtect Smart Client will be presented as 'detected' in SIS Client program; or

- an event closed via XProtect Smart Client will be presented as 'deleted' in the other.

Suspension cannot be handled by SIS Client.

Device Statuses and Device Operations

Any events occurring on devices of the access control system as XProtect Management Client program may have been set up to handle (or enable), will be forwarded by AssaSWAC Plugin to Milestone.

Events fall into either of two categories according to their triggers. The one category includes events, such as 'Pass-through', 'Invalid token', or 'No passage through', that are triggered by readout of an access token held by a person.

The other category includes events, such as 'Permanent open' or 'Remote open', that are triggered by **device operations** initiated via the systems.

These events often involve **device status changes**.

Any device status changes as may result from device operations will be forwarded by Plugin to Milestone video management program immediately.

Milestone system will allow the user to initiate device operations as written below concerning access points.

Remote open / Open

In SIS Client program: Remote open In Milestone XProtect Smart Client program: Open

With this device operation done, the door opener relay of the access point involved will be activated for a period of time as set up via SIS program, allowing passages through the access point without having a card read out. That is to say, the door is openable.

This device operation will trigger an **event** which both systems will visualize:

millestone.

2021.04.13 8:52:02 Remote open MAIN ENTRANCE

SIS:

Remote open 2021.04.13 8:52:02 MAIN ENTRANCE

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Screenshot – Driving an access point to assume 'Permanent open' state via SIS Client program:

The current device status will be visualized in XProtect Smart Client program:



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The device status change resulting from a device operation that has been initiated via Milestone XProtect Smart Client program, will be copied by SIS:



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Last diarras

Air

Used filters: Row count limit: 20 Device : 11120 OFFIC

> Tel.: +36 22 510 170 Fax: +36 22 510 171 info.seawing@assaabloy.com www. seawing.eu • www.assaabloy.com

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Card-openable / Lock

In SIS Client program: Card-openable In Milestone XProtect Smart Client program: Lock

The access point in question will assume 'Normal' state, and people can pass through the access point upon having their valid cards read out. Each reader of the access point uses a blue LED to indicate this status.

The status of the access point as visualized on Status Details panel of the device in Milestone XProtect Smart Client program:

13921 OFFICE		Х
Name	Value	Unit
State	Closed, Locked	
t		

Closed: The door is closed.

Locked: The device is in normal state.

Icon representing the device:

The device operation will trigger an **event** if it is from a state of 'Permanent open' that the access point is driven to assume normal state:

Milestone:

2021.04.13 8:52:02	Permanent state end	MAIN ENTRANCE
SIS:		
Permanent state end	2021.04.13 8:52:02	MAIN ENTRANCE

Permanent open / Unlock

In SIS Client program: Permanent open In Milestone XProtect Smart Client program: Unlock

The access point in question will be driven to assume a state of 'Permanent open', and people can pass through without having their cards read out. Each reader of the access point uses a green LED to indicate this status.

The status of the access point as visualized on Status Details panel of the device in Milestone XProtect Smart Client program:



13921 OFFICE			х
Name	Value	Unit	
State	Closed, Unlocked		

Closed: The door is closed.

Unlocked: The device is in 'permanent open' state.

Icon representing the device:

Devices in alarm state

Milestone XProtect Smart Client will signal alarm at an access point if there is an alarm event involving that access point which has not been handled yet, i.e. the alarm event status is 'New'. This status will be visualized in the map view:



The signal will disappear the moment the status of the alarm event changes.

The two systems define and visualize the alarm status of devices (or access points) differently. SIS Client program handles alarm events and device statuses separately. Any incoming alarm event, e.g. 'Intrusion', will be visualized on the alarm monitor and, concurrently, the device affected will assume alarm state. When an alarm event is handled via SIS Client, the access point involved will not return to normal state in response automatically, but require acknowledgement to do so.

Note: Acknowledgement will make the device return to normal state only if the triggering circumstance has ceased. For example, a "Left open' alarm can be acknowledged only upon receipt of a 'Got closed' event.

On account of the logic outlined above, visualization of devices in alarm state will differ in the two systems, and hence, the device status signals in SIS Client may be different from those in Milestone XProtect Smart Client program in this respect.

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