Technical Document

Niagara Enterprise Security Reference

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Niagara Enterprise Security Reference

Tridium, Inc. 3951 Westerre Parkway, Suite 350 Richmond, Virginia 23233 U.S.A.

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About this reference

Niagara Enterprise Security 4.9 (the system) is a fully-featured product designed to manage building access control in both small and large installations. This document is especially valuable for learning about individual properties, views, windows and reports.

Audience

The information in this reference is for Systems Integrators and Facility Managers who are responsible for configuring the tools used to manage complex building systems.

Document Content

This reference explains each property and system component.

Product Documentation

This document is part of the Niagara Enterprise Security technical documentation library. Released versions of this software include a complete collection of technical information that is provided in both online help and PDF formats.

Document change log

This topic provides a summary list of the changes made to this document.

April 23, 2020

- Added component chapter to document the accessDriver module.
- Added video controls to Video Playback topic.
- Removed reference to view title on Add New User view (not included in this version of software)
- Added missing property descriptions.
- Removed references to the passkey, which is no longer supported.
- Reorganized video views in the Remote Devices chapter in a more logical order.
- Reused a number of property descriptions, expanded some descriptions and added missing descriptions.
- Added the Maxpro video driver.
- Updated Milestone topics.
- Updated the WebService Web Launcher properties.

August 8, 2019

- Updated procedure for creating MySQL database to include creating a user other than "root."
- Removed references to the system passkey, which is no longer required.

December 13, 2018

- Added two topics for NTP server views.
- Added content to the Milestone DVR and video camera topics. Changes are in the Controller (System) Setup — Remote Devices chapter.
- Made general edits to several additional topics throughout the document.

September 17, 2018

• Initial release.

Related documentation

Several documents provide additional information about this software.

- *Niagara Enterprise Security Operator's Guide* provides procedures for daily activities including badge creation and alarm management.
- *Niagara Enterprise Security Facility Manager's Guide* provides procedures for managing personnel and system components.
- *Niagara Enterprise Security Installation and Maintenance Guide* serves the needs of the system integrator who is responsible for setting up and configuring the system.
- Niagara Station Security Guide
- Niagara FIPS 140-2 Configuration Guide
- Niagara Video Framework Guide

Chapter 1 Home

Topics covered in this chapter

- Standard control buttons
- Column Chooser view
- Controller (System) Setup views
- ♦ User interface
- Graphics configuration
- Standard properties

The home page menu provides access to the other primary menus by displaying a main menu page and an expanding navigation menu.

Figure 1 Home menu with Personnel expanded



The screen capture shows examples of two home menus. The one on the right includes the Photo ID network.

- Monitoring provides access to the alarm console, activity monitor and video monitoring menu items.
- **Personnel** provides access to people-related views, such as badge, access right, tenant, and personnel views.
- **Reports** provides access to history reports (such as alarm history and attendance history) as well as hardware reports that list types of equipment included in the system.
- **Controller Setup** (System Setup) provides access to a wide variety of configuration menus that you can use to setup hardware, alarms, access and intrusion zones, and other functions.

NOTE: For Supervisor stations, the Controller Setup menu is titled System Setup.

- Photo ID Network manages the components used to create photo IDs.
- Threat Levels configures how the system responds to external threats.

Secondary menus provide access directly to views or to menu pages that contain additional related links.

Standard control buttons

Many views include a row of almost square, control buttons along the top of the view. While some control buttons in each view serve specific, view-related functions, a number of these buttons are present in almost every view. The documentation for an individual view may or may not include a description of these buttons.

Figure 2 Control buttons example



Control buttons are context sensitive to the data and type of view. Tool tips identify the function of each control button. Buttons are dimmed when the function is unavailable. These are the most common buttons that may not be defined in the topics that follow:

- O Add opens a view or window for creating a new record in the database.
- E Assign Mode buttons open and close the Unassigned pane.
- Column Chooser opens the Columns for... view from which you can add data columns to, remove them from, and reorder them in the current table.
- Old Delete removes the selected record (row) from the database table. This button is available when you select an item.
- Discover opens the Discover window, which defines the database search. Based on this information, the discovery job interrogates the target location for data, such as historical and current point values as well as properties provided by the database.
- Duplicate opens a New window and populates each property with properties from the selected item. Using this button speeds the item creation.
- 🕑 Edit opens the component's Edit window.

B Export opens the Export window for creating a PDF or CSV formatted report of the current table.

- 😨 😨 Filter buttons open the Filters window, which defines a query action for limiting the output visible in tables and reports. The gray version indicates unfiltered data. The red version indicates filtered data.
- Image: Hyperlink links to the edit view or window for the selected item. It is the same as double-clicking the table row. This button is available when a single record is selected.
- Discovered pane in a manager view to show or hide the control buttons and any discovered items (devices, points, database properties, etc.).
- Manage Devices/Drivers opens the Manage Drivers or Manage Devices window, which is used to Add, Delete, Rename, Duplicate, Copy, and Cut system drivers or devices.
- Anage Reports opens the Manage Reports window from which you can add a report or schedule a report to be emailed.
- 💹 or 🖸 Ping (or wink) sends a command to the remote device or server.
- Duick Edit opens the **Quick Edit** window for the selected item(s). This feature allows you to edit one or more records without having to leave the current view.
- 🖪 Refresh updates the table, clearing row selections in all panes.

• Dummary opens the Summary window for the selected item, which shows how item properties are currently configured. Double-clicking on any row in a table opens the Summary tab, which contains the same information as the Summary window.

Column Chooser view

This view configures the columns to include in a table view. The columns to choose depend on the particular target view.

Figure 3 Example of a Column Chooser view

🚰 Home 🛛 ốơ N	Nonitoring	Personnel	Reports	🛱 Controller S
🧟 People 🔓	Badges 📑	Access Rights	🌖 Tenants	🎭 Additional I
Columns for Peo	ple			
Name	Display Na	ame	From Type	•
lastName	Last Name		entsec:Pers	on
firstName	First Name		entsec:Pers	on
department	Department	t	entsec:Pers	on
personType	Person Typ	e	entsec:Pers	on
tenantName	Tenant Nan	ne	entsec:Tena	ant
Row Type ent	tsec:Person	~		
Report Type Op	timized 🗸			
Pre-Filtering fals	se 🗸			
Add Column	6 Default T	able		
From		Property	Linked	Property
entsec:Person		Last Modified		
entsec:PersonZoneJoi	n (person)	Person Id		
entsec:PersonLdapServerJoin (person)		Last Name		
entsec:SupervisorZoneJoin (person)		First Name		
entsec:Badge (owner)		Middle Initial		
entsec:PersonInfo (person)		Employee Id		
entsec:PersonAccJoin (person)		Department		
	(r /	Person Type		

To open this type of view, click the Column Chooser button (🕮) at the top of a table.

The table at the top of this view lists the columns currently included on the target table view. The table at the bottom of this view provides the mechanism for choosing the properties to include as table columns.

Control buttons

In addition to the standard control buttons (Save, Edit, Delete, Column Chooser and Export) these buttons provide specific functions:

• Move Up and Move Down change the sequence of rows in the direction indicated one selected row at a time.

Links

- Add Column adds the selected column to the table, which appears as a row in the table at the top of the view.
- **Default Table** removes any added or reorganized table columns and returns the table to the default columns.

Properties

Property	Value	Description
Row Type	read-only	
Pre-Filtering	true or false	Controls the availability of filtering options.
	(default)	true opens the Filter window each time the system opens a Person page.
		false opens the Filter window only when you click the Filter button ().
From column	drop-down list	Selects the source tables from which to select additional col- umns for the current table.
Property column	drop-down list	Lists the source table's properties from which to choose an ad- ditional column. Clicking Add Column adds this property to the current table.
		Some properties are linked to the additional properties. Click- ing a property in the Property column populates the Linked Property column.
Linked Property	drop-down list	Displays the properties of another table that is linked to this table. Clicking Add Column adds a property from the related table to the current table.
		For example, Person is linked to the Access Rights and Tenant. When you select Person in the From Column, it displays the properties of Person in the Property Column. When you select Tenant in the Property Column, it displays the properties of Tenant in the Linked Property column.

Controller (System) Setup views

Setup views configure system components and network properties, as well as user preferences and other variables.

In a Supervisor station, the views are part of **System Setup**, whereas, in a remote host controller station, these views are part of **Controller Setup**. The differences have to do with configuring Supervisory components vs. configuring the devices connected to each controller. Many functions are available in both interfaces.

Supervisor System Setup views	Controller Setup views
Schedules	Schedules
User Management	User Management
Backups	Backups
Remote Devices	Remote Devices
Access Setup	Access Setup
Intrusion Setup	Intrusion Setup
Alarm Setup	Alarm Setup
Miscellaneous	Miscellaneous

Figure 4 Example user interface

User interface

When you log in, the user interface screen displays with the main menu across the top of the screen.

(2)	🕜 Help 🙎 Logout
🚰 Home 🛛 ốơ Monitoring 🔒 Personnel 📄 Reports 💣 Controller Setup 🧃	
📑 Schedules 👗 User Management 📭 Backups 💣 Remote Devices 🚿 Acces	s Setup 💣 Intrusion Se
🗟 Save 🖉 Manage Devices 😂 Access Network 3	
Base Reader Module Doors Elevators Additional Points Burglar Panels U	nlock Inputs 4
Status {fault}	\cup
Alarm Class Medium V BVideo Setup 5	
Enabled true V	
	/
1. Title bar	
2. Menu bar	
3. Links	

- 4. Tabs
- 5. View area

Title bar

This title bar area along the top part of the interface contains controls and indicators that are visible and available throughout the system:

- The station and system names are in the top right corner.
- Indicators and links are below the names.
- The Help and Logout links are always visible.

Menu bar

This bar is directly below the title bar. It contains two rows of menus that are visible by default. Some menu items, when selected, display another sub-menu view.

Menus may display different selection options depending on the user log-in type and whether or not the menu has been customized. You can customize menus to add links to new graphic views that you create.

View pane

This (largest) area of the interface extends across the lower portion of the system of the screen and displays the currently-selected view. Most views have a view title in the top left corner, control buttons and links below the control buttons. often information is grouped under appropriately-titled tabs.

Graphics configuration

A graphic provides a visual display of an access control area, can simulate actions including: doors opening and closing, readers scanned, intrusion zones enabled, etc., report on current conditions, and include buttons for implementing area-wide controls, such as turning on video surveillance and triggering threat level actions. A graphical representation of reality enables operational personnel to respond quickly to threats in real time.

Target media

Prior to Niagara 4.9, no custom Px graphics ran in a browser (required by the web UI). Instead, they used the Java Web Start applet, which ran outside of the browser. The release of Niagara 4.9 replaced Web Start with Java Web Launcher for Px graphics that still require an external applet. Other Px graphics support HTML5, which runs in a browser.

The Graphic Editor supports two client-side, Px Target Media technologies:

- HxPxMedia are designed for the web UI. Three widgets render in a browser using HTML5: LiveVideo-Player, Control Panel and CameraWidget. The remaining widgets: PanTiltJoystick, ZoomSlider, Mouse-DownButton and VideoMultistreamPane require Web Launcher and render outside of the browser.
- WorkbenchPxMedia are designed for the Workbench interface. When used in the web UI, all widgets require the Web Launcher (applet).

The Graphic Editor advises you if you use a feature in a widget that is not supported by the target technology.

Consider carefully the basic capabilities and limitations of each technology. Obviously, a mobile phone is limited as to what it can usably display when compared to a graphic viewed in a web browser running on a computer. Keep this in mind, and test your views in all target media as you develop them.

The Niagara Graphics Guide documents in detail the capabilities of Hx and Px graphics. The Niagara Video Framework Guide documents the videoDriver module and palette.

Summary steps

Configuring a graphical representation of a facility begins by hiring a graphics artist to create a set of threedimensional images to represent the building, including all areas, such as the parking lot or garage, to be monitored. The images should be readily recognizable as belonging to the facility, looking down from above each floor.



Figure 5 A 3D image of a floor in a building

The screen capture shows an image of a single floor in a building with overlaid controls for visually monitoring access control.

The general process of creating presentation views for access control follows these general steps:

1. Create a view

Creating a view sets up a canvas on which to construct a representation of your facility. This view establishes a relationship between a Px file and one or more components of various types, such as folders, doors and readers.

2. Add widgets

A widget is a graphic visualization of an access component. You add widgets to the canvas.

3. Bind your data to the widgets

Data binding passes data collected from the access components to the widgets. These bound data objects animate (update) the widgets in real time.

4. Create a nav file

A .nav file sets up a customized tree structure so that users can easily access your views. You edit the .nav file using the Nav File Editor and assign a particular nav file to a user in the user's profile (using the User Manager view).

5. Create and distribute a report

Reports display and deliver data to online views, printed pages, and for distribution via email.

Standard properties

Property	Value	Description
Status	read-only	Reports the condition of the entity or process at last polling.
		<pre>{ok} indicates that the entity is licensed and polling successfully.</pre>
		{down} indicates that the last poll was unsuccessful, perhaps because of an incorrect property.
		{disabled} indicates that the Enable property is set to false.
		{fault} indicates another problem.
		Depending on conditions, multiple status flags may be set in- cluding {fault} and {disabled}, combined with {down}, {alarm}, {stale}, and {unackedAlarm}.
Enabled	true or false	Turns the feature on (true) and off (false).
Fault Cause	read-only	Reports the reason why a network, component, or extension is in fault. Fault Cause is blank unless a fault exists.
Health	read-only	Reports the status of the network or component. This advisory information, including a time stamp, can help you recognize and troubleshoot network problems but it provides no direct network management controls.
Alarm Source Info	additional properties	Links to a set of properties for configuring and routing alarms. These properties are documented in the <i>Alarm Setup</i> topic of the PDF and in the help system (search for Alarm Source Info).

Many system property sheets include a set of common properties that provide status and other information.

Chapter 2 Monitoring views

Topics covered in this chapter

- ◆ Alarm Console ConsoleRecipient view
- Activity Monitor view
- Edit (configure) Activity Monitor view, Activity Monitor tab
- Video monitoring views

The Monitoring menus provide access to three system monitoring functions: Alarm Console, Activity Monitor and Video Monitoring.

The monitoring views include the:

- Alarm console views: Alarm Consoleand Recurring Alarms. The latest alarms are listed at the top.
- Activity Monitor views
- Video monitoring views

Alarm Console — ConsoleRecipient view

This multi-source view provides a real-time alarms table to manage alarms on a per-point basis.

🚮 H	lome	🖬 Monitoring 🔒 Personnel	Reports 🖓 System Setup	🛕 Threat Levels	niagara
	Alarm Co	onsole 🔺 Activity Monitor	7, Video Monitoring		
			& & = = A	II @ 🗟 🔽 (≱⇔∎₽₽₽
Time	e Range	🔽 🔯 ? to ?		6	Source(s) / 24 Alarm(s) 💙
	Info	Timestamp	Source	Message Text	
	4	04-Aug-18 6:56:00 AM EDT	RdbmsNetwork MySQLDatabase	Ping Failed	
	4	26-Jul-18 7:45:24 AM EDT	AxisVideoNetwork AxisVideoCamera	Ping Failed	
	4	04-Jun-18 8:42:51 AM EDT	Ldap Network Ldap Server	Ping Failed	
	.	21-May-18 4:11:01 PM EDT	System Backups	Backup could not be c	ompleted: java.security.Acc
	4	07-May-18 3:25:20 PM EDT	📓 Alarm Video		X
	4	03-May-18 1:17:48 PM EDT	ximate Time*** Normal <-> 15-May-09 10:5;	2:27.370 AM EDT: (Unacked	
<	Acknow	dedge 📾 Hyperlink	18-May-09 10:23:07.	814 AM EDT 069 6.016.7	g 🗄 Show Video

Figure 6 Open alarm sources view (Alarm Console with video alarm)

You access this view by clicking the **Monitoring** in the menu tree or by expanding **Monitoring** and clicking **Alarm Console**.

This view displays all the current alarms with constant live updates from a single, specific point. The latest alarms are listed at the top of the view. Each row represents an alarm source. The **Time Range** drop-down list and time picker button ((2)) to the left about the table columns filter the table by date and time.

Alarm Console control buttons

You work with the alarms in the **Alarm Console** view by selecting one or more rows and clicking a control button

Figure 7	Alarm	Console	row	of	buttons
----------	-------	---------	-----	----	---------

<u></u>	\$ @ 2	la	💕 🌒 🛃 🐥 urce(s) / 2935 Alar	🔳 💽 m(s) 💙
e State	Priority	Ack State	Alarm Class 🔺	Alarm V
ı	250	0 Acked / 3 Unacked	High	
l.	150	0 Acked / 1439 Unacked	Medium	true
1	150	0 Acked / 1485 Unacked	Medium	true

- Acknowledge the selected alarm(s) recognizes that an alarm state exists at the point(s) represented by the selected row(s) in the table. This button displays on the Alarm Console view and on the Recurring Alarms view.
- Acknowledge most recent alarm from selected source(s).
- 🕐 Go to alarm url opens a hyperlink to the location that generated the alarm.
- 🖾 Notes opens the Alarm Notes window, which provides a text field for adding descriptive information to one or more alarms.
- Remove alarm from console deletes all selected alarms from the table. This button is available to users who have invoke permission. Otherwise, this button does not appear.
- Eshow Alarm Details opens the Alarm Details window, which provides additional information about the selected alarm.
- 😨 🔄 The Filter alarms buttons open and close the **Filter Results** window from which you can limit the number of alarms based on alarm class, priority, etc.
- 🛛 🖳 The Toggle Sound buttons enable and disable the alarm sound.
- Plays alarm sounds continuously until silenced. For systems with critical alarms, such as those related to building security, you may want to have a continuous alert sound to be sure that the alarm is noticed and acknowledged.
- Set alarm console options opens the Multi Source View Options for the alarm console.
- 🖪 Selects all visible rows.
- Show open alarms for the selected source opens a view that includes all alarms for the source of the alarm you selected in the Alarm Console.
- B Shows a video applies to video alarms. With a video alarm selected, clicking this button opens a video playback window that automatically plays the associated video.
- D Shows AX Alarm Console opens the alarm console provided by earlier versions of the system.

Alarm Console columns

An event related to a device or point occurs. If the event generates a value that is outside of normal, the event triggers an alarm. The table provides a set of basic columns of information about the event, which triggered the alarm.

Clicking the down arrow to the right under the control buttons provides a list of columns you can include in the alarm console. The ones with check marks next to them are the ones currently in view on Alarm Console. To include or exclude columns, click the column name in the list. This toggles column inclusion on and off.

To sort the information in any alarm console, click a column title.

Column	Description
Source	Reports the component that transitioned from normal to offnormal, fault, or alert. If defining search criteria, you can use wild cards here.
Message Text	Describes the condition that generated the alarm.
Source State	Reports the component state transition: Offnormal (normal to offnormal) Alert (normal to alert) Fault (normal to fault)
	Normal (offnormal, alert, or fault to normal)
Priority	Reports the priority level assigned to the alarm class for each component state transition (from normal to Offnormal, from normal to Fault, from offnormal, fault or alert to Normal, and from normal to Alert). The lower the number, the more significant the alarm. The highest priority alarm (most significant) is number 1. The lower the number, the more significant the alarm. The highest priority alarm (most significant) is number 1.
Ack State	Reports the state of the alarm (unacknowledged, acknowledged).
Alarm Class	Reports the Display Name of the alarm class associated with the point, recipient or other component.
UUID	Universally Unique Identifier
Ack Required	Indicates if the alarm must be acknowledged (true) or not (false).
Normal Time	When displayed, shows a null value until the point returns to a normal state, then it displays the time that the point status returned to normal.
Ack Time	Displays the time that the alarm was acknowledged (if applicable).
User	If the alarm was triggered by an access control violation, identifies the person associated with the badge. If the alarm was generated by malfunctioning equipment, identifies the system user, if known.
Alarm Data	Refer to Alarm Data, page 28.
Alarm Transition	Shows the initial source state that caused the alarm to be generated. The Alarm Transition may not be the cur- rent state of the alarm source. Once an Alarm Transition is created, it does not change for a single alarm re- cord. For example, if the source state returned to "Normal" after an "Offnormal" status, this value remains at "Offnormal".
Last Update	Displays the time the system most recently updated the alarm.
Alarm Value	The point value that triggered the alarm.
Notify Type	Indicates if the alarm is an alarm, alert, or an acknowledgement notification.
Add Alarm Data Column	Opens the Add Alarm Data Column window, which provides a drop-down list of additional data columns you can add to the console. These columns are not documented in this <i>Niagara Enterprise Security Reference</i> .

The **bold** column entries in the table identify the default columns.

Column	Description
Remove Alarm Da- ta Column	Opens the Remove Data Column window, which provides a drop-down list of the additional data columns you may have added to the alarm console. The purpose of this list is to delete any added columns from the console.
Reset Table Settings	Opens a confirmation window. Clicking Yes returns the console columns (multi-source view) to their defaults.

Alarm Data

These data identify the source of the alarm and what caused the alarm (message text).

Name	Description
Message Text	Displays the customized message created for this alarm.
Source Name	Reports the component that transitioned from normal to offnormal, fault, or alert. If defining search crite- ria, you can use wild cards here.
Time Zone	Reports the time zone where the alarm occurred.

Alarm Console Info icons

These icons appear under the Info column in the alarm console. Color coding and symbolic images represent the state of each alarm.

- A red alarm icon in the table indicates that the current state of the alarm source is offnormal and not acknowledged.
- An orange alarm icon in the table indicates that the current state of the alarm source is alert and is not acknowledged.
- 4 A yellow alarm (gold) icon in the table indicates that the current state of the alarm source is offnormal but is acknowledged.
- A green alarm icon in the table indicates that the current state of the alarm source is normal and not acknowledged.
- \bigcirc A white alarm icon in the alarm history table indicates that the current state of the alarm source is normal and acknowledged.
- & A note alarm icon (it may be any color) in the table indicates that there is a note associated with the alarm.
- Solution A link icon in the table indicates that the alarm has a link associated with it. When an alarm displays this icon, the **Hyperlink** button is also active.
- B A video alarm icon may display if video is available with the associated alarm. If included, this graphic appears at the left end of the alarm record row.
- An optional icon may display if it is setup in the alarm properties. If included, this graphic appears at the left end of the alarm record row.

Alarm Console links

These links along the bottom of the window provide the essential alarm management functions.

Figure 8 Alarm Console links



• Acknowledge recognizes that the alarm state exists.

- Hyperlink opens the target link for the alarm, if one exists.
- Notes opens the Notes window, which is used to add a note to one or more selected alarms.
- Silence stops any audible notification associated with an alarm.
- Filter opens the Filters window used to define a query for the purpose of limiting system output to only selected criteria.
- Show Recurring opens the Recurring Alarms view for a single, selected point, and changes to the Show All returns to the Alarm Console view, which reports alarms on all points.
- Show video opens any video associated with the alarm for viewing.

Show Alarm Details window

This summary window displays the details of a specific alarm record in the database.

Figure 9 Show Alarm Details window

Name	Value	
Timestamp	29-May-18 5:13:28 PM EDT	
UUID	3aa740d9-fea8-41f8-855c-8b3ae055805e	
Source State	Offnormal	
Ack State	Unacked	
Ack Required	true	
Source	NiagaraNetwork entSecurity802 local: station: slot:/Drivers/NiagaraNetwork/entSecurity802	
Alarm Class	Medium	
Priority	150	
Normal Time	null	
Ack Time	null	
User	Unknown User	
Alarm Transition	Offnormal	
Last Update	04-Jun-18 12:02:57 PM EDT	
-Alarm Data		
Message Text	Ping Failed	
Source Name	NiagaraNetwork entSecurity802	
Time Zone	America/New_York (-5/-4)	
Back Forward	Acknowledge Hyperlink Notes Close	

This window opens from the Alarm Console view when you click the Show Alarm Details button ()) or double-click an alarm row in the table.

Alarm information

These data describe when the point generated the alarm and the current state of the alarm.

Name	Description
Timestamp	Reports when the record was written to the database.
UUID	Unique Universal Identifier
Source State	Reports the component state transition: • Offnormal (normal to offnormal)

Name	Description
	Alert (normal to alert)
	Fault (normal to fault)
	Normal (offnormal, alert, or fault to normal)
Ack State	Reports the state of the alarm (unacknowledged, acknowledged).
Ack Required	Indicates if the alarm must be acknowledged (true) or not (false).
Source	Reports the component that transitioned from normal to offnormal, fault, or alert. If defining search crite- ria, you can use wild cards here.
Alarm Class	Reports the Display Name of the alarm class associated with the point, recipient or other component.
Priority	Reports the priority level assigned to the alarm class for each component state transition (from normal to Offnormal, from normal to Fault, from offnormal, fault or alert to Normal, and from normal to Alert). The lower the number, the more significant the alarm. The highest priority alarm (most significant) is number 1. The lower the number, the more significant the alarm. The highest priority alarm (most significant) is number 1.
Normal Time	When displayed, shows a null value until the point returns to a normal state, then it displays the time that the point status returned to normal.
Ack Time	Displays the time that the alarm was acknowledged (if applicable).
User	If the alarm was triggered by an access control violation, identifies the person associated with the badge. If the alarm was generated by malfunctioning equipment, identifies the system user, if known.
Alarm Transition	Shows the initial source state that caused the alarm to be generated. The Alarm Transition may not be the current state of the alarm source. Once an Alarm Transition is created, it does not change for a single alarm record. For example, if the source state returned to "Normal" after an "Offnormal" status, this value remains at "Offnormal".
Last Update	Displays the time the system most recently updated the alarm.
Alarm Data	Refer to Alarm Data, page 30.

Alarm Data

These data identify the source of the alarm and what caused the alarm (message text).

Name	Description
Message Text	Displays the customized message created for this alarm.
Source Name	Reports the component that transitioned from normal to offnormal, fault, or alert. If defining search crite- ria, you can use wild cards here.
Time Zone	Reports the time zone where the alarm occurred.

Links

- Back and Forward displays previous and next alarm data.
- Acknowledge recognizes that the alarm state exists.
- **Hyperlink** links to the edit view associated with the selected item. If no hyperlink exists, the button is grayed out.
- Notes opens the Notes window, which is used to add a note to one or more selected alarms.
- **Close** returns to the Alarm Console view.

Notes window

This window provides a place to record comments about the alarm on a specific point.

Figure 10 Notes window

Add Notes	
<multiple alarms=""></multiple>	^
	~
Called the department manager at 16:10 to report these alarms.	^
	~
OK Cancel	

You open this window by selecting an alarm in the table and clicking the Notes button (2) on the Alarm Console view.

The upper pane reports the alarm. You use the lower pane to enter your note.

Alarm Filter window

This window defines the criteria used to include or exclude alarms from the Alarm Console view.

Figure 11 Alarm Filter window

Filter			
Timestamp	Time Range 🗸 🕒 ? to ?		»
Source Name	%	Must Include 🗸 🗸	Case Sensitive
Source State			
Ack State			
Priority	min 0 max	0	
Alarm Class	%	Must Include 🗸 🗸	Case Sensitive
Message	%	Must Include 🗸 🗸	✓ Case Sensitive
Badge	%	Must Include 🗸 🗸	Case Sensitive
User	%	Must Include 🗸 🗸	Case Sensitive
	Ok Cancel]	

You open this window by clicking the Filter button (🖤) on the Alarm Console view.

Criterion	Value	Description
Timestamp	Time chooser	Sets up start and end dates and times, days of the week or a schedule to use as filter criteria. The time in each alarm record identifies when the point's status changed from normal to offnormal.
Source Name	text	Reports the name of the alarm source. If you use the default script setting (%parent.displayName%), the source name

Alarm Filter search criteria

Criterion	Value	Description
		property shows the display name of the alarm extension pa- rent. You can edit this script, or type in a literal string, to dis- play here.
Source State	text	 Identifies the component state transition: Offnormal (normal to offnormal) Alert (normal to alert) Fault (normal to fault) Normal (offnormal, alert, or fault to normal)
Ack State	text	Reports the state of the alarm (unacknowledged, acknowledged).
Priority	min and max numbers	Defines the priority level to assign to the alarm class for each component state transition (from normal to Offnormal, from normal to Fault, from normal to Alert, and from offnormal, fault and alert to Normal). The lower the number, the more significant the alarm. The highest priority alarm is number 1.
Alarm Class	text	Defines alarm routing options and priorities. Typical alarm classes include High, Medium and Low. An alarm class of Low might send an email message, while an alarm class of High might trigger a text message to the department manager.
Message	text	Limits the search based on the customized message created for this alarm. The result reports only alarms that contain this specific message text.
Badge	text	Limits the search to specific badge number(s).
User	text	Limits the search to specific user(s).

Multi Source View Options window

This window configures the Alarm Console features.

Figure 12 Multi Source View Options window

Mu	Iti Source View Options
	Notes Required On Ack Galse
	Sound Delay 0 h 0 m 10 s
	Sound File module://alarm/com/tridium/alarm/ui/sound
	◎ Disable Row Highlight □ false
	OK Cancel Reset to Defaults

You open this window by clicking the Set alarm console options button () on the alarm console.

Properties

Property	Value	Description
Notes Required on Ack	defaults to true; option box for false	Opens the Notes window when a user acknowledges an alarm.
Sound Delay	hours, minutes, seconds	Configures an amount of time to wait between a transition to offnormal and the sounding of the audible alarm.
Sound File	filepath	Identifies the file that contains the alarm sound.
Disable Row Highlight	defaults to true; option box for false	Turns on and off the row highlight.

AX Alarm console

This view is an optional view you can configure or disable for each user. It provides a split-screen view with the Alarm Console on the top and two video camera panes below.

Figure 13 Alarm Popup window

leRecipient - Live				Auto Video Lo	ading is Of	Auto Video Loa	ding 🔑 Alar	m Popup Setting	🔲 Change Layout
Security Alarm Console									
Time Range ? to ? 🕒									
Open Alarm Sources								10 Sour	ces / 2933 Alarms
Timestamp	Source State	Ack State	Source	Alarm Class	Priority	Normal Time	User	Message Text	Badge 🛱
🔟 🌲 15-Sep-18 6:57:15 AM EDT	Normal	0 Acked / 1438 Unacked	AXIS 210A - 00408C836221 Motion Detected 1	Medium	150	15-Sep-18 6:57:15 AM EDT	Unknown User		
🔃 🌲 15-Sep-18 6:57:15 AM EDT	Normal	0 Acked / 1484 Unacked	AXIS 210A - 00408C836221 Motion Detected	Medium	150	15-Sep-18 6:57:15 AM EDT	Unknown User		
鼻 14-Sep-18 4:29:11 PM EDT	Alert	0 Acked / 1 Unacked	Remote Reader Module1.Reader 1	Medium	150	null		Badge Does Not Exist	000029954924 [0]
🜲 14-Sep-18 4:29:05 PM EDT	Alert	0 Acked / 1 Unacked	Remote Reader Module1.Reader 2	Medium	150	null	Sanders, Randy	No Access Right	00003744372 [0]
🜲 14-Sep-18 3:52:37 PM EDT	Alert	0 Acked / 1 Unacked	Remote Reader Module1.Reader 1	Medium	150	null	Sanders, Randy	No Access Right	00003744372 [0]
🜲 14-Sep-18 3:52:30 PM EDT	Alert	0 Acked / 1 Unacked	Remote Reader Module1.Reader 2	Medium	150	null		Badge Does Not Exist	000029954924 [0]
🜲 14-Sep-18 11:12:56 AM EDT	Offnormal	0 Acked / 1 Unacked	NiagaraNetwork EnterpriseSecurity2_4	Medium	150	null	Unknown User	Ping Failed	
🌲 12-Sep-18 4:24:59 PM EDT	Normal	0 Acked / 2 Unacked	Axis Video Network AXIS 210A - 00408C836221	Medium	150	12-Sep-184:30:00 PM EDT	Unknown User	Ping Success	
🌲 12-Sep-18 3:06:52 PM EDT	Normal	0 Acked / 1 Unacked	Axis Video Network	Medium	150	12-Sep-18 3:08:04 PM EDT	Unknown User	Ping Success	
鼻 14-Sep-18 4:29:20 PM EDT	Normal	0 Acked / 3 Unacked	Access Network Remote Reader Module1	High	250	14-Sep-18 4:32:21 PM EDT	Unknown User	Ping Success	
AXIS 210A - 00408C836221	(00408C836221)			Tuybuck					
15-Sep-18 9::	24:13.	000 AM E			v	/ideo Playback not s	4 supported by	camera	
			and the second second						

- 1. Window configuration controls
- 2. Alarm console
- 3. Alarm controls

- 4. Video panes
- 5. Video alarm controls

Before you can access this view you must enable it for a user. Click **Controller (System) Setup→User Management→Users**, add a new user or edit an existing user, and set the **Alarm Console Popup** property to All Alarms or Video Alarms Only.

Then, open this view from the Alarm Console view by clicking the Show AX Alarm Console button (). This button is the furthest to the right in the row of buttons at the top, right side of the view. The console pane displays open alarm sources. The video panes display real-time and recorded video.

Window configuration controls

These control buttons are in the top right corner of the view configure view options.

- Auto Video Loading is a play and pause button for the video panes.
- Alarm Popup Setting
- Change Layout opens the Select Layout window, which configures the alarm console.

Alarm controls

- Acknowledge recognizes that an alarm state exists at the point represented by the selected row in the table. This button displays on the alarm console views and on the Recurring Alarms view.
- Show Recurring opens the Recurring Alarms view for a single, selected point, and changes to the Show All button. Clicking this button returns to the Alarm Console view, which reports alarms on all points.
- Notes opens the Notes window, which is used to add a note to one or more selected alarms.
- Silence stops any audible notification associated with an alarm.
- Filter opens the Filters window used to define a query for the purpose of limiting system output to only selected criteria.
- **Review Video** opens the Alarm Video viewer for reviewing video that is recorded as a result of an alarm. This link is only available when an alarm video is available.

Video alarm controls

- **Previous** loads and plays back the previously-recorded video.
- **Next** loads and plays back the next recorded video (if one exists).
- Most Recent Video loads and plays back the video captured most recently.
- Acknowledge recognizes that an alarm state exists at the point represented by the selected row in the table. This button displays on the alarm console views and on the Recurring Alarms view.

Console Layout window

When you use the Alarm Console view, or when you use the Alarm Popup window, you have several layout options available.

Figure 14 Console Layout window



This window opens when you click the Console Layout link at the top of the **AX Alarm Console** view.

Each option provides a unique display with pane combinations that include up to four of the following panes:

- Alarm Console pane
- Instructions pane
- Live Video pane
- Video Playback pane

Each pane displays information pertaining to an alarm. When a video alarm is selected in the console, the video panes display Live Video or Video Playback. When no video is associated with an alarm, "No Video Available" displays in the Live Video and Video Playback panes. You can configure settings for each individual user so that video alarms are selected (and displayed) automatically or so that they require manual selection.

Activity Monitor view

This view, under the **Monitoring** main menu, lists all system activity (history records and alarms) that occurred during the last seven days. Activities include events, such as badge access traffic, system user audits, and so on.

The **Activity Monitor** view can show all the types of system activity recorded at the designated controller or you can customize it to show only specific activities.

Home •• Monitoring	Personnel Etivity Monitor	Reports	💣 System Setup	A Threat Level	s	niagara framework
	7 B B				Page 1 of 3	Page Size 20
Timestamp 💙	Record Type	Activity	Station	Authority	Object	Description
🛆 11-May-18 10:21 AM EDT	Log	box.serverSession	MyEntsecSupervisor	1000	Exception processing unsolicited BOX message	java.lang.NullPoint
🛆 11-May-18 10:14 AM EDT	Log	sys	MyEntsecSupervisor	800	Saved C:ProgramDataNiagara4.6 ridiumstationsMyEntsecSupervisorconfig.bog (422ms)	
🛆 11-May-18 10:14 AM EDT	Log	orion	MyEntsecSupervisor	800	end checkpoint on MySQLDatabase (rdbMySQL:MySQLDatabase)	
🛆 11-May-18 10:14 AM EDT	Log	orion	MyEntsecSupervisor	800	begin checkpoint on MySQLDatabase (rdbMySQL:MySQLDatabase)	
🛆 11-May-18 10:14 AM EDT	Log	sys	MyEntsecSupervisor	800	Saving station	
🛆 11-May-18 10:06 AM EDT	Audit	Login	MyEntsecSupervisor	admin	/Services/WebService	Slot Name: 0:0:0:(
🛆 11-May-18 9:14 AM EDT	Log	sys	MyEntsecSupervisor	800	Saved C:ProgramDataNiagara4.6 ridiumstationsMyEntsecSupervisorconfig.bog (328ms)	
🛆 11-May-18 9:14 AM EDT	Log	orion	MyEntsecSupervisor	800	end checkpoint on MySQLDatabase (rdbMySQL:MySQLDatabase)	
🛆 11-May-18 9:14 AM EDT	Log	orion	MyEntsecSupervisor	800	begin checkpoint on MySQLDatabase (rdbMySQL:MySQLDatabase)	
🛆 11-May-18 9:14 AM EDT	Log	sys	MyEntsecSupervisor	800	Saving station	
🛆 11-May-18 8:14 AM EDT	Log	sys	MyEntsecSupervisor	800	Saved C:ProgramDataNiagara4.6 ridiumstationsMyEntsecSupervisorconfig.bog (266ms)	
🛆 11-May-18 8:14 AM EDT	Log	orion	MyEntsecSupervisor	800	end checkpoint on MySQLDatabase (rdbMySQL:MySQLDatabase)	
△ 11-May-18 8:14 AM EDT	Log	orion	MyEntsecSupervisor	800	begin checkpoint on MySQLDatabase (rdbMySQL:MySQLDatabase)	

Figure 15 Activity Monitor view

You access this view from the main menu by clicking **Monitoring**-Activity Monitor.

Buttons

In addition to the standard control buttons (Summary, Auto Refresh, Column Chooser, Filter, Refresh, Man-

age Reports, and Export), the Configure button ()) opens a view for configuring the information to include in the Activity Monitor view.

Columns

TADIE I ACLIVILY MOUNTO COMUNIS	Table 1	Activity	Monitor	columns
---------------------------------	---------	----------	---------	---------

Column	Description
Timestamp	Reports when the transition from normal occurred, triggering the alarm.
Record Type	Reports the type of information the record represents: Access, Audit, Log, Alarm, Alert, Unacked, Intrusion. Re- fer to About record types, page 36.
Activity	Identifies the event (for example, Login, Exit Request) that prompted the system to generate the record. Refer to About activities, page 36.
Station	Reports the station in which the event occurred.
Authority	Identifies the person responsible for the event.
Object	Reports the door at which the event occurred.
Description	Provides additional information.

About record types

The type of activity record in the database provides additional information about the event.

Table 2Record types

Record type	Description
Access	Indicates a record created when a person accessed the building.
Audit	Indicates a record that provides an audit trail.
Log	Indicates a record created in a system log.
Alarm	Indicates an alarm record.
Alert	Indicates a record created by an alert.
Unacked	Indicates a record that reports an alarm, which has not been acknowledged.
Intrusion	Indicates a record created when an intrusion event occurred.

About activities

An activity explains an event. For example, the system may grant access while an additional condition is required. Or the system may deny access for a reason. The activity value identifies the reason.

Activity value	Description						
Granted	Normal access event.						
Badge Does Not Exist	Access denied because the system cannot find the badge in the database.						
Badge is Lost	Access denied because the badge has been disabled.						
Badge is Disabled	Access denied because the badge is not active. Badges can be disabled usually by a manager using the Supervisor station.						
Activity value	Description						
---	--	--	--	--	--	--	--
Badge Not Assigned	Access denied because the badge exists, but has not yet been assigned to a person.						
No Active Schedule	Access denied for lack of a schedule.						
No Access Right	Access denied because the person lacks the right to access the location.						
Unknown Wie- gand Format	Access denied because the format of the badge does not conform to a known Wiegand format.						
Invalid PIN	Access denied because the person entered a Personal ID Number that does not match the badge.						
No PIN Number Entered	Access denied because the person did not submit a PIN.						
Access Zone Disabled	Access denied because the access zone is not active.						
Occupancy Violation	Access denied because more or fewer people are in the zone than required.						
Supervisor Required	Access denied because supervisor is required and none is currently in the access zone.						
Anti Passback Violation	ti Passback Access denied because the person entered, exited, and is attempting to enter again (pass back) immediately lation Access configuration (Controller (System) Setup→Access Setup→Access Zones) defines the Passback Timeout value (the amount of time required before the person can pass back).						
Granted But Not Used	Access granted, but the person did not enter.						
Granted But PIN	Access granted, but there is a problem with either the badge or the PIN.						
Duress	If PIN duress is set up in the controller, then, when a person uses a PIN with the offset specified in the controller, the system grants access but issues a duress alert. This allows a person to enter a space under duress, but causes an alert.						
Granted But Anti Passback Violation	Access permitted, but the person is attempting to enter again (pass back) before the Passback Timeout expired.						
Granted But Oc- cupancy Violation	Access permitted even though too many or too few people are in the zone or a supervisor is not present.						
Granted But Wait- ing On More Occupancy	Access permitted pending the arrival of more people.						
Granted But Wait- ing On PhotoID	Access permitted, but the person must present their photo ID.						
Granted But Ac- cess Zone Disabled	Access permitted even though the access zone is not active.						
Granted But Supervisor Required	Access permitted even though a supervisor is not present.						
Granted If Occu- pancy Corrected	Access permitted pending changes to overall occupancy.						
Granted But	Access permitted with trace provided.						
Trace	If trace has been set up for a person, then, every time the person uses an assigned badge, the system issues an alert in the alarm console.						
Exit Request	Normal exit from an access zone.						
Manual Override	Access permitted by manually overriding the door.						

Activity value	Description
Canceled	The person started to access the zone, but did not complete the action.
Connection Problem	Access may or may not be permitted due to a networking issue.
Granted But Con- nection Problem	Access permitted, but the system is experiencing network problems.
Validation Time- out Expired	Access denied because the maximum time allowed to receive a badge validation has expired.
Inactive Threat Level Group	The threat level group exists, but has not been activated.
Unlock Input	The controller received an input to unlock the door.
Unknown	Something happened that is not covered here.

Edit (configure) Activity Monitor view, Activity Monitor tab

This view configures the Activity Monitor view.

Figure 16 Edit Activity Monitor view, Activity Monitor tab

Threat Levels								
📃 Alarm Console 🔺 Activity Monitor 🔹 Video Monitoring								
ave View								
Activity Monitor Alarm Classes								
Audit History (/Services/EnterpriseSecurityService/auditHistory) Log History (/Services/EnterpriseSecurityService/logHistory) LDAP Audit History (/Services/EnterpriseSecurityService/ldapAuditHistory) Access History (/Services/AccessControlService/accessHistory) Attendance History (/Services/AccessControlService/attendanceHistory) Intrusion History (/Services/IntrusionService/intrusionHistory)								

This view displays when you click the **Configure** button 🖉 in the Activity Monitor view.

The History Consolidation property boxes on the view configure the activity monitor table so that it includes the type of records you want to monitor. Click the **Save** button to keep any changes before navigating away from the view.

Activity Monitor Alarm Classes tab

In addition to the seven days of history records selected on the Activity Monitor tab, the Activity Monitor view displays alarm records for all assigned alarm classes. This tab provides a way to assign or unassign alarm classes for monitoring.

Figure 17 Edit	Activity Monitor view,	Alarm Classes tab
----------------	------------------------	-------------------

Home 🔐 Monit	toring	Personnel Reports	💣 System Setup	A Threat Levels		niagara
💻 Alarm Console	Activity M	onitor 🛛 👫 Video Monito	pring			
Save 🔯 View						
Activity Monitor A	larm Classes					
Assigned						
Display Name ٨	Priority	Total Alarm Count	Open Alarm Count	In Alarm Count	Unacked Alarm Count	Time Of Last Alarm
High	250	0	0	0	0	null
Low	150	0	0	0	0	null
Medium	150	3	3	2	3	17-May-19 11:02 AM ED
4						

You access this view by clicking**Monitoring→Activity Monitor**, clicking the Configure button (∠), and clicking the Alarm Classes tab.

Alarm classes categorize, group, and route alarms. The alarm class settings can provide alarm priorities and designate which alarms require acknowledgment. They are also the basis for visual grouping in the alarm console view.

Control buttons

In addition to the standard Filter and Export buttons, these buttons serve this view:

- 🥥 Unassign removes the assignment.
- Image: Hyperlink links to the edit view or window for the selected item. It is the same as double-clicking the table row. This button is available when a single record is selected.
- E Assign Mode buttons open and close the Unassigned pane.

Activity Monitor columns

Column/data item	Description			
Display Name	Indicates the name associated with the activity.			
Priority	Indicates the significance of the alarm. The lower this number the more significant the alarm.			
Total Alarm Count	arm Count Indicates the total number of alarms.			
Open Alarm Count	Indicates the total number of alarms that are currently open and unacknowledged.			
In Alarm Count	Indicates the total number of alarms that are currently active.			
Unacked Alarm Count	Indicates the total number of alarms that have not been acknowledged.			
Time of Last Alarm	Reports when the most recent alarm was saved to the database.			

Activity Monitor Filter window

This window provides a series of wild cards to display only activity records of interest.

Figure 18 Activity Monitor Filter window

Filter				
✓ Timestamp ☐ Record Type	Last 12 Hours V >>	Ĩ		
Activity	%	Must Include	\sim	Case Sensitive
Station	%	Must Include	\checkmark	Case Sensitive
Authority	%	Must Include	\sim	Case Sensitive
Object	%	Must Include	\sim	Case Sensitive
Description	%	Must Include	\sim	Case Sensitive
	Ok Cance	1		

You open this window by clicking the Filter button (😨) on the Activity Monitor view.

Criterion	Value	Description					
Timestamp	drop-down list	Limits summary data to a specific time period.					
Activity	wildcard (%)	Limits summary data based on activity name.					
Station	wildcard (%)	Limits summary data based on station name.					
Authority	wildcard (%)	Limits summary data based on severity.					
Object	wildcard (%)	Limits summary based on action: Station Stopped, Service Stopped					
Description	wildcard (%)	Displays the exception stack trace if the trace exists, otherwise this value is empty.					

Activity monitor search criteria

Video monitoring views

Video monitoring is available for cameras that are licensed and added under the appropriate video networks. Use the **Remote Drivers** view to add video drivers to the video networks that are licensed and available to your system.

Home	Personnel	Reports	💣 System Setup	🛕 Threat Levels		
💻 Alarm Console 🛛 🔺 Activ	vity Monitor	🖁 Video Monitori	ing			
Surveillance Viewer						
📅 Playback Viewer						

The Video Framework Guide contains additional information about configuring video cameras for supported camera models.

Surveillance viewer

This view supports video from up to nine video cameras. You may configure video quality and layout options from the viewer. This viewer requires the Web Launcher. Browsers do not support this viewer.



Drag a Came T EntSec Axis Axis Video	ra into a Grid : Hallway Parking Lot	Connecting	×	×
Aspect Ratio Frame Rate Resolution	Inherit from camera V Low V	×	×	×
Compression Layout Save	Low Refresh	×	×	×

You access this view from the main menu by clicking **Monitoring**→**Video Monitoring**.

The v	/iew c	onsists	of a	four-pane	e grid	. Each	pane	links	to an	active	survei	llance	camera.
--------------	--------	---------	------	-----------	--------	--------	------	-------	-------	--------	--------	--------	---------

Property	Value	Description
Frame Rate	drop-down list	Defines the frequency (rate) at which an imaging device displays consecutive images called frames.
Resolution	drop-down list	Defines number of distinct pixels in each dimension that the view can display.
Compression	drop-down list	Defines the quality of the image. The more an image is com- pressed to reduce its file size the lower the quality of the image.
Layout	drop-down	Selects the nature of the grid.

Playback viewer

This view plays back live or recorded video from a single, selected camera.

Figure 20 Video Playback viewer



Any camera under a video network is available for selection from an option list in the top left corner of the view. Depending on the camera type, controls are available for configuring or adjusting the camera.

Video controls

Figure 21 Video controls



Control	Description		
Fast Play	Incrementally speeds up the reverse play speed with each click. The on-screen play indicator shows the cur- rent play speed while this function is being used.		
	The rewind speed defaults to 4x. Use the camera's Property Sheet view to change this speed. Clicking this button once rewinds at 4x. Clicking it again increases the rewind speed to 8x. The maximum rewind speed is 16x.		
Fast Play	Incrementally speeds up the forward play speed with each click. The on-screen play indicator shows the cur- rent play speed while this function is being used.		
	Fast forward speed defaults to 4x. Use the camera's Property Sheet view to change this speed. Clicking this button once advances at 4x. Clicking it again increases the fast forward speed to 8x. The maximum forward speed is 16x.		
Skip Reverse/	While playing video, this function skips backward to the beginning of the current track and starts playing automatically.		
previous clip	The rewind speed defaults to 1x. Use the camera's Property Sheet view to change this speed. Clicking this button once rewinds at 1x. Clicking it again increases the rewind speed to 2x, 4x, etc. The maximum rewind speed is 16x.		
Skip Forward/ Skip to the end or next clip	While playing back video, this function skips forward to the next recorded track and starts playing automatically.		
	Slow forward play back defaults to 1x. Clicking it again increases the slow forward speed to ex, then 4x, etc. The maximum forward speed is 16x.		

Control	Description
Play	Initiates playback and resumes playback following a pause.
Pause	Discontinues playback at the current location.
C Live	Switches from a playback video display to a live video display (still in the Video Playback view).

Event controls

Table 4Event Controls

Control	Description	
A Browse events	Opens the Browser Events window.	
O Play From Time	Initiates playback from a specific time.	

Video indicators

The driver displays these indicators in the video playback window:

- (L) indicates Live Video.
- X1,X2..... indicate the play back speed.
- Fast-Forward, Skip, Play and Pause indicate the video playback mode.
- Slow- Light blue, Medium- Medium blue and Fast- Dark blue indicate the pan, tilt and zoom degrees.
- A text message displays on the screen at times to indicate the connection status.

Find Event

This function opens the **Time Index** window, which allows you to select an event according to a specific date and time in terms of day, month, year, and time. A calendar icon in the window presents an interactive calendar for browsing to and selecting the desired date.





Chapter 3 Personnel views

Topics covered in this chapter

- ♦ People view
- ♦ Add New (or edit) Person view
- Badges view
- ◆ Enroll New Badge view
- ◆ Add (or edit) New Badge view
- Batch Enroll Badges view, Badge tab
- Range Create Badges view, Badge tab
- Access Rights view
- ♦ Add New (and edit) Access Rights view, Access Right tab
- ♦ Tenants view
- ◆ Add (or edit) a New Tenant view
- Additional Personnel Data view
- ◆ Add (or edit) an Info Template view

The **Personnel** menu item opens to the **People** view. Other views open when you add, edit, access history and show readers. The personnel views set up and manage people.





People view

This view lists all personnel in the system. The **Summary** view reports the same information for a specific person.

Figure 24 People view

💊 People 🛛 🔓 Badges 📑 Access	s Rights 🔶 Tenants 🖳 Add	litional Personnel Data	
Last Name 🙏	First Name	Department	Person Type
Anderson	Gayle	Hardware	
Bradley	Mandana	ITSoftware	
Claire	Adam Summary	port	
Marie	Billiards	:ware	
	Claire, A Type: Last Nan First Nan Person T Tenant: Access Tridiur	dam Person he: Claire he: Adam ent: Transport ype: s Rights m	
	[Done	

To open the **People** view, expand **Personnel** and click **People**. To open the Summary window, select a person in the **People** view.

The columns in the **People** view table provide key information for each employee.

Control buttons

In addition to the standard control buttons (Delete, Column Chooser, Refresh, Reports and Export), these buttons provide personnel management functions:

- O Add opens a view or window for creating a new record in the database.
- Image: Hyperlink links to the edit view or window for the selected item. It is the same as double-clicking the table row. This button is available when a single record is selected.
- Dummary opens the Summary window for the selected item, which shows how item properties are currently configured. Double-clicking on any row in a table opens the Summary tab, which contains the same information as the Summary window.
- D Show Readers opens the Person Reader Report. The *Reports* chapter documents this report.
- 🖻 Show Expirations opens the Person Access Right Report view.
- Duick Edit opens the Quick Edit window for the selected item(s). This feature allows you to edit one or more records without having to leave the current view.
- Cal Match with synchronize combines the properties of similar schedules (subordinate to the Supervisor) and similar personnel records under a single name.
- Duplicate opens a New window and populates each property with properties from the selected item. Using this button speeds the item creation.

Default People view columns

Column and summary property	Description
Last Name	Reports the family name of the person.
First Name	Reports the given name of the person.
Department	Reports where within the organization's flow chart the person works.
Person Type	Reports additional information about the person.
Tenant Name	Reports the name of the associated tenant.
Access Rights	The Summary window lists the access rights assigned to the person.

Quick Edit window

This window provides controls to batch edit one or more table records simultaneously.

Figure 25 Quick Edit window

Quick Edit		
Apply to selected items	s: 1 \bigcirc Apply to all records with the current	nt filter
Department	Human Resources	»
Person Type		»
Tenant	🕒 None	»
Supervisor	true 🗸	
Trace Card	Trace Off \checkmark	
Add Access Rights	None	»
Remove Access Righ	ts 🗗 None	»
	Ok Cancel	

The **Quick Edit** window opens when you select one or more table records and click the quick edit button (
Image: Description of a view or select the **Quick Edit** menu item from the right-click menu.

Property	Value	Description
Apply to selected items	radio button	Selects for update only the currently selected rows (records). The number of currently selected records displays to the right of the option.
Apply to all records with the current filter	radio button	Selects for update any displayed records that match any filters assigned to this table.
To These Properties	multiple properties	The available properties change depending on the specific table.
Apply these values	text, etc.	Presents the value to modify for each property.

People View Filter window

This window sets up the search criteria used to find people records.

Figure 26 People View filter

Filter			
Last Name	%	Must Include	✓ ✓ Case Sensitive
🗌 First Name	%	Must Include	✓ ✓ Case Sensitive
Department	%	Must Include	✓ ✓ Case Sensitive
Person Type	%	Must Include	✓ ✓ Case Sensitive
🗌 Tenant Name	%	Must Include	✓ ✓ Case Sensitive
Employee Id	%	Must Include	✓ ✓ Case Sensitive
	Ok Cancel]	

You access the filter by clicking the Filter button (😇) on the People view.

People view filter criteria

Criterion	Value	Description
Last Name	wildcard	Sets up a search by last name.
First Name	wildcard	Sets up a search by first name.
Department	wildcard	Sets up a search by department.
Person Type	wildcard	Sets up a search by person type.
Tenant Name	wildcard	Sets up a search by tenant name.
Employee ID	wildcard	Sets up a search by employee ID.

Add New (or edit) Person view

Add Person view

Figure 27

This view provides properties for manually creating and configuring new personnel records, one person at a time.

🕋 Home óo' Monitoring 🔒 Personnel Reports 👹 System Setup O Photo Rights Para Additional Personnel Data 🤷 People F Badges 🛑 Tenants 🔒 Save 🚺 🙆 People Access Rights Badges 2 2 Summary Person A Last Name Manners First Name Melody Middle Initial Employee Id 654 Department Customer Service » Person Type Manager » None Tenant » Supervisor true 🗸 Trace Card Trace Off 🗸 PIN (number only): PIN Confirm PIN: •••• 0 Portrait < >

You access this view by clicking **Personnel→People**, followed by clicking the Add people button (^{OD}). You access the edit version of this view by double-clicking a row in the **People** view table. You access an existing

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personnel record for the purpose of editing it by clicking **Personnel** \rightarrow **People**, followed by clicking the Hyperlink button (ⓐ).

The screen capture shows an existing view and a new person view.

Links

Links appear as large buttons just below the name of the view.

- Save updates the station database with the current information.
- **People** returns to the **People** view.

Buttons

- 📕 Save updates the database with the current information.
- 🙆 Return to parent People view.
- Add New Person opens the Add New Person view.
- Duplicate opens a New window and populates each property with properties from the selected item. Using this button speeds the item creation.
- 🔲 Assign New Badge opens a view for assigning a badge to the person.
- D Enroll or Enroll New Badge opens the Enroll New Badge view.
- 🕒 Print Badge sends the badge data to the printer.

Property	Value	Description
Last Name	text	The person's family name.
First Name	text	The person's given name.
Middle Initial	text	The person's middle initial.
Employee Id	text	Assigns an ID to the person.
Department	text	Defines the department name.
Person Type	String Chooser	Defines something about the person to track. Possibilities in- clude: Supervisor, Manager, Operator, Local, Remote, Home Office, Satellite Office, Exempt, Hourly. If this property is empty, the system uses the default Person Type. If the prop- erty does not match an existing Person Type, the system cre- ates a new type.
Tenant	text	Defines the company name of the associated tenant.
Supervisor	true or false (default)	Indicates if the person is in a managerial role within the organization.
Trace Card	Trace On or Trace Off (default)	Controls an alarm when the system grants access at a specified door to the associated person. This property works together with the Trace Card Alert property associated with the reader that is assigned to the person's access right.

Properties

Property	Value	Description
PIN (Personal Infor- mation Number)		This personnel code is used for keypad entry.
Portrait	camera hyperlink	Opens a link to Asure ID for capturing a photo.
Additional properties	various	If your company collects more personnel information, addition- al properties appear at the end of the Person property sheet. The Additional Personnel Data view creates these properties.

New person Summary tab

This tab displays a read-only list of information about a single personnel record. It displays any time you save changes made in another tab. Located at the bottom of the listing are all the badges and access right assignments associated with the record. Each listed badge or access right is a hyperlink to the Edit Existing Badge or Edit Existing Access Right view.

Figure 28 Summary tab



<

>

You access this view by clicking **Personnel→People**, followed by double-clicking a person row in the table.

Property	Description	
Туре	dentifies the summary window as one that provides person details.	
Last Name	Reports the family name of the person.	
First Name	Reports the given name of the person.	
Department	Reports where within the organization's flow chart the person works.	
Person Type	Reports additional information about the person.	
Tenant	Reports the name of the associated tenant.	
Access Rights	Lists the person's access rights.	

If access rights and a badge are assigned to the person, hyperlinks at the bottom of the **Summary** tab link to the relative records.

New Person Access Rights tab

This tab consists of two panes with tabular information: The **Newly Assigned** pane shows the access rights assigned to the individual whose name appears at the top of the view. The **Unassigned** pane lists available access rights.

Figure 29 Access Rights tab	
🚰 Home 🛛 🐱 Monitoring 🔹 Personnel 📄 Reports 🛛 🖓 Controller Setup	at Le
🔚 Save 🔯 People 😞 Add New Person 🕅 Duplicate 🗔 Assign New Badge	
Enroll New Badge	
Summary Person Access Rights Badges	
Assigned	
Access Right Name 🙏 Schedule Name Integration Name Tenant Name Threat Level	Gro
Daytime working hours Boolean Schedule B Company	
	~
<	>

To open this tab using the main menu, click **Personnel**→**People**. To add a person, click the **Add** button or to edit an existing person's record double-click a person row in the table. Finally, click the **Access Rights** tab.

Control buttons

In addition to the standard control buttons (Summary, Hyperlink, Filter, and Export), the following are the buttons specifically related to the **Newly Assigned** pane:

- 🥥 Remove Assignment (Unassign) disassociates an assignment that was previously made.
- 🕒 Change Assignment Properties opens the Change Assignment Properties window.
- 🗖 🖻 Assign Mode buttons open and close the Unassigned pane.

In addition to the standard control buttons (Summary, Hyperlink, Filter, and Export), the Assign button is specifically related to the **Unassigned** pane. You use this button to assign a selected access right to the person's record, which you are adding or editing.

Columns

You can change these properties before or after the assignment right has expired.

Column	Description	
Access Right Name	Identifies the title of the access right associated with the entity.	
Schedule Name	Reports the name of the associated schedule (if any).	
Integration Name	Reports the name of the associated integration ID The system performs building automation actions, such as turning the lights on, associated with this type of ID.	
Tenant Name	Reports the name of the associated tenant.	
Threat Level Group Name	Reports the name of the associated threat level group.	
Start Date	Reports the beginning date from the schedule.	

Table 5	Access	rights	columns
100100	,	inginco	conditinitio

Column	Description	
End Date	Reports the final date from the schedule.	
Assigned Threat Level	Reports the threat level assignment.	

Change Assignment Properties window

This window updates the access rights assignment for a person. Changing this assignment overrides the link between an access right's **Default Assigned Threat Level** and the **Default Access Right Threat Level** defined on the threat level group.



Change Assignment Properties				
Start Date	Always Effective ○ 06 ♥ - Oct ♥ - 2011 04 ♥ : 12 ♥ PM ♥ EDT			
End Date	Always Effective ○ 06 ♥ - Oct ♥ - 2011 04 ♥: 12 ♥ PM ♥ EDT EDT			
Assigned Threat Level	Default			
Ok Cancel				

Access right assignment properties are available in the **Change Assignment Properties** window.

This window opens in the edit user view when you select an access right from a person's Access Right tab and click the Change Assignment Properties button ¹/₁.

Property	Value	Description
Start Date	date	Determines when an access right becomes valid for a specific person.
End Date	date	Determines when an access right is no longer valid for a specific person.
Assigned Threat Level	drop-down list, de- faults to Default	Directly assigns a threat level to the person. To break the con- nection between the access right and threat level group, this property must be configured to something other than De- fault. When a group of people share the same access right, you use this assignment to configure a different procedure for a single member of the group during a threat level activation.

Access Rights Summary window

This window summarizes the access rights associated with a specific person.

This view summarizes the access rights information.

Figure 31 Access Rights Summary window

🚮 Home	óo Monitoring	🔏 Pers	onnel	Reports	هُ ^ا Sys
🔒 People	¶a Badges	Access	Rights	👇 Tenants	🎭 Ad
Save	🙆 Access Right	ts 🔂 D	ouplicate		
Summary	Access Right	People	Readers	Floors	
Carlor State Type: Access Ri Schedule: Niagara II Tenant: Threat Le People Abhish	ght 2 ght Name: Acc be ntegration ID: Te vel Group: ek, Kumar	Access Righ ess Right 2 polean Sch enant 2	ht e dule		
<					>

Property	Description
Туре	Reports the type of database record.
Access Right Name	Identifies the associated access right.
Schedule	Identifies the schedule associated with the access right.
Niagara Integration ID	Identifies the integration ID associated with the access right.
Tenant	Reports the name of the associated tenant.
Threat Level Group	Reports the threat level group assigned to the access right.

Add Access Rights filter window

This window reduces the access rights table rows to only those you are interested in viewing.

Figure 32 Add New Person Access Rights filter wind	low
--	-----

Filter			
Access Right Name	%	Must Include V	Case Sensitive
Schedule Name	%	Must Include V	Case Sensitive
Integration Name	%	Must Include V	Case Sensitive
Tenant Name	%	Must Include V	Case Sensitive
Threat Level Group Name	%	Must Include \sim	Case Sensitive
Start Date	Time Range 🛛 🗠 🛛 ? to ?		»
End Date	Time Range \sim (L) ? to ?		»
Assigned Threat Level			
	Ok Cancel		

To access this filter, click **Personnel** \rightarrow **People**, click the Add button (2), click the Access Rights tab and click the Filter button ($\overline{\heartsuit}$).

Property	Value	Description
Access Right Name	text	Defines the name of the access right.
Schedule Name	text	Defines the name of the schedule that is associated with the access right.

Property	Value	Description
Integration Name	text	Defines the integration name associated with the right.
Tenant Name	text	Defines the tenant name associated with the right.
Threat Level Group Name	text	Defines the threat level group associated with the right.
Start Date	date	Defines when access rights start for the person.
End Date	date	Defines when access rights end for the person.
Assigned Threat Level	text	Defines the threat level for the person.

Badges tab

This tab consists of two panes with tabular information: The **Newly Assigned** pane shows the badges assigned to the individual whose name appears at the top of the view. The **Unassigned** pane lists available access rights.

Figure 33 Badges tab				
🔚 Save 🔯 People	🔒 Add New Person 🕒 Duplicate	Assign New Badge	Enroll New Badge	
Summary Person A	ccess Rights Badges			
Newly Assigned				
Credential ∧	Facility Code	Description	Wiegand Format Name	Status
Unassigned				
	5			
Credential	Facility Code	Description	Wiegand Format Name	Status
000000000023450	0		55-Bit Wiegand Format	Issueal

You access this view by clicking **Personnel→People**, followed by clicking the **Add** button or double-clicking a person row in the table, then clicking the **Badges** tab.

Control buttons

The following control buttons are available in the Newly Assigned pane.

- 🥥 Remove Assignment (Unassign) disassociates an assignment that was previously made.
- Dummary opens the Summary window for the selected item, which shows how item properties are currently configured. Double-clicking on any row in a table opens the Summary tab, which contains the same information as the Summary window.
- Image: Hyperlink links to the edit view or window for the selected item. It is the same as double-clicking the table row. This button is available when a single record is selected.

In addition to the standard control buttons Summary, Hyperlink, Filter, and Export, the Assign button is specifically related to the **Unassigned** pane. You use this button to assign a selected access right to the person's record, which you are adding or editing.

Columns

Column	Description
Credential	Reports the sequential number assigned to the badge. The card reader uses this number to validate access.
Facility Code	Identifies the physical building, organization or campus where the badge may be used.
Description	Provides a meaningful word or short phrase to help you remember the purpose or characteristics of the badge.
Wiegand Format	Identifies the wiring standard for the card reader.
Status	Reports the current state of the badge: Issuable (currently unassigned), Active, Disabled, Lost or Unknown.
Last name	Reports the family name of the person.
First Name	Reports the given name of the person.
Tenant Name	Reports the name of the associated tenant.

Badges Summary tab

This tab, which is part of the Personnel view, summarizes detail information for each badge.

Figure 34 Badge Summary tab



You access this window from the main menu by clicking **Personnel**-**People**, followed by clicking the Add

button (^(Q)) and clicking the Summary tab or by double clicking on an existing person and selecting the Summary tab.

Properties

Property	Description	
Туре	Identifies this summary as containing badge data.	
Credential	Reports the sequential number assigned to the badge. The card reader uses this number to validate access.	
Facility Code	Identifies the physical building, organization or campus where the badge may be used.	
Description	Provides a meaningful word or short phrase to help you remember the purpose or characteristics of the badge.	
Wiegand Format	Identifies the badge format.	
Status	Reports the current state of the badge: Issuable (currently unassigned), Active, Disabled, Lost or Unknown.	

Property	Description
Owner	Reports the person to whom the badge is assigned.
Tenant	Reports the tenant with whom the person is associated.

Badges view

Every badge that is entered into the system has associated data that is available for display. This view creates and enrolls individual batches as well as groups of badges.

Figure 35 Default Badges view

Credential A	Facility Code	Description	Wiegand Format Name	Status
000000000000110	0	000110	55-Bit Wiegand Format	Issueable
000000000075001	0	75001	55-Bit Wiegand Format	Active

Control buttons

You access this view from the main menu by clicking **Personnel→Badges**.

The following are the Badges control buttons:

- D Enroll creates a new badge record by scanning the badge at a reader.
- O Add opens a view or window for creating a new record in the database.
- 🗗 Batch Enroll creates and configures new badges by scanning them at a reader.
- Range Create Badges creates and configures a specific number of new badges by specifying the beginning and ending credential numbers.
- Image: Hyperlink links to the edit view or window for the selected item. It is the same as double-clicking the table row. This button is available when a single record is selected.
- Dummary opens the Summary window for the selected item, which shows how item properties are currently configured. Double-clicking on any row in a table opens the Summary tab, which contains the same information as the Summary window.
- **b** Show Readers opens the **Person Reader Report**. The *Reports* chapter documents this report.
- 🖻 Show Expirations opens the Person Access Right Report view.
- Old Delete removes the selected record (row) from the database table. This button is available when you select an item.
- Duick Edit opens the Quick Edit window for the selected item(s). This feature allows you to edit one or more records without having to leave the current view.

Columns

Table 6Badges columns

Column	Description
Credential	Reports the sequential number assigned to the badge. The card reader uses this number to validate access.
Facility Code	Identifies the physical building, organization or campus where the badge may be used.
Description	Provides a meaningful word or short phrase to help you remember the purpose or characteristics of the badge.
Wiegand Format	Identifies the wiring standard for the card reader.
Status	Reports the current state of the badge: Issuable (currently unassigned), Active, Disabled, Lost or Unknown.
Last name	Reports the family name of the person.
First Name	Reports the given name of the person.
Tenant Name	Reports the name of the associated tenant.

Quick Edit window

This window makes available the properties for the selected badge to they can be edited quickly.

Figure 36 Badges Quick Edit window

Quick Edit			
${rak M}$ Apply to selected items: 1 \bigcirc Apply to all records with the current filter			
Description	Employee Badge		
Status	Active V		
Issue Date	\bigcirc TBA \bigcirc 11 \checkmark -Aug \checkmark -2017 10 \checkmark :00 \checkmark AM \checkmark EDT		
Expiration Date	$\textcircled{O} \text{ Never } O \textcircled{11} \lor \textcircled{Aug} \lor \textcircled{2017} \textcircled{12} \lor \textcircled{22} \lor \textcircled{PM} \lor \textcircled{EDT}$		
Tenant	🌖 FGH Company 🛛 » 🖺 🔀		
	Ok Cancel		

You access this view from the main menu by clicking **Personnel** \rightarrow **Badges**, followed by selecting a badge record and clicking the Quick Edit button (\square).

Property	Value	Description
(application)	radio buttons	Apply to selected items: 1 executes the change(s) for only the selected badge. Apply to all records executes the change(s) for all badges in the view. If the view is filtered, changes apply to only the filtered badges.
Description	text	Defines a meaningful word or short phrase to help you remember the purpose or characteristics of the badge.
Status	drop-down list	Reports "Issueable" until the badge is assigned, then it may be Active, Disabled, Lost or Unknown.
Issue Date	radio buttons	Defines when each badge is authorized for use. Two choices are possible:
		TBA (to be assigned) allows issue date to be defined at a later time.

Property	Value	Description
		Six date options: Month, Day, Year, hour, minutes, and AM/PM.
Expiration Date	radio buttons	The date and time that each badge is no longer authorized for use:
		never indicates that the badge does not expire.
		Six date options: Month, Day, Year, hour, minutes, and AM/PM.
Tenant	text	Identifies the tenant associated with the badge.

Badges Filter window

This window reduces the badges table rows to only those you are interested in viewing.

Figure 37 Badges filter window

Filter		
Credential	%	Must Include 🗸 🗹 Case Sensitive
Facility Code	%	Must Include 🗸 🗹 Case Sensitive
Description	%	Must Include V Case Sensitive
Wiegand Format Name	%	Must Include 🗸 🗹 Case Sensitive
Status		
Last Name	%	Must Include 🗸 🗹 Case Sensitive
First Name	%	Must Include 🗸 🗹 Case Sensitive
Tenant Name	%	Must Include 🗸 🗹 Case Sensitive
	Ok Cancel	

To access this filter, click **Personnel** \rightarrow **Badges**, and click the Filter button ($\overline{\bigcirc}$).

Criterion	Value	Description
Credential	wildcard (%)	Assigns a sequential number to a badge. The card reader uses this number to validate access.
Facility Code	wildcard (%)	Identifies the physical building, organization or campus where the badge may be used.
Description	wildcard (%)	Defines a meaningful word or short phrase to help you remember the purpose or characteristics of the badge.
Wiegand Format	wildcard (%)	Defines the wiring standard for the card reader.
Status	drop-down list	Reports "Issueable" until the badge is assigned, then it may be Active, Disabled, Lost or Unknown.
Last Name	wildcard (%)	The person's family name.
First Name	wildcard (%)	Defines the given name of the person.
Tenant Name	wildcard (%)	Defines the company name of the associated tenant.

Enroll New Badge view

This view creates a new badge record by scanning the badge at a reader. A **Save** button is located at the top of the view.

9	0		0			
Save 🔯 Badges						
Summary Badge						
Credential						
Facility Code						
Description						
Wiegand Format	Mone					
Status	Issueable 🔻					
Issue Date	TBA	Ø8 ▼ - Sep ▼	-2018	08 •	: 48 •	AM V IST
Expiration Date	Never	08 ▼ - Sep ▼ -	2018	08 • :	48 •	AM 🔻 IST
Owner	a None			»		
Tenant	今 None			»		
			*			
Acceptable Formats	1					
Scanned Badge			*			
Enrollment Reader	None					

Figure 38 Badge tab - Enroll New Badge view

You access this view by clicking **Personnel** \rightarrow **Badges** followed by clicking the Enroll button (\square).

Many enroll badge properties are the same as those for creating a new badge. The following table documents the unique enrollment properties.

Property	Value	Description
Acceptable formats	read-only	Displays the usable card formats for a scanned badge. If more than one format is acceptable, click on the format to use. If on- ly one format is acceptable, or when you select a format from a list of two or more, the system automatically enters the for- mat into the Wiegand Format property.
Scanned Badge	read-only number	Displays the Card ID number detected by the scanner.
Enrollment Reader	Ref Chooser	Defines the reader to use for enrolling new badges.

Enroll New Badge Summary tab

This tab displays badge information as soon as you save new badge data using the properties configured on the **Badges** tab.

Figure 39 Summary tab for Enroll New Badge

Summary	Badge		
[] 0 [0]			
Type:		Badge	
Credential:			
Facility Code:			
Description:			
🐺 Wiegand Format:			
Status:		sueable	
Owner:			
Tenant:			

When the data are saved, this tab displays in the appropriate Edit view.

Table 7 Enroll New Badge Summary tab fields

Field	Description	
Туре	Identifies this summary as containing badge enrollment information.	
Credential	Reports the sequential number assigned to the badge. The card reader uses this number to validate access.	
Facility Code	Identifies the physical building, organization or campus where the badge may be used.	
Description	Provides a meaningful word or short phrase to help you remember the purpose or character- istics of the badge.	
Wiegand Format	Identifies the wiring standard for the card reader.	
Status	Reports the current state of the badge: Issuable (currently unassigned), Active, Disabled, Lost or Unknown.	
Owner	Reports the name of the card holder.	
Tenant	Reports the name of the associated tenant.	

Add (or edit) New Badge view

This view provides properties to manually create new badges and edit existing badges, one badge at a time. A **Save** button is located at the top of the view.

The **Badge** tab is the active tab, by default, when you initially open the view. The tab includes the properties to configure a new badge record.

Figure 40 Add New Badge view

📄 Save	🗋 Badg	jes		
Summary	Badge			
Credentia	l	00000000001110		
Facility Co	de	0		
Descriptio	n	Headquarters		
Wiegand F	ormat	🗱 55-Bit Wiegand Format 📳		
Status		Active •		
Issue Date	e	● TBA ● 08 ▼ - Sep ▼ -2018 08 ▼ :09 ▼ AM ▼ IST		
Expiration	Date	● Never		
Owner		💫 Bradley, Mandana 🛛 🔹 🔉 🖹 📀		
Tenant		None >>		

You access this view by clicking **Personnel** \rightarrow **Badges**, followed by clicking the Add badge button (\bigcirc).

Property	Value	Description
Credential No.	number	Assigns a sequential number to a badge. The card reader uses this number to validate access.
Facility Code	text	Identifies the physical building, organization or campus where the badge may be used.
Description	text	Defines a meaningful word or short phrase to help you remember the purpose or characteristics of the badge.
Wiegand Format	Ref chooser	Defines the wiring standard for the card reader.
Status	drop-down list	Reports "Issueable" until the badge is assigned, then it may be Active, Disabled, Lost or Unknown.
Issue date	radio buttons	Defines when each badge is authorized for use. Two choices are possible:
		${\tt TBA}$ (to be assigned) allows issue date to be defined at a later time.
		Six date options: Month, Day, Year, hour, minutes, and AM/PM.
Expiration date	radio buttons	The date and time that each badge is no longer authorized for use:
		never indicates that the badge does not expire.
		Six date options: Month, Day, Year, hour, minutes, and AM/PM.
Owner	Ref chooser	Automatically fills (if you enrolled the person from another view), or defines the owner using the Ref Chooser. The person to whom the badge is assigned is the badge owner.
Tenant	Ref chooser	Defines the company name of the associated tenant.

Add New Badge Summary tab

This tab displays badge information as soon as you configure and save new badge data using the properties on the **Badges** tab. When the data are saved, this tab displays in the appropriate Edit view.

Figure 41 Add New Badge Summary tab

Summary Badg	je			
00003744372 [0]				
Type:	Badge			
Credential:	00003744372			
Facility Code:	0			
Description:				
Wiegand Format	: 37-Bit Wiegand Format (HID-H10302)			
Status:	Active			
Owner:	Sanders, Randy			
Tenant:				

o fields

Field	Description	
Туре	Identifies this summary as containing badge enrollment information.	
Credential	Reports the sequential number assigned to the badge. The card reader uses this number to vali- date access.	
Facility Code	Identifies the physical building, organization or campus where the badge may be used.	
Description	Provides a meaningful word or short phrase to help you remember the purpose or characteris- tics of the badge.	
Wiegand Format	Identifies the wiring standard for the card reader.	
Status	Reports the current state of the badge: Issuable (currently unassigned), Active, Disabled, Lost of Unknown.	
Owner	Reports the name of the card holder.	
Tenant	Reports the name of the associated tenant.	

Badge tab

This tab appears when you create or edit a new badge.

🔒 Save 🗋 🖬	Badges	
Summary Bad	ge	
Credential	00000000012345	
Facility Code	0	
Description	MyBadge	
Wiegand Format	📰 55-Bit Wiegand Format	
Status	Issueable 💙	
Issue Date	● TBA ○ 15 ♥ - Sep ♥ - 2018	05 ∨: 00 ∨ PM ∨ EDT
Expiration Date	● Never ○ 15 ∨ - Sep ∨ - 2018	05 ∨: 00 ∨ PM ∨ EDT
Owner	💫 None	
Tenant	None	

You access this tab from the main menu by clicking **Personnel→Badges** followed by clicking the Add button (○) or, to edit an existing badge, by double-clicking the badge row in the **Badges** view.

Properties

Property	Value	Description
Credential	read-only	Displays the badge number.
Facility Code	read-only	Displays the building or other number that identifies where the badge can be used.
CredentialDescrip- tion	read-only	Displays any additional information about the badge.
Wiegand Format	read-only	Defines the wiring standard for the card reader.
Status	read-only	Reports "Issueable" until the badge is assigned, then it may be Active, Disabled, Lost or Unknown.
Issue Date	read-only	Displays when the badge was issued.
Expiration Date	read-only	Indicates when the badge is no longer valid.
Owner	read-only	Identifies the person to whom the badge is assigned.
Tenant	read-only	Identifies the tenant to whom this badge belongs.

Batch Enroll Badges view, Badge tab

This view configures and creates new badges by scanning them in at any connected reader.



Figure 42 Batch Enroll Badges, Badge tab

You access this view by expanding **Personnel→Badges** and clicking the Batch Enroll button (¹). The **Badge** tab contains the batch enroll properties. A **Save** button is located at the top of the view.

Property	Value	Description
Description	text	Defines a meaningful word or short phrase to help you remem- ber the purpose or characteristics of the badge.
Wiegand Format	Ref chooser	Defines the wiring standard for the card reader.
Status	drop-down list	Reports "Issueable" until the badge is assigned, then it may be Active, Disabled, Lost or Unknown.
Issue date	radio buttons	Defines when each badge is authorized for use. Two choices are possible:
		TBA (to be assigned) allows issue date to be defined at a later time.
		Six date options: Month, Day, Year, hour, minutes, and AM/PM.
Expiration date	radio buttons	The date and time that each badge is no longer authorized for use:
		never indicates that the badge does not expire.
		Six date options: Month, Day, Year, hour, minutes, and AM/PM.
Owner	Ref chooser	Automatically fills (if you enrolled the person from another view), or defines the owner using the Ref Chooser. The person to whom the badge is assigned is the badge owner.
Tenant	Ref chooser	Defines the company name of the associated tenant.
New Badges	read-only list of numbers	Displays each new badge as the reader scans it.
Scanned Badge	read-only number	Displays the badge ID of the most recently-scanned badge.
Enrollment Reader	Ref chooser (required)	Identifies the reader to use.

Batch Enroll Summary tab

This tab displays badge information as soon as you save new badge data using the properties configured on the **Badges** tab. When the data are saved, this tab displays in the appropriate edit: view.

Figure 43 Batch Enroll Badges Summary tab



Field	Description
Туре	Identifies this summary as containing badge enrollment information.
Credential	Reports the sequential number assigned to the badge. The card reader uses this number to validate access.
Facility Code	Identifies the physical building, organization or campus where the badge may be used.
Description	Provides a meaningful word or short phrase to help you remember the purpose or characteristics of the badge.
Wiegand Format	Identifies the wiring standard for the card reader.
Status	Reports the current state of the badge: Issuable (currently unassigned), Active, Disabled, Lost or Unknown.
Owner	Reports the name of the card holder.
Tenant	Reports the name of the associated tenant.

 Table 9
 Enroll New Badge Summary tab properties

Range Create Badges view, Badge tab

This view configures and creates a specific number of new badges by specifying beginning and ending credential numbers.

Figure 44 Range Create Badges view, Badge tab

🔒 Save 🗋 Badg	es			
Summary Badge				
Facility Code	þ			
Description				
Wiegand Format	None None		»	
Status	Issueable 🔻			
Issue Date	TBA	08 ▼ - Sep ▼ -2018	09 • : 19 • A	M 🔻 IST
Expiration Date	Never	08 ▼ - Sep ▼ - 2018	09 ¥ : 19 ¥ AN	1 ▼ IST
Owner	a None		»	
Tenant	🌖 None		»	
Credential Start	0			
Credential Finish	0			

You access this view by clicking **Personnel→Badges**, followed by clicking the Range Create Badges button (

You access this tab from the main menu by clicking

The **Badge** tab contains the range-create badges properties. A **Save** button is located at the top of the view.

Property	Value	Description
Facility Code	text	Identifies the physical building, organization or campus where the badge may be used.
Description	text	Defines a meaningful word or short phrase to help you remember the purpose or characteristics of the badge.

Property	Value	Description	
Wiegand Format	Ref chooser	Defines the wiring standard for the card reader.	
Status	drop-down list	Reports "Issueable" until the badge is assigned, then it may be Active, Disabled, Lost or Unknown.	
Issue date	radio buttons	Defines when each badge is authorized for use. Two choices are possible:	
		TBA (to be assigned) allows issue date to be defined at a later time.	
		Six date options: Month, Day, Year, hour, minutes, and AM/PM.	
Expiration date	radio buttons	The date and time that each badge is no longer authorized for use:	
		never indicates that the badge does not expire.	
		Six date options: Month, Day, Year, hour, minutes, and AM/PM.	
Owner	Ref chooser	Automatically fills (if you enrolled the person from another view), or defines the owner using the Ref Chooser. The person to whom the badge is assigned is the badge owner.	
Tenant	Ref chooser	Defines the company name of the associated tenant.	
Credential Start	number	Identifies the number to use for the first badge in the range.	
Credential Finish	number	Identifies the number to use for the last badge in the range	

Range Create Badges Summary tab

This tab displays badge information as soon as you save new badge data using the properties configured on the Badge tab. When the data are saved, this tab displays in the appropriate edit view.

Figure 45 Range Create Badges Summary tab

Summary	Badge				
00003744	00003744372 [0]				
🔲 Type:	[Badge			
Credential	l: 00	0003744372			
Facility Co	de: 0				
Oescriptio	n:				
Wiegand I	Format: 3	87-Bit Wiegand Format (HID-H10302)			
Status:	A	ctive			
Owner:	5	Sanders, Randy			
🕒 Tenant:					

Property	Description
Туре	Identifies this summary as reporting badge enrollment information.
Credential	Reports the sequential number assigned to the badge. The card reader uses this number to validate access.
Facility Code	Identifies the physical building, organization or campus where the badge may be used.
Description	Provides a meaningful word or short phrase to help you remember the purpose or characteristics of the badge.
Wiegand Format	Identifies the wiring standard for the card reader.
Status	Reports the current state of the badge: Issuable (currently unassigned), Active, Disabled, Lost or Unknown.
Owner	Reports the name of the card holder.
Tenant	Reports the name of the associated tenant.

Table 10	Range Create	Badges	Summary	/ tab	properties

Access Rights view

An access right is database record that identifies which facilities a person may enter. A schedule associated with an access right identifies the door(s) and reader(s) a person may use to enter. An access right provides information about where a person typically resides in a building. Multiple tenants may share the same access rights. This table view lists all the access rights that exist in the system.

To open this view, expand **Personnel** and click **Access Rights**.

Figure 46	Access Rights view	

- . .

Access Right Name 🙏	Schedule Name	Integration Name	Tenant Name
Employees	MorningHours		
Operator	Evening		
Tridium	Always		

You access the Access Rights views by clicking Personnel→Access Rights.

Control buttons

In addition to the standard control buttons (Filter, Column Chooser, Refresh, Manage Reports, and Export), the following are Access Rights control buttons:

- O Add opens a view or window for creating a new record in the database.
- Image: Hyperlink links to the edit view or window for the selected item. It is the same as double-clicking the table row. This button is available when a single record is selected.
- Dummary opens the Summary window for the selected item, which shows how item properties are currently configured. Double-clicking on any row in a table opens the Summary tab, which contains the same information as the Summary window.
- Old Delete removes the selected record (row) from the database table. This button is available when you select an item.
- Call Match with discovery initiates an action to update a single item that is already in the system database. It is available when you select an item in both the Database pane and the Discovered pane of a

manager view. This action associates the discovered item with the selected item that is already in the database—usually an item previously added off line. The added item assumes the properties defined for it in the database. You can edit properties after adding the item.

- Duick Edit opens the **Quick Edit** window for the selected item(s). This feature allows you to edit one or more records without having to leave the current view.
- Duplicate opens a New window and populates each property with properties from the selected item. Using this button speeds the item creation.
- 🖻 Show Expirations opens the Person Access Right Report view.
- D Show Readers opens the Person Reader Report. The *Reports* chapter documents this report.

Columns

Table 11	Access Rights	columns
----------	---------------	---------

Column	Description
Access Right Name	Identifies the title of the access right associated with the entity.
Schedule	Reports the name of the associated schedule (if any).
Niagara Integration ID	Reports the name of the associated integration ID The system performs building automation actions, such as turning the lights on, associated with this type of ID.
Tenant	Reports the name of the associated tenant.
Threat Level Group	Reports the name of the associated threat level group.

Access Rights Summary tab

The summary tab provides the details for the currently-selected access right.

The Summary tab on the New Access Right view displays the following information. The system updates it after you enter and save an access right. The Summary tab may also include context-appropriate lists of floors, people and card readers that are associated with the displayed access right.

Figure 47 Access rights Summary window

Summary	Access Right	People	Readers	Floors	
Westerre	3rd Floor				
Type:	6	Access Rig	ht		
Access Right	ght Name: We	sterre 3rd	Floor		
Schedule:	Schedule: M-F: 6-6				
Niagara Integration ID:					
🕒 Tenant:	St	ar City Ha	all		
A Threat Le	vel Group: Th	ireat Leve	el Group		

You access the Summary tab from the Access Rights view by clicking the Summary tab in an existing Access Right or by clicking the Summary tab from the Add New Access Right view.

You access the new access right Summary tab by clicking the Summary tab.

Property	Description			
Туре	Identifies this summary as a collection of access right data.			
Access Right Name	Identifies the title of the access right associated with the entity.			
Schedule	Reports the name of the associated schedule (if any).			
Niagara Integration ID	Reports the name of the associated integration ID The system performs building automa- tion actions, such as turning the lights on, associated with this type of ID.			
Tenant	Reports the name of the associated tenant.			
Threat Level Group	Reports the name of the associated threat level group.			
People	Reports the names of the people authorized to enter the building.			

 Table 12
 Summary of access right properties

Quick Edit window

This window edits the important properties associated with a person's access rights.

Figure 48 Access Rights Quick Edit view

Quick Edit				
Apply to selected items:	1 O Apply to all records with the current filter			
Schedule	Building unlocked	» 🗎		
Niagara Integration ID	🛞 None	»		
Tenant	🕒 FGH Company	» 🗎 🔀		
Threat Level Group	A None	»		
Threat Level Operation	Normal			
Default Assigned Threat Lev	elDefault ▼			
Add People	A None	»		
Remove People	A None	»		
Add Readers	None	»		
Remove Readers	None	»		
	Ok Cancel			

This window opens when you click the Quick Edit button () at the top of the Access Rights view.

Apply to selected items: <number selected> changes only the selected access rights.

Ar	g	Lv	to	all	reco	ords	with	the	currer	nt fi	lter	changes	all	records	identi	fied k	ov t	he f	ilter.
	-	_																	

Property	Value	Description
Schedule	text	Identifies the name of the schedule (if any) that is assigned to the access right.
Niagara Integra- tion ID	text	Defines the physically-defined space where a tenant card hold- er typically resides in a facility. This information may be passed to a building automation system by BACnet, for example, so that when a person exercises this access right by entering the facility, the appropriate lighting, HVAC, and other controls ad- just automatically.
Tenant	Ref chooser	Defines the company name of the associated tenant.
Threat Level Group	Ref chooser	Lists the Threat Level Group (if any) that is assigned to the access right.

Property	Value	Description
Threat Level	drop-down list	Defines how the access right responds to a threat level.
Operation		Normal allows normal access (as if no threat level is assigned) when the currently-active threat level is equal to or less than the threat level assigned to the person's access right.
		Specific Level allows normal access (as if no threat level is assigned) as long as the currently-active threat level is equal to the threat level assigned to the person's access right.
		Reverse allows normal access (as if no threat level is assigned) as long as the currently-active threat level is equal to or greater than the threat level assigned to the person's access right.
		Reverse allows some types of people (emergency responders) into a facility when the active threat level is elevated.
Default Assigned	drop-down list; de-	Defines a specific threat level to associate with an access right.
Threat Level	faults to Default	If you leave this property set to -Default-, the access right inherits the threat level from the Default Access Right Threat Level property as defined for the selected threat level group.
Add People	Ref Chooser	Associates people to this access right.
Remove People	Ref Chooser	Disassociates people from this access right.
Add Readers	Ref Chooser	Associates one or more readers with this access right.
Remove Readers	Ref Chooser	Disassociates one or more readers with this access right.

Filter window

This window selects which records to view in the table.

Figure 49 Filter window for access rights

Filter		
Access Right Name	%	Must Include 🗸 🗹 Case Sensitive
Schedule Name	%	Must Include 🗸 🗹 Case Sensitive
Integration Name	%	Must Include 🗸 🗹 Case Sensitive
Tenant Name	%	Must Include 🗸 🗹 Case Sensitive
Threat Level Group Name	%	Must Include 🗸 🗹 Case Sensitive
	Ok Cancel	

To access this filter from the main menu, click **Personnel** \rightarrow **Access Rights**, followed by clicking the Filter button ().

Туре	Value	Description
Access Right Name	wild card (%)	Sets up one or more access rights as search criteria.
Schedule Name	wild card (%)	Sets up one or more schedule names as search criteria.
Integration Name	wild card (%)	Sets up one or more integration names as search criteria.

Туре	Value	Description
Tenant Name	wild card (%)	Sets up one or more tenant names as search criteria.
Threat Level Group Name	wild card (%)	Sets up one or more threat level group names as search criteria.

Add New (and edit) Access Rights view, Access Right tab

This view provides properties to configure and create new access rights.

Figure 50 Add New Access Right view

Save	🔯 Access Right	s 🚹 D	uplicate				
Summary	Access Right	People	Readers	Floors			
Access Rig	ght Name	Employee	25]	
Schedule		📩 Morni	ngHours			»	A.
Niagara I	ntegration ID	💸 None				»	
Tenant		🕒 None				»	
Threat Lev	vel Group	🔥 None				»	
Descriptio	n				11		

To edit an existing access right you double-click a row in the Access Rights table. A **Save** button is located at the top of the view.

Property	Value	Description
Access Right Name	text	Provides a descriptive title for the access right.
Schedule Name	Ref chooser (re- quired value)	Identifies the name of an existing schedule that provides a boolean (true or false) output to indicate when the access right is in effect over a 24-hour day, 7-day week. For example, an ac- cess right called "Weekdays: 8 to 5," which is associated with a schedule set up for Monday through Friday, 8 am to 5 pm would not allow access before 8 am or after 5 pm Monday through Friday.
Niagara Integra- tion ID	Ref Chooser	Defines the physically-defined space where a tenant card hold- er typically resides in a facility. This information may be passed to a building automation system by BACnet, for example, so that when a person exercises this access right by entering the facility, the appropriate lighting, HVAC, and other controls ad- just automatically.
Tenant	Ref chooser	Provides additional information about the access right that may be used for filtering or sorting access right records. A sin- gle tenant is assigned to an access right.
Threat Level Group	Ref chooser	Associates the access right with a threat level group. If you as- sign the group, the system expands the tab adding two addi- tional properties: Threat Level Operation and Default Assigned Threat Level.

Property	Value	Description
Threat Level Oper-	drop-down list (de-	Defines how the access right responds to a threat level.
ation (appears only when a Threat Level Group is assigned.)	faults to Normal)	Normal allows normal access (as if no threat level is assigned) when the currently-active threat level is equal to or less than the threat level assigned to the person's access right.
		Specific Level allows normal access (as if no threat level is assigned) as long as the currently-active threat level is equal to the threat level assigned to the person's access right.
		Reverse allows normal access (as if no threat level is assigned) as long as the currently-active threat level is equal to or greater than the threat level assigned to the person's access right.
		Reverse allows some types of people (emergency responders) into a facility when the active threat level is elevated.
Default Assigned	drop-down list (de-	Defines a specific threat level to associate with an access right.
Threat Level (ap- pears only when a Threat Level Group is assigned).	-Default-	If you leave this property set to -Default-, the access right inherits the threat level from the Default Access Right Threat Level property as defined for the selected threat level group.
Description	text	Provides a longer description of the access right and its purpose.

People tab

This tab provides a set of standard control buttons for using the learn mode to assign people to the access right. It displays a table of available people, as well as lists the currently assigned or newly assigned people.

Figure 51 Add New Access Rights People tab



To view access right assignments by employee name, click **Personnel→Access Rights**. Then click the Add access right button (③) followed by clicking the **People** tab.

Control buttons

The following control buttons provide the functions on this tab.

• 🥥 Remove Assignment (Unassign) disassociates an assignment that was previously made.
- 🕒 Change Assignment Properties opens the Change Assignment Properties window.
- Dummary opens the Summary window for the selected item, which shows how item properties are currently configured. Double-clicking on any row in a table opens the Summary tab, which contains the same information as the Summary window.
- Image: Hyperlink links to the edit view or window for the selected item. It is the same as double-clicking the table row. This button is available when a single record is selected.

Columns

Column	Description
Last Name	Reports the family name of the person.
First Name	Reports the given name of the person.
Department	Reports where within the organization's flow chart the person works.
Person Type	Reports additional information about the person.
Tenant Name	Reports the name of the associated tenant.
Start Date	Reports the date the access right became effective.
End Date	If the employee has been terminated, the last day of employment.
Assigned Threat Level	Reports the threat level associated with the access right.

 Table 13
 Access Rights, People tab columns

Readers tab

This tab provides a set of standard control buttons for using the learn mode to assign readers to the access right. It displays a table of available readers, as well as lists the currently assigned or newly assigned readers.

Figure 52 Access Rights, Readers tab

Save	Access Rigit	nts 🕒	Duplicate		
Summary	Access Right	People	Readers	Floors	
Assigned					
9 B)		E			
Reader N	ame 🗡		Assignm	ent	Station Name
Reader 1			Door 1		entSecurity801
Reader 2			Door 2		entSecurity801
Newly U	nassigned				
OB					
00					

To view reader assignments, click **Personnel→Access Rights**. Then click the Add access right button (◎) followed by clicking the **Readers** tab.

Control buttons

These buttons provide the features on this view.

- 🥥 Remove Assignment (Unassign) disassociates an assignment that was previously made.
- Dummary opens the Summary window for the selected item, which shows how item properties are currently configured. Double-clicking on any row in a table opens the Summary tab, which contains the same information as the Summary window.
- We Hyperlink links to the edit view or window for the selected item. It is the same as double-clicking the table row. This button is available when a single record is selected.

Columns

Table 14	Access	Rights,	People	tab	columns
----------	--------	---------	--------	-----	---------

Column	Description
Reader Name	The name associated with the reader.
Assignment	Indicates the door with which the reader is associated.
Station Name	Reports the name of the station managing the access rights.

Readers tab, Summary window

This window summarizes reader properties.

Figure 53 Readers tab Summary window

Summary	
	oor I.Reader I
Mapped Ord:	/Drivers/Access Network/Base Reader Module/points/Door 1/Reader 1
Type:	TReader
Reader Name:	Reader 1
Assignment:	Door 1
Station Name:	entSecurity801
Status:	{fault}
Enabled:	true
Reader Config:	Reader Only
Last Badge Read:	
Key Pad Entry:	
Time Attend:	None
Access Rights	5
Daytime worl	king hours
	Done

This window opens when you click the Summary button (¹) with an Access Right selected. The follow table lists typical Summary properties displayed in this window.

Table 15	Summary	properties
----------	---------	------------

Property	Description	
Mapped Ord	Locates the device in the station.	
Туре	Indicates the type of device.	
Reader Name	Indicates the name of the reader.	

Property	Description
Assignment	Indicates the door to which the reader is assigned.
Station Name	Identifies the name of the controlling station.
Status	Indicates the current status of the device.
Enabled	Indicates if the device is enabled (true) or disabled (false)
Reader Config	Indicates how the reader is configured: as "Reader Only," or "Read- er and Keypad," or other options that depend on the reader model. When configured to "Reader Only," only a badge swipe is required to gain access. If "Reader and Keypad," the person must swipe a badge and enter a PIN.
Last Badge Read	Identifies the last badge the reader processed.
Key Pad Entry	Displays the most recent PIN entered at the reader key pad. For se- curity reasons, this property is hidden.
Time Attend	Indicates when the last badge swipe at the reader occurred.

Readers tab, Filter window

This window defines search criteria.

Figure 54 Readers tab Filter window

Filter			
Reader Name	%	Must Include V	Case Sensitive
Assignment	%	Must Include V	Case Sensitive
Station Name	%	Must Include V	Case Sensitive
	Ok Cancel]	

You open this window by clicking the Filter button ($\overline{\heartsuit}$).

Property	Value	Description
Reader Name	wild card (%)	Sets up one or more reader names as search criteria.
Assignment	wild card (%)	Sets up one or more floor assignments as search criteria.
Station Name	wild card (%)	Sets up one or more station names as search criteria.

Floors tab

This tab provides a set of standard control buttons for using the learn mode to assign floors to the access right. It displays a table of available floors, as well as lists the currently assigned or newly assigned floors.

NOTE:

Floors are only available when elevators are configured.

Figure 55	Access Ri	ghts, Fl	oors tab		
Summary	Access Right	People	Readers	Floors	
Newly As	signed				
Floor Nam	ie 🔥				Elevator Name
Unassign	ied				
Floor Nar	ne				Elevator Name

To view floor assignments, click **Personnel→Access Rights**. Then click the Add access right button (^(Q)) followed by clicking the **Floors** tab.

Control buttons

These buttons provide view features:

- 😑 Remove Assignment (Unassign) disassociates an assignment that was previously made.
- Dummary opens the Summary window for the selected item, which shows how item properties are currently configured. Double-clicking on any row in a table opens the Summary tab, which contains the same information as the Summary window.
- Image: Hyperlink links to the edit view or window for the selected item. It is the same as double-clicking the table row. This button is available when a single record is selected.

Columns

Table 16 Access Rights, People tab columns

Column	Description
Floor Name	Reports the name associated with the reader.
Elevator Name	Reports the name of the elevator.
Station Name	Reports the station name.

Floors tab, Filter window

This window sets up search criteria related to elevators and floors.

Figure 56 New Access Right, Floors tab Filter window

Filter			
Floor Name	%	Must Include V	Case Sensitive
Elevator Name	%	Must Include V	🗹 🗹 Case Sensitive
Station Name	%	Must Include V	🗹 🗹 Case Sensitive
	Ok Cancel]	

You open this window by clicking the Filter button ($\overline{\mathbb{T}}$).

Property	Value	Description
Floor Name	wild card (%)	Sets up the name of one or more floors as search criteria.
Elevator Name	wild card (%)	Sets up the name of one or more elevators as search criteria.
Station Name	wild card (%)	Sets up the name of one or more stations as search criteria.

Tenants view

These views, window and tabs manage tenant information.



frager Home of Monitoring Separate Reports	💣 System Setup
💪 People 🛛 🖥 Badges 🕞 Access Rights (Tenants	🞭 Additional Personnel Data
Tenant Name 🔥	
FGH Company, Inc.	
Mother's Muffins	
RiversForAll.org	
4	•

To open this view, expand **Personnel** and click **Tenants**.

In addition to the standard control buttons (Column Chooser, Refresh, Manage Reports, and Export, these control buttons apply specifically to Tenants:

- O Add opens a view or window for creating a new record in the database.
- Image: Hyperlink links to the edit view or window for the selected item. It is the same as double-clicking the table row. This button is available when a single record is selected.
- Dummary opens the Summary window for the selected item, which shows how item properties are currently configured. Double-clicking on any row in a table opens the Summary tab, which contains the same information as the Summary window.
- Old Delete removes the selected record (row) from the database table. This button is available when you select an item.
- Cal Match initiates an action to add a single item to the system database. It is available only when you select an item in both the Database pane and the Discovered pane of a manager view. This action associates the discovered item with the selected item that is already in the database—usually an item previously added off line. The added item assumes the properties defined for it in the database. You can

edit properties after adding the item. (This button also synchronizes similar schedules (subordinate to supervisor) under a single name.)

- **b** Show Readers opens the **Person Reader Report**. The *Reports* chapter documents this report.
- 🖻 Show Expirations opens the Person Access Right Report view.

Tenants Summary window/tab

This window and tab display information about a single tenant.

The Summary tab is present but does not display updated information until you enter data and save the Add New Tenant or edit tenant tabs. When a new tenant is saved, this tab displays in the appropriate edit view. This tab may also include context-appropriate lists of integration ID, people, badges, and access rights that are associated with the displayed tenant.

Figure 58 Tenants Summary window and tab



You access the Summary window from the Tenants view by clicking the Summary button (🕒).

You access the **Summary** tab from the **Add New Tenant** view (after entering and saving a tenant) by clicking the **Summary** tab.

Property	Description
Туре	Reports the type of database record.
Tenant Name	Reports the name of the tenant.
People	People assigned to the tenant group
Threat Level Groups	Threat level groups assigned to the tenant
Access Rights	Access rights assigned to the Tenant
Other	Additional assigned properties can include: Niagara Integrations IDs, Intrusion Pins, Photo ID Templates, andBadges.

Table 17Tenant properties

Filter window

This window sets the search criterion for tenant records.

Figure 59 Tenants Filter window

Filter				
Tenant Name	%		Must Include	✓ ✓ Case Sensitive
		Ok Cancel]	

The tenant name serves as the sole criterion for searching.

Add (or edit) a New Tenant view

This view adds or edits a tenant record in the database.

This tab is the active tab, by default.

Figure 60 Tenant tab

ave Date Save								
Summary	Tenant	Niagara Integration IDs	Intrusion Pins	People	Badges	Threat Level Groups	Access Rights	
Tenant Na	me FGH	Company						
Description	n 10th	r Floor, New Suites	//					

You access this view by clicking **Personnel** \rightarrow **Tenants**, followed by clicking the Add button (^(Q)). To edit an existing tenant, double-click on a table row or, with the row selected, click on the Hyperlink button (^(Q)).

The **Tenant** tab is the active tab, by default. A **Save** button is located at the top of the view and the following tabs and property fields are available for specifying a new tenant.

Property	Value	Description
Tenant Name	text	Defines the name of the tenant.
Description	text	Provides any general information about the nature of the tenant.

Tenants Niagara Integration IDs tab

This tab assigns integration IDs to the tenant. An integration ID associates BAS (Building Automation System), such as room temperature and lighting with a tenant.

You access this view by clicking **Personnel**→**Tenants**, followed by clicking the **Niagara Integration IDs** tab.

In addition to the standard control buttons (Export and Assign Mode), the **Newly Assigned** pane of this report provides these report-specific tabs:

- 🥥 Unassign disassociates the integration ID from the tenant.
- Discrete Summary opens a window that summarizes the selected integration ID's properties.
- Image: Hyperlink opens the integration ID view for the selected ID. This view is documented in the *Controller Setup—Remote Devices* chapter.

The Unassigned pane includes the Assign button (), which assigns a discovered integration ID to the tenant.

Tenants Intrusion Pins tab

This tab assigns intrusion PINs to the tenant.

Figure 61 Intrusion Pins tab							
🔚 Save 🔯 Tenant	ts						
Summary Tenant	Niagara Integration IDs	Intrusion Pins	People	Badges	Т		
Assigned							
Intrusion Pin Name	A Schedule N	ame	Tenant N	lame			
DoorPin	Evening		FGH Company				
Newly Unassigned							
Intrusion Pin Name	Schedule Nan		Tenant	Name			

You access this view by clicking **Personnel**→**Tenants**, followed by clicking the **Intrusion Pins** tab.

Control buttons

In addition to the standard control buttons (Export and Assign Mode), the **Newly Assigned** pane of this report provides these report-specific tabs:

- 😑 Remove Assignment (Unassign) disassociates an assignment that was previously made.
- Dummary opens the Summary window for the selected item, which shows how item properties are currently configured. Double-clicking on any row in a table opens the Summary tab, which contains the same information as the Summary window.
- A Hyperlink links to the edit view or window for the selected item. It is the same as double-clicking the table row. This button is available when a single record is selected.

The Unassigned pane includes the Assign button ((2)), which assigns a discovered intrusion PIN to the tenant.

Tenants People tab

This tab assigns people to the tenant.

Figure 62 Tenant tab

🔚 Save 🔯	Tenants					
Summary Te	nant Niagara	Integration IDs	Intrusion Pins	People	Badges	Threa
Newly Assigr	red					
Last Name 🔥	Fir	rst Name	Department	Pe	erson Type	
Unassigned						
Last Name	Fin	st Name	Department	P	erson Typ	e
Anderson	Gay	yle	Hardware			
Bradley	Ma	ndana	ITSoftware			
Claire	Ada	am	Transport			
Marie	Bill	iards	ITSoftware			

You access this view by clicking **Personnel→Tenants**, followed by clicking the **People** tab.

Control buttons

In addition to the standard control buttons (Export and Assign Mode), the **Newly Assigned** pane of this report provides these report-specific tabs:

- 🥥 Remove Assignment (Unassign) disassociates an assignment that was previously made.
- Dummary opens the Summary window for the selected item, which shows how item properties are currently configured. Double-clicking on any row in a table opens the Summary tab, which contains the same information as the Summary window.
- Image: Hyperlink links to the edit view or window for the selected item. It is the same as double-clicking the table row. This button is available when a single record is selected.

The Unassigned pane includes the Assign button (\bigcirc) , which assigns a discovered person to the tenant.

Tenants Badges tab

This tab assigns badges to the tenant.

Figure 63 Badges tab

Save	🗋 Tenar	nts							
Summary	Tenant	Niagara Integra	tion IDs	Intrusion Pins	People	Badges	Threat L	evel Groups	Α
Newly As	signed								
		V							
Credentia	🔥 Fa	cility Code	Descripti	on Wiegand	Format N	ame St	tatus	Last Name	
Unassign	ed								
Credentia	ıl	Facility Code	Descript	ion Wiegan	d Format M	lame S	Status	Last Name	
00000000	00001110	0	Headquar	ters 55-Bit W	iegand Forn	nat A	Active	Bradley	
00000000	00023450	0	Main Buil	ding 55-Bit W	iegand Forn	nat I	ssueable		

You access this view by clicking **Personnel→Tenants**, followed by clicking the **Badges** tab.

In addition to the standard control buttons (Export and Assign Mode), the **Newly Assigned** pane of this report provides these report-specific tabs:

- 🥥 Unassign disassociates the badge from the tenant.
- 🕒 Summary opens a window that summarizes the selected badge's properties.
- Image: Hyperlink opens the badges view for the selected badge. This view is documented in the Badges, views, tabs, and windows topics.

The Unassigned pane includes the Assign button (^(Q)), which assigns a discovered badge to the tenant.

Tenants Threat Level Groups tab

This tab assigns a threat level group to a tenant.

Figure 64 Threat Level Group tab



You access this view by clicking **Personnel→Tenants**, followed by clicking the **Threat Level Groups** tab.

Control buttons

In addition to the standard control buttons (Export and Assign Mode), the **Newly Assigned** pane of this report provides these report-specific tabs:

- 🥥 Remove Assignment (Unassign) disassociates an assignment that was previously made.
- Dummary opens the Summary window for the selected item, which shows how item properties are currently configured. Double-clicking on any row in a table opens the Summary tab, which contains the same information as the Summary window.
- Image: Hyperlink links to the edit view or window for the selected item. It is the same as double-clicking the table row. This button is available when a single record is selected.

The Unassigned pane includes the Assign button (^(Q)), which assigns a discovered threat level group to the tenant.

Tenants Access Rights tab

This tab assigns access rights to the tenant.

t Level
I

You access this view by clicking **Personnel**-**Tenants**, followed by clicking the **Access Rights** tab.

Control buttons

In addition to the standard control buttons (Export and Assign Mode), the **Newly Assigned** pane of this report provides these report-specific tabs:

- 🥥 Remove Assignment (Unassign) disassociates an assignment that was previously made.
- Dummary opens the Summary window for the selected item, which shows how item properties are currently configured. Double-clicking on any row in a table opens the Summary tab, which contains the same information as the Summary window.
- Image: Hyperlink links to the edit view or window for the selected item. It is the same as double-clicking the table row. This button is available when a single record is selected.

The Unassigned pane includes the Assign button (^(Q)), which assigns a discovered access right to the tenant.

Additional Personnel Data view

This view lists all the existing Person Info Templates. These templates create custom properties that are added to personnel (people) records.

Figure 66 Additional Personnel Data view



NOTE: You can use the column chooser mode to add up to 10 additional data rows for a person.

Control buttons

The following are the control buttons for this view:

- O Add opens a view or window for creating a new record in the database.
- Image: Hyperlink links to the edit view or window for the selected item. It is the same as double-clicking the table row. This button is available when a single record is selected.
- Discrete Summary opens the Summary window for the selected item, which shows how item properties are currently configured. Double-clicking on any row in a table opens the Summary tab, which contains the same information as the Summary window.
- Old Delete removes the selected record (row) from the database table. This button is available when you select an item.

Columns

Table 18	Additional	Personnel	Data	columns
----------	------------	-----------	------	---------

Column	Description
Info Template Name	Provides a descriptive title (display name) for the template.
Default Value	Reports the text that by default displays for the property in the Add New Person and edit person views.

Additional Personnel Data Summary window/tab

This window and tab display information about a additional personnel template.

The Summary tab is present but does not display updated information until you enter data and save the Add New Info Template or edit the Info Template tab. When a new template is saved, this tab displays in the appropriate edit view. This tab may also include context-appropriate lists of additional information. Figure 67 Additional Personnel Data Summary window and tab



You access the **Summary** window from the **Additional Personnel Data** view by clicking the Summary button.

You access the **Summary** tab from the **Add New Info Template** view (after entering and saving a template) by clicking the **Summary** tab.

Property	Description
Туре	Identifies these summary data as additional personnel data.
Info Template	Reports the name of the template that contains the additional data.
Default value	Displays the value that defaults when no other value is provided.
Database column	Identifies the column in the table to which the property is mapped.

 Table 19
 Summary properties

Additional Personnel Data Filter window

This window defines the search criteria for searching the database.

Figure 68 Filter (Additional Personnel Data

Filter			
🛄 Info Template Name 🦻	%	Must Include	✓ ✓ Case Sensitive
Default Value	%	Must Include	✓ ✓ Case Sensitive
	Ok Cancel		

You open this filter by clicking **Personnel→Additional Personnel Data** followed by clicking the Filter button (♥).

Criterion	Value	Description
Info Template Name	wildcard (%)	Sets up a search by the name of the template.
Default Value	wildcard (%)	Sets up a search by the default value.

Add (or edit) an Info Template view

This view provides properties for adding a new or editing an existing person. The templates you create here appear at the end of the Person tab in the Add New (or edit) Person view.

The Info Template tab is the active tab, by default.

Figure 69 Add New Info Template view

Summary	Info Template	
Info Template Name Info Extra		fo Extra
Default Va	alue A	Value
Smart Ser	ti ti	ue 🔻
Multi Line	ti	ue 🔻

To create or edit a Person Info Template you click **Personnel→Additional Personnel Data**, and click the add button (^③).

To edit an existing Info Template you double-click a row in the table or click the hyperlink button ().

Properties

Property	Value	Description
Info Template Name	text	Provides a descriptive title for the property. This is the label that appears at the end of the Person tab in the Add New Person or edit person views.
Default Value	text	Sets a string value that appears by default when the property displays in the Add New Person or edit person views.
Smart Sense	true or false	When set to true, the system allows you to include a link (the >> icon) to the String Chooser window. The link appears next to the information value property in the Add New Person or edit person views.
Multi Line	true or false	When set to true, this option configures the value text box for more than a single line of text.

Chapter 4 Reports views

Topics covered in this chapter

- Advanced Time Range Options window
- Access History Report and Summary window
- ♦ Alarm History report
- ♦ Attendance History Report and Summary window
- Intrusion History report and Summary window
- Audit History Report and Summary window
- Log History Report and Summary window
- Hardware reports
- Consolidated Intrusion Displays report
- ◆ LDAP Audit History report
- ♦ Miscellaneous reports

The system provides three groups of pre-configured reports: history reports, hardware reports, and miscellaneous reports. In addition, you can save your own custom-filtered and configured reports.

5
Reports
Access History
\land Alarm History
Intrusion History
Attendance History
🛆 Audit History
🛆 Log History
Hardware Reports
Doors
Readers
Inputs
Outputs
Elevators
Remote Modules
Intrusion Displays
BACnet Points
LDAP Audit History
Miscellaneous Reports
Person Access Right Report
Person Reader Report
Access Right Reader Report
Personnel Changes

Figure 70 Reports menu

Table controls also apply to reports.

Types of reports

• History reports are logs that have similar display characteristics and are listed directly under the **Reports** menu item.

Reducing report size

There are two ways to reduce the size of a report:

- You may filter reports to include only the records you are interested in. If you do not filter report data, the system alerts you that only the top 5,000 lines are available. You can individually edit history report record capacities.
- For reports that query an SQL database (the Orion space), you may configure the Report Type

property, which is available when you click the Column Chooser or Table control button (^[III]) on the report. This property uses native SQL pagination and Sub-SQL join statements to combine information from the database.

NOTE: The data displayed on any report are based on the last filter settings. If, when you access a report, you do not see the information you expect, check the report filter (click the Filter button).

Advanced Time Range Options window

This window provides options to further filter report records based on time. The options you configure using this window restrict the data retrieved by the initial filter.

Figure 71 Advanced Time Range Options window

Advanced Time Range Options		
Start Time	12 V: 00 V AM V	
Days Of Week	II 2 ♥; 00 ♥ AM ♥; I Sun Ø Mon Ø Tue Ø Wed Ø Thu Ø Fri Ø Sat	
Schedule	Vone »	
Ok Cancel		

To access these options from any report, click the chevron to the right of the **Time** property. For example, when viewing alarm history, the time properties are **Alarm Time** and **Normal Time**.

NOTE: Make sure that the inquiry you configure using the filter window and these advanced time range options makes sense. For example, if you select a specific date using the filter window, and then exclude that specific day by de-selecting it using the Days of Week properties in this window, the system responds with a message, Advanced Filtering too Strict.

Properties

Property	Value	Description
Start Time	hour: minute	Defines a time of day to begin reporting alarms.
End Time	hour: minute	Defines the time of day to stop reporting alarms.
Days of Week	check boxes	Defines the days of the week for which to apply the start and end times.
Schedule	Ref Chooser	Instead of using start and end times during days of the week, defines the alarms to include based on an existing schedule.

Access History Report and Summary window

This report lists each person who accessed the building.

Figure 72	Access Histor	y report and S	Summary window
-----------	---------------	----------------	----------------

					Pai	
Timestamp 💙	Station Name	Granted	Reader	Badge	Owner	Activit
08-Sep-18 9:56:06 AM IST	entSecurity801	true	Door 2.Reader 2	000000000075582 [0] - 75582	HHH75582	Granted
08-Sep-18 9:56:06 AM IST	entSecurity801	true	Door 2.Reader 2	000000000075581 [0] - 75581	HHH75581	Granted
08-Sep-18 9:56:06 AM IST	entSecurity801	true	Door 2.Reader 2	000000000075580 [0] - 75580	HHH75580	Granted
08-Sep-18 9:56:06 AM IST	entSecurity801	Summary	Door 2.Reader 2	000000000075579 [0] - 75579	HHH75579	Granted
08-Sep-18 9:56:06 AM IST	entSecurity801		Door 2.Reader 2	000000000075578 [0] - 75578	HHH75578	Granted
08-Sep-18 9:56:06 AM IST	entSecurity801	Timestamp 08-Sep-18 9:56:06 AM IST	Door 2.Reader 2	000000000075577 [0] - 75577	HHH75577	Granted
08-Sep-18 9:55:56 AM IST	entSecurity801	Station Name entSecurity801	Door 2.Reader 2	000000000075576 [0] - 75576	HHH75576	Granted
08-Sep-18 9:55:56 AM IST	entSecurity801	History Name BadgeSwipeRecord	Door 2.Reader 2	000000000075575 [0] - 75575	HHH75575	Granted
08-Sep-18 9:55:56 AM IST	entSecurity801	Reader Door 2.Reader 2	Door 2.Reader 2	000000000075574 [0] - 75574	HHH75574	Granted
08-Sep-18 9:55:56 AM IST	entSecurity801	Badge 00000000075579 [0] - 75579	Door 2.Reader 2	000000000075573 [0] - 75573	HHH75573	Granted
		Owner HHH75579 Activity Granted Details Person & HHH75579 Ok	2 2 2 2 2			

You view this report by clicking **Reports** \rightarrow **Access History**. You access the Summary window by selecting a row in the table and clicking the Summary button (**B**).

Control buttons

In addition to the standard control buttons (Auto Refresh, Column Chooser, Filter, Refresh, Manage Reports and Export), this report includes these control buttons:

- Dummary opens the Summary window for the selected item, which shows how item properties are currently configured. Double-clicking on any row in a table opens the Summary tab, which contains the same information as the Summary window.
- Purge Config opens the **Purge Config** window for setting up when and how to remove history records from the database.

Columns

Column/Property	Description
Timestamp	Reports when the record was written to the database.
Granted	Reports if access was granted (true) or denied (false).
Reader	Identifies the reader used to grant access.
Badge	Identifies the badge number who accessed the building.
Owner	Identifies the person who accessed the building.
Activity	Reports what the person was doing: entering or exiting.
Details	Provides additional information.
Person Id	Identifies the Employee Id of the person who accessed the building.

 Table 20
 Access History report columns and Summary window properties

Purge Config window (simple)

This window provides properties for setting the maximum number and means for handling history records (capacity). You must be logged in as a user with the appropriate write permissions for the Purge Config but-

ton (🕗) to display in the toolbar.

NOTE: Once history records have been purged, they cannot be retrieved unless they were previously backed up.

Figure 73 Purge Config window in a remote controller station

Purge Config
Capacity 500 [1 - max] Full Policy Roll 🕑
Ok Cancel

This window opens in a remote controller station when you click **Reports**, click one of the history reports, and click the Purge Config button (2).

NOTE: The exact properties differ, depending on the type of history view associated with the **Purge Config** window.

Property	Value	Description
Capacity	number	Defines the maximum number of history records allowed in the associated history table. What happens when the record count reaches Capacity depends on the Full Policy setting.
Full Policy	drop-down list	Determines what happens when the history table reaches its maximum Capacity.Stop restricts the table to the Capacity. After reaching this number, the system ignores new records. Roll replaces the oldest records with newer records.

Purge Config window (expanded)

In a Supervisor station, for some history reports, an expanded Purge Config window displays with additional properties.

NOTE: Once history records have been purged, they cannot be retrieved unless they were previously backed up.

Figure 74 Purge Config window, Supervisor, History reports including Auto Purge

Purge Config					
Data Expiratio	Data Expiration 08760 h 00 .000 s [0ms - +inf]				
	💿 Daily	Time Of Day 02 : 00 AM EST Randomization + 000000 h 00 m 00 ,000 s Days Of Week Sun Mon Tue Wed Thu Fri Sat			
Auto Purge —	🔿 Interval	Interval + v 00000 h 01 m 00 .000 s Time Of Day Start Time 12 v: 00 v: 00 v AM v EST End Time Days Of Week Sun v Mon v Tue v Wed v Thu v Fri v S			
O Manual					
Last Trigger 22 🗸 Feb 🗸 2010 🗸 02 🗸 00 🗸 AM 🗸 EST					
Next Trigger	23 💟 - Feb 🚿	- 2010 🗸 02 🗸 00 🗸 AM 🗸 EST			
Ok Cancel Purge Now					

This window opens in a Supervisor station when you click **Reports**, click one of the history reports, and click the Purge Config button ().

This purge window presents in a Supervisor station for the following reports: Access History, Alarm History, Intrusion History, Audit History, and Log History.

Property	Value	Description
Data Expiration	date and time (de- fault: 1 year, that is: 08760 hours)	Specifies when data may be deleted from the database. This means that data that are older than 365 days are eligible for purging from the database using the Auto Purge or Manual purge settings.
Auto Purge	Additional options	Schedule record purge jobs according to a daily or interval schedule.
Manual	date and time	Provides an alternative to Auto Purge, that allows you to set a specific day and time to purge expired data.

Access History Filter window

This window defines the search criteria for limiting the records that appear in the Access History view.

Figure 75 Access History Filter window

Filter			
🗹 Timestamp	Today \checkmark »		
Granted	false \smallsetminus		
Reader	%	Must Include 🛛 🖂	✓ Case Sensitive
Badge	%	Must Include 🛛 🗸	✓ Case Sensitive
Owner	%	Must Include \sim	✓ Case Sensitive
Activity			
Details	%	Must Include 🛛 🖂	✓ Case Sensitive
	Ok Cance	1	

This window opens when you click **Reports→Access History**, followed by clicking the Filter button (♥).

Criterion	Value	Description
Timestamp	drop-down list	Selects a period of time for displaying access history. To fur- ther filter report records based on this timestamp, refer to a topic titled "Advanced Time Range Options window."
Granted	read-only	Selects for display only access records generated by granted requests (true) or rejected requests (false).
Reader	wild card (%)	Selects access records processed by a specific reader.
Badge	wild card (%)	Selects access records generated by a specific badge.
Owner	wild card (%)	Selects access records generated when a specific person entered.
Activity	Enum chooser	Selects access records generated by a specific event. The list of events is long, including activities, such as Invalid PIN, Occu- pancy Violation, Manual Override, etc.
Details	wild card (%)	Selects access records based on alarm details.

Manage Reports window

This window works with pre-configured reports and any custom reports that you may create. You can view, add, edit, delete and email reports.

Figure 76 Manage Reports window (custom reports)

Manage Reports
How would you like to Manage Reports?
💿 o្ View
O 存 Add
🔿 🚮 Edit
○ 🗙 Delete
◯ १० Schedule Emailed Report
Ok Cancel

This window opens when you click the Manage Reports button (^[20]) at the top of a view. This button appears as a standard button on may views where it provides options to view, add, edit, delete and email reports.

This window is context sensitive. It only provides options that apply to the type of data currently displaying. For example, if you are viewing the Audit History report, only Audit History records are available for viewing, adding, editing, or emailing.

The only options available for managing pre-configured reports are: Add (create a custom report) and Schedule Emailed Report (set up the pre-configured report to be emailed).

Selecting the View, Edit, and Delete options open a window that lists the custom reports. You choose the report to view, edit, or delete from this list.

NOTE: You cannot delete the pre-configured reports.

Add (or edit) Report window

This window sets up custom reports.

Figure 77 Add/Edit Report window

Add Report	
Name	
Navigation Path	None 🗸
Icon	
Index	0
	Ok Cancel

This window opens when you click the Manage Reports button (^[20]) followed by clicking the Add option.

Property	Value	Description
Name	text	Defines a unique name for the report.
Navigation Path	hierarchy (defaults to None)	Selects where in the station hierarchy to store the new report. The default allows access to the report from the Manage Re- ports window even though the report does not appear in the menu hierarchy.

Property	Value	Description
lcon	URL	Defines an icon to associate with the report.
Index	integer	Determines where the report appears (left to right) in the navigation path.

Schedule Emailed Report window

This window configures visual and email properties.



Schedule Emailed Report: LogHistory				
Title	logHistory			
File Type				
File Type	PDF •			
Include Headers	true 🔻			
Include BOM	true 🔻			
Use CRLF Line Endings	LF (\n)	•		
Delimiter	,			
Username	admin			
Export Schedule	None		»	
Email Account	None 🔻			
	From:			
	To:			
	Cc:			
	Bcc:			
Email	Subject:			-
	[Ok Cancel		

This window opens when you click the Manage Reports button () followed by clicking the Schedule Emailed Report option.

Property	Value	Description	
Title	text	Creates a title for the email.	
File Type	drop-down list (de- faults to PDF)	PDF creates a PDF file.CSV creates a comma delimited file.	
Include Headers	true (default) or false	Configures the inclusion of report headings.	
Include BOM	true (default) or false		
Use CRLF Line Endings	drop-down list	Configures how to terminate each line of the report: LF = line feed, CRLF = carriage return, line feed.	
Deliminiter	character (defaults to comma (,))	Defines the character used to separate individual fields of inforamtion.	
Username	read-only	Identifies the current user.	
Export Schedule	Ref Chooser	Opens a list of schedules from which to choose an email schedule.	

Property	Value	Description
Email Account	Additional properties	Defines the From, To, cc, Bcc and Subject for the email.
Email	text	Provides the body of the email. This might include instructions or other information.

Alarm History report

This report contains a table of time-stamped alarm records that include a listing of activities, such as alarm acknowledgments, alarm descriptions, as well as associated sources, credential numbers, and owner names.

Figure 79 Alarm History report

Alarm Time 💙	Normal Time	Source Name	Alarm Class	Source State	Ack State	Priority	Message
鼻 08-Sep-18 10:00 AM IST	08-Sep-18 10:01 AM IST	entSecurity801:JACE2_Alarm	Medium	Normal	Unacked	150	JACE2 Normal Text
鼻 08-Sep-18 9:59 AM IST	08-Sep-18 10:00 AM IST	entSecurity801:JACE2_Alarm	Medium	Normal	Unacked	150	JACE2 Normal Text
鼻 08-Sep-18 9:58 AM IST	08-Sep-18 9:59 AM IST	entSecurity801:JACE2_Alarm	Medium	Normal	Unacked	150	JACE2 Normal Text
鼻 08-Sep-18 9:57 AM IST	08-Sep-18 9:58 AM IST	entSecurity801:JACE2_Alarm	Medium	Normal	Unacked	150	JACE2 Normal Text
鼻 08-Sep-18 9:56 AM IST	08-Sep-18 9:57 AM IST	entSecurity801:JACE2_Alarm	Medium	Normal	Unacked	150	JACE2 Normal Text
鼻 08-Sep-18 9:55 AM IST	08-Sep-18 9:56 AM IST	entSecurity801:JACE2_Alarm	Medium	Normal	Unacked	150	JACE2 Normal Text
鼻 08-Sep-18 9:54 AM IST	08-Sep-18 9:55 AM IST	entSecurity801:JACE2_Alarm	Medium	Normal	Unacked	150	JACE2 Normal Text
鼻 08-Sep-18 9:53 AM IST	08-Sep-18 9:54 AM IST	entSecurity801:JACE2_Alarm	Medium	Normal	Unacked	150	JACE2 Normal Text
鼻 08-Sep-18 9:52 AM IST	08-Sep-18 9:53 AM IST	entSecurity801:JACE2_Alarm	Medium	Normal	Unacked	150	JACE2 Normal Text

This report opens when you click **Reports→Alarm History**.

Control buttons

In addition to the standard control buttons (Auto Refresh, Column Chooser, Filter, Manage Reports and Export), this report includes these control buttons:

• ESS Show Alarm Details opens the Alarm Details window, which provides additional information about the selected alarm.

This button is available on the Alarm History view.

- Purge Config opens the **Purge Config** window for setting up when and how to remove history records from the database.
- **B** Review Video plays back a video associated with an alarm. The alarm video icon (**b**) next to the alarm identifies alarms with associated videos.

Columns

Column	Description
Alarm Time	Reports when the alarm condition occurred.
Normal Time	Reports when the alarm condition returned to normal.
Source Name	Reports the location that caused the alarm.

Table 21Alarm History Report columns

Column	Description
Alarm Class	Reports the Alarm Class, which identifies alarm routing, for the alarm.
Source State	Reports the current condition of the alarm (in alarm, acknowledged, normal, in alert).
Ack State	Reports if the alarm is unacknowledged or acknowledged.
Priority	Reports the alarm's priority number. The lower the number, the higher the priority.
Message	Reports any message associated with the alarm.
Badge	If the alarm was triggered by an access control violation, identifies the responsible badge.
User	Identifies the user who was logged in when the system generated the alarm.

Alarm history Summary window

This window displays detailed information for a single alarm history row.

Figure 80 Alarm History Summary window

Alarm Details				
Timestamp	16-Aug-17 8-22	-58 AM EDT		
unid	10-Aug-17 0.22	10-Aug-17 0:22:30 Am EDT		
	11e/82/0-a360	-rzae-0000-0000000901a		
Source State	Alert			
Ack State	Unacked			
Ack Required	false			
Source	local: station: sl \$205/points/Do \$2d\$20South\$2 slot:/Drivers/Nia	lot:/Drivers/AccessNetwork/R2R820Module09\$20\$2d\$20Dr\$2e\$20\$234\$20526 or\$204\$20\$2d\$201CE\$20South\$20Shop\$20Entry\$20Door\$20Haulers/Reader4\$20 01CE\$20Shop\$20Entry\$20Haulers\$20PIN\$2fReader/grantedButNotUsedAlert; ugaraNetwork/WebsEntSec601/alarms		
Alarm Class	defaultAlarmCla	SS		
Priority	150			
Normal Time	null			
Ack Time	null			
User	Hiquet, Kent			
	TimeZone	America/Indianapolis (-5/-4)		
	badge	32156 [30] - 2017 ICE Keyfob		
	escalated			
Alarm Data	msgText	Granted But Not Used		
	person	💫 Hiquet, Kent		
	sourceName	WebsEntSec601:R2R Module09 - Dr. #4 & 5.Reader4 - South ICE Shop Entry Haulers PIN/Reader		
Alarm Transition	n Alert			
Last Update	16-Aug-17 8:22	AM EDT		
		Ok		

You access this window from the main menu by clicking **Reports→Alarm History**, followed by selecting an alarm history record and clicking the Summary button (
).

Property	Description
Timestamp	Reports when the transition from normal occurred, triggering the alarm.
Uuid	Reports the Universally Unique Identifier.
Source State	Reports the alarm's component state transition (normal to offnormal, fault or alert).
Ack State	Reports if the alarm has been acknowledged or is yet unacknowledged.
Ack Required	Indicates if an acknowledgment is required: true means it is required; false means an acknowledgment is not required.
Source	Reports the ORD that created the alarm.

 Table 22
 Alarm Details properties

Property	Description
Alarm Class	Reports the routing information for the alarm.
Priority	Reports alarm priority from 1 to 150, where 1 is the highest priority.
Normal Time	Indicates when the alarm condition returned to normal.
Ack Time	Reports when the alarm was acknowledged.
User	Reports several pieces of information about the system user who was logged in when the system gener- ated the alarm, including: name, timezone, badge number and if the alarm has been referred up the man- agement hierarchy (escalated).
Alarm Data	Reports additional information about the alarm, including any message text configured for the alarm, the user, and abbreviated information about the component that generated the alarm.
Alarm Transition	Repeats the source state.
Last Update	Reports the last time the system updated this alarm information.

Review Video view

This view plays back the video associated with an alarm.

This opens from the main menu when you click **Reports→Alarm History**, followed by selecting an alarm history record and clicking the Review Video button (^B)

Alarm history Filter window

This filter provides a variety of ways to limit the number of alarms shown in the alarm history view.

Figure 81 Alarm History Filter window



This window opens from the main menu when you click **Reports→Alarm History**, followed by selecting an alarm history record and clicking the Filter button (♥)

Criterion	Value	Description
Alarm Time	drop-down list	Selects the period of time to include in the report. To further filter report records based on alarm time, refer to a topic titled "Advanced Time Range Options window."
Normal Time	drop-down list and Ref Chooser	Selects a time range for reporting alarms that returned to nor- mal. To further filter report records based on normal time, re- fer to a topic titled "Advanced Time Range Options window."

Criterion	Value	Description
Source Name	wild card (%)	Selects alarms to include based on the component ORD.
Alarm Class	wild card (%)	Selects alarms based on alarm class. Alarm class defines alarm routing.
Source State	Enum chooser	Selects an alarm state: Normal, Offnormal, Fault and Alert.
Ack State	Enum chooser	Selects the state of the acknowledgment: Acked (acknowl- edged), Unacked (unacknowledged) and Act Pending (about to be acknowledged).
Priority	number	Selects alarms to display based their priority from 1 to 150, where 1 is the highest priority.
Message	wild card (%)	Selects alarms to display based on the message associated with the alarm.
Badge	wild card (%)	Selects alarms to display based on the badge number of a person.
User	wild card (%)	Selects alarms to display based on the user who was logged in when the system generated the alarm.

Attendance History Report and Summary window

This report lists badge transactions marked with the date and times that badge holders arrived and left. These data are used to calculate time worked.

Figure 82 Attendance History report and Summary window



You access this report by clicking **Reports→Attendance History**. You access the Summary window by se-

lecting an attendance history record and clicking the Summary button (

Control buttons

In addition to the standard control buttons (Auto Refresh, Column Chooser, Filter, Manage Reports and Export), this report includes these control buttons:

- O Manual Add opens the Manual Add window with which to create an attendance record. You would need to do this if the person failed to scan their badge in and out.
- Manual Hide opens the Manual Hide confirmation window for permanently hiding (not deleting) an attendance record. The Window warns that hiding the selected record is not reversible and only affects entries that have been created using the Manual Add window.

- Dummary opens the Summary window for the selected item, which shows how item properties are currently configured. Double-clicking on any row in a table opens the Summary tab, which contains the same information as the Summary window.
- Purge Config opens the **Purge Config** window for setting up when and how to remove history records from the database.

Columns and properties

Column/Property	Description
Activity Timestamp	Reports when the record was written to the database.
Activity	Reports the nature of the attendance event: None, Clock In or Clock Out.
Owner	Reports the person's name.
Manual Entry	Reports true if a manual entry was used to clock in or out, or false if the person clocked in and out with a badge.

Manual Add (attendance record) window

The Manual Entry function allows you to enter attendance data into the Attendance History report if, for example a badge was not used on entry. Clicking the **Insert** button opens the **Manual Add** window.

Figure 83 Manual Add window

Manual Add		
Activity Timestamp	18 V-Feb V-2009 V 05 V:13	M 💙 EST
Owner	Elock III V	» 🗎
	Ok Cancel	

To open this window click **Reports→Attendance History** followed by clicking the Add button (^(Q)).

Property	Value	Description
Activity Timestamp	date and time (de- faults to the cur- rent time)	Defines the time the person entered or left the building.
Activity	drop-down list	Clock In identifies an entry time. Clock Out identifies an exit time. None defines an activity other than clocking in or clock- ing out.
Owner	Ref Chooser	Identifies the person for whom you are adding the attendance record.

Manual Hide (confirmation) window

This window warns that hiding the selected record is not reversible and only affects records created using the Manual Add window.

Figure 84 Manual Hide confirmation window (opened using the right-click menu



Attendance History Filter window

This window defines search criteria for limiting the number of attendance history records that appear in the view.

Figure 85 Attendance History Filter window

Filter			
Activity Timestamp	Today 🗸 🔪		
Activity			
Owner	%	Must Include	✓ ✓ Case Sensitive
Manual Entry	false $ \smallsetminus $		
	Ok Cancel		

You access this window from the main menu by clicking **Reports→Attendance History**, followed by selecting an alarm history record and clicking the Filter button (♥)

Criterion	Value	Description
Activity Timestamp	drop-down list and Advanced Time Range Options window	Selects a time range for reporting an attendance event. To fur- ther filter report records based on this activity ytimestamp, re- fer to a topic titled "Advanced Time Range Options window."
Activity	Enum selector	Selects the nature of the event: None, Clock In, or Clock Out.
Owner	wild card (%)	Selects attendance history data for a specific person.
Manual Entry	true or false (default)	Selects attendance history data that was created by the sys- tem (false) or manually entered (true).

Intrusion History report and Summary window

This history report contains timestamped data specifically related to the arming and disarming of intrusion zones. Each time an intrusion zone is armed or disarmed, several properties are recorded, including time, authorization (PIN, Person), and changed status.

Figure 86 Intrusion History report and Summary window

ි Home රං Monitorin	ıg 🔒 Per	rsonnel Reports	🛱 Controller Setup	🛕 Threat L	evels	
🔺 Access History 🛛 🐴	Alarm Histo	ry 🛆 Intrusion Histor	🖌 🔺 Attendance Hist	ory 🔺 Aud	it History	🔺 Log Histor
Timestamp 💙	In	itrusion Zone	Authority	51	tatus	Locatio
09-Aug-17 7:05:37 AM EDT	Zone\$24242	Summary				
09-Aug-17 7:05:35 AM EDT	Zone\$24242]	
09-Aug-17 7:05:32 AM EDT	Zone\$242420	Timestamp 16-Au Station Name Webs	J-17 7:00:05 AM EDT			
09-Aug-17 7:00:05 AM EDT	Zone3_Dallar	History Name Intrus	onRecord		Arm-Disarm_ir	ntrusion
09-Aug-17 7:00:00 AM EDT	Zone3_Dallar	Intrusion Zone Zone3	_DallaraOffice		Arm-Disarm_ir	ntrusion
09-Aug-17 6:00:00 AM EDT	Zone4_Dallar	Status Disarn	ile: Dallara Office Arm-Disar ied	rm_intrusion	tion Arm_Disa	rm Intrusion
09-Aug-17 6:00:00 AM EDT	Zone5_Linos	Location			arm_intrusion	
09-Aug-17 6:00:00 AM EDT	Zone6_Dallar	Details			tion Arm_Disa	rm Intrusion
			Ok			

This report opens when you click **Reports** \rightarrow **Intrusion History**. The **Summary** window opens when you select a row in the table and click the Summary button (**D**).

Control buttons

In addition to the standard control buttons (Auto Refresh, Column Chooser, Filter, Manage Reports and Export), this report includes these control buttons:

- Discrete Summary opens the Summary window for the selected item, which shows how item properties are currently configured. Double-clicking on any row in a table opens the Summary tab, which contains the same information as the Summary window.
- Purge Config opens the **Purge Config** window for setting up when and how to remove history records from the database.

Columns

Column	Description
Timestamp	Reports when the record was written to the database.
Station Name	Reports the station monitoring the intrusion zone.
Intrusion Zone	Reports the name of the intrusion zone.
Authority	Reports which schedule is mapped to the intrusion zone.
Status	Reports the current condition of the entity as of the last refresh: {alarm}, {disabled}, {down}, {fault}, {ok}, {stale}, {unackedAlarm}
Location	Reports where the event occurred.
Details	Reports additional information.

Intrusion History Filter window

This window defines search criteria for limiting the number of records that appear in the history report.

Figure 87 Intrusion History Filter window

Filter			
✓ Timestamp	Today ~ >>		
Intrusion Zone	%	Must Include \sim	Case Sensitive
Authority	%	Must Include \sim	Case Sensitive
Status			
Location	%	Must Include \sim	Case Sensitive
Details	%	Must Include \sim	Case Sensitive
	Ok Cancel		

This window opens from the main menu when you click **Reports→Intrusion History**, followed by selecting an alarm history record and clicking the Filter button (♥)

Criterion	Value	Description
Timestamp	drop-down list	Selects a time range for reporting an intrusion event. To fur- ther filter report records based on this timestamp, refer to a topic titled "Advanced Time Range Options window."
Intrusion Zone	wild card (%)	Selects records based on the intrusion zone name.
Authority	wild card (%)	Reports which schedule is mapped to the intrusion zone.
Status	Enums chooser	Selects records based on the status of the zone:
	Enums Arming	Arming selects event records that occurred when the zone was in the process of arming.
	Armed Disarmed Alloving Time For Disarm Unable To Arm Ook Cancel	Armed selects event records that occurred when the zone was armed.
		Disarmed selects event records that occurred when the zone was not armed.
		Allowing Time For Disarm selects event records that oc- curred when the zone was waiting to receive the code to disarm.
		Unable to Arm selects event records that occurred when the door was open or some other condition was preventing the zone from arming.
Location	wild card (%)	Selects based on location.
Details	wild card (%)	Selects records based on an intrusion-related message.

Audit History Report and Summary window

This report contains a record for each operation that occurs in the system. Available on the Supervisor station, this report provides a log of all system operator actions.

Figure 88 Audit History report and Summary window

							Page 1 of t
Timestamp 💙	Station Name	Operation	Target		Slot Name	Old Value	Value
08-Sep-18 9:51:05 AM IST	entSecurity801	Invoked	/Services/Ala	rmService/Intrusion\$20Zone1	changeUuid		6682b1f1-9dfe-4be3-bed1-feb5beb3c901
08-Sep-18 9:50:31 AM IST	entSecurity801	Added	/Services/Ala	rmService	Intrusion\$20Zone1		Intrusion Zone1
08-Sep-18 9:49:30 AM IST	entSecurity801	Added	/Drivers/Sma	rtKey\$20Network	SmartKey\$20Device		SmartKey Device
08-Sep-18 9:48:08 AM IST	entSecurity	Logout (Timeout)	/Services/We	bService	172.21.139.79		
08-Sep-18 9:47:31 AM IST	entSecurity801	Changed	/Drivers/Sma	rtKey\$20Network/communicato	n portName	COM3	COM1
08-Sep-18 9:46:19 AM IST	entSecurity801	Added	/Drivers		SmartKey\$20Network		SmartKey Network
08-Sep-18 9:43:20 AM IST	entSecurity801	Changed	/Drivers/Acce	Summary			
08-Sep-18 9:43:20 AM IST	entSecurity801	Changed	/Drivers/Acce				
08-Sep-18 9:43:10 AM IST	entSecurity801	Changed	/Drivers/Acce	Timestamp 08-Sep-	18 9:43:20 AM IST		
08-Sep-18 9:43:10 AM IST	entSecurity801	Changed	/Drivers/Acce	Station Name entSecu	nty801		
08-Sep-18 9:42:47 AM IST	entSecurity801	Changed	/Drivers/Acce	Operation Changed	l		
				Target /Drivers, Slot Name enableLo Old Value true Value false	/AccessNetwork/Remote\$20Reade ogging	r\$20Module2/points/Door\$20	02/Reader\$202/grantedButNotUsedAlert
				User Name admin			1
						Ok	1

This report opens when you click **Reports→Audit History**. You access the Summary window by selecting an audit history record and clicking the Summary button (
)

Buttons

In addition to the standard control buttons (Auto Refresh, Column Chooser, Filter, Manage Reports and Export), this report includes these control buttons:

- Discrete Summary opens the Summary window for the selected item, which shows how item properties are currently configured. Double-clicking on any row in a table opens the Summary tab, which contains the same information as the Summary window.
- Purge Config opens the **Purge Config** window for setting up when and how to remove history records from the database.

Columns

Table 25	Audit History r	eport columns and	Summary windo	w properties
----------	-----------------	-------------------	---------------	--------------

Column/Property	Description
Timestamp	Reports when the record was written to the database.
Station Name	Reports the name of the station that recorded the event.
Operation	Reports a single word to explain the activity: Changed, Invoked, Login, Logout, Removed.
Target	Reports the service to which the history belongs.
Slot Name	Reports the slot path of the component in the station.
Old Value	Reports the previous configuration before this history record was created.
Value	Reports the current configuration value of the component.
User Name	Reports the user name of the logged-in user.

Log History Report and Summary window

This report maintains a buffered history (LogHistory) of some of the messages that are generated by the system's standard output. These messages can be very helpful for troubleshooting problems at the system level. You can select the Log History report to check the log history for recent messages.

NOTE: The Log History report you view from a Supervisor station are local to the Supervisor. The Log History report does not show the records of the subordinate stations. You have to go to each individual subordinate station to view its log records.

Figure 89 Log History report and Summary window

Timestamp 💙	Log Name	Severity	Message		
08-Sep-18 10:05 AM IST	NAxisVideo	1000	java.net.ConnectException: Connectio	n timed out: connect	
08-Sep-18 10:05 AM IST	crypto	1000	Could not create socket. Cause is: Cor	nnection timed out: connect	
08-Sep-18 10:05 AM IST	crypto	800	TLS handshake failed. Cause is: Conn	ection has been shutdown: javax.net.ssl.SSLHandshakeExceptio	
08-Sep-18 10:00 AM IST	NAxisVideo	1000	java.net.ConnectException: Connectio	n timed out: connect	
08-Sep-18 10:00 AM IST	crypto	1000	Could not create socket. Cause is: Cor	nnection timed out: connect	
08-Sep-18 9:59 AM IST	crypto	800	TLS handshake failed. Cause is: Conn	ection has been shutdown: javax.net.ssl.SSLHandshakeExceptio	
08-Sep-18 9:55 AM IST	orionTools.replicate	800	End replicating all stations [3secs]	Summary	
08-Sep-18 9:55 AM IST	orionTools.replicate	800	Clean BDeletion records upto: 1536		
08-Sep-18 9:55 AM IST	orionTools.replicate	800	End replicating station entSecurity8	Timestamp 08-Sep-18 9:55:35 AM IST	
08-Sep-18 9:55 AM IST	orionTools.replicate	800	Begin replicating station entSecurity	Log Name orionTools.replicate	
08-Sep-18 9:55 AM IST	orionTools.replicate	800	Num of Replication Executors5	Message End replicating all stations [3secs]	
				Exception	
				-	
				Ok	

This view opens when you click **Reports→Log History**. You access this window from the main menu by clicking **Reports→Log History**, followed by selecting an alarm history record and clicking the Summary button (

Buttons

In addition to the standard control buttons (Auto Refresh, Column Chooser, Filter, Manage Reports and Export), this report includes these control buttons:

- Dummary opens the Summary window for the selected item, which shows how item properties are currently configured. Double-clicking on any row in a table opens the Summary tab, which contains the same information as the Summary window.
- Purge Config opens the **Purge Config** window for setting up when and how to remove history records from the database.

Columns

Column/Property	Description
Timestamp	Reports when the record was written to the database.
Log Name	Name of the log file.
Severity	Reports the significance of the event. A value of 1000 is severe. A value of 800 is a warning. A value of 600 provides information.
Message	Reports any descriptive message associated with the event.
Exception	Reports the exception stack trace if Severity equals 1000.

Table 26 Log History columns and Summary window properties

Log history Filter window

This window specifies search criteria for limiting the number of records that display in the table.





This window opens from the main menu when you click **Reports** \rightarrow **Log History**, followed by selecting an alarm history record and clicking the Filter button ($\overline{\mathbb{Y}}$).

Criterion	Value	Description		
Timestamp	Drop-down list and Advanced Time Range Options window	Selects a time range for reporting a log event. To further filter report records based on this timestamp, refer to a topic titled "Advanced Time Range Options window."		
Log Name	wild card (%)	Selects the log name that contains the records to display.		
Severity	min and max numbers	Reports the significance of the event. A value of 1000 is severe. A value of 800 is a warning. A value of 600 provides information.		
Message	wild card (%)	Selects records to display based on an associated message.		
Exception	wild card (%)	Selects based on the exception stack trace, which is available if Severity equals 1000.		

Hardware reports

Hardware reports provide information about devices, such as modules, doors, readers, and elevators. They also may also include input and output points on system modules and building automation system points (BACnet points). Each hardware report contains a list of these types of items.

Each hardware report provides the same set of control buttons. In addition to the standard control buttons (Auto Refresh, Column Chooser, Manage Reports and Export), these control buttons provide varying results:

• Image: Hyperlink links to the edit view or window for the selected item. It is the same as double-clicking the table row. This button is available when a single record is selected.

These views are documented in the chapter titled "Controller Setup - Remote Devices."

• Filter buttons open the Filters window, which defines a query action for limiting the output visible in tables and reports. The gray version indicates unfiltered data. The red version indicates filtered data.

Doors Report and Filter window

This report lists the doors in the system, provides information about them, and reports their status.



Station Name ∧	Description	Module	Door Status			
entSecurity801	Door 1	Remote Reader Module	{fault,alarm,unackedAlarm} Locked Closed			
entSecurity801	Door 2	Remote Reader Module	{fault,alarm,unackedAlarm} Locked Closed			
entSecurity801	Door 1	Filter				
entSecurity801	Door 2					
entSecurity801	Door 1	Station Name %	Must Include V Case Sensitive			
entSecurity801	Door 2	Description %	Must Include V Case Sensitive			
		Module %	Must Include V Case Sensitive			
		Door Status %	Must Include V Case Sensitive			
		Ok	ncel			

This report opens when you click **Reports** \rightarrow **Hardware** \rightarrow **Doors**. The **Filter** window opens when you click the Filter button ().

 Table 27
 Doors report columns and search criteria

Column/criterion	Description
Station Name	Displays data, and selects data to view based on the name of the managing station.
Description	Displays data, and selects data to view based on any description associated with the door.
Module	Displays data, and selects data to view based on the controller module that controls the door.
Door Status	Displays data, and selects data to view based on door status: Locked Closed, Unlocked Closed, etc.

Readers Report and Filter window

This report lists the readers in the system, provides information about them, and reports their status.

Figure 92 Readers report and Filter window

	7 B 🕼 🕞		
Station Name ∧	Description	Assignment	Module
entSecurity801	Reader 1	Door 1	Remote Reader Module
entSecurity801	Reader 2	Door 2	Remote Reader Module
entSecurity801	Reader 1	Door 1	Remote Reader Module1
entSecurity801	Filter		Remote Reader Module1
entSecurity801			Remote Reader Module2
entSecurity801	Station Name %	Must Include V Case Sensitive	Remote Reader Module2
	Description %	Must Include V Case Sensitive	
	Assignment %	Must Include V Case Sensitive	
	Module %	Must Include V Case Sensitive	
	Function		
	0	Vk Cancel	

This report opens when you click **Reports** \rightarrow **Hardware** \rightarrow **Readers**. The **Filter** window opens when you click the Filter button ($\overline{\heartsuit}$).

Table 28 Readers report columns and search criteria

Column/criterion	Description
Station Name	Displays data, and selects data to view based on the name of the managing station.
Description	Displays data, and selects data to view based on any description associated with the reader.

Column/criterion	Description
Assignment	Displays data, and selects data to view based on the door to which the reader is assigned.
Module	Displays data, and selects data to view based on the controller module associated with the reader.
Function	Displays data, and selects data to view based on the job that this reader performs. The filter, opens an Enum chooser with these self-explanatory functions:
	Reader Only
	Reader Plus Keypad
	Reader Or Keypad
	Reader Or Intrusion Keypad
	Intrusion Keypad

Inputs Report and Filter window

This report lists the inputs identified when the system discovers each parent device or module and adds it to the network. Inputs include door sensors, exit requests, ADA control, glass break sensors, and motion sensors.

Figure 93 Inputs report and Filter window

Station Name ∧	Description	Terminat	lion	Module		Status	
entSecurity801	Di1	1		Remote Reader Module		inactive {ok}	
entSecurity801	Di2	2		Remote Reader Module		inactive {ok}	
entSecurity801	Exit Request	2		Remote Reader Module		Inactive {fault,alarm,	unackedAlarm} CUT
entSecurity801	Sensor	1		Remote Reader Module		Closed {fault,alarm,u	nackedAlarm} CUT
entSecurity801	Exit Request	4		Remote Reader Module		Inactive {fault,alarm,	unackedAlarm} CUT
entSecurity801	Sensor	3	Filter				nackedAlarm} CUT
entSecurity801	Di1	1	Chatien Name	9/	Much To chudo	Casa Canaitina	
entSecurity801	Di2	2		70	Must Include V		
entSecurity801	Exit Request	2	Description	% 	Must Include V	Case Sensitive	unackedAlarm} CUT
entSecurity801	Sensor	1			Must Taskala and	Cons Constitue	nackedAlarm} CUT
			Module	%	Must Include	Case Sensitive	
			Status	%	Must Include V	Case Sensitive	
			Proxy Ext	%	Must Include V	🗹 Case Sensitive	
			□ Facets	No facets			
				Ok Cancel			

This report opens when you click **Reports** \rightarrow **Hardware** \rightarrow **Inputs**. The **Filter** window opens when you click the Filter button ().

Column/criterion	Description
Station Name	Displays data, and selects data to view based on the name of the managing station.
Description	Displays data, and selects data to view based on any description associated with the input.
Termination	Displays data and selects data to view based on the numbered terminal point that the input is assigned to. This may be especially helpful when the display name (shown in the Description column) is renamed.
Module	Displays data, and selects data to view based on the controller module associated with the input.
Status	Displays data and selects data to view based on the input status: inactive/Inactive, Closed, Opened, Locked, Off, etc.

Table 29 Inputs report columns and search criteria

Outputs report and Filter window

This report lists the outputs identified when the system discovers each parent device or module and adds it to the system network. Outputs include strikes, relays, alarms, lights on/off, heater on/off, and air conditioner on/off.



Station Name 🅢	Description	Termination	Module
entSecurity801	Strike	1	Remote Reader Module
entSecurity801	Strike	2	Remote Reader Module
entSecurit Filter			
entSecurit entSecurit	Station Name %		Must Include ✓ ✓ Case Sensitive Must Include ✓ ✓ Case Sensitive
entSecurit	Termination 🗌 m	in 0 n	nax 0
	Module %		Must Include V Case Sensitive
	Status %		Must Include 🗸 🖌 Case Sensitive
		Ok	Tancel

This report opens when you click **Reports→Hardware→Outputs**.

Table 30Outputs report columns

Column/criterion	Description
Station Name	Displays data, and selects data to view based on the name of the managing station.
Description	Displays data, and selects data to view based on any description associated with the output.
Termination	Displays data and selects data to view based on the numbered terminal point that the output is assigned to. This may be especially helpful when the display name (shown in the Description column) is renamed.
Module	Displays data, and selects data to view based on the controller module associated with the output.
Status	Displays data and selects data to view based on output status: : inactive/Inactive, Closed, Opened, Locked, Off, etc.

Elevators Report and Filter window

Elevators are devices that are assigned to modules. The Elevator report lists all elevators that are assigned under a station.



Station Name ∧	Description			Module		
Filter						
Station Name	%	Must Include	V 🗹 Case S	ensitive		
Description	%	Must Include	∨ ✓ Case S	ensitive		
Module	%	Must Include	✓ ✓ Case S	ensitive		
Elevator Status	%	Must Include	∨ ✓ Case S	ensitive		
	Ok Cancel					

This report opens when you click **Reports** \rightarrow **Hardware** \rightarrow **Elevators**. The **Filter** window opens when you click the Filter button (\bigtriangledown).

Column/criterion	Description
Station Name	Displays data, and selects data to view based on the name of the managing station.
Description	Displays data, and selects data to view based on any description associated with the elevator.
Module	Displays data, and selects data to view based on the controller module associated with the elevator.
Elevator Status	Displays data, and selects data to view based on the elevator status.

Table 31 Elevators report columns and search criteria

Remote Modules Report and Filter window

Modules are the core hardware components that attach to the controller unit. The Modules report lists all modules that are in a station Access Device Manager Database.

NOTE:

A Modules report from a Supervisor station shows the modules that are under all subordinate stations.

Figure 96 Modules report and Filter window

	7 B B D			
Station Name ∧	Description	Address		Device Type
entSecurity801	Remote Reader Module	2		Remote Reader
entSecurity801	Remote Reader Module1	1 3		Remote Reader
entSecurity801	Filter			
	Station Name	%	Must Include	✓ ✓ Case Sensitive
	Description	%	Must Include	✓ ✓ Case Sensitive
	Address	min 0 max 0		
	Device Type			
	Status	%	Must Include	✓ ✓ Case Sensitive
		Ok Cancel		

This report opens when you click **Reports** \rightarrow **Hardware** \rightarrow **Remote Modules**. The **Filter** window opens when you click the Filter button ($\overline{\mathbb{S}}$).

Column/criterion	Description
Station Name	Displays data, and selects data to view based on the name of the managing station.
Description	Displays data, and selects data to view based on any description associated with the module.
Address	Displays data, and selects data to view based on the random integer value assigned to the reader. Each reader has a different integer, which may start from one (1).

 Table 32
 Remote Modules report columns and search criteria
Column/criterion	Description
Device Type	Displays data, and selects data to view based on the type of module. The Filter window opens an Enum chooser with these self-explanatory device types:
	None
	Base Board Reader
	Remote Reader
	Remote Input Output
	lo16
	lo16V1
	lo34
	lo34sec
Status	Displays data, and selects data to view based on the condition of the remote module: {ok}, {unackedAlarm}, {fault}, etc.

BACnet Points and Filter window

This report lists all BACnet points in the system database.

Figure 97	BACnet Points report and Filter window
-----------	--

		Page 1 of	4 Page Size 20
Station Name 🙏	Description	BACnet Object Id	Status
entSecurity801	Remote Reader Module.Di1	binaryValue:0	{ok}
entSecurity801	Remote Reader Module.Di2	binaryValue:1	{ok}
entSecurity801	Remote Reader Module.Sdi1	binaryValue:2	{ok}
entSecurity801	Remote Reader Module.Sdi2	binaryValue:3	{ok}
entSecurity801	Remote Reader Module.Sdi3 binaryValue:4		{ok}
entSecurity801	Densets Denders Medicile Odia kiere Archive D		7.15.
entSecurity801	Filter		
entSecurity801	Station Name	% Must	Include 🗸 🖌 Case Sensitive
entSecurity801	Description	% Must	Include 🗸 🗹 Case Sensitive
entSecurity801	BACnet Object Id	% Must	Include 🗸 🖌 Case Sensitive
entSecurity801	Status	% Must	Include 🗸 🗸 Case Sensitive
		Ok Cancel	

This report opens when you click **Reports** \rightarrow **Hardware** \rightarrow **BACnet Points**. The **Filter** window opens when you click the Filter button (\bigcirc).

In addition to the common report columns controls, the Bacnet Points report includes a BACnet Object Id column and a Value column that identify the Bacnet point type (analog, binary, or other) and value, respectively.

Tabl	e 33	BACnet P	oints report	columns and	l search cri [.]	teria
------	------	----------	--------------	-------------	---------------------------	-------

Column/criterion	Description
Station Name	Displays data, and selects data to view based on the name of the managing station.
Description	Displays data, and selects data to view based on any description associated with the BACnet points.
BACnet Object Id	Displays data, and selects data to view based on the type of BACnet point: analog, binary, or other.
Value	Displays data, and selects data to view based on the current value of the point.
Status	Displays data, and selects data to view based on the condition of the point: {ok}, etc.

Intrusion Displays Report and Filter

This report lists the intrusion displays in the database.

Intrusion displays present information about the status of an intrusion zone and let users interact with the zone using a keypad, touchpad, or other means of data input. The Intrusion Displays report lists the intrusion displays in a station. This may include intrusion displays from multiple intrusions zones.

Double-click on the intrusion display entry or click the **Intrusion Displays** menu item under the **Intrusion Setup** menu to view and edit details about a particular display.

Figure 98 Intrusion Displays report and Filter window

Home 60	Monitoring APersonne Access History 🔺 Ala	Reports (🗊 System Setup sion History 🔺 At	Threat Levels
Station Name ∧				Status Intrusio
	Filter			
	Station Name	%	Must Match	▼ ✓ Case Sensitive

Filter		
Station Name	%	Must Match 🔻 🗹 Case Sensitive
Description	%	Must Match 🔻 🗹 Case Sensitive
Smart Key Device	%	Must Match 🔻 🗹 Case Sensitive
Address	%	Must Match 🔻 🗹 Case Sensitive
Status	%	Must Match 🔻 🗹 Case Sensitive
Intrusion Zones	%	Must Match 🔻 🗹 Case Sensitive
	Ok Cancel	

This report opens when you click **Reports** \rightarrow **Hardware** \rightarrow **Intrusion Displays**. The **Filter** window opens when you click the Filter button ($\overline{\heartsuit}$).

The Intrusion Displays report includes default columns that show what intrusion zone the display is assigned to, the name and address of any SmartKey device assigned to the intrusion display, the display status, and the stations name. Other columns may be added.

Table 34	Intrusion Displays	report columns and	d search criteria
----------	--------------------	--------------------	-------------------

Column/criterion	Description
Station Name	Displays data, and selects data to view based on the name of the managing station.
Description	Displays data, and selects data to view based on any description associated with the intrusion display.
Smart Key Device	Displays data, and selects data to view based on the name and address of any SmartKey device assigned to the intrusion displa
Address	Displays data, and selects data to display based on the integer value assigned to the intrusion SmartKey device.
Status	Displays data, and selects data to display based on the last recorded condition of the display device.
Intrusion Zones	Displays data, and selects data to display based on the associated intrusion zone the display is assigned to.

Consolidated Intrusion Displays report

This report appears only in a Supervisor station. It lists all intrusion displays throughout the system.

Figure 99 Consolidated Intrusion Displays report

🚰 Home	óo' Monitoring	a Personnel	Reports 💣 Syst	em Setup 🖸 P	hoto ID 🔒 Th	reat Levels	Gala framework'
🖬 access	🔺 Access Hist	ory 🔺 Alarm Hist	ory 🔺 Intrusion His	tory 🔺 Attend	ance History 🔺	Audit History 🔺 Lo	g History
Station Nam	ie 📐	Description	Smart Key Device	Addres	s Status	Intrusion Zone	s
<							>

The Consolidated Intrusion Displays report view is available on a Supervisor when you click the Intrusion Displays menu item under the Intrusion Setup menu or when you select Reports→Hardware Reports→Intrusion Displays.

Report columns are the same as those displayed on an Intrusion Displays report created for a single, local station.

LDAP Audit History report

This report summarizes the activity recorded with the LDAP server.

Figure 100 LDAP Audit History report and Filter window

🚰 Home 🏾 ốơ Monito	ring 🔒 Personnel 📄 Reports	💣 System Setup 🛛	🚹 Threat Levels					nagara
🖬 access 🔺 Acce	ss History 🔺 Alarm History 🔺 Intro	usion History 🔺 Atte	endance History	🔺 Audit History 🛛 🔺	Log History	🖑 Hardwar	e Reports	LDAP Audit History
Timestamp 💙	Ldap Server Ord	Activity	Owner	Activity 3	Id Status	Details		
24-Jul-18 5:54 AM EDT	slot:/Drivers/Ldap\$20Network/Ldap\$20Server	Import Personnel	Periodc Import	0	ERROR	Error during	import process	
24-Jul-18 5:54 AM EDT	slot:/Drivers/Ldap\$20Network/Ldap\$20Server	Filter				ng	g details availabl	e.Import cannot proceed
24-Jul-18 5:21 AM EDT	slot:/Drivers/Ldap\$20Network/Ldap\$20Server	Timostama	Today	、		pt	deleted by clear	up process.
		 Innestantp Ldap Server Ord Activity 	1 %	Must Inclu	ide 🗸 🗹 Cas	se Sensitive		
		Owner	%	Must Inclu	ide 🗸 🖌 Cas	se Sensitive		
		Activity Id Status	min 0	max 0 Must Inclu	ide 🗸 🗸 Cas	se Sensitive		
		Details	%	Must Inclu	ide 🗸 🗹 Cas	se Sensitive		
			Ok	Cancel				

This report opens when you click **Reports→LDAP Audit History**. The **Filter** window opens when you click the Filter button (♥).

This report provides these columns of information and filter options.

Table 35 LDAP Audit History columns and search criteria

Column/criterion	Description
Timestamp	Reports when the record was written to the database.
Ldap Server Ord	Reports the address of the LDAP server.
Activity	Identifies the type of LDAP request.
Owner	Reports the LDAP Display Name.
Activity ID	Reports the type of activity.

Column/criterion	Description
Status	Indicates server status when the audit record was created.
Details	Provides additional information.

Miscellaneous reports

Miscellaneous reports include: Person Access Right Report, Person Reader Report, Access Right Reader Report, and Personnel Changes report.

The miscellaneous reports include:

- Person Access Right Report
- Person Reader Report
- Access Right Reader Report
- Personnel Changes

Person Access Right Report

For a given person, this report identifies information related to access rights.

Figure 101 Person Access Right Report and Filter

					e	age1 of Many
Person ∧	Access Right	Name Start Da	ate	End Date		Tenant
HHH75118	honeywell	null		null		
HHH75160	honeywell	null		null		
HHH75633	honeywell	null		null		
HHH75651	honeywell	null		null		
HHH75716	honeywell	null		null		
HHH75746	honeywell	Filter				
HHH75994	honeywell		-			
HHH76070	honeywell	Person	l None		_	
HHH76191	honeywell	Access Right Na	ame %	Mus	st Include	✓ ✓ Case Sensitive
HHH76293	honeywell	Start Date	Time Range 🗸	»		
		End Date	Time Range V	»	_	
		Tenant	🐤 None			
			Ok	Cancel		

To access this report, expand **Personnel** select a person and click the Show Expirations button (¹) or by clicking **Reports Miscellaneous Person Access Right Reader Report**.

Control buttons

In addition to the standard control buttons (Filter, Column Chooser, Refresh, manage Reports, and Export), these control buttons apply to the Person Access Right Report.

- Hyperlink to Person opens the Edit Person view for the person associated with the selected record.
- B Hyperlink to Access Right opens the Edit Access Right view for the access right associated with the selected record.

Column	Description
Person	Reports the name of the employee.
Access Right Name	Reports the access right associated with the person.
Start Date	Reports when the access right first took effect.
End Date	Reports when this access right will no longer apply to the person.
Tenant	Reports the name of the associated tenant.

Table 36	Person Access Right Report columns
10010-00	r erson / leeess kight kepont eolumns

Person Reader Report

This report shows the reader(s) associated with one or more specific people.

Figure 102 Person Reader Report and Filter

		Page	1 of Many Page Size 20
Person 🔥	Access Right I	lame Reader	Tenant
HHH75091	honeywell	entSecurity801:Door 1.Reade	er 1
HHH75091	honeywell	entSecurity801:Door 2.Reade	er 2
HHH75582	honeywell	entSecurity801:Door 1.Reade	er 1
HHH75582	honeywell	entSecurity801:Door 2.Reade	er 2
HHH75650	honeywell	entSecurity801:Door 2.Reade	er 2
HHH75650	honeywell	-ilter	
HHH75795	honeywell	Person 🔒 None	
HHH75795	honeywell	Access Right Name %	Must Include V Case Sensitive
HHH75901	honeywell	Reader None	
HHH75901	honeywell	Tenant	
		Ok	Cancel

To access this report, expand **Personnel** select one or more people and click the Show Readers button (¹) or by clicking **Reports** • **Miscellaneous** • **Person Reader Report**.

Control buttons

In addition to the standard control buttons (Filter, Column chooser, Refresh, Manage Reports, and Export) this report provides these control buttons:

- Hyperlink to Person opens the Edit Person view for the person associated with the selected record.
- Hyperlink to Access Right opens the Edit Access Right view for the access right associated with the selected record.
- U Hyperlink to Reader opens the reader view, which is documented in the remote devices chapter of the *Niagara Enterprise Security Reference*.

Table 37Person Reader Report columns

Column	Description
Person	Reports the name of the employee.
Access Right Name	Identifies the title of the access right associated with the entity.
Reader	Reports the name of the reader associated with the access right.
Tenant	Reports the name of the associated tenant.

Access Right Reader Report and Filter window

This report lists access rights with their assigned reader so that you can easily see where readers are assigned.



Access Right	Name ∧	Reader Tenant
honeywell		entSecurity801:Door 2.Reader 2
honeywell		entSecurity801:Door 2.Reader 2
honeywell		entSecurity801:Door 1.Reader 1
honeywell		entSecurity801:Door 1.Reader 1
honeywell	Filter	
honeywell	Access Right Name % Reader None Tenant None	Must Include V Case Sensitive

You may access this report by clicking **Personnel** \rightarrow **Access Rights** followed by selecting an access right and clicking the Show Readers button (b) or by clicking **Reports** \rightarrow **Miscellaneous** \rightarrow **Access Right Reader Report**.

Control buttons

In addition to the standard control buttons (Filter, Column Chooser, Refresh, Manage Reports, and Export), these control buttons apply to access rights and readers:

- B Hyperlink to Access Right opens the Edit Access Right view for the access right associated with the selected record.
- D Hyperlink to Reader opens the reader view, which is documented in the remote devices chapter of the *Niagara Enterprise Security Reference*.

Column	Description
Access Right Name	Identifies the title of the access right associated with the entity.
Reader	Reports the name of the reader associated with the access right.
Tenant	Reports the name of the associated tenant.

Table 38	Access Right Reader Report columns
----------	------------------------------------

Personnel Changes report and Summary window

This report lists audit records of person-related changes. These changes include when, where, and what actions were taken. The **Summary** window shows the same information for a specific change row.

Figure 104	Personnel Changes	report and Filter

	2		Page	1 of Many Page Size 20
Timestamp 💙	Station Name	Operation	Target Slot Name Old Value	Value User Name
08-Sep-18 7:37:12 AM IST	entSecurity	Added	Orion Person, HHH77000	admin
08-Sep-18 7:37:11 AM IST	entSecurity	Added	Orion Person, HHH76999	admin
08-Sep-18 7:37:10 AM IST	entSecurity	Added	Orion Person, HHH76998	admin
08-Sep-18 7:37:09 AM IST	entSecurity	Added	Orion Person, HHH76997	admin
08-Sep-18 7:37:09 AM IST	entSecurity	Added	Summary	admin
08-Sep-18 7:37:08 AM IST	entSecurity	Added	Timostomp 08 Cop 19 7/27/10 AM ICT	admin
08-Sep-18 7:37:07 AM IST	entSecurity	Added	Station Name entSecurity	admin
08-Sep-18 7:37:06 AM IST	entSecurity	Added	History Name AuditHistory	admin
08-Sep-18 7:37:06 AM IST	entSecurity	Added	Operation Added	admin
08-Sep-18 7:37:05 AM IST	entSecurity	Added	Target Orion Person, HHH76998	admin
08-Sep-18 7:37:04 AM IST	entSecurity	Added	Slot Name	admin
08-Sep-18 7:37:03 AM IST	entSecurity	Added	Old Value	admin
			Value	
			Ok	

You access this report by clicking **Reports**→**Miscellaneous**→**Personnel Changes**. You access the Summary window from the **Personnel Changes** view by clicking the Summary button (¹).

Control buttons

In addition to the standard control buttons (Auto Refresh, Column Chooser, Filter, Manage Reports and Export), this report includes a Summary button (B). Selecting a row and clicking this button opens a summary of the information contained in the row.

Columns

 Table 39
 Personnel Changes columns and Summary window properties

Column/Property	Description
Timestamp	Reports when the record was written to the database.
Operation	Indicates what happened to the record: Added, Changed or Removed.
Target	Identifies the database and person's name.
Slot Name	Identifies what changed.

Column/Property	Description
Old Value	Reports the property value before the change occurred.
Value	Reports the current property value.
User Name	Reports the name of the user associated with this person.

Personnel Changes Filter window

This window defines search criteria for limiting the number of records in the **Personnel Changes** view.



Filter	
🗹 Timestamp Today 🗸 🗸 🗙	
Operation	
Target Person V %	🖂 filter.include 🗌 filter.exact 🗹 Case Sensitive
Slot Name %	Must Include V Case Sensitive
Old Value %	Must Include V Case Sensitive
Value %	Must Include V Case Sensitive
User Name %	Must Include V Case Sensitive
	Ok Cancel

This window opens from the Personnel Changes view when you click the Filter button ($\overline{\bigcirc}$).

Criterion	Value	Description
Timestamp	drop-down list	Selects a period of time for displaying personnel change history.
Operation	Enums chooser	Selects the what happened to the record: Added, Changed, Removed.
Target (required drop-down list and		Defines the records to view:
criterion)	wild card (%)	Person selects changes made to specific people.
		Badge selects changes made to selected badges.
		Access Right selects changes made to specific access rights.
		Tenant selects changes made to tenant records.
		Person Acc Join selects changes made to a person's access right. The access right is associated with a person or badge.
Slot Name	wild card (%)	Defines what changed.
Old Value	wild card (%)	Defines the value before the change.
Value	wild card (%)	Defines the value after the change.
User Name	wild card (%)	Defines the type of user, such as admin, operator etc.

Chapter 5 Controller (System) Setup– Schedules

Topics covered in this chapter

- Schedules view
- Add New (edit or duplicate) Schedule view
- Calendar Schedules view
- ♦ Add New (or edit) Calendar Schedule view

These views and windows add schedules and special events, which the system uses to manage automatic processes and trigger events.

Figure 106 Schedules menu

Calendar Schedules

Schedules view

This view manages weekly schedules. These manage normal daily events.

Figure 107 Schedules view

Boolean Schedule	Access Right		Pin Ent Sec
Schedule Name 🙏	Usage	Access Right Name	Intrusion Pin Name

To open this view from the home page, expand **Controller Setup**→**Schedules**, and click **Schedules**.

In addition to the standard control buttons (Filter, Column Chooser, Refresh, Manage Reports and Export), the following relate specifically to schedules:

- O Add opens a view or window for creating a new record in the database.
- Image: Hyperlink links to the edit view or window for the selected item. It is the same as double-clicking the table row. This button is available when a single record is selected.
- Dummary opens the Summary window for the selected item, which shows how item properties are currently configured. Double-clicking on any row in a table opens the Summary tab, which contains the same information as the Summary window.
- Old Delete removes the selected record (row) from the database table. This button is available when you select an item.
- 🖾 Rename opens the Rename window with which to change the name of the selected item.
- Duplicate opens a New window and populates each property with properties from the selected item. Using this button speeds the item creation.
- Duick Edit opens the Quick Edit window for the selected item(s). This feature allows you to edit one or more records without having to leave the current view.

Below the buttons, the table shows all current schedules that are available according to the privilege-level of the user that is currently logged on.

Table 40	Schedules	view table	default	columns

Column	Description	
Schedule Name	Identifies the name of the schedule.	
Usage	Helps to identify the schedule and provide filtering options when choosing a schedule from a list.	
Access Right Name	Identifies the name of the related access right.	
Intrusion Pin Name	Identifies the name of the intrusion pin.	

Add a new Schedule window

This window identifies the type of schedule to create. When you click **Ok**, the system opens the **Add New Schedule** view.

Figure 108 Add a New Schedule window

Add a new Schedule		
Choose a Schedule Usage		
○ Access Right		
O Door Unlock		
O Door Override		
 Custom 		
Ok Cancel		

To access this window from the main menu, click **Controller (System) Setup** \rightarrow **Schedules**, followed by clicking the Add control button (

The radio buttons identify the type of component with which to associate the schedule.

- Access Right
- Door Unlock
- Door Override
- Custom (defines another components)

Selecting Custom, opens the Choose A Usage... window.

Figure 109 Choose a Usage... window

Choose a	Usage	
Usage		>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
	Ok Cancel	

This window opens a string chooser.

Schedules Quick Edit window

This window edits schedule properties.

Figure 110 Schedule Quick Edit window

Quick Edit		
\textcircled{O} Apply to selected items: 1 \bigcirc Apply to all records with the current filter		
Usage	Door Unlock	»
True Text	Unlocked	»
🗌 False Text	Locked	»
Ok Cancel		

You access this window from the main menu by clicking **Controller (System) Setup** \rightarrow **Schedules**, followed by selecting a schedule clicking the Quick Edit button (P).

Property	Value	Description
Apply	radio buttons	Identify which schedule(s) to update.
Usage	String chooser	Updates the purpose of the schedule.
True Text	String chooser	Updates the text associated with a configured day and time on the schedule.
False Text	String chooser	Updates the text associated with days and times that are out- side the schedule.

Schedules Filter window

This window the search criteria used to search for schedules in the database.

Figure 111 Schedule Filter window

Filter			
Schedule Name	%	Must Include \sim	Case Sensitive
Usage	%	Must Include \sim	🗹 Case Sensitive
Access Right Name	%	Must Include \sim	Case Sensitive
Intrusion Pin Name	%	Must Include \sim	Case Sensitive
	Ok Cancel		

You access this window from the main menu by clicking **Controller (System) Setup→Schedules**, followed by clicking the Filter button (♥).

Criterion	Value	Description
Schedule Name	wild card (%)	Searches based on the name of the schedule.
Usage	wild card (%)	Searches based on the purpose of the schedule.
Access Right Name	wild card (%)	Searches based on the name of the access right associated with the schedule.
Intrusion Pin Name	wild card (%)	Searches based on the name of the intrusion PIN associated with the schedule.

Add New (edit or duplicate) Schedule view

This view adds a schedule to the database. Once added, the same set of tabs edit the schedule. Duplicating an existing schedule saves time because all you have to do is change the properties that differ from the source schedule.



This view opens when you click the Add () or Duplicate () control buttons at the top of the Schedules view. The edit view opens when you select a schedule in the Schedules view and click the Hyperlink button

Display Name provides a unique name for the schedule.

Buttons

In addition to the standard control buttons (Delete, Rename, Column Chooser, Refresh, Manage Reports and Export, these control buttons perform schedule functions:

- O Add opens a view or window for creating a new record in the database.
- Image: Hyperlink links to the edit view or window for the selected item. It is the same as double-clicking the table row. This button is available when a single record is selected.
- Dummary opens the Summary window for the selected item, which shows how item properties are currently configured. Double-clicking on any row in a table opens the Summary tab, which contains the same information as the Summary window.
- Duplicate opens a New window and populates each property with properties from the selected item. Using this button speeds the item creation.
- Duick Edit opens the Quick Edit window for the selected item(s). This feature allows you to edit one or more records without having to leave the current view.
- Filter buttons open the Filters window, which defines a query action for limiting the output visible in tables and reports. The gray version indicates unfiltered data. The red version indicates filtered data.

Schedule, Summary tab

For any selected day, this tab displays a read-only summary of all schedule events with source.

Summary	Scheduler	Schedule Setup	Special Events	Access Rights	Intrusion Pins			
Always	Always							
Mapped Ord: /Services/EnterpriseSecurityService/schedules/Always								
🔄 Type:	📰 Sche	edule						
Schedule I	Name: Always							
🔘 Usage:								
🔘 Status:	{ok}	{ok}						
🔘 Out Sourc	e: Default	Default Output						
🔘 Out:	Access	Access {ok}						
🔘 In:	- {null}							
🔘 Next Time	: 25-Sep-	25-Sep-18 12:00 AM IST						
🔘 Next Value	e: Access	Access {ok}						
🔑 Intrusion Pins								
🔑 Test								

This tab opens when you double-click a schedule in the **Schedules** view and any time you save changes made in another tab.

Iddle 41 Schedule properties	Table 41	Schedule	properties
------------------------------	----------	----------	------------

Property	Description		
Mapped Ord	Shows the location of the schedule.		
Туре	Identifies this Summary tab as a schedule summary.		
Schedule Name	Reports the name of the schedule.		
Usage	Identifies the type of schedule: access right, door unlock, door override, and custom.		
Status	Reports the current condition of the entity as of the last refresh: {alarm}, {disabled}, {down}, {fault}, {ok}, {stale}, {unackedAlarm}		
Out Source	Displays the current day, for example: Week: Thursday.		
Out	Reports the output value of the schedule component. This value is true during any config- ured calendar day(s), otherwise it is false.		
In	Describes the current input, such as a linked schedule. If this property is linked and it has value (non-null), this value overrides the scheduled output.		
Next Time	Reports the next date and time this event will occur. This could be a beginning or ending of a scheduled event. If the next event is more than a year into the future, this column reports null.		
Next Value	Reports the next scheduled out value (true or false) to occur at Next Time. This value is meaningless if Next Time is null.		
Intrusion Pins and Ac- cess Rights	Identifies the intrusion pins and access rights assigned to the schedule.		

Located at the bottom of the tab is a list of all the access rights and intrusion PIN assignments associated with the schedule.

Scheduler tab

This tab specifies Sunday-through-Saturday (weekly) normally-scheduled event times and output value that repeat from week to week, based on the day of the week and the time of day.

Summary	Scheduler	Schedule Setup	Special Events	Access Rights	Intrusion Pins				
	Sun	Mon	Т	ue	Wed	Thu	Fri	Sat	
12:00 AM	Access					Access			12:00 AM
3:00 AM									3:00 AM
6:00 AM									6:00 AM
9:00 AM		Access			Access		Access		9:00 AM
12:00 PM									12:00 PM
3:00 PM									3:00 PM
6:00 PM			Ac	cess				Access	6:00 PM
9:00 PM									9:00 PM
12:00 AM									12:00 AM
Start: Finish: Output: The Defau	Start: 08 >: 00 > AM > IST Finish: 06 >: 00 > PM > IST Output: □ null Access > The Default Output for this Schedule is currently set to "Access {ok}".								

Figure 112 Scheduler tab

To access this tab from the main menu click **Controller (System) Setup→Schedules**. If you are creating a

new schedule, click the Add button (^(Q)). If you are editing an existing schedule, select the schedule row in the table and click the Hyperlink button, or double-click the existing schedule row, then click the Scheduler tab.

The weekly Scheduler right-click menu opens when you right-click a selected event. The options it provides are the same as those provided by the control buttons.

Buttons

The **Scheduler** control buttons are:

- Old Delete removes the selected record (row) from the database table. This button is available when you select an item.
- 🔲 All Day Event sets up an event that starts at 12 am and ends at 12 am the next day.
- 🔊 Apply M-F configures Monday through Friday using the current day.
- Clear Day removes all events on the selected day.
- Olear Week removes all events scheduled for the entire selected week.
- D Copy Day copies all events for the selected day to use with the paste button.
- Daste Day places all events copied from another day into the selected day. This button is active only if you used the copy day button first.

Properties

Property	Value	Description
Start	hour:minute, AM, PM	Fine tunes the start time. For any event, this time is inclusive. The event extends to, but does not include the end time. In other words, there is no output "blip" between adjacent events, even across days. For example, if a Monday event ends at midnight, a Tuesday event starts at midnight. Schedule out- put continues, provided both events have the same Output value.
Finish	hour:minute, AM, PM	Fine tunes the end time.
Output	true or false	The system routes this value to the access device at the schedule times.

Schedule Setup (weekly schedules) tab

This tab includes a set of properties that affect the way the schedule works, and provides information about current and projected schedule values. It defines a default output (output during non-event times), schedule effective times, special event cleanup operation, and schedule facets (display text for outputs).

Summary	Scheduler	Schedule Setup	Special Events	Access Rights	Intrusion Pins			
Default Out	put							
Cleanup Exp	pired Events	true 🗸						
Scan Limit		090 d 00 h 00 m [1day - +inf]						
Last Modifie	ed	21-Jun-18 5:01 PM I	21-Jun-18 5:01 PM IST					
Out Source		Default Output						
Out		Access {ok}						
In		- {null} »						
Next Time		19-Sep-18 6:00 PM I						
Next Value		Access {ok}						
Usage				»				
True Text		Access		»				
False Text		No Access		»				

To access this tab from the main menu, click **Controller (System) Setup→Schedules**, then double-click the a schedule row in the table, and click the **Schedule Setup** tab.

Property	Value	Description
Default Output	read only	When a schedule event (special or weekly) is not defined from another source, the schedule component's output serves as the default value. Use the null output option when you do not want to specify either a true or false value by default.
Cleanup Expired Events	true or false	true configures the system to delete one-time special events that will not occur again. When a special event is deleted, a message is sent to the schedule log, and that special event no longer appears on the Special Events tab.
Scan Limit	day, hours, minutes	Defines how far into the future the system looks when calculat- ing the Next Time or Next Value property. Make sure that this value is always positive and always greater than 24 hours.
Last Modified	read-only	Indicates the last time that the schedule was modified.

Property	Value	Description
Out Source	read-only	Indicates what is currently generating the out value. For example, the Out Source might be coming from the Default Output value if there is no event scheduled. Or it may be coming from the Input value, if the In property is set to a value other than null.
Out	read-only	Reports the current out value.
In	read-only	Reports the current input value.
Next Time	read-only	Reports the next date and time this event will occur. This could be a beginning or ending of a scheduled event. If the next event is more than a year into the future, this column reports null.
		When you change an output time or value in the Scheduler tab, the value takes effect immediately, however, Next Time may not update for several minutes. Refreshing the browser view may help.
Next Value	read-only	Reports the next scheduled out value (true or false) to occur at Next Time. This value is meaningless if Next Time is null.
Usage	String Chooser	Adds information regarding how to use the schedule. This property can help to identify the schedule and improve filter- ing options for choosing a schedule from a list.For example, when assigning a schedule to an access right, you might use the Filter window's Usage property to show only access right schedules.
True Text	String Chooser	Defines the text to display when the current time is within the range defined by the schedule. For example, "Unlocked"
False Text	String Chooser	Defines the text to display when the current time is outside of the range defined by the schedule. For example, "Locked"

Special Events tab

This tab defines any one-off exceptions to the standard weekly schedule, as special events. These are not the same events the system manages using a calendar schedule. Rather, these are extra ordinary events that occur only once or rarely, such as time off to view an eclipse of the sun.

Figure 113 Special Events editor

📕 Schedules 👗 User Management 🛛 🎼	Backups 💣 Remote Devices	💣 Access Setup 💣 Intr	usion Setup 💣 Alarm Setup	💣 Miscellaneous
🔚 Save 🔯 Schedules				
Summary Scheduler Schedule Setup	Special Events Access Right	nts Intrusion Pins		
Name	Summary		Events	
HappyBirthday	Date: 17 Sep	12:00 AM		
		3:00 AM		_
		6:00 AM		
		9:00 AM	Access	
		12:00 PM	, and a second sec	
		3:00 PM		
		6:00 PM		
		0.00114		
		9:00 PM		
		12:00 AM		
		Start: Finish Outpu	09 ♥ :00 ♥ AM ♥ IST : 03 ♥ :00 ♥ PM ♥ IST it: □ null Access ♥	

You access this tab by clicking **Controller Setup→Schedules→Schedules**, double-clicking a schedule, and clicking the **Special Events** tab.

The Special Events editor is comprised of two primary areas: the Special Events table and a 24-hour time pane.

Buttons above the table

In addition to the standard control buttons (Rename, Delete, and Export), these control buttons, located above the Special Events table, manage special events:

- O Add opens a view or window for creating a new record in the database.
- 🕑 Edit opens the Edit window.
- Move Up and Move Down change the sequence of rows in the direction indicated one selected row at a time.
- 🔲 Rename opens the Rename window with which to change the name of the selected item
- Old Delete removes the selected record (row) from the database table. This button is available when you select an item.
- 🕞 Export opens the Export window for creating a PDF or CSV formatted report of the current table.

Buttons above the events day

These control buttons, located above the Events day, apply to the day view on the right.

- 🔲 All Day Event sets up an event that starts at 12 am and ends at 12 am the next day.
- *Clear Day removes all events on the selected day.*

- Copy Day copies all events for the selected day to use with the paste button.
- Daste Day places all events copied from another day into the selected day. This button is active only if you used the copy day button first.

 Table 42
 Special Events table columns

Property	Description	
Name	Reports the name that describes the event or function.	
Summary	Summarizes the event configuration, for example: Week and Day: Sun Every Week Every Month	

Special Events properties

Column	Value	Description
Start	hour:minutes, AM, PM	Fine tunes the start time. For any event, this time is inclusive. The event extends to, but does not include the end time. In other words, there is no output "blip" between adjacent events, even across days. For example, if a Monday event ends at midnight, a Tuesday event starts at midnight. Schedule out- put continues, provided both events have the same Output value.
Finish	hour:minutes, AM, PM	Fine tunes the end time.
Output	drop-down list	The system routes this value to the access device at the sched- ule times.

Add event window

Creates a special one-off event or references a calendar schedule, which defines a recurring special event.

Add	
Display Name	Memorial Day
Туре	Date ~
	Ok Cancel

This window opens when you click the Add button ((2)) to create a new special event.

Property	Value	Description		
Display Name	text	Defines a name that describes the event or function.		
Туре	drop-down list	Determines the selection criteria for day or days, with the fol- lowing choices: Date:(default) defines type by various combi- nations of weekday, numerical date, month or month combinations, and year.		
		Refer to .		
		Refer to Add (or edit) date range window, page 128 Week And Day defines the type by By combination of day of week, week in month, month.		
		Refer to Add (or edit) week and day window, page 128. Date Range defines the type by start and end range, using for each a combination of day, month, year. Custom defines type by various combinations of day, month, weekdays, and year.		
		Refer to Add (or edit) custom window, page 129. Reference adds a pre-defined Calendar Schedule to your cal- endar if you have one already setup. Selecting Reference opens a second Add window that lists all calendar schedules (Calendars) available in the station, by path. Select any one for the day(s) portion of this special event.		
		Refer to Add (or edit) reference window, page 129		

Add (or edit) date window

This window serves both the weekly and calendar schedules. Its four drop-down lists configure a one-off or recurring special event.

Figure 114 Add/Edit date window

Edit
Any Weekday v Any Day v Any Month v Any Year v
Ok Cancel

This window opens when you select Date for the Type property on the Add event window.

You can make only one selection for each property. This includes an Any... option, in addition to the specific options.

Property	Value	Description
Day of the week	drop-down list, de- fault: Any Weekday	Identifies the day of the week: Sunday, Monday, etc.
Day in the month	drop-down list, de- fault: Any Day	Identifies the day of the month: 1, 2, 31.
Month of the year	drop-down list, de- fault: Any Month	Identifies the month of the year: Jan, Feb, etc.
Year	drop-down list, de- fault: Any Year	Identifies the year up to and including 2025.

You can make only one selection for each property. The default of an Any... is also valid for each. The system adds all properties together.

For example, if you select a weekday of Tuesday, a day of the month of 5, and leave the remaining properties configured as Any... the system specifies the event to occur on the fifth of any month in any year that happens to fall on a Tuesday. If a month has no Tuesday the fifth, then no event occurs that month.

Add (or edit) date range window

This Edit window defines an event, such as a conference or trade show, that has a one-off or recurring start and end date.

Edit				
Any Day 💙 Any Month 💙 Any Year 💙				
Through				
Any Day 💌 Any Month 💌 Any Year 💌				
Ok Cancel				

This window opens when you select a Date Range option for the Type property in the Add window.

Property	Value	Description
Day of the month	drop-down list, de- fault: Any Day	Identifies the day of the month: 1, 2, 31.
Month of the year	drop-down list, de- fault: Any Month	Identifies the month of the year: Jan, Feb, etc.
Year	drop-down list, de- fault: Any Year	Identifies the year up to and including 2025.

The starting date for the range is at the top of the window.

Each property offers an Any... option, in addition to a specific selection (day-of-month, month-of-year, year). You make only one selection in each. The system calculates the from and through dates in the range based on this input.

The start day can be after the end day. For example, the start day can be in December and the end day in March. Such an event begins in December and continues through January and February.

Add (or edit) week and day window

This window configures a regular event that is independent of the year and specific day of the month. Two of the monthly options available in this window allow you to define an event that occurs every-other month through the year, for example: Week and Day: Sun Every Week Every Month

Edit	
Any Weekday 👻 Any Week 💽 Any Month	~
Ok Cancel	

This option opens when you select Week and Day for the Type property in the Add window.

Property	Value	Description
Day of the week	drop-down list, de- fault: Any Weekday	Identifies the day of the week: Sunday, Monday, etc.
Week in the month	drop-down list, de- fault: Any Week	Identifies the week number in the month: Week 1, Week 2, etc. and Last 7 Days.
Month of the year	drop-down list, de- fault: Any Month	Identifies the month of the year: Jan, Feb, etc. It includes op- tions to specify every other month beginning with January (Jan) and every other month beginning with February (Feb).

Add (or edit) custom window

If the other combinations do not work, this Edit window offers another way to define date information.

Edit	
Any Day 💌 Any Month 💌 Any Weekday 💌 Any Week	🗸 Any Year 🔽
Ok Cancel	

This window opens when you select Custom for the Type property in the Add window.

Property	Value	Description
Day of the month	drop-down list, de- fault: Any Day	Identifies the day of the month: 1, 2, 31.
Month of the year	drop-down list, de- fault: Any Month	Identifies the month of the year: Jan, Feb, etc.
Day of the week	drop-down list, de- fault: Any Weekday	Identifies the day of the week: Sunday, Monday, etc.
Week in the month	drop-down list, de- fault: Any Week	Identifies the week number in the month: Week 1, Week 2, etc. and Last 7 Days.
Year	drop-down list, de- fault: Any Year	Identifies the year up to and including 2025.

Add (or edit) reference window

This window defines the calendar schedule to associate with this weekly schedule.

Calendar Schedule usage by special event reference allows global changing of day definitions, where multiple weekly schedules can reference one or more calendar schedules. Any edit of a calendar schedule affects all weekly schedules containing the special event that references it.



	Summary
Christmas	Date: 25 Dec
Edit Any Weekday 25 Dec Any Year Ok Cancel	

The figure above shows a portion of its **Special Events** tab, listing a single special event that references a calendar schedule. This indicates that the special event (a holiday calendar day) is defined remotely in the configuration of the referenced calendar schedule.

The unlabeled property in the **Edit** window contains the slot ORD for the calendar schedule. You select it from a drop-down list.

Special Events right-click menu and other controls

Selecting an event on the Special Events tab and right-clicking opens the right-click menu.

Figure 116 Right-click menu

Name			Summary		
January 1	C Cdit		Date: 1 Jan		
July 4th			Date: 4 Jul		
Christmas	 Rename 		Date: 25 Dec		
	Delete				

Special event menu options may include the following:

- Edit—Edit day(s) selection criteria (without changing the special event type). This is the same selecting the event and clicking the Edit button ().
- Rename—Rename selected special event. This is the same as selecting the event and clicking the Rename button (□).
- Move Up—Move special event to a higher priority. This is the same as selecting the event and clicking the Move Up button (
- Move Down—Move special event to a lower priority. This is the same as selecting the event and clicking the Move Down button (
- Delete—Removes the selected special event from the schedule component. This is the same as selecting the event and clicking the Delete button ().

Access Rights tab

This tab lists assigned access rights and the learn mode to assign access rights to the displayed schedule.

Figure 11	7 Acces	s Rights tab					
Summary	Scheduler	Schedule Setup	Special Events	Access Rights	Intrusion Pins		
Newly Ass	signed						
Access Rig	ght Name ∧	Sch	edule Name	Integratio	on Name	Tenant Name	Threat Level Group Name
Unassign	ed						
Access Ri	ight Name	Schedu	le Name	Integration M	lame	Tenant Name	Threat Level Group Name

You access this view from the main menu by clicking **Controller (System) Setup→Schedules**, followed by clicking the Add button to create a new schedule, and clicking the Access Rights tab.

Buttons

In addition to the standard control buttons (Export and Assign Mode) this view provides these control buttons:

- 🥥 Remove Assignment (Unassign) disassociates an assignment that was previously made.
- Dummary opens the Access Rights Summary window.
- 🔘 Hyperlink opens the Access Rights view.
- 🔄 Filter opens the Access Rights Filter window.

Columns

Column	Description
Access Right Name	Identifies the title of the access right associated with the entity.
Schedule Name	Reports the name of the associated schedule (if any).
Integration Name	Reports the name of the associated integration ID The system performs building automation ac- tions, such as turning the lights on, associated with this type of ID.
Tenant Name	Reports the name of the associated tenant.
Threat Level Group Name	Reports the name of the associated threat level group.

Intrusion Pins tab

The Intrusion PINs (Personal Identification Numbers) tab lists assigned intrusion PINs and allows you to use the learn mode to assign any intrusion PINs to the displayed schedule.

Figure 118 Intrusion Pins tab

Summary	Scheduler	Schedule Setup	Special Events	Access Rights	Intrusion Pins	
Assigned	(a)					
Intrusion	Pin Name ٨			Schedu	le Name	Tenant Name
Test				Always		
Newly U	nassigned					
Intrusior	n Pin Name			Schedule Na	me	Tenant Name

You access this view from the main menu by clicking **Controller (System) Setup→Schedules**, followed by clicking the Add button to create a new schedule, and clicking the Intrusion Pins tab.

Buttons

In addition to the standard control buttons (Export and Assign Mode) this view provides these control buttons:

- 🥥 Remove Assignment (Unassign) disassociates an assignment that was previously made.
- 🕒 Summary opens the Intrusion Pins Summary window.
- leg Hyperlink opens the Intrusion Pins view.
- 😨 Filter opens the Intrusion Pins Filter window.

Table 43Intrusion Pins tab columns

Column	Description
Intrusion Pin Name	Reports the name of the intrusion pin.
Schedule Name	Reports the schedule name.
Tenant Name	Reports the tenant name.

Calendar Schedules view

This view specifies regular exceptions to the weekly schedule. On a calendar schedule, you define entire days, using four types of day event selections: Date, Date Range, Week and Day, or Reference. You can add as many day events as needed in the same calendar schedule.

The system links calendar schedules by referencing them from the special events tab of one or more weekly schedules. Each referenced calendar schedule defines the day portion of a special event. Then, you configure time-of-day events in each special event as needed.

Calendar schedules allow you to define the events for a day, which can be applied to multiple weekly schedules. If events change, all you have to do to change all your weekly schedules is to change the one calendar schedule because all weekly schedules reference it.

Figure 119	Calendar	Schedules	view
------------	----------	-----------	------

Display Name 🙏	Status	Out	Next Time	Next Value	To Display Path String
Calendar Schedule	{ok}	false {ok}	14-Oct-18 12:00 AM IST	false {ok}	/Services/EnterpriseSecurityService/calendarSchedules/Calendar Schedule
Holidays	{ok}	false {ok}	25-Oct-18 12:00 AM IST	false {ok}	/Services/EnterpriseSecurityService/calendarSchedules/Holidays

To open the view from the home page you expand **Controller Setup→Schedules** and click **Calendar Schedules**.

The table in this view shows all current schedules that are available according to the privilege-level of the user that is currently logged on.

Buttons

The following control buttons serve this view:

- Old opens a view or window for creating a new record in the database.
- Image: Hyperlink links to the edit view or window for the selected item. It is the same as double-clicking the table row. This button is available when a single record is selected.
- Old Delete removes the selected record (row) from the database table. This button is available when you select an item.
- 🖾 Rename opens the Rename window with which to change the name of the selected item.

 Table 44
 Calendar Schedules columns

Column	Description
Display Name	Identifies the schedule name.
Status	Reports the current condition of the entity as of the last refresh: {alarm}, {disabled}, {down}, {fault}, {ok}, {stale}, {unackedAlarm}
Out	true indicates that an event is scheduled for the day. All other days (on which nothing is scheduled) are false.
Next Time	Reports the next date and time this event will occur. This could be a beginning or ending of a scheduled event. If the next event is more than a year into the future, this column reports null.
Next Value	Reports the next scheduled out value (true or false) to occur at Next Time. This value is meaningless if Next Time is null.
To Display Path String	Reports the display path.

Calendar Schedules Filter window

This window defines search criteria with which to limit the number of records displayed in the Calendar Schedules table.

Figure 120 Calendar Schedules Filter window

Filter			
Display Name	%	Must Include	✓ ✓ Case Sensitive
Status	%	Must Include	✓ ✓ Case Sensitive
Out	%	Must Include	✓ ✓ Case Sensitive
Next Time	Time Range 🛛 🗠 🤉 to ?		»
Next Value	%	Must Include	✓ ✓ Case Sensitive
To Display Path String	%	Must Include	✓ ✓ Case Sensitive
	Ok Cancel		

This window opens when you click the Filter button (,) on the Calendar Schedules view.

Property	Value	Description
Display Name	wild card (%)	Searches for calendar schedule records by name.
Status	wild card (%)	<pre>Searches for calendar schedule records by status: {alarm}, {disabled}, {down}, {fault}, {ok}, {stale}, {unackedAlarm}.</pre>
Out	wild card (%)	Searches for calendar schedule records based on the value of the schedule's out slot (true or false).
Next Time	drop-down list and Advanced Time Range Options window	Searches based on the next time this event is scheduled to occur.
Next Value	wild card (%)	Searches based on the out value (true or false) for the next time this event is scheduled to occur.
To Display Path String	wild chard (%)	Searches based on the slot path of the schedule in the station.

Add New (or edit) Calendar Schedule view

This view creates or edits a global calendar schedule that a weekly schedule can reference from its **Special Events** tab.

Figure 121 Calendar Schedules view		
alendar Schedules		
Display Name Calendar Schedule1		
Events Schedule Setup		
Name	Summary	
Parade	Date: 15 Aug	

To access this view from the home page expand **Controller Setup** \rightarrow **Schedules** \rightarrow **Calendar Schedules**, and click the new button or double-click an existing calendar schedule row in the table.

The buttons at the top of the view perform these functions:

- Save stores the schedule in the database.
- Calendar Schedules returns to the menu page.

Display Name provides a unique name for the calendar schedule. This property is not available in an add view.

Events tab

This view adds and edits events. You typically reference calendar schedules from the **Special Events** tab of one or more weekly schedules. Each referenced calendar schedule defines the daytime portion of a special event.

Figure 122 Events tab	1		
Events Schedule Setu	2		
Name			Summary
Happy Anniversary			Date: 27 Feb

To access this view from the home page menu, expand **Controller Setup** \rightarrow **Schedules** \rightarrow **Calendar Schedules**, then click the add button or double-click the calendar row in the table.

Buttons

The following are the Events tab control buttons:

- 🖬 Save updates the database with the current information.
- O Add opens a view or window for creating a new record in the database.
- 🕑 Edit opens the Edit window.
- Move Up and Move Down change the sequence of rows in the direction indicated one selected row at a time.

- Old Delete removes the selected record (row) from the database table. This button is available when you select an item.
- Description of the Export window for creating a PDF or CSV formatted report of the current table.

Below the buttons, the table shows all current calendar schedules that are available according to the privilege-level of the user that is currently logged on.

Columns

Table 45Events tab table

Column	Description
Name	Reports the name that describes the event or function.
Summary	Reports the date(s) for the event.

Right-click menu

When you right-click any event the system opens the right-click menu.

Figure 123 Right-click Events menu

Þ	Edit
I	Rename
0	Delete

This menu provides the same commands as the control buttons.

NOTE: Priority selections (right-click menu or in bottom buttons) only affect the list order for events in a Calendar Schedule—true priority applies only to special events (in weekly schedules).

Schedule Setup (calendar schedules) tab

This tab configures the global calendar schedules that you reference from regular schedules.

Figure 124 Schedule Setup tab

Summary	Scheduler	Schedule Setup	Special Events	Access Rights	Intrusion Pins
Default Out	put	Access {ok} »	-		
Cleanup Ex	pired Events	true 🗸			
Scan Limit		090 d 00 h	00 m [1day - +i	inf]	
Last Modifie	ed	21-Jun-18 5:01 PM I	ST		
Out Source		Default Output			
Out Access {ok}		Access {ok}			
In		- {null} »			
Next Time		19-Sep-18 6:00 PM I	ST		
Next Value		Access {ok}			
Usage				»	
True Text		Access		»	
False Text		No Access		»	

You access this tab by clicking **Controller (System) Setup→Schedules→Calendar Schedules→Schedule Setup**.

Property	Value	Description	
Default Output	drop-down list	Configures the default value for output: for example: Granted/ Denied, True/False.	
Cleanup Expired Events	true or false	true configures the system to delete one-time special events that will not occur again. When a special event is deleted, a message is sent to the schedule log, and that special event no longer appears on the Special Events tab. false config- ures the system to retain one-time events even though they will not occur again.	
Scan Limit	day, hours, minutes	Defines how far into the future the system looks when calculat- ing the Next Time or Next Value property. Make sure that this value is always positive and always greater than 24 hours.	
Last Modified	read-only	Indicates the last time that the schedule was modified.	
Out Source	read-only	Displays the day of the week, for example: Week: Thursday	
Out	read-only	Indicates the result of an action based on the schedule. For ex- ample, the action may be to allow access to a building only during business hours. The system returns "true" if the individ- ual scans their badge during business hours, and "false" if the individual attempts to enter outside of business hours. The True Text and False Text properties define the message the person sees.	
In	read-only	Displays the current input value.	
Next Time	read-only	Reports the next date and time this event will occur. This could be a beginning or ending of a scheduled event. If the next event is more than a year into the future, this column reports null. When you change an output time or value in the Scheduler tab, the value takes effect immediately, however, Next Time may not update for several minutes. Refreshing the browser view may help.	
Next Value	read-only	Reports the next scheduled out value (true or false) to occur at Next Time. This value is meaningless if Next Time is null.	
Usage	chooser	Selects the type of schedule: access right, door unlock, door override, and custom.	
True Text	text	Sets up the word or phrase to display when the schedule per- mits entry.	
False Text	text	Sets up the word or phrase to display when the schedule de- nies entry.	

Chapter 6 Controller (System) Setup-User Management

Topics covered in this chapter

- Users view
- Add New (and edit) User view
- Roles view
- Add New (or edit) Role tab
- Change Password view

User management includes working with individual user credentials, assigning roles and managing passwords.

A user is a set of properties associated with each person whose responsibility it is to manage the system. User properties include credentials and roles based on which the system grants the associated person the right to log in and use system features. Users are personnel, but not all personnel are users.

User Management views

🚰 Home රර	Monitoring 🔒 Perso	nnel 📄 Report	s 🕺 💣 System Se	etup	els
📰 Schedules	🙎 User Management	🎼 Backups 🤞	Remote Devices	Access Setup	Ť
🚨 Users					
Roles					
🔒 Change	e Password				

Users view

Figure 125 Users view

This view opens a table that lists the people and software functions authorized to manage the system.

🚰 Home of Monitoring 🏖 Personnel 📄	Reports 🛛 🚿 System Setup 🔒 Thr	eat Levels Setup 🚿 Intrusion Setup 🚿 Alar	m Setup 🚿 Miscellaneous
User Name 📐	Full Name	Roles	Tenants
Engineer		Maintenance	
Personnel Manager		admin	
admin		admin	

This is the default when you click **System Setup**→ **User Management**→ **Users** from the main menu. The table lists all existing user types.

Control buttons

In addition to the standard control buttons (Delete, Rename, Column Chooser, Filter, Manage Reports, and Export), The following control buttons manage this view:

- O Add creates a new user record in the station database.
- Byperlink opens an existing user record for editing.

- Configure opens the Configure window for setting up lockout properties, defining password strength and password configuration.
- Duick Edit changes a limited set of properties.

NOTE: Button availability is based on the role assigned to the currently-logged in user. For example if the role supports read-only permissions, the Add button is grayed out.

Columns

The table contains the following columns.

Column	Description
User Name	Displays the user name associated with the person, role or machine-to-machine user.
Full Name	Reports a longer name. This could be the first and last name of the person who authorized to use the system or a longer name for a machine-to-machine user.
Roles	Displays the role assigned to this user.
Tenants	Reports the tenant associated with this user.

Configure window

This window configures lock out options and the definition of strong passwords. These requirements apply to all users. You can quickly set password and Lock Out options for one or more users using this view.

Figure 126 Configure window (global password properties)

Configure				
Lockout				
Lock Out Enabled		true 🗸		
Lock Out Period		+ V 00000 h 00 m 10 s		
Max Bad Logins Before	e Lock Out	5 [1 - 10]		
Lock Out Window		00000 h 00 m 30 s [1sec - 1day]		
Password Strength				
Minimum Length	14	[0 - +inf]		
Minimum Lower Case	1	[0 - +inf]		
Minimum Upper Case	1	[0 - +inf]		
Minimum Digits	1	[0 - +inf]		
Minimum Special	0	[0 - +inf]		
Password Configuration				
Expiration Interval	+ 🗸 36	5 d 00 h 00 m 00 s		
Warning Period	+ 🗸 03	0 d 00 h 00 m 00 s		
Password History Leng	gth 2	[1 - 10]		
	Ok	Cancel		

You access this window from the main menu by clicking **Controller (System) Setup** \rightarrow **User Managemen**t \rightarrow **Users**, followed by clicking the Configure button (\swarrow).

Lockout properties

Property	Value	Description	
Lockout Enabled	true (default) or false	true temporarily prevents a a user from logging in to a user account after a number of consecutive authentication failures. The user is locked out for the duration of the lock out period (next property). This feature makes it difficult to automate the guessing of passwords. Changing this property opens a sec- ond Configure window that allows you to individually set Re- quire Strong Passwords and Lock Out Enabled. The Clear Lock Out button on the Edit User view terminates the locked-out state.	
Lockout Period	hours, minutes, seconds (defaults to 10 seconds)	If lock out is enabled, this defines the period of time a user ac- count is locked out before being reset. While locked out, any login attempt (even a valid one) is unsuccessful.	
Max Bad Logins Before Lockout	number from 1 to 10 (defaults to 5)	In conjunction with Lock Out Window, specifies the number of consecutive failed login attempts that trigger a user lockout. The system enforces lockout changes on the next login at- tempt. For example, suppose that Max Bad Logins is set to 5, and a user has failed to log in four times within the Lock Out Window. At that moment, suppose an admin-level user changes Max Bad Logins to 3. The change does not lock out the user who still has one more chance to log in. If the fifth login attempt fails, the user is locked out, since five failed at- tempts is greater than or equal to the Max Bad Logins setting of 3.	
Lock Out Window	hours, minutes, seconds, up to one day (defaults to 30 seconds)	If lock out is enabled, and the number of Max Bad Logins Be- fore Lock Out occurs within this window of time, the user is locked out for the Lock Out Period duration.	

Password Strength properties

Property	Value	Description
Minimum Length	number from zero to infinity (defaults to 10)	Defines the fewest number of letters a user can configure.
Minimum Lower Case	number from zero to infinity (defaults to 1)	Defines the fewest number of lower-case letters required.
Minimum Upper Case	number from zero to infinity (defaults to 1)	Defines the fewest number of upper-case letters required.
Minimum Digits	number from zero to infinity (defaults to 1)	Defines the fewest number of numeric digits required.
Minimum Special	number	Defines the fewest number of special characters required.

Property	Value	Description	
Expiration Interval	days, hours, mi- nutes, seconds	Defines a date in the future when the password expires.	
Warning Period	days, hours, mi- nutes, seconds	Defines when the warning period begins before the password expires.	
Password History Length	number from zero (0) to 10 (defaults to 0)	Defines how many previous passwords cannot be used. The system stores the history of each user's passwords and does not allow reuse of the same password up to 10 passwords ago. For example, if this value is two (2), a user could create the same password they had three-times ago, but they could not reuse their password from two times ago.	

Quick Edit window

This window presents user properties for quick editing.

Figure 127 Users Quick Edit window

Quick Edit						
Apply to sel	\mathbb{R}_{Apply} to selected items: 1 \bigcirc Apply to all records with the current filter					
Expiration	Never Expires O Expires On 12-May-18	3 11:59 PM 🗸				
Language						
Network User	alse					
Notes Required On A	ck true 🗸					
Tenants	🕒 None	»				
	Ok Cancel					

You open this window from the main menu by clicking Controller (System) Setup→User Managemen-

 $t \rightarrow Users$, selecting a user type row in the table, and clicking the Quick Edit button (\square).

Property	Value	Description
Apply	two radio buttons	Determines to which records the changes apply.
Expiration	radio button and drop-down lists for configuring the date	Sets a predetermined expiration date for a user. never configures the user to never expire. Date option properties—Activates the six date option proper- ties. Edit the Month, Day and Year to set a user expiration date. Edit the hour, minutes, and AM/PM properties set an expiration time.
Language	list of two-charac- ter language co- des, defaults to the language used by the browser	Specifies a lexicon (for example: fr or de), which identifies lan- guage support or other customizing, if available in the current system.
Network User	true or false (default)	Defines if this user definition can be used in other stations. false defines a user that is local to this particular station only. true automatically replicates (or propagates) the user to sub- ordinate stations that are joined under a Supervisor station.

Property	Value	Description
Notes Required on Ack	true (default) or false	Defines if a note is required. true requires a user to enter a note when acknowledging an alarm.
		true requires a user to enter a note when acknowledging an alarm
		false disables this requirement.
Tenants	Ref Chooser	Identifies the associated tenant.

Filter window

This window sets up search criteria for users. It is available on the User view.

Figure 128	Users Filter window
------------	---------------------

Filter			
User Name	%	Must Include \sim	Case Sensitive
Full Name	%	Must Include \sim	Case Sensitive
Roles	%	Must Include \sim	Case Sensitive
Tenants	%	Must Include \sim	Case Sensitive
	Ok Cance	4	

You open this window from the main menu by clicking **Controller (System) Setup** \rightarrow **User Management t** \rightarrow **Users**, followed by clicking the Filter button (\bigtriangledown).

Criterion	Value	Description
User Name	wild card (%)	Selects a user name (admin, operator, etc.) as a criterion.
Full Name	wild card (%)	Selects the associated person's first and last name as a criterion.
Roles	wild card (%)	Selects a role as a criterion.
Tenants	wild card (%)	Selects a tenant as a criterion.

Add New (and edit) User view

The **New User** view creates and configures system users. These can be people, operational roles, or machine-to-machine users.

Figure 129 Add New User view

🚰 Home 🛛 ốơ Monitoring 🛛 🛓 Per	sonnel 📄 Reports 💣 System Setup 🛕 Threat Levels
📄 Schedules 🙎 User Managemen	it 🚯 Backups 🚿 Remote Devices 🚿 Access Setup 🚿 Intrusion Setup 🕷 Alarm S
🔚 Save 🔯 Users	
User Name Factory worker	
User Roles	
Full Name	
Enabled	true 🗸
Expiration	Never Expires O Expires On 11-May-18
Lock Out	false 🗸
Language	63
Email	
Password	Password: •••••••• Confirm: ••••••
Force Password Reset	false 🗸
Password Expiration	Never Expires O Expires On 11-May-18 11:59 PM
Network User	false
Authentication Scheme Name	DigestScheme
Cell Phone Number	
Auto Logoff Enabled	true V
Use Default Auto Logoff Period	
Auto Logoff Period	00000 h 15 m [2mins - 4hours]
Profile	Standard Access Profile
Home	Home
Notes Required On Ack	true 🗸
Default Alarm Console	Select an Alarm Console
Enable Video Settings	true V
Layout	
Alarm Console Popup	
Action On Video Acknowledgement	Load Newest Alarm
Toponto	
Tenants	😏 None 🛛 👋 👋

To open this view from the main menu, click **Controller (System) Setup** \rightarrow **User Management** \rightarrow **Users** and click the Add button (\bigcirc). To open the Edit view, select the user in the table and click the Hyperlink button (\bigcirc).

The User Name property appears above the tabbed area. Use it to assign a unique name to the user type.

If an existing user type is in a locked-out state, a **Clear Lockout** button displays at the top of the view. Click this button to immediately clear a user from a locked out state.

The tabs configure user types and the associated role(s).

NOTE: A new user type is not created until you click the **Save** button.

Properties

Property	Value	Description
User Name	text	This can be the name of a person authorized to manage the system, the name of a person type, such as "operator," "ad-ministrator," or the name of a machine-to-machine user, such as "obix."
Full Name	text, optional	Assigns a longer name for the user type.
Property	Value	Description
-----------------------------------	--	---
Enabled	true or false	Turns the use of a user type on (true) and off (false). You can enter and maintain user information in the system without having to enable the user type. However, user log-on credentials are not valid unless and until the user type is enabled.
Expiration	radio button and	Sets a predetermined expiration date for a user.
	drop-down lists	never configures the user to never expire.
		Date option properties—Activates the six date option proper- ties. Edit the Month, Day and Year to set a user expiration date. Edit the hour, minutes, and AM/PM properties set an expiration time.
Lock Out	read-only true or false (available when the Lockout Enabled property is set to true)	Displays true if a user is in a locked-out state. This happens when a user exceeds a maximum number of failed log-in at- tempts within the defined log-in window of time.
Language	list of two-charac- ter language co- des, defaults to the language used by the browser	Specifies a lexicon (for example: fr or de), which identifies lan- guage support or other customizing, if available in the current system.
Email	email syntax	Specifies a single email address each user logged in to the system with the user type.
Password and Password Confirm	two properties	Specifies and confirms the desired user password.
Force Password Reset	true or false (default)	true requires the user to reset the password at the next login.
Password Expiration	two options with date	Configures password changes. This is a system feature.
Network User	true or false	Defines if this user definition can be used in other stations.
	(default)	false defines a user that is local to this particular station only.
		true automatically replicates (or propagates) the user to sub- ordinate stations that are joined under a Supervisor station.
Authentication Scheme Name	drop-down list	Selects the scheme for verifying username and password.
Cell Phone Number	telephone number	Provides a place to associate a cell phone number with the user.
Auto Logoff Enabled	true (default) or false	Turns on (true) and off (false) the use of an auto log-off time. If set to true , an Auto Logoff Time is required.
Use Default Auto Logoff Period	true (default) or false	true configures the system to use the default auto logoff period.
		false requires the configuration of the logoff period.
Auto Logoff Period	Hours, minutes and seconds	Defines the maximum time a user may remain inactive before the system logs the user off. This security measure takes effect when Auto Logoff Enabled set to true.

Property	Value	Description
Profile	drop-down list	Selects one of the available user profiles. For most users, the default Standard Access Profile option is used. Select the Personnel Entry Access Profile to provide Personnel Entry Management users a more limited set of views and menu options.
Home	name	Provides a home page you can configure and assign to individ- ual users. The value selected here determines the initial logon page that displays when the user logs on to the application.
		NOTE: This setting only affects the user's initial logon page and does not change the top-level navigation page that dis- plays when a user clicks the Home link from the main menu.
Notes Required on Ack	true (default) or false	Defines if a note is required. true requires a user to enter a note when acknowledging an alarm.
		true requires a user to enter a note when acknowledging an alarm
		false disables this requirement.
Default Alarm Console	text	In cases where you have more than one Alarm Console, this property selects the console that displays initially when an alarm console view opens.
Enable Video Settings	true (default) or false	Displays and hides the video setting properties. When set to false, the following properties do not display in the view: Layout, Alarm Console Popup, Action on New Alarm, and Action On Video Acknowledgment.
Layout	drop-down list	Lists the display options that are available for the Alarm Con- sole - Live view. The options determine what information the live console view displays. Some layouts include one or more video feeds.
Alarm Console Popup	on or off (default)	Enables and disables the alarm console popup feature. When enabled (on), new alarms open an alarm popup window.
Action on New Alarm	drop-down list (de- faults to Load	For video alarms, determines alarm console behavior when a new alarm (with video) occurs.
	Newest Alarm)	Load Newest Alarm automatically displays video associated with the latest alarm.
		Manual Alarm Selection displays no video until you select an alarm in the console.
Action on Video Acknowledgment	drop-down list (de- faults to Load	Determines the video alarm console behavior when a video alarm is acknowledged from the video alarm controls.
	Newest Alarm)	Load Newest Alarm automatically displays the video associated with the acknowledged alarm.
		Manual Alarm Selection displays no video until you select the alarm in the console.
Tenants	Ref Chooser	Opens a list of tenants from which to choose the associated tenant.

Roles tab

This tab manually assigns or unassigns roles to users.

NOTE: Each user must have one or more roles assigned to them. You can create a user of a level equal to or lower than your level. For example, if you logged in as an operator, you cannot add roles of any type.

Figure 130 Add New User Roles tab

් Home රං Monitoring 楶 Personnel 📄 Reports 💣 System Setup 🛕 Threat Levels	niagara
📄 Schedules 💄 User Management 🚯 Backups 🚿 Remote Devices 🚿 Access Setup 🚿 Intrus	sion Setup 💣 Alarm Set
ave 🔁 Users	
User Name User	
User Roles	
Newly Assigned	
Role 🔥	
Unassigned	
Admin	
Badge Operator	
Operator	
Personnel Management	
defaultPrototype	
<	>

You access this view from the main menu by clicking **System Setup→User Management→Users**, followed

by clicking the Add button (^(O)), and clicking the Roles tab.

NOTE: You cannot assign a role to the current user. To assign a role, the current user should be the admin or super user.

Roles view

Roles configure a permissions map for each user type that, when assigned to a user, permits the user to make authorized changes to database records.

Figure 131 Roles view

🚰 Home 🏾 ốơ 🕯	Monitoring 🔒 Perso	nnel 📄 Reports	💣 System Setup	A Threat Levels	nia	
📰 Schedules	🙎 User Management	🎼 Backups 💣	Remote Devices	🖗 Access Setup 💣	Intrusion Setup	💣 Alarm Set
Role 📐						
Admin						
Badge Operator						
Maintenance						
Operator						
Personnel Managen	nent					
defaultPrototype						

You access this view from the main menu by selecting System Setup→User Management→ Roles.

The control buttons (Hyperlink, Delete, Rename, Column Chooser, Filter, Manage Reports, and Export pro-

vide standard functions. The Add button () opens the Add New Role view.

NOTE: Button availability is based on the role assigned to the currently-logged in user. If the role supports read-only permissions, the Add button is grayed out.

Filter window

This window reduces the number of roles listed in the Add New User **Roles** view. It has the same properties as the Users view **Filter** window.



Filter		
Role %	Must Include	✓ ✓ Case Sensitive
	Ok Cancel	

You open this window from the main menu by clicking Controller (System) Setup→User Managemen-

 $t \rightarrow Roles$, followed by clicking the Filter button (\square).

This window has a single property (Role) used to limit the table view.

Add New (or edit) Role tab

This view creates and edit roles and provides access to one or more user types that are associated with this role.

Figure 133 Add New Role view

💏 Home	óo' Monitoring 🔒 Personne	e l	Rer	orts	💣 System Seti
Schedul	es 🚊 User Management 🛽	🖡 Bac	kups	a∰ R	emote Devices
		- B	mapo	387 · · ·	
Save	🖄 Roles				
Role Name	Personnel Manager]		
Role User	s				
Enabled	true 🗸				
	Super User				
		Read	Write	Invoke	
	Admin				
	Badge Management	\checkmark	\checkmark	~	
	Personnel Management	\checkmark	\checkmark	✓	
	Graphics				
	Monitoring				
	User Management				
	Schedules				
	Access Rights	-			
	Access Setup				
	Intrusion Setup				
L	Alarm Setup				
Permissions	Remote Device Setup				
	Controller Setup				
	General Reports				
	Access Reports				
	Intrusion Reports				
	Hardware Reports				
	Alarm Console				
	Tenant Management	~			
	Video Subsystem				
	PhotoID Network				
	Threat Level Management				
	LDAP Import				
	Visitor Management				

You access this view/tab from the main menu by selecting **System Setup** \rightarrow **User Management** \rightarrow **Roles**, followed by clicking the Add button (\bigcirc).

You open this view to edit an existing role by selecting the role from the **Role Manager** view and clicking on the Hyperlink button (a).

The number of permissions available in this view is based on the role assigned to the current user. You can create new roles and assign only the permissions that your role allows you to read, write, and invoke.

Property	Value	Description
Role Name	text	Provides a name for the role
Enabled	true (default) or false	true assigns the role automatically to user. false requires manual assignment.

Property	Value	Description
Super User	check box	Assigns to the user all permissions (read, write, and invoke) for all available categories, overrides any selections in the Permis- sions Map and removes the Permissions Map from view.
Permissions map	table of option boxes	Enables and disables individual Read, Write, and Invoke per- missions for a list of categories. Selecting a Write level permis- sion automatically sets the corresponding Read level permission for that category. The categories in the table de- pend on the categories.xml, which you may edit to customize it for individual stations. The default Categories.xml file re- stores default categories.

Users tab

This tab provides a way to manually assign a role to a user. When the learn mode is selected, all available users display and may be assigned to the currently-displayed role.



් Home රට Monitoring 🏖 Perso	onnel 📄 Reports	💣 System Setup 🔒 🚹 Threat Lev	rels niagara
📰 Schedules 🙎 User Management	🚯 Backups 💣 Rei	mote Devices 🛛 🖓 Access Setup	🖑 Intrusion Setup 💣 Alarm
🔒 Save 🔯 Roles			
Role Name Role			
Role Users			
Newly Assigned			
User Name 🙏	Full Name	Roles	Tenants
Unassigned			
User Name	Full Name	Roles	Tenants
Engineer		Maintenance	
Personnel Manager		admin	
Photo ID User		Badge\$20Operator	
admin		admin	· · · · · · · · · · · · · · · · · · ·
<			>

User types can have more than one role assigned to them. Also, you can only create a user of a level equal to or lower than the level that you are logged in as. For example, if you are logged on as with operator-level privileges, you cannot add roles of any type.

Buttons

In addition to the standard control buttons (Hyperlink, Filter, and Export, these control buttons have special meaning:

- Onassign removes the selected role from the user.
- 🖪 Assign mode opens the Unassigned Pane from which to choose roles.

Columns

Table 17	Now	Lloore columne
Table 47	INew	Users columns

Column	Description
User Name	Reports the user name (admin, operator, etc) assigned to the person.
Full Name	Reports the full name of the associated person.
Roles	Reports each role assigned to the user.
Tenants	Reports the tenant, if any, associated with the user.

Change Password view

This view sets a new password for the current user.

Figure 135 Change password view

ත් Home රට Monite	oring 🔒 Persor	nnel 📄 Repo	orts 💣 System Set	up 🛕 Threat Lev	vels	niagara
🗐 Schedules 🛛 🚨 🕻	User Management	🞼 Backups	Remote Devices	💣 Access Setup	💣 Intrusion Setup	💣 Alarm Setup
Save						
User	admin					
Current Password						
New Password						
Confirm New Passw	ord					~
<						>

You access this view from the main menu by clicking **System Setup→User Management→Change Password**.

Property	Value	Description
User	read-only	Identifies the user name for the user who is currently logged in.
Current Password	text	Prompts you to enter the user's existing password.
New Password	text	Defines the new password.
Confirm New Password	text	Defines the new password again. This property must match the New Password property.

Chapter 7 Controller (System) Setup– Backup views

Topics covered in this chapter

- Backups view
- ◆ Restore from Backup Distribution File or System Backup File views

These views manage Supervisor station and controller station backups.

Controllers and Supervisors have different backup views. Both views function in slightly different ways to create and manage backup files. The primary difference between them is that the Supervisor backup view can back up all subordinate stations, and the local Supervisor station, whereas, a controller can only back up its local station.

The following table identifies the primary differences between the two views:

Feature	Controller	Supervisor
Local Backup function	x	x
Restore function	x	x
Recent Backup History tab	x	x
System Backup function		x
Backup Schedule tab		x
Backup Archive tab		x

Another difference between Supervisor and controller backups involves the archive that results from making a backup. Archive files made from a Supervisor and subordinate stations have a *.zip file extension. Local archives made from a single controller station have a .dist extension.

Backups view

This view opens to the **Backups** tab, which lists the system and individual station backup files that have been created. You can use this view to initiate a backup job at any time. This view also provides a restore function. The views are slightly different between Supervisor and controller backups.

Supervisor Backups

Figure 136	Supervisor	Backups	view
------------	------------	---------	------

📰 Schedules	👗 User Management	Backups	💣 Remote Devices	🛷 Access Setup	💣 Intrusion Setup	💣 Alarm Setup	💣 Miscellaneous
🔚 Save 📭 S	iystem Backup 📃 🖳 L	.ocal Backup	Restore				
Backup Archive	Backup Schedule	Recent Backı	up History				
File Name				Timestamp		Backup Type	Size
🎼 file:~backups,	/backup_entsec_18062	0_1506.zip		20-Jun-18 3:06	PM IST	System	19848k
🎼 file:~backups,	/backup_entsec_18062	0_1505.zip		20-Jun-18 3:05	PM IST	System	19786k

This view opens when you select **System Setup→Backups** from the main menu of a Supervisor station.

The primary buttons are located below the view title at the top of the view. They include the following:

- Save is dimmed until you make a change in an editable property on the Backup Schedule tab.
- **System Backup** initiates a manual backup by of the Supervisor station and all subordinate stations. This button is not available when accessing the Backups view in a controller station.
- Local Backup initiates a manual backup of the local Supervisor station.
- **Restore** initiates a job to return all station data to the data stored in a previous backup.

The four control buttons above the table provide standard functions. The unique function for this view is provided by the Restore button (⁽¹⁾).

Backup Archive columns

Table 48 Backup Archive columns

Column	Description	
File Name	Displays the archived file name and path location.	
	NOTE: Only files located under the default station/backups directory are displayed in this table. Backup files that you save to other locations are not displayed here.	
Timestamp	Displays the date and time that the backup was saved.	
Васкир Туре	Indicates what is in the backup file:	
	Local: includes a Supervisor station only	
	System: includes a Supervisor and its subordinate stations	
Size	Indicates the backup file size.	

Controller backups

Figure 137 Controller Backups view

🔚 Save 🚯 System Backup	💻 Local Backup 🛛 🗢 Restore		
Backup Archive Backup Sched	ule Recent Backup History		
Timestamp 💙	Host	Path	User
10-Jul-18 3:16 PM IST	IE67DTG0D0GD2.global.ds.honeywell.com	archive/hx:backup_entsec_180710_1516.zip	admin

This view opens only when you select **Controller Setup→Backups** from the main menu of a controller station.

Buttons

The primary buttons are located below the view title at the top of the view:

- Local Backup initiates a manual backup of the local Supervisor station.
- **Restore** initiates a job to return all station data to the data stored in a previous backup.

Columns

Table 49	Backup	Archive	columns
----------	--------	---------	---------

Column	Description
Timestamp	Displays the date and time that the backup was saved.
Host	Reports the host's IP address.

Column	Description
Path	Reports the path to the backup distribution (dist) file.
User	Identifies the person who made the backup.

System Backup/Local Backup window

This window provides Supervisor backup options.

Figure 138 Example of a System Backup window

System Backup	
 Archive Backup on Supervisor Download Backup 	
Ok Cancel	

This window opens when you click the **System Setup→Backups**, followed by clicking the **System Backup** or **Local Backup** button. The only difference between the **System Backup** and **Local Backup** windows is the window title.

Property	Value	Description
Archive Backup on Supervisor	check box	Saves the backup file to a backups folder under the station folder. If this folder does not exist, the system automatically creates it. The Backup Archive tab lists the backups stored in this folder.
Download Backup	check box	Windows-based systems saves the backup file in Downloads folder from where you can move it to another location.

Backup Archive tab Summary window

This windows provides summary information for a specific backup.





This window opens when you select a backup row in the Backups view and click the Summary button (🕒).

Table 50	Summary properties
----------	--------------------

Property	Description
File Name	Identifies the backup file name.
Timestamp	Reports when the backup was created.
Description	Provides additional information.

Backup Archive tab Restore windows

You may need to restore a station if data are corrupted or an error occurred. The Backup feature presents two Restore windows depending on the origin of the backup file.

Restore window — Supervisor

Figure 140 Restore window

Restore
Local Distribution File
Are you sure you want to restore the local station from the following Distibrution:
Online backup of station "entSecurity" on "VA51LTC5CZQC2"
Ok Cancel

This window opens when you navigate to **System Setup** \rightarrow **Backups**, select a Supervisor station backup and click the Restore button (P). It asks you to confirm the restoration to the local Supervisor station.

Restore window — remote host

This window lists the backup files that are available to restore the station in a remote host (controller platform).

Figure 141 Restore window

Restore
Which station(s) would you like to restore?
Restore station "entSecurity601" to host "137.19.61.193".
Restore station "entSecurity" to host "¥A51DT3400MM".
Ok Cancel

This window opens when you navigate to **System Setup** \rightarrow **Backups**, select a host station backup and click the Restore button (\bigcirc). It lists all the available backup files from which you may choose the file to restore to the remote host station. These files are stored in the Supervisor PC's !backups folder.

Backup Schedule tab

This tab associates a schedule with the backup function. It is only available to a Supervisor station.

Scheduled backups occur when the attached schedule's output property transitions from a false to a true state. Performing a regular backup job is an important best practice.

Figure 142 Backup Schedule tab

🔚 Save 🚯 System Backup 📃 Local Backup 🗘 Restore						
Backup Archive	Backup Schedul	Recent	Backup History			
System Backup Schedule 📃 None						
Local Backup Schedule		None		»		
Scheduled System Backup Limit			[1 - +inf]			
Scheduled Local Backup Limit			[1 - +inf]			
Alarm Info		rm Source I	info »			

You access this tab by clicking **System Setup**→**Backups**, followed by clicking the **Backup Schedule** tab.

Property	Value	Description
System Backup Schedule	Ref Chooser	Assigns a schedule for system-type backups. When a schedule is assigned in this property you can click on the associated schedule icon [®] to navigate to the Edit Schedule view.
Local Backup Schedule	Ref Chooser	Assigns a schedule for local-type backups. When a schedule is assigned in this property you can click on the associated schedule icon [®] to navigate to the Edit Schedule view.
Scheduled System Backup Limit	number between one (1) and infinity; defaults to 10	Specifies the maximum number of scheduled System backups that are allowed. After this number is reached, subsequent backups are "rolled" so that the new backup overwrites the oldest existing backup.
Scheduled Local Backup Limit	number between one (1) and infinity; defaults to 10	Specifies the maximum number of scheduled Local backups that are allowed. After this number is reached, subsequent backups are "rolled" so that the new backup overwrites the oldest existing backup.
Alarm Source Info	additional properties	Contains a set of properties for configuring and routing alarms when this component is the alarm source.

Recent Backup History tab

This tab displays a table of all the backup jobs run by the station. It is available on both the Supervisor and local station versions of the **Backups** view.

Figure 143 Recent Backup History tab

📰 Schedules	👗 User Management	Backups 🛷 Remote Devices	🛷 Access Setup	💣 Intrusion Setup	💣 Alarm Setup	💣 Miscellaneous	
🔚 Save 🎼 Sy	ystem Backup	Local Backup 🗘 Restore					
Backup Archive	Backup Schedule	Recent Backup History					
Timestamp 🔥		Host		Path			User
26-Jun-18 12:17 F	PM IST	IE67DTG0D0GD2.global.ds.honeywe	ll.com	archive:backu	p_entsec_180626_	1217.zip	admin

This view opens when you click the Recent Backup History tab on the Backups view.

Standard Filter (🗐 🔄) and Export (🕞) control buttons are provided.

Columns

Column	Description
Timestamp	Identifies when the backup was saved.
Host	Identifies the host platform.
Path	Identifies the path where the backup is located.
User	Identifies the user who made the backup.

 Table 51
 Recent Backup History columns

Recent Backup History tab Filter window

This window configures search criteria for limiting the number of backup files in the list.

Filter				
Timestamp	Time Range	∨ 🕒 ? to ?		»
🗌 Host	%		Must Include	✓ ✓ Case Sensitive
Path	%		Must Include	✓ ✓ Case Sensitive
User	%		Must Include	✓ ✓ Case Sensitive
		Ok Cance	2	

This window opens when you click the Filter button (😇) on the **Recent Backup History** tab of the **Back**-ups view.

Criterion	Value	Description
Timestamp	drop-down list and Time chooser	Sets up start and end dates and times, days of the week or a schedule to use as filter criteria.
Host	wild card (%)	Sets up the host name as a criterion.
Path	wild card (%)	Sets up the path as a criterion.
User	wild card (%)	Sets up the associated user name (admin, operator, etc.) as a criterion.

Restore from Backup Distribution File or System Backup File views

This view restores one or more station *.dist backup files. It functions the same in a standalone controller and in a Supervisor station.

Figure 144 Supervisor Restore window



NOTE: Supervisor station backups that include more than one station are saved in a .zip file.

This view opens in a Supervisor or controller station when you click **Controller (System) Setup→Backups**, followed clicking the **Restore** button. You do not have to select a file from the list.

A single **Save** button is at the top of the view under the title.

A single property on the **Restore Options** tab, **File**, defines the backup file to restore. This property includes the path to the selected archive file. When you click in the **File** property, or click the **Browse** button, a file chooser window opens. Use it to browse to and select the file (*.dist).

Chapter 8 Controller (System) Setup– Remote Devices

Topics covered in this chapter

- Remote Drivers view
- ◆ Remote Modules menu
- ◆ Access Device Manager Database (Remote Module Setup) view
- Device modules views
- Door Setup view, Readers tab
- Reader configuration options
- Elevators Setup view, Elevator tab
- ♦ Burglar Panel view
- ◆ Edit Unlock Input view
- Edit Power Monitor view
- Remote Module Network Identification view
- Access Network view and tab
- Niagara Integration IDs view
- ♦ Add New (or edit) Niagara Integration ID view and tab
- BACnet Network view, BacNet Network tab
- ♦ BACnet BDT Manager (Broadcast Distribution Table) view
- New (or edit) Entry views
- Station Manager Database view
- ♦ Join (Add) Station view
- ♦ Distributed Schedule Manager Database view
- Recover Station view
- Station Device Properties view
- Certificate Management view
- Video Network views
- DVR and NVR views
- Video camera views
- Edit Point view, Configuration tab
- SmartKey Discovery view
- SmartKey Device Manager Database view

These views, tabs and windows configure network communication among controllers, their modules, and devices. Several use the network discovery and learn modes to find, add, and configure devices.

Figure 145 Remote Devices view

	Hon	ne	60° M	lonitoring	A Person	nel	🗋 Repe	orts	💣 Controller	Setup	🛕 Threat	Levels
ę	🎽 Sc	:hedı	ıles	💄 User M	anagement	12	Backups	@ F	Remote Devices	÷	Access Setu	p 🗳
	¢	Rer	mote	Drivers								
+	٩	Rei	mote	Modules								
	€	Intr	usion	Displays	/Keypads							
		Nia	gara	Integratio	n IDs							
	-	BA	Cnet	Network								
	0	BA	Cnet	BDT Man	ager							
	- 	Sta	tion N	lanager								
	Î	Cer	rtificat	e Manag	ement							

You access this list of views by clicking Controller (System) Setup→Remote Devices.

These views include views that involve network communications between controllers and their modules and devices. Several of these views use the network discovery and learn modes to find, add, and configure devices across the system network.

Remote devices include these views:

- Remote Drivers view
- Remote Modules view
- Module Setup view (edit module configuration)
- Door Setup view
- Reader Setup view
- Elevator Setup view
- Edit Points view
- Edit Burglar Panel view
- Alarm Source Exts view
- Edit Alarm Source Ext Properties
- Network Identification view (Remote Module Identification)
- Access network view
- SmartKey Device Manaer Database view
- SmartKey Device view
- Niagara Integration ID view
- Edit BACnet Network view
- BDT Manager view
- New Entry view and Edit Entry view
- Station Manager Database view
- Distributed Schedule Manager Database view
- Add Station view

• Certificate Management view

Remote Drivers view

This view and the views, tabs and windows that open from it manage the network drivers and devices that connect to them.

Figure 146 Remote Drivers view

冒 Schedules 🛛 👗 User Management 🛛 🚯 Backups	Remote Devices @ Access Setup @ Intrusion Setu	ip 💣 Alarm Setup 💣 Miscellaneous	
Name 🛦	Status	Enabled	Fault Cause
Ca Axis Video Network	{ok}	true	
Ca Ldap Network	{ok}	true	
C Obix Network	{ok}	true	
C Photo ID Network	{ok}	true	

You access this view by clicking **Controller (System) Setup→Remote Devices→Remote Drivers**.

These network drivers work with the system:

- Access Network
- Axis Video Network
- Milestone Network
- Obix Network
- Nrio Network
- SmartKey Network

Buttons

In addition to the standard controls, (Filter, Manage Reports and Export), these control buttons provide driver control features:

- Manage Devices/Drivers opens the Manage Drivers or Manage Devices window, which is used to Add, Delete, Rename, Duplicate, Copy, and Cut system drivers or devices.
- Old Delete removes the selected record (row) from the database table. This button is available when you select an item.
- 💷 Enable/Disable Networks activates and deactivates the selected network.
- Image: Hyperlink links to the edit view or window for the selected item. It is the same as double-clicking the table row. This button is available when a single record is selected.

Columns

Column	Description
Name	Reports the name that describes the event or function.
Status	Reports the current condition of the entity as of the last refresh: {alarm}, {disabled}, {down}, {fault}, {ok}, {stale}, {unackedAlarm}
Enabled	Reports if the function is turned on (true) or off (false).
Fault Cause	Reports the reason for an undesirable status.

Manage Drivers window

This window provides options for managing network drivers.



Manage Drivers			
How would you like to Manage Drivers?			
● () Add			
◯ 🧿 Delete			
O _I Rename			
O C Duplicate			
Ор Сору			
⊖ <mark>‰</mark> Cut			
Ok Cancel			

You access this window from the main menu by clicking Controller (System) Setup→Remote Devices→Re-

mote Drivers, followed by clicking the Manage Drivers button (🖤).

This window provides these options:

- Add opens the Add Driver window.
- Delete removes the selected driver from the database.
- Rename asks you to confirm the operation, then opens a window with a text field.
- Duplicate opens the Add Driver window with the properties populated by the selected driver.
- Creates a copy of the device, which you can rename.
- Cuts the device, saving a copy in memory. When you select Manage Devices again you can create a new device by pasting the cut device into the new record.

Add Driver windows

This window lists all the drivers for which a driver module is available to the controller.





This window opens when you click **Controller (System) Setup→Remote Devices→Remote Drivers**, followed by clicking the **Manage Drivers** button, and selecting the Add option in the **Manage Drivers** window and clicking **Ok**.

The drivers listed in this window depend upon your unique software installation. Once you select a driver it no longer appears in this list.

After selecting the driver, another **Add Driver** window opens.

Figure 149 Next Add Driver window

Add Driver				
Driver Type Name	Milestone X Protect Network			
Ok Cancel				

This window opens after you select the type of driver and click **OK**.

You use the Name property to provide a customized name for the driver in your system.

Enable/Disable Networks window

This window activates the selected driver.

Figure 150 Enable/Disable Networks window

Enable/Disable Networks		
Select Network(s) to Disable:		
AccessNetwork		
Ok Cancel		

This window opens when you click **Controller (System) Setup** \rightarrow **Remote Devices** \rightarrow **Remote Drivers**, followed by selecting one or more driver rows in the table and clicking the Enable/Disable Networks button (
a).

Filter window

This window defines search criteria for limiting the number of records in the table.

Filter				
Name	%	Must Include V	Case Sensitive	
Status	%	Must Include V	Case Sensitive	
Enabled	%	Must Include V	Case Sensitive	
Fault Cause	%	Must Include V	Case Sensitive	
Ok Cancel				

This window opens when you click **Controller (System) Setup** \rightarrow **Remote Devices** \rightarrow **Remote Drivers**, followed by clicking the Filter button ().

Property	Value	Description	
Name	wild card (%)	Searches based on the name of the driver.	
Status	wild card (%)	Searches based on current driver status.	
Enabled	wild card (%)	Searches for drivers that are currently enabled (true) or disabled (false).	
Fault Cause	wild card (%)	Searches for drivers based on the reason they are in fault.	

Remote Modules menu

These sub-menu options manage hardware option modules added to the remote controller.

Figure 151 Remote modules

Remote Modules
a Remote Module Setup
a Remote Module Identification
a Access Network Setup

You access these options by clicking **Controller (System) Setup→Remote Devices** followed by expanding the **Remote Modules** node in the menu tree.

Access Device Manager – Database (Remote Module Setup) view

This view manages the devices (modules) connected to a remote host controller. It is available only using a controller station.

Figure 152	Access Device Manager - Database vie
------------	--------------------------------------

😚 Home 🛛 ốơ M	onitoring 🔒 Pe	rsonnel Reports	Tontroller Setu	p 🔥 Threat Level	s Magara
📰 Schedules	👗 User Manageme	ent Backups 💣	Remote Devices	Access Setup 💣	Intrusion Setup 💣
23 C					
Display Name ∧	Enabled	Status Device Type	e Uid	Installed Version	Available Version
Remote Reader Modu	ıle true	{ok} Remote Read	er 00001065ec78	1.34	1.34
Discovered					
Address	Device Type	Uid	Version	Used By	
1	Remote Reader	00001065ec78	1.34	Remote Reade	r Module

You access this view in at least one of two ways:

- By clicking Controller Setup→Remote Devices→Remote Modules→Remote Module Setup.
- Or by double-clicking the AccessNetwork row on the **Remote Devices**→**Remote Drivers** view.

Database pane

In addition to the standard control buttons (Discover, Hyperlink, Delete, Rename, Filter, Refresh and Export), the Database pane provides these database-related controls:

- Manage Devices/Drivers opens the Manage Drivers or Manage Devices window, which is used to Add, Delete, Rename, Duplicate, Copy, and Cut system drivers or devices. The duplicate option provides the ability to quickly create multiple copies of a pre-configured device that is in your database.
- 💪 Upgrade Firmware initiates an upgrade of a selected module.
- Wink Device cycles the first digital output (relay output) for all selected devices on and off for a period of 10 seconds. This confirms that the device is responding before matching it to a specific component in the station database (typically, after you have added offline hardware are using the match function.
- Discovered pane to show and hide discovered devices.

Column	Description
Display Name	Names the device.
Enabled	Indicates if the device is on or off.
Status	Reports the current condition of the entity as of the last refresh: {alarm}, {dis- abled}, {down}, {fault}, {ok}, {stale}, {unackedAlarm}
Device Type	Identifies the type of device.
Uid	Universal Identification number
Installed Version	Reports the current version of the driver.
Available Version	Indicates if a more recent version is available.

Table 52	Database	pane	columns
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Discovered pane

This pane opens when you click the Discover button (#).

In addition to the standard control buttons (Filter and Export), the **Discovered** pane provides these database-related controls:

- O Add button adds the discovered and selected module to the station database.
- Cal Match associates a reader record that is already in the system database with the actual reader. It is available only when you select the reader in both the Database pane and the Discovered pane of a manager view. This is usually an item you previously added off line. The added item assumes the properties defined for it in the database. You can edit these properties after matching the item.
- Wink Device cycles the first digital output (relay output) for all selected devices on and off for a period of 10 seconds. This confirms that the device is responding before matching it to a specific component in the station database (typically, after you have added the reader record to the database off line and are using the match function.

Column	Description
Address	Indicates in what order the system discovered the modules. It does not corre- late to how the modules are wired or their physical location.
Device Type	Identifies the type of device.
Uid	Universal Identification number
Version	Identifies the software version of the module.
Used By	Identifies the module that uses this device.

Table 53 Discovered pane columns

Add Device windows

The manage devices button () appears in several device-related views. When clicked, this button initiates a series of windows used to add, delete, rename, duplicate, copy, and cut and paste devices that are related to a module, door, elevator, or reader. You can use the duplicate, copy and paste options to quickly add new devices.

This window appears in the **Configure Database** view and has analogous options for adding, deleting, renaming and duplicated databases.

Figure 153 Example using Manage Devices windows to add a door

Manage Devices	Add Device	Add Device
How would you like to Manage Devices?	Remote Reader Module	Device Type Remote Reader Module Name Remote Reader Modulx Initial Doors Two Doors Ok Cancel
Or Copy Or Cut Ok Cancel		

You access these windows by clicking Controller Setup→Remote Devices→Remote Modules→Remote

Module Setup, followed by clicking the Manage Devices button (1).

All options work similarly by opening windows to allow you to perform the desired operation. The actions available in this view provide standard features.

Manage Devices window

- Add creates a new device record in the database.
- Delete removes the device record from the database.
- Rename changes the name of the currently-selected device record in the database.
- Duplicate creates a new record with the same properties as an existing record. This feature speeds configuring multiple similar devices.
- Copy saves the selected record in memory.
- Cut deletes the selected record while saving a copy of it in memory.
- Paste appears only after you have copied or cut a device.

First Add Device window

Figure 154 First Add Device (modules) window

Add Device		
Base Reader Module		
ORemote Reader Module		
OInput/Output Module		
Ok Cancel		

The screen capture illustrates the addition of three devices (hardware modules):

- Base Reader Module is built into the controller base. It supports two readers.
- Remote Reader Module connects to a controller base extension. It supports two readers.
- Input/Output Module is an interface that receives and sends electrical signals. It supports a wide variety of devices, such as billing controls, window control, etc.

Second Add Device window

This is followed by another **Add Device** window.

Figure 155 Second Add Device (modules) window

Add Device	
Device Type	Remote Reader Module
Name	Remote Reader Modu ×
Initial Doors V	
Ok Cancel	

Properties

Property	Value	Description
Device Type	read-only	Identifies the type of module.
Name	text	Customizes the device name.
Initial Doors	drop-down list	Defines the number of doors.

Add device window, discovered reader

This window configures a discovered device, such as a card reader.

Figure 156 Add	d device window	
Add		
Device Type Display Name	Remote Reader Module Remote Reader Modu ×	
Enabled		
Address Uid	1 [0 - 16] 000017ccc051	
Initial Doors	Two Doors 🗸	
Ok Cancel		

This window opens from the main menu when you click **Controller Setup→Remote Devices→Remote Modules→Remote Module Setup**, discover devices, select a reader device in the **Discovered** pane and

click the Add button (🔍).

Property	Value	Description
Device Type	read-only	Displays the type of device you are adding.
Device Name	text	Assigns a unique name to the device.
Device Type	drop-down list	Changes the type of device. Device types include: None Base Board Reader Remote Reader Remote Input Output Io16 Io16 V1 Io34 Io34sec
Enabled	true or false	Turns the feature on (true) and off (false).
Address	number	Identifies a number by which the system accesses the device.

Property	Value	Description
Uid	text	Reports a six-byte number that is globally unique to this specif- ic I/O hardware device. Discovery automatically obtains this Unique ID (Uid) from each device.
Initial Doors	nitial Doors faults to Two Doors)	Defines the number of doors.
		No Doors
		One Door
		Two Doors

Add device window, discovered Asure ID Client Device

This window configures a discovered Asure ID Client Device.

Figure 157 Add device window

Add Device	
Device Type	Asure ID Client Device
Name	Asure ID Client Device
Host Name	
Entsec AsureID Port	3001
	Ok Cancel

This window opens from the main menu when you click **Photo ID** followed by clicking the Manage Devices button (), clicking **Add**, selecting Asure ID Client Device and clicking **Ok**.

Property	Value	Description
Device Туре	read-only	Identifies the object to add.
Name	text (defaults to Asure Id Client Device)	Provides a name.
Host Name	text	Identifies the computer on which Asure ID is running.
Entsec AsurelD Port	number	Identifies the computer port used to communication with the client device.

Device modules views

Any number of device (hardware) modules can be connected to a remote controller. Most are reader modules.

The view that opens depends on the module you add:

• Input/Output Module

The tabs and options available for each module vary depending on the module.

Links

The links that appear under the module name vary depending on the module. This list includes all the possible links:

• Save activates when there are unsaved changes in the view. Click the button to save changes.

- Manage Devices opens the Manage Devices window, which adds, removes, duplicates, or renames extensions (such as an access alarm source extension) on the currently selected point.
- Elevators links to the Elevator tab on the parent device.
- Schedule Floors opens the Schedule Floors window. You use this window to assign schedules to individual floors.
- Access Network links to the Access Device Manager Database view.
- Manual Override opens the Manual Override window, which configures override properties.

Modules tab

The device modules tabs include the Base Reader Module, Remote Reader Module, and Input/Output Module tabs. These configure components added to a controller for the purpose of connecting card readers and other input and output modules.

Each module has a setup view for listing and editing the configuration of the hardware modules.

Figure 158	Remote Reader Module tab
------------	--------------------------

🔚 Save 🕼 Manage De	evices	실 Access Network
Remote Reader Module	Doors	Additional Points
Status {ok}		
Alarm Class High	⊻ 🖪	Video Setup
Enabled true 🗸		

You access a module tab from the main menu by clicking **Controller Setup→Remote Devices→Remote Modules→Remote Module Setup** followed by creating a new device or double-clicking a selected row in the table. Double-clicking a module row opens a slightly different set of tabs for each module:

- A Base Reader Module opens these tabs: Base Reader Module, Doors, Elevators, Additional Points and Burglar Panels.
- A Remote Reader Module opens these tabs: Remote Reader Module, Doors and Additional Points
- An Input/Output Module opens these tabs: Input/Output Module and Additional Points.

Properties

In addition to the standard properties (Status, and Enabled) this property and button supports a remote reader module.

Property	Value	Description
Alarm Class	drop-down list	Defines alarm routing options and priorities. Typical alarm classes include High, Medium and Low. An alarm class of Low might send an email message, while an alarm class of High might trigger a text message to the department manager.
Video Setup button	additional properties	Opens the Video Setup window, which selects, enables and configures a video camera to associate with the alarm point or device.

Video Setup window

This window configures video properties.

Figure 159 Video Setup window

Video Setup		
Video Enabled	false 🗸	
Camera	Select a Video Camera 🗸	
Go to Preset	false 🗸	
Camera Preset	~	
Send Alarm To Display false 🗸		
Ok Cancel		

You open this window by clicking the Video Setup button on a Modules tab (Remote Reader Module, Base Reader Module).

Properties

Property	Value	Description
Video Enabled	true or false (default)	Turns the use of video on (true) and off (false).
Camera	drop-down list	Selects the video camera.
Go to Preset	true or false (default)	Triggers the execution (true) of a preset.
Camera Preset	drop-down list	Selects the camera preset to execute. A preset positions the camera.
Send Alarm To Display	true or false (default)	Turns on (true) and off (false) the display of an associated alarm.

Doors tab

This tab provides hyperlinks to the door configuration view. The view defaults to two doors, but more may be configured if you added them when you created the reader module record.

Figure 160 Doors tab

🔒 Save	Manage Devices 🔯 Access Network			
Remote Re	eader Module	Doors	Additional Points	
Door 📃 Doo	or <u>1</u>			
Door 📃 Doo	o <u>r 2</u>			

You access this view from the main menu by clicking **Controller Setup→Remote Devices→Remote Modu**les→Remote Module Setup, then either creating a new device or double-clicking a selected row in the table, and clicking the Doors tab. What happens when you click one of the door hyperlinks is documented in the topics that begin with "Door view."

Elevators tab

This tab provides access to one or more elevators.

Figure 161 Elevators tab

			🕜 Help 🛛 🙇 Logout	
frome 60° Monitoring	La Personnel	Reports 💣	Controller Setup	T
📄 Schedules 🛛 🚨 User Ma	anagement 📭 I	Backups 💣 Remot	e Devices 💣 Access	5
🔒 Save 🕼 Manage Dev	ices 🔯 Access	Network		
Base Reader Module Do	ors Elevators	Additional Points	Burglar Panels	
Elevator III Elevator				

You access this view from the main menu by clicking **Controller Setup**→**Remote Devices**→**Remote Modules**→**Remote Module Setup**, creating a new device or double-clicking a selected row in the table, and clicking the Elevators tab.

What happens when you click one of the elevator hyperlinks is documented in the topic that begins with "Elevator view."

Additional Points tab

This tab lists additional points associated with the module. Each point links to a tab, which configures the properties for the specific point.

Figure 162 Additional Points tab



You access this view from the main menu by clicking **Controller Setup**→**Remote Devices**→**Remote Modules**→**Remote Module Setup**, creating a new device or double-clicking a selected row in the table, and clicking the **Additional Points** tab.

Reader Modules view, Burglar Panels tab

This tab lists one or more burglar panels associated with the reader.

Figure 163 Burglar Panels tab



Door Setup view, Readers tab

This view manages the reader(s), strike, sensor and exit request properties for a specific door. The door view defaults to the **Readers** tab, which links to the reader view associated with this door. The standard is one card reader per door.

Figure 164 Door view with Readers tab selected.



You access this view by clicking **Controller Setup**→**Remote Devices**→**Remote Modules**→**Remote Module Setup**, followed by double-clicking the base reader module row in the table, clicking the Doors tab, and clicking the link to a specific door.

Links

These links under the name of the door provide these functions on all door tabs:

- Save activates when there are unsaved changes in the view. Click the button to save changes.
- Manage Devices opens the Manage Devices window from which you can add, delete, rename, duplicate, copy, and cut devices.
- Base Reader Module returns to the Base Reader Module view.
- **Doors** returns to the **Doors** tab.
- Manual Override opens the Manual Override window from which you can specify lock and unlock options.

Door view, Manual Override window

This window initiates an action to override the system.

Figure 165 Manual Override window



This window opens from the main menu when you click **Controller Setup→Remote Devices→Remote Modules→Remote Module Setup**, add or double-click a remote reader module, click the Doors tab, click a door, and click the **Manual Override** button.

The Override Types are these:

- Use Access Unlock Time configures the door to open as defined by the Access Unlock Time, which is defined on the Strike tab.
- Quick Open unlocks the door momentarily and re-locks it, allowing just enough time for someone standing at the door to open it.
- Pick Time specifies a time for the door to remain unlocked.
- Open Door Once unlocks the door and leaves it unlocked until you click the Manual Override button a second time and confirm to cancel the manual override.
- Pick Lock Time specifies a time (in minutes and seconds) to temporarily lock a door that is currently unlocked by an assigned schedule setting. when this override is invoked, the door remains locked until the

configured override time expires or until you click the **Manual Override** button a second time and confirm to cancel the manual override.

Strike tab

This tab configures the unlocking and locking of the door. Door options work in conjunction with the selected Unlock Schedule.

Figure 166 Strike tab



To access this tab, under the **Controller Setup** menu, select **Remote Devices→Remote Modules→Remote Module Setup** and double-click the door device (module), click the door name, and click the Strike tab.

Property	Value	Description
Locked State	Open or Closed	Defines the position of the lock associated with the Door Lock Output property.
Status	read-only	Indicates the current strike state (Locked, Unlocked, and status {ok}, or other possibilities.)
Auto Relock	drop-down list	Defines what should happen with a door that has just been unlocked.
		Unlock Time permits the door to remain unlocked for the amount of time defined by Access Unlock Time.
		Relock On Door Open locks the door as soon at it unlocks.
		Relock On Door Close locks the door either after the Ac- cess Unlock Time expires (if the door has been unlocked, but not opened) or when the door closes.
Schedule Operation	drop-down list	Specifies when to set the strike status. All options work with the selected unlock schedule. If no schedule is selected, (prop- erty set to none), none of the options are available for specify- ing how to set the strike status.
		Normal follows the schedule defined by the Unlock Sched- ule property.
		Unlock on first validation causes the strike to unlock (if access is granted) and remain unlocked after the first time ac- cess is granted within the scheduled open time. If access is granted outside of the scheduled open time, an unlock-on- first-validation is not performed.
		Unlock and Relock alternately unlocks and re-locks with each card swipe.

Property	Value	Description
		Follow Another Strike opens a Ref Chooser used to select a module and door strike to follow. Door status reflects the status of the strike to follow. Choosing this option, when the schedule is true, inhibits the door force alarm without waiting for the door to follow to have its strike enabled.
Unlock Schedule	Ref Chooser	Selects a schedule to indicate when a door should be un- locked. None disables all strike properties. If no schedules ap- pear in the Ref Chooser, none may have been created yet.
		A check-marked null value defaults to the incoming value from the device. If you remove the check mark you can configure this value.
Override Schedule	Ref Chooser	Selects a schedule to temporarily unlock and lock the door us- ing a higher priority level than the level assigned to the Un- lock Schedule. This sets up an exception to the regular Unlock Schedule.
Access Unlock Time	minutes and sec- onds (1 second to 59 minutes)	Defines the length of time that a door may remain unlocked after access is granted. Values are only used when Auto Re- lock is set to Unlock Time.
Log Exit Requests	drop-down list (de- faults to None)	Defines the conditions under which to initiate a log entry asso- ciated only with an exit request at the selected door. None dis- ables exit request logging. Unlocked creates a record any time the door is unlocked. Opened creates a record any time that the door is opened. Unlocked or Opened creates a re- cord any time the door is unlocked or opened.
Log Schedule	true (default) or	Manages the log for a scheduled activity.
Activity	false	true creates a record any time a schedule controls activity at this door. The record may be displayed in the Access History report.
		false disables the recording of scheduled activity.
Threat Level Group	Ref Chooser	Assigns an optional Threat Level Group to the strike. When assigned, two additional properties display.
Schedule Lock- down Threat Level (Appears when you assign a Threat Level Group to the strike.)	drop-down list (de- faults to None)	Specifies a threat level that keeps the door locked no matter what the state of the associated schedule is. The default sets the door to follow the associated schedule without regard to the active threat level. A value other than the default (Low, Normal or High) keeps the door locked as long as the active threat level is at or above that specified here. This value must be greater threat than the value specified in the Unlock Threat Level. If not, the system displays a warning message next to the property when you try to save.

Property	Value	Description
Unlock Threat Lev- el (Appears when you assign a Threat Level Group to the strike.)	drop-down list (de- faults to None)	Specifies a threat level that keeps the door unlocked, no mat- ter what the state of the associated schedule is. The default follows the associated schedule without regard to the active threat level. A value other than the default (that is, Low, Normal or High) keeps the door unlocked as long as the active threat level is at or below the level specified here. The value of the Schedule Lockdown Threat Level must be a greater threat level than the value specified by this property, otherwise, a warning message displays when you try to save changes.
Door Lock Output (Appears when you assign a Threat Level Group to the strike.)	drop-down list	Defines the relay output control the strike lock action.

Sensor tab

The properties on this tab configure the door sensor.

Figure 167 Sensor tab

🔚 Save 🕼 Manage Devices 🔯 Base Reader Module 🙆 Doors 🔘 Manual Override				
Readers Strike Sensor	Exit Request			
Closed State	Closed V			
Status	Opened {fault,stale}			
Door Held Open Limit	00 m 30 s [1sec - 59mins]			
Debounce Time	○ None			
Door Forced Alarm Class	Medium 💙 🚯 Video Setup			
Door Held Open Alarm Class	Medium Video Setup			
Sensor Fault Alarm Class	Medium 🗸 🔀 Video Setup			
Sensor Input	Supervised Digital Input 1 🗸			

To access this tab, under the **Controller Setup** menu, select **Remote Devices** →**Remote Modules**→**Remote Module Setup** and double-click the door device (module), click the door name, and click the **Sensor** tab.

Property	Value	Description
Closed State	open or closed	Defines the normal state of the designated input to match the requirements of the sensor device.
Status	read-only	Indicates the current state of the sensor (Locked or Unlocked), and its status {ok}, or other possibilities.
Door Held Open Limit	minutes and seconds	Defines the length of time that the door is allowed to be held open before the system generates an alarm.
Debounce Time	None (no de- bounce time used), minutes and sec- onds (0 minutes to 59 minutes); de- faults to 1 second	Minimizes Door Forced alarms around the time of a validation, exit request activation, or manual door override. The intent is to prevent unwanted Door Forced alarms caused by a door bouncing open momentarily just after or just prior to an au- thorized entry. Two scenarios use this property. In the first sce- nario, a bounce after open or close occurs when a legitimate open or close is followed by slamming the door, which bounces it open momentarily causing a forced-door alarm. Setting a

Property	Value	Description
		debounce time allows time for a bounce to occur without cre- ating an alarm. In the second scenario, a bounced door can be quickly followed by a legitimate opening when a person at- tempts to open a door and the door slips out and closes mo- mentarily before the person opens it fully. A bounce closed is not counted if it is less than the debounce time.
Door Forced Alarm Class	drop-down list: Low, Medium, High, or Off.	Sets the priority for a forced door alarm by choosing an appropriate alarm class:. Off cancels alarm generation.
Door Held Open Alarm Class	drop-down list: Low, Medium, High, or Off.	Sets the priority by choosing an appropriate alarm class. Off cancels alarm generation.
Sensor Fault Alarm Class	drop-down list: Low, Medium, High, or Off.	Sets the priority for a sensor fault alarm by choosing the appropriate alarm class. Off cancels alarm generation.
Sensor Input	drop-down list	Designates the supervised input to use for the door sensor. Se- lect the associated check box to enable or deselect to dis- able the selected input.

Exit Request tab

This tab configures exit requests.

Figure 168 Exit Request tab

Readers	Strike	Sensor	Exit Request			
Inactive S	tate		Open 🗸			
Status			Inactive {faul	t,alarm,unad	ckedAlarm} CUT	Γ
Inhibit Sei	nsor		false {ok}			
Enabled So	chedule		None			»
Unlock On	Exit Red	quest	No 🗸			
Exit Reque	est Fault	Alarm Cla	ass Medium	- × 🖪	Video Setup	
Request-to	o-Exit In	put	Supervised D	igital Input	2 🗸	

Property	Value	Description
Inactive State	Open or Closed	Defines the normal inactive state for the designated input to match the exit request device that you are using. This setting matches the normally inactive state of the exit request device.
Status	read-only	Indicates the current state of the sensor (Active or Inac- tive), and its status {ok}, or other possibilities.
Inhibit Sensor	read-only true or false	Indicates what happens to a door-forced-open alarm during an exit request.
		true indicates that the door-forced-open alarm stays inhibited during an exit request. This is only possible if Status is Ac- tive and Enabled Schedule is true. If either changes, In- hibit Sensor changes from true to false after a time that is equal to the Access Unlock Time.
		false indicates the door-forced-open alarm manifests during an exit request.

Property	Value	Description
Enabled Schedule	Ref Chooser	Selects the schedule to control the time of day when an Exit Request is enabled and (if Unlock on Exit Request is set to true) unlocks the door on exit. If no enabled schedule is se- lected (the Enabled Schedule property is set to None), the exit request is always enabled. Choose a schedule from the drop-down list to assign the schedule value to the input.
Unlock on Exit Request	yes or no (default)	Allows an exit request to unlock a door.
Exit Request Fault Alert Class	drop-down list: Low, Medium, High, or Off.	Sets the desired priority for an exit request fault alert by choosing the appropriate alarm class: Low, Medium, High, or Off. The Off setting cancels any alarm generation.
Request-To-Exit Input	check box	Designates the supervised input used for the request to exit sensor. Select the associated check box to enable or deselect to disable the selected input.

Alarm Relay tab

Each door may have one or more alarm relay devices assigned to it. This allows you to choose an alarm extension assignment on a door rather than a control point, as you would do with a Relay Out. The properties for this device are the same as the Relay Out.

Override Input

Each door may have one or more additional override inputs assigned. A separate tab opens for each override input that is added.

Property	Value	Description	
Status	read-only	Reports the status of the override input.	
Relay In	Ref Chooser	Assigns the relay input source. The system automatically populates the Ref Chooser.	

Property	Value	Description	
Owner	text	Provides a unique name for the source of the override.	
Override Type	drop-down list	Defines the type of override.	
		Use Access Unlock Time causes the manual override to use the time defined by Access Unlock Time, under the Reader Setup section of the Hardware Module Setup view.	
		Quick Open unlocks the door momentarily and relocks it, al- lowing just enough time for someone standing at the door to open it.	
		Pick Time provides minute and second properties to specify a time for the door to remain unlocked.	
		Open Door Once unlocks the door and leaves it unlocked until you click the Manual Override button a second time and con- firm that you want to cancel the manual override.	
		Pick Lock Time specifies a time (in minutes and seconds) to temporarily lock a door that is currently unlocked by an as- signed schedule setting. When this override option is invoked, the door remains locked until the configured override time ex- pires or until you click the Manual Override button a second time and confirm that you want to cancel the manual override.	

ADA tab

If a door has an ADA (Americans with Disabilities Act) component, then an ADA tab is provided.

This tab provides these configurable or display-only properties.

Property	Value	Description	
Inactive State	Open or Closed	Match the normally inactive state of the ADA device.	
Status	read-only	Indicates the current state of the ADA component.	
Inhibit Sensor	read-only true or false	Indicates if the door-forced-open alarm stays inhibited during an exit request. This property value can be true only if the Status is active and Enabled Schedule is set to true. If ei- ther of these values changes, Inhibit Sensor changes from true to false after a time that is equal to the Access Un- lock Time.	
Unlock on Exit Request	true or false	Configures an exit request to unlock a door. true unlocks the door and powers the ADA output for the ADA Output time. false, configures the ADA device to work only when the door is already unlocked.	
Enabled Schedule	drop-down list (de- faults to None)	Configures the time of day to enable the ADA functionality. For this to work, the door strike must be unlocked and the schedule must be true. You assign a schedule to the input from the drop-down list.	
		When set to None, ADA functionality is enabled when the door strike is unlocked either by access card swipe or an unlock schedule assigned to the strike. When selected, this schedule adds additional control.	
ADA Output	drop-down lists	Defines the relay output to control the ADA device.	

Property	Value	Description	
ADA Output Time	minutes and seconds)	Defines the length of time that the ADA output signal remains active (to power the ADA device). Values are only used when Auto Relock option is set to Unlock Time .	
Exit Request Fault Alarm Class	drop-down list	Sets the desired priority for an exit request fault by choosing an appropriate alarm class: Low, Medium, High, or Off (can- cels any alarm generation).	
ADA Input	check box	Uses an option list to designate the supervised input that is used for the activated the ADA device. Select the associated check box to enable or deselect it to disable the selected input.	

Relay Out tab

Each door may have one or more additional output relay devices assigned. This tab opens for each output relay device that is added.

Property	Value	Description	
Status	read-only	Reports the status of the relay out.	
Relay Out	Ref Chooser	Defines which output this relay is connected to by choosing an output (for example, a Strike) from the Ref Chooser window. The system automatically populates this window with the avail- able inputs.	
Assignment	Ref Chooser	Defines which input this relay is connected to by choosing an input from the window. This window is automatically populated with the available inputs.	
Relay Туре	drop-down list	Defines how the relay out behaves relative to the assigned in- put. You can toggle relay settings on and off or the relay may be out of phase (inverse) with the assigned input.	
		Follow matches the state of the assigned input.	
		Inverse selects the relay out status that is the opposite of the assigned input state.	
		Toggle on active changes the relay from its current state when the assigned input state changes to active.	
		Toggle on inactive changes the relay from its current state when the assigned input state changes to inactive.	

Reader configuration options

The **Reader** Config property has five options. This table lists the options and describes how they may be used, depending on whether the reader is assigned to an intrusion zone or to an access device, such as a door, elevator, or floor.

Option:	Assigned to:	What you do:	What the system does:
Reader Only	Access Point	Enter Credential by card swipe for badge validation.	Checks credential number to authorize or deny access.

Option:	Assigned to:	What you do:	What the system does:	
	Intrusion Zone	Enter Credential by card swipe for badge validation.	Checks credential number to authorize or deny arm or disarm of intrusion zone.	
Reader Plus Keypad	Access Point	Enter Credential by card swipe and PIN by keypad for badge and PIN validation.	Checks both the credential number and the Person PIN to authorize or deny access.	
	Intrusion Zone	Enter Credential by card swipe AND Person PIN by keypad for badge and PIN validation.	Checks both the credential number and the Person PIN to authorize or deny arm or disarm of the intrusion zone.	
Reader or Access Point Keypad		Enter Credential by card swipe or by keypad entry. Complete credential number is required, including any leading zeros. You may create a custom format to use a shorter, more user- friendly credential here.	Checks credential number to authorize or deny access. Personnel PINs are not UNIQUE, therefore are not used here for authorization. You must enter a complete credential number if you are using a Keypad option.	
	Intrusion Zone	Enter Credential by card swipe or keypad en- try. Complete credential number is required, including any leading zeros. You may create a custom format to use a shorter, more user- friendly credential here.	Checks credential number to authorize arm or disarm of the intrusion zone. Personnel PINs are not UNIQUE, therefore are not used here for authorization. You must enter a complete credential number if you are using a Keypad option.	
Reader or Intrusion Keypad	Access Point	Enter Credential by card swipe	Checks credential number to authorize access	
	Intrusion Zone	Enter Credential by card swipe or enter Intru- sion PIN at Intrusion Keypad	 If card swipe is used, it checks the credential number to authorize or deny access. If keypad is used, it checks the Intrusion PIN to authorize arm or disarm of intrusion zone. 	
Intrusion	Access Point	No access granted with this option	N/A	
кеурац	Intrusion Zone	Enter Intrusion PIN at Intrusion Keypad.	Checks Intrusion PIN for validation of arm or disarm.	

If you use a 16-bit Wiegand format, and want to allow access using only an entry (not intrusion) keypad, assign a more convenient credential number. You can then create a badge with this format and assign the badge to the person. You can assign more than one badge to a person.

Reader view, Summary tab

This view manages the reader associated with a specific door.

Figure 169 Reader view, summary tab

Summary	Reader	Activity Alert Exts	Output Configuration	
entSecurity801:Door 1.Reader 1				
@Mapped Ord: /Drivers/Access Network/Remote Reader Module1/points/Door 1/Reader 1				
Type:		Reader		
Reader Na	ame: Re	ader 1		
Assignme	nt: Do	or 1		
Station Na	ame: en	tSecurity801		
Status:	{ol	k}		
Enabled:	tru	e		
Reader Co	onfig: Re	ader Only		
Last Badg	e Read:			
Key Pad E	ntry:			
Time Atte	nd: No	ne		

You access this tab from the main menu by clicking **Controller (System) Setup→Remote Devices→Remote Modules→Remote Module Setup**, followed by double-clicking a module row in the table, clicking the Doors tab, clicking the hyperlink for a door, and clicking the hyperlink for the door's reader.

The Summary tab opens by default for this view. It displays a read-only list of all properties, including a link to the Edit Access Rights view for any associated access rights listed at the bottom of the summary.
The standard control buttons (Save and Door) are located under the view title.

NOTE: The reader input and output properties relate to the hardware wiring described in the appropriate *Hardware Mounting and Wiring Guides*.

Property	Description		
Mapped Ord	Locates the device in the station.		
Туре	Indicates the type of device.		
Reader Name	Indicates the name of the reader.		
Assignment	Indicates the door to which the reader is assigned.		
Station Name	Identifies the name of the controlling station.		
Status	Indicates the current status of the device.		
Enabled	Indicates if the device is enabled (true) or disabled (false)		
Reader Config	Indicates how the reader is configured: as "Reader Only," or "Read- er and Keypad," or other options that depend on the reader model. When configured to "Reader Only," only a badge swipe is required to gain access. If "Reader and Keypad," the person must swipe a badge and enter a PIN.		
Last Badge Read	Identifies the last badge the reader processed.		
Key Pad Entry	Indicates if the reader provides a keypad.		
Time Attend	Indicates when the last badge swipe at the reader occurred.		

Table 55 Sur	nmary properties
--------------	------------------

Reader Setup view, Reader tab

This tab provides reader properties.

Figure 170 Reader tab

Summary	Reader	Activity A	Alert Exte	GOUTPUT C	onfiguration			
Status			{ok}					
Enabled			true 🗸					
Reader Con	fig	[Reader C	nly	~			
Time Attend	I		None	\sim				
Assignment			Door 1					
Last Badge	Read							
Key Pad Ent	ry							
Threat Leve	l Group		🚹 Threa	t Level Group1	L	×	> 🗎	\otimes
Elevated Th	reat Leve	I [None	\sim				
Elevated Th	reat Read	er Config	Reader C	nly	\sim			

To access this view from the main menu click **Controller (System) Setup→Remote Devices→Remote Modules→Remote Module Setup**, followed by double-clicking a module row in the table, clicking the **Doors** tab, clicking the hyperlink for a door, clicking the hyperlink for the door's reader, and clicking the **Reader** tab.

Property	Value	Description
Status	read-only	Reports the condition of the entity or process at last polling.
		<pre>{ok} indicates that the entity is licensed and polling successfully.</pre>
		{down} indicates that the last poll was unsuccessful, perhaps because of an incorrect property.
		{disabled} indicates that the Enable property is set to false .
		{fault} indicates another problem.
		Depending on conditions, multiple status flags may be set in- cluding {fault} and {disabled}, combined with {down}, {alarm}, {stale}, and {unackedAlarm}.
Enabled	drop-down list; true or false	Turns the reader on and off.
Reader Config	drop-down list	Sets up the required hardware to validate an entry request, as well as a request to arm or disarm an intrusion zone.
Reader model (appears if Reader Config is set up for anything other than Reader Only).	drop-down list	Specifies the reader model: HID5355 or GE T-525/Essex KPT
Time Attend	drop-down list	Sets up the reader to provide a clock in or a clock out message at the time of a badge swipe. If the reader is not used for time and attendance records, choose the None option.
Assignment	read-only	Identifies the name of the door to which the reader is assigned.
Last Badge Read	read-only	Displays badge (credential) number of the last badge swiped at this if reader.
Key Pad Entry	hidden, read-only	Displays the most recent PIN entered at the reader key pad. For security reasons, the value of this property is hidden (blank).
		While testing during reader configuration, an admin user can view this PIN by disabling the reader (badge validation ceases), and disabling the hide attribute (exposing) this property on the Workbench slot sheet.
		After reader configuration is complete, the admin user must hide this property again and enable the reader. Otherwise, it will not scan badges.
Threat Level Group	Ref Chooser	Assigns a threat level group to the reader.

Property	Value	Description
Elevated Threat Level (appears when you assign a Threat Level Group to the reader.)	drop-down list (de- faults to None)	Defines a threat level for changing the reader configuration. The default ignores any active threat level changes.
Elevated Threat Reader Config (ap- pears when you as- sign a Threat Level Group to the reader.)	drop-down list	Specifies a reader configuration to enable when the active threat level matches or exceeds the Elevated Threat Level.

Activity Alert Exts tab

This tab provides a set of properties for configuring alarm priority. You can also setup video and enable or disable logging for these alarms.

Figure 171	Activity Alert Exts tab
------------	-------------------------

Summary	Reader	Activity Alert Exts	Output (Configuration			
Badge Does	Not Exist	Alert A	larm Class	Medium	\checkmark	🚯 Video Setup	✓Enable Logging
Badge Is Lo	st Alert	А	larm Class	Medium	\checkmark	🚯 Video Setup	✓Enable Logging
Badge Is Di	sabled Ale	ert A	larm Class	Medium	\checkmark	🚯 Video Setup	✓Enable Logging
Badge Not A	Assigned A	Alert A	larm Class	Medium	\checkmark	🚯 Video Setup	✓Enable Logging
No Active So	chedule A	lert A	larm Class	Medium	\checkmark	🚯 Video Setup	✓Enable Logging
No Access R	ight Alert	. A	larm Class	Medium	\checkmark	🚯 Video Setup	✓Enable Logging
Granted But	t Not Used	i Alert A	larm Class	Medium	\checkmark	🚯 Video Setup	✓Enable Logging
Invalid Pin I	Number A	lert A	larm Class	Medium	\checkmark	🚯 Video Setup	✓Enable Logging
Connection	Problem /	Alert A	larm Class	Medium	\checkmark	🚯 Video Setup	✓Enable Logging
Granted But	t Connecti	ion Problem Alert A	larm Class	Medium	\checkmark	🚯 Video Setup	✓Enable Logging
Validation T	imeout A	lert A	larm Class	Medium	\checkmark	🚯 Video Setup	✓Enable Logging
Trace Card /	Alert	А	larm Class	Medium	\checkmark	🚯 Video Setup	✓Enable Logging
Inactive Th	reat Level	Group Alert A	larm Class	Medium	\checkmark	🚯 Video Setup	✓Enable Logging

To access this view from the main menu click **Controller (System) Setup→Remote Devices→Remote Mod**ules→Remote Module Setup, followed by double-clicking a module row in the table, clicking the Doors tab, clicking the hyperlink for a door, clicking the hyperlink for the door's reader, and clicking the Activity Alert Exts tab.

The properties you can configure are documented in the topic titled Add New Access Zone view.

Output Configuration tab

The contents of this tab depends on the actual outputs that are physically connected to the reader.

Figure 172 Example of an Output Configuration tab

Summary	Reader	Activity Ale	rt Exts	Output Cor	nfiguration
● <u>Green</u> Valid Green Green Inact	ive State		Unlock 1 Open	Time 🗸	
● <u>Red</u> Invalid Red Red Inactiv	e State		Unlock 1 Open	Time V	
Beeper					
Valid Beepe	r		Inactive	~	
Invalid Bee	per		Inactive	~	
Beeper Inac	tive State	2	Open `	 Image: A set of the set of the	
Beeper on D	oor Held	Open Alarm	Inactive	~]

To access this view from the main menu click **Controller (System) Setup→Remote Devices→Remote Modules→Remote Module Setup**, followed by double-clicking a module row in the table, clicking the **Doors** tab, clicking the hyperlink for a door, clicking the hyperlink for the door's reader, and clicking the **Output Configuration** tab.

In the example the red LED, green LED, and beeper are connected to the reader interface. The hyperlinked headings open additional views.

Best Practice: Configure all readers in the building to function in exactly the same way regardless of the type of door lock. Otherwise, occupants will always be trying to figure out what the lights mean.

Property	Value	Description
Valid Green	drop-down list	Specifies how the green LED displays when an access granted signal is received.
		Inactive leaves the current state of the green LED un- changed when the reader receives an access granted input.
		Unlock Time activates the reader's green LED for the amount of time defined by the Unlock Time.
		Follow Strike State changes the state of the reader's green LED based upon the state (locked or unlocked) of the designated door strike. This is not a good choice for an invalid condition because nothing changes state when a request is invalid.
		Custom Time activates the reader's green LED for the amount of time you designate in the associated Seconds property.
		Burst activates the reader's green LED in a pattern you define using the associated On, Off, and Burst properties.
Green Inactive State	open or closed	Defines what an inactive green LED means in relationship to the state of the door strike. Use this property to configure this inactive state to match your actual hardware requirements.
		open configures what inactive means when the door strike is open.
		closed configures what inactive means when the door strike is closed.
Invalid Red	drop-down list	Specifies how the red LED displays when an access denied sig- nal is received.

Property	Value	Description
		Inactive leaves the current state of the red LED unchanged when the reader receives an access granted input.
		Unlock Time activates the reader's red LED for the amount of time defined by the Unlock Time.
		Follow Strike State changes the state of the reader's red LED based upon the state (locked or unlocked) of the desig- nated door strike. This is not a good choice for an invalid con- dition because nothing changes state when a request is invalid.
		Custom Time activates the reader's red LED for the amount of time you designate in the associated Seconds property.
		Burst activates the reader's red LED in a pattern you define using the associated On, Off, and Burst properties.
		The Follow Strike State option is not a valid choice for the Invalid Red property because the Strike does not change state for an invalid credential.
Red Inactive State	open or closed	Defines what an inactive red LED means in relationship to the state of the door strike. Use this property to configure this in- active state to match your actual hardware requirements.
		open configures what inactive means when the door strike is open.
		closed configures what inactive means when the door strike is closed.
Valid Beeper	drop-down list	A valid beeper is a sound that provides an audible signal when an access granted message is received. This option list speci- fies how the beeper sounds when an access granted signal is received.
		Inactive leaves the current state of the beeper unchanged when the reader receives an access granted input.
		Unlock Time sounds the reader's beeper for the amount of time defined by the Unlock Time.
		Follow Strike State changes the state of the reader's beeper based upon the state (locked or unlocked) of the des- ignated door strike. This is not a good choice for an invalid condition because nothing changes state when a request is invalid.
		Custom Time sounds the reader's beeper for the amount of time you designate in the associated Secondsproperty.
		Burst sounds the reader's beeper in a pattern you define us- ing the associated On, Off, and Burst properties.
Invalid Beep	drop-down list	An invalid beeper is a sound that provides an audible signal when an access denied message is received. This option list specifies how the beeper sounds when an access denied signal is received.
		Inactive leaves the current state of the beeper unchanged when the reader receives an access granted input.

Property	Value	Description
		Unlock Time sounds the reader's beeper for the amount of time defined by the Unlock Time.
		Follow Strike State changes the state of the reader's beeper based upon the state (locked or unlocked) of the des- ignated door strike. This is not a good choice for an invalid condition because nothing changes state when a request is invalid.
		Custom Time sounds the reader's beeper for the amount of time you designate in the associated Secondsproperty.
		Burst sounds the reader's beeper in a pattern you define us- ing the associated On, Off, and Burst properties.
Beeper Inactive State	open or closed	Identifies the state of the output that does not activate the beeper.
		open configures what inactive means when the door strike is open.
		$\verb"closed" configures" what inactive means when the door strike is closed.$
Beeper on Door Held Open Alarm	drop-down list	Activates and configures the beep sound associated with a door-held-open alarm.
		Inactive disables the beep sound.
		Warning only provides a beep that precedes the actual alarm condition by the number of seconds specified by Warning Time. For example, if Door Held Open Limit is 60 seconds, 30 seconds after the door opens the warning beep sounds and stops either when the door closes or when the door sensor goes into an alarm condition.
		Continuous provides a warning-time beep, however, at the end of the Warning Time, the beep continues to sound until either the door closes or the Maximum Continuation Time is reached. You specify this time in minutes and seconds using the Max Continuation text box.
Intrusion Beep	true or false	Provides an intrusion zone beep.
(visible only when the reader is as- signed to an intru- sion zone)		This property replaces Beeper on Door Held Open Alarm when a reader is assigned to an intrusion zone. Also, some properties are not available for editing and appear dimmed (read-only).
		true enables the intrusion beep.
		false disables the intrusion beep.

Alarm Relay tab

Each input may have one or more alarm relay devices assigned to it. This allows you to choose an alarm extension assignment on an input, as you would do with a Relay Out.

Properties

Property	Value	Description
Status	read-only	Reports the condition of the entity or process at last polling.
		<pre>{ok} indicates that the entity is licensed and polling successfully.</pre>
		{down} indicates that the last poll was unsuccessful, perhaps because of an incorrect property.
		{disabled} indicates that the Enable property is set to false .
		{fault} indicates another problem.
		Depending on conditions, multiple status flags may be set in- cluding {fault} and {disabled}, combined with {down}, {alarm}, {stale}, and {unackedAlarm}.
Relay Out	Ref Chooser	Defines which output this relay is connected to. The system au- tomatically populates the Ref Chooser with the available outputs.
Assignment	Ref Chooser	Defines which input this relay is connected to. The system au- tomatically populates the Ref Chooser with the available inputs.
Relay Type	drop-down list	Defines how the relay out behaves relative to the assigned in- put. You can toggle relay settings on and off or the relay may be out of phase (inverse) with the assigned input.
		Follow matches the state of the assigned input.
		Inverse selects the relay out status that is the opposite of the assigned input state.
		Toggle on active changes the relay from its current state when the assigned input state changes to active.
		Toggle on inactive changes the relay from its current state when the assigned input state changes to inactive.
Inverse		Sets the relay out state to the opposite of the assigned input state.
Toggle On Active		Changes the relay out status from its current state when the assigned input state changes to inactive.

Elevators Setup view, Elevator tab

For an elevator, you configure one relay output for each floor. This relay is typically in the elevator control room (use an RIO module) and is wired in series with the floor buttons in the elevator car. When the elevator reader is assigned to an access right, you select the floors associated with that access right. The person with that access right presents a badge. The relays for the floor(s) they can access come on for a few seconds so they can make their selection. You may assign a schedule to individual floors such that during daytime hours, the floor can be enabled automatically.

Figure 173 Elevator tab

() Help 💄	Logout
Threat Controller Setup	Levels
📄 Schedules 👗 User Management 🚯 Backups 💣 Remote Devices 💣 Access Setup	💣 Intr
🔚 Save 🖉 Manage Devices 🔯 Base Reader Module 🙆 Elevators 🗐 Schedule Floor	rs
Elevator Floors	
Floor Enabled Time 00 m 05 .000 s [0ms - 59mins]	
Floor Selected Input None None None	

The Elevator Setup view opens when you click on a listed elevator link on the Elevators tab under the Module Setup view. The elevator name appears in the view title, above the control buttons.

Properties

Property	Value	Description
Floor Enabled Time	minutes, milliseconds	Sets the amount of time that the elevator floor button is active after access is granted to the floor.
Floor Selected Input	additional properties	If the elevator system provides a floor-selected feedback, these properties activate and specify a module and an input for receiving that data. Refer to Buttons, page 188 (the next section).

Elevator Ref Chooser

This window lists the available input points. Using it you select a point to associate with the elevator and click **Ok**.

Ref Chooser					
		Page 1 of 2 Page Size 10			
Display Name ∧	Out	To Display Path String			
Di1	false {ok}	/Drivers/Access Network/Remote Reader Module1/points/di1			
Di1	false {fault,stale}	/Drivers/Access Network/Input/Output Module/points/di1			
Di1	false {fault,stale}	/Drivers/Access Network/Base Reader Module/points/di1			
Di2	false {fault,stale}	/Drivers/Access Network/Base Reader Module/points/di2			
Di2	false {ok}	/Drivers/Access Network/Remote Reader Module1/points/di2			
Di2	false {fault,stale}	/Drivers/Access Network/Input/Output Module/points/di2			
Di3	false {fault,stale}	/Drivers/Access Network/Base Reader Module/points/di3			
Sdi1	false {disabled,fault,stale}	/Drivers/Access Network/Input/Output Module/points/sdi1			
Sdi2	false {disabled,fault,stale}	/Drivers/Access Network/Input/Output Module/points/sdi2			
Sdi3	false {disabled,fault,stale}	/Drivers/Access Network/Input/Output Module/points/sdi3			
		Ok Cancel			

Figure 174 Elevator Ref Chooser

Buttons

In addition to the standard Export, Filter and page navigation buttons, the Assign button (()) associates the input point with the elevator.

Columns

Column	Description
Display Name	Reports the name of the input point.
Out	Indicates true if the associated output point is enabled, and indicates in pa- rentheses the current state of the input point.
To Display Path String	Reports the path to the location of the point in the station.

Schedule Floors window

This window

Figure 175	Schedule Floors window
------------	------------------------

Schedule Floors	
Schedule 📰 None	
Floors 🛄 None	»
Ok Cancel	

You access this view from the main menu by clicking **Controller Setup**→**Remote Devices**→**Remote Modules**→**Remote Module Setup**, creating a new device or double-clicking the base reader module in the table, clicking the **Elevators** tab, clicking the Elevator link, and clicking the **Schedule Floors** link.

Property	Value	Description
Schedule	Ref Chooser	Opens the Schedule Ref Chooser.
Floors	Ord Chooser	Opens the Floors Ord Chooser. Refer to the next topic.

Floor Ord Chooser

This window configures the floor associated with the current elevator.

Figure 176 Floor Ord Chooser

Ord Chooser		
None		
0 0 1	۶) 🕎	
Display Name 🙏	Out	To Display Path String
Floor	false {ok}	/Drivers/Access Network/Base Reader Module/p
<		>
	Ok	Cancel

You access this view from the main menu by clicking **Controller Setup→Remote Devices→Remote Modu**les→Remote Module Setup, creating a new device or double-clicking the base reader module in the table, clicking the **Elevators** tab, clicking the Elevator link, clicking the **Schedule Floors** link, and clicking the chevron to the right of the **Floors** property.

Buttons

In addition to the standard buttons, Summary and Filter, this window provides these specific buttons:

- ORD with the current elevator.
- 🥥 Unassign disassociates the ORD with the current elevator.
- 🕒 Assign All associates all selected floors with the currently elevator.

Floors tab

This tab lists all the floors that are assigned to the elevator, with each floor having scheduling-related properties. Use the **Manage Devices** button and the associated window to add floors to the Elevator device in this view. The fields next to each floor allow you to assign a schedule to the floor and link a floor to a relay output using the Ref Chooser window. Click the >> icon to open the Ref Chooser window to add a relay. You can also remove a floor device by clicking the Delete icon ([©]).

Figure 177 Floors tab

Elevator	Floors					
Floorfalse	lah 🔜 🗖	oolean Schedule [Denied]	 🗌 og Schedule Activity 🖱	Base Reader Module Ro3	»	0

Property	Value	Description
Floor	read-only, false or true	Reports if a floor associated with this elevator is enabled, and the current status of the controlling point.
Schedule	Ref Chooser	Opens a list of schedules for managing floor access. Refer to Buttons, page 190.
Log Schedule Activity	check box (default is not selected)	Sets up the creation of a record any time a schedule controls activity at this elevator. When selected, any schedule control occurring at this elevator is recorded and may be displayed in the Access History report. When cleared, schedule activity is not recorded.
Schedule	Ref Chooser	Opens a list of log schedules. Refer to Columns, page 192.
Floor Selected Input	text	If the elevator system provides floor-selected feedback, this property activates and specifies a module and an input for receiving that data.

NOTE: Floors are elevator devices.

Schedule floors Ref Chooser

This Ref chooser opens on the Floors tab when you click the chevron to the right of the **Floor** property, and when you click the **Schedule Floors** link.

Figure 178 Schedule Ref Chooser

F	Ref Chooser							
)						
	Display Name ∧	Usage	Status	Out Source	Out	Next Time	Next Value	То
	Boolean Schedule	Access Right	{ok}	Default Output	false {ok}	13-Oct-18 12:00 AM EDT	false {ok}	/Se
	<					_		>
				Ok Car	ncel			

Buttons

In addition to the standard Export, Filter and page navigation buttons, the Assign button (()) associates the schedule with the elevator.

Columns

Column	Description
Display Name	Reports the name of the schedule.
Usage	Reports the purpose of the schedule.
Status	Reports the current condition of the entity as of the last refresh: {alarm}, {dis- abled}, {down}, {fault}, {ok}, {stale}, {unackedAlarm}
Out Source	Identifies the source of the output.
Out	Reports if the output source is ok or in fault.
Next Time	Indicates when the next event is scheduled.
Next Value	Reports a true or false value.
To Display Path String	Identifies where in the station the schedule is located.

Schedule log Ref Chooser

Figure 179	Schedule log Ref Chooser
------------	--------------------------

Ref	Ref Chooser				
(P	age 1 of 2 Page Size 10
	Display Name ∧	Out	In10	In16	To Display Path String
	Ro1	false {disabled,fault,stale} @ 16	- {null}	false {ok}	/Drivers/Access Network/Input/Output Module/points/
	Ro2	false {disabled,fault,stale} @ def	- {null}	- {null}	/Drivers/Access Network/Input/Output Module/points/
	Ro3	false {disabled,fault,stale} @ def	- {null}	- {null}	/Drivers/Access Network/Base Reader Module/points/i
	Ro3	false {disabled,fault,stale} @ def	- {null}	- {null}	/Drivers/Access Network/Input/Output Module/points/
	Ro4	false {disabled,fault,stale} @ def	- {null}	- {null}	/Drivers/Access Network/Base Reader Module/points/i
	Ro4	false {disabled,fault,stale} @ def	- {null}	- {null}	/Drivers/Access Network/Input/Output Module/points/
	Ro5	false {disabled,fault,stale} @ def	- {null}	- {null}	/Drivers/Access Network/Input/Output Module/points/
	Ro6	false {disabled,fault,stale} @ def	- {null}	- {null}	/Drivers/Access Network/Input/Output Module/points/
	Ro7	false {disabled,fault,stale} @ def	- {null}	- {null}	/Drivers/Access Network/Input/Output Module/points/
	Ro8	false {disabled,fault,stale} @ def	- {null}	- {null}	/Drivers/Access Network/Input/Output Module/points/
	<				>
			Ok Can	icel	

Buttons

In addition to the standard Export, Filter and page navigation buttons, the Assign button (③) associates the log schedule with the elevator.

Columns

Column	Description
Display Name	Reports the name of the schedule.
Out	Reports if the output source is ok or in fault.
In10	Reports if the first input point is ok or in fault.
In16	Reports if the last input point is ok or in fault.
To Display Path String	Identifies where in the station the schedule is located.

Floor Ord Chooser

Figure 180 Floor Ord Chooser

Ord Chooser		
None		
0 0 1	Þ 👻	
Display Name 🙏	Out	To Display Path String
Floor	false {ok}	/Drivers/Access Network/Base Reader Module/p
<		>
	Ok	Cancel

This chooser defines the path to the floor in the database.

Readers tab

This tab lists all the readers that are assigned to the elevator. Use the Manage Devices button and the associated window to add readers to the Elevator.

Burglar Panel view

Arms and disarms a third-party burglar alarm panel.

Figure 181 E	Burglar Panel view		
Burglar Panel			
Out Enabled Relav Pulse Time	Inactive {ok} $true \checkmark$ 00 m 05 s [0ms - 1min]		
Arming In	© ■ None ≫		
Panel Arm Status	None >>		
Panel Arm Relay	None >>		
Alarm Delay	01 m 00 s [0ms - 5mins]		
Burglar Panel Misi	natch Alarm Class Medium 💙 🚯 Video Setup		

To access this view, click on a burglar panel link 🖾 that is listed in the Burglar Panels tab under the Module Setup view. The burglar panel display name appears at the top of the view. The following control buttons display above the Burglar Panel tab.

- Save is available when there are unsaved changes in the view. Click the button to save changes.
- Base Reader Module button links to the Module Setup view.

Property	Value	Description	
Out	read-only	Reports the current Panel Arm Relay Out state and status. The Arming In property controls the state, which is triggered only when the Arming In property value changes and the new value does not match the Panel Arm Status value.	
Enabled	true and false	Turns the feature on (true) and off (false).	
Relay Pulse Time	up to 1 minute maximum	Sets the time for the assigned relay output pulse to attempt to change the burglar alarm panel status.	
Arming In	Ref Chooser (de- faults to none)	Defines how to arm the panel. Schedule arming arms the burglar panel by assigning a schedule using this property. Intrusion Zone arming arms the burglar panel by assigning an access zone to the property.	
Panel Arm Status	Ref Chooser	Assigns the status input for the burglar panel. The value of this input indicates the actual status of the burglar alarm. the system compares it to the Arming In property value to detect a match or mismatch condition.	
Panel Arm Relay	Ref Chooser	Assigns the arming relay for the burglar panel. This relay mo- mentarily energizes (for the Relay Pulse Time) the panel in an attempt to change the burglar alarm status to match the Arm- ing In value.	
Alarm Delay	minutes and sec- onds (defaults to one minute)	Defines a minimum amount of time to wait if a mismatch exists between the Arming In and Panel Arm Status. For exam- ple, when a Arming In value changes and a mismatch is de- tected, an alarm is generated only after the Alarm Delay time is exceeded.	
Burglar panel Mis- match Alarm Class	drop-down list	Defines the alarm class to use for alarms generated as the re- sult of a mismatch between Arming In and Panel Arm Status .	

Edit Unlock Input view

Unlock Input is a device option that uses an input (DI or SDI) to override a locked state on a door strike. When active, the door remains unlocked and the system inhibits door forced alarms until the input returns to an inactive state.

Figure 182 Unlock Input view



You access this view by clicking **Controller Setup**→**Remote Devices**→**Remote Drivers**, double-clicking the Access Network row in the table, double-clicking a base or remote reader row, clicking the **Manage Devices** link, followed by clicking Add, selecting Unlock Input, clicking Ok twice, clicking the Unlock Inputs tab, and clicking an Unlock Input hyperlink.

When you add this option to your base or remote reader module, using the Manage Devices window, the Unlock Inputs tab appears in the Modules view. You can have one or more Unlock Inputs listed on the Unlock Inputs tab.

Property	Value	Description
Input Source	additional properties	Opens a Ref Chooser for identifying the input source. When this source is active, the lock state of the assigned strike is overridden.
Unlock State	read-only	Displays the current state of the assigned strike (Locked or Unlocked).
Requires Applica- tion Reset	true (default) or false	Determines how the unlock state responds to a change of state in the assigned input source.
		true prevents an unlock input override change until you click the Manual Reset button.
		false clears the unlock input override when the input source value changes to false or inactive. The Manual Reset and Fol-low Input on Reset buttons do not apply and do not appear in the view.
Follow Input On Reset	true (default) or false	If Requires Application Reset is true, this property is visible and causes the unlock input state to follow the unlock input as it transitions from one state to the other, for example: true to false, and back to true. When an application reset is not required, this property is not applicable.

Edit Power Monitor view

This view sets up an alarm notification to alert you when your controller has both a main power failure and low UPS battery power.

NOTE: To use this feature the configuration must meet these requirements: It must have a Boolean status output from a source that indicates primary power status, and a source that indicates UPS low-battery status. You may wire these outputs to a remote reader module's Di1 and Di2 inputs respectively. The system must discover and add the remote reader module to the station database using the **Access Device Manager** – **Database** (Remote Module Setup) view.

For this type of alarm to occur, these conditions must exist concurrently, although they do not need to be initiated simultaneously. For example, you may have a low power status on your UPS battery, but the system does not generate the power monitor alarm unless a primary power failure occurs at the same time. Similarly, the system does not generate an alarm if primary power fails as long as the UPS battery power is at a normal power state.

Remote Module Network Identification view

This view lists all the modules, doors, card readers (base board readers and remote readers) contained in the Network ID database, shows the current status of each, provides links to the views used to configure each device, and provides buttons with which to confirm the connection to each device.

Figure 183 Network Identification view

Fade Rate			
Remote Reader	🔜 Remote Reader Module:	1 🗉 \{ok}	O Wink Device
Door 1	Door 1	[] {fault,alarm,unackedAlarm} Locked Closed	
Reader 1	🗍 Reader 1	[] {ok}	😑 Output Test
Door 2	Door 2	[] {fault,alarm,unackedAlarm} Locked Closed	
Reader 2	🗍 Reader 2	[] {ok}	😑 Output Test
Base Board Reader	🔜 Base Reader Module	🗊 \{fault}	O Wink Device
Door 1	Door 1	[] {fault,stale} Locked Opened	
Reader 1	🗍 Reader 1	□ {ok}	📼 Output Test
Door 2	Door 2	[] {fault,stale} Locked Opened	
Reader 2	🗂 Reader 2	[] {ok}	😑 Output Test
Elevator 1	H Elevator	🗉 {fault}	
Remote Input Output	🔜 Input/Output Module	🗊 {fault}	O Wink Device

You access this view by clicking **Controller Setup→Remote Devices→Remote Modules→Remote Module** Identification.

Buttons

At the top of the view, below the title, and to the right of the properties are these buttons:

The screen capture provides an example of one Base Board Reader module (with one reader (Reader 1), and two remote readers, one with a single reader and the other with two readers (Reader 1 and Reader 2). A Remote I/O module is listed at the bottom of the view.

- Fade Rate opens the Fade Rate window with which to define how quickly the color of each property in the status column changes when a device status changes.
- **Refresh** manually updates the data displayed in the table.
- Wink Device sends a message to the device.
- Output Test

Columns

Clicking any of the device icons opens the view for that specific device.

Table 56 Network Identification columns

Column	Description
Device Туре	The first column identifies the type of device (reader module, door or read- er). A base reader module is connected to the local controller. A remote reader module is connected to a peer controller.
Icon: Base Reader Module (🖃) Door (📃) Reader (🗐)	Next to the device type is an hyperlinked icon. Clicking this icon opens the device view for the selected device.
Device Description	The second column is an editable description you can customize for each device.
Rename icon ()	Provides a way to customize the device description.
Status column	This column displays information about the module, door and reader, includ- ing enabled/disabled status, strike position, alarm information, and more.

Column	Description
Wink Device button	This button opens the Wink Device window, which allows you to configure the length of the wink. The Wink Device button's color changes to red while winking is in progress, then back to blue when the wink completes.
Output Test button	This button activates a reader output (for example, a reader light or beep sound) and opens the Output Test window, which allows you to configure the type of output and the length of time for the test.

Fade Rate window

This window defines how quickly the color of each field in the status column changes when a device status changes.





You access this view by clicking **Controller Setup→Remote Devices→Remote Modules→Remote Module** Identification, followed by clicking the Fade Rate button.

Option	Description
Permanent	Indicates that once the status changes, the color changes and never fades. You may use this to keep track of which points you have tested.
Slow	The color changes slowly.
Normal	The color changes at some medium speed.
Fast	The color changes quickly.

Wink Device window

This view configures how long a device wink lasts.

Figure 185 Wink Device window

Wink Device
Wink Duration 00 m 10 s [0ms - 59mins]
Ok Cancel

You access this view by clicking **Controller Setup→Remote Devices→Remote Modules→Remote Module** Identification, followed by clicking the **Wink Device** button.

The length of a wink is defined in minutes and seconds.

Output Test window

This window configures the output test.

Figure 186 Output Test window

Output Test	
Output green 💌	
Duration custom	
01 m 12 s [0ms - 59mins]	
Ok Cancel	

You access this view by clicking **Controller Setup→Remote Devices→Remote Modules→Remote Module** Identification, followed by clicking the **Output Test** button to the right of a device row.

Property	Value	Description
Output	drop-down list	Selects one of two colors to use or a beep.
Duration	minutes and seconds	Defines the meaning of each general duration term.

Access Network view and tab

This view displays values that apply to all devices assigned to the access network.

Figure 187 A	cces	is l	Vet	W	ork v	iew
ave Save						
Access Network						
Status	{ok}					
Fault Cause						
Enabled	false	~				
Health	Ok [23	-Au	g-18	3:	37 AM I	EDT]
Validation Timeout	00	m	10		s [1sec	- 59mins]
Show Results Time	00	m	02		s [1sec	- 10mins]
Keypad Entry Time	00	m	10		.000	s [0ms - 59mins]
Cut Value	2.75			٧		
Open Value	1.65			۷		
Closed Value	0.55			٧		
Alarm Source Info	Alarm S	Sou	rce I	nfo) >>	

This view opens when you click **Controller Setup→Remote Devices→Remote Modules** the **Access Network Setup** menu item under the.

Clicking the Save button applies any changes.

Properties

In addition to the standard properties (Status, Enabled, Fault Cause, and Health), these properties support access networks.

Property	Value	Description
Validation Timeout	minutes and seconds	Defines the maximum time allowed to receive a badge valida- tion. If validation fails to occur within this time, the system may generate a validation-timeout-expired alarm.
		NOTE: A validation timeout alarm may be caused if a valida- tion cache fault occurs, or if the cache is still initializing.
Show Results Time	minutes and seconds	Defines the time that the (normally false) valid or invalid sta- tus remains true after a card is swiped.

Property	Value	Description
Keypad Entry Time	minutes and seconds	Specifies a maximum amount of time after a badge swipe that is allowed before keypad entry must be completed.
Cut Value	voltage (V)	Defines a value for the cut voltage parameter on the network.
Open Value	voltage (V)	Defines a value for the open voltage parameter on the network.
Closed Value	voltage (V)	Defines a value for the closed voltage parameter on the network.
Alarm Source Info	Ref Chooser	Expands to display alarm class properties, which are docu- mented in the "System Setup-Alarm Setup" chapter.

Manual Override window

This window configures manual override properties for alarms.

Figure 188 Manual Override window

Manual Override		
Value		
Duration	Permanent 🗸	
Ok	Cancel	

Property	Value	Description
Value	On (default) and Off	Enables and disables the ability to manually override an alarm.
Duration	drop-down list	Configures how long the Value property is in force.

Niagara Integration IDs view

This ID specifies a physically-defined space that indicates where a tenant cardholder resides in a facility. The ID may be passed to the building automation system by BACnet, for example, so that when the system grants access to the facility, it automatically adjusts the appropriate lighting, HVAC, and other controls for the specific person.

This view displays a tabular list of all existing Niagara Integration IDs.

Figure 189 Niagara Integration ID view



To access this view from the main menu of a remote station, click **Controller Setup→Remote Devices→Nia**gara Integration IDs.

Buttons

In addition to the standard buttons (Summary, Delete, Filter, Column Chooser, Refresh, Manage Reports and Export), these buttons provide specific integration ID features:

- O Add opens the Add New Niagara Integration ID view.
- We Hyperlink links to the edit view or window for the selected item. It is the same as double-clicking the table row. This button is available when a single record is selected.
- Duick Edit opens the **Quick Edit** window for the selected item(s). This feature allows you to edit one or more records without having to leave the current view.

Property	Value	Description
Integration Name	text	Provides a descriptive title for the integration ID.
Integration ID	integer	Serves as the integration ID number.
Tenant Name	Ref Chooser	Assigns the tenant to the ID, who is considered to be the own- er of the access right and is the only tenant that can edit the access right.
		NOTE: Only one tenant is assigned to a Niagara integration ID.

Add New (or edit) Niagara Integration ID view and tab

This tab adds a new integration ID.

Figure 190 Niagara Integration ID tab

🔚 Save 🔯 Niagara Integration IDs				
Niagara Integration ID Access Rights				
1				
🕒 None		:	»	
		~		
		\sim		
	iagara Integration IDs ara Integration ID 1 1 () None	ara Integration ID ara Integration ID Access Rights a 1 None	iagara Integration IDs ara Integration ID Access Rights 1 None	

This view opens from the main remote station menu when you click the **Controller Configuration**→**Remote**

Devices→Niagara Integration IDs, followed by clicking the Add button (²) in the Niagara Integration ID view.

Links

A Save button and a link to the Niagara Integration IDs view are located just below the view title.

Properties

Property	Value	Description
Integration Name	text	Provides a descriptive title for the integration ID.
Niagara Integra- tion ID	integer	Serves as the integration ID number.

Property	Value	Description
Tenant	Ref Chooser	Assigns the tenant to the ID. This tenant is considered to be the owner of the access right and is the only tenant that can edit the access right.
		NOTE: Only one tenant is assigned to a Niagara Integration ID.
Description	text	Provides general descriptive information about the ID.

Niagara Integration, Summary tab

This tab is displayed by default in this view. It displays a read-only list of all properties, including a link to the **Edit Access Rights** view for any associated access rights listed at the bottom of the tab.

Figure 191 Example of a Summary tab



This tab is present but does not display updated information until you create at least one Niagara Integration ID. For the selected Niagara Integration ID, this tab displays in the appropriate Edit: Niagara Integration ID view. The Summary tab may also include a list of associated access rights.

Access Rights tab

This tab configures the access rights associated with the Niagara Integration ID.

🚰 Home 🛛 ốơ Monitoring 🛛 🗸	Personnel Reports	💣 Controller Setup	Threat Levels	Niagara
📑 Schedules 🛛 👗 User Manag	ement 📭 Backups 💣	Remote Devices and Acces	ss Setup 💣 Intrusion S	ietup 💣 Alarm Setup 💣 Miscellaneou
🔒 Save 🔯 Niagara Integrati	on IDs			
Summary Niagara Integratio	n ID Access Rights			
Newly Assigned				
Access Right Name 🔥	Schedule Name	Integration Name	Tenant Name	Threat Level Group Name
Daytime working hours	Boolean Schedule		B Company	Threat Level Group1
Unassigned				
Access Right Name	Schedule Name	Integration Name	Tenant Name	Threat Level Group Name
Daytime working hours	Boolean Schedule		B Company	Threat Level Group1
Off hours	Boolean Schedule		B Company	Threat Level Group11

Figure 192 Access rights tab

These panes provide standard Assign Mode functionality.

Quick Edit window

This window edits the Niagara Integration ID properties.

```
Figure 193 Niagara Integration ID Quick Edit window
```

Quick Edit	
Apply to selected items: 1 Apply to all records with t	ne current filter
Tenant 🚯 A Company	» 🗎 📀
Ok Cancel	

To access this window from the main menu by clicking**Controller Setup→Remote Devices→Niagara Inte**gration Ids, followed by selecting an ID and clicking the Quick Edit button (^D).

Properties

Property	Value	Description
Apply to selected items: n	radio button	Applies the updated tenant information to only the selected item(s).
Apply to all records with the current filter	radio button	Applies the updated tenant information to all visible records.
Tenant	ref chooser	Opens a ref chooser for selecting the tenant.

BACnet Network view, BacNet Network tab

This view configures BACnet network settings in the system.

Save 🔨 Rebuild BACnet Records						
BACnet Network	Ip P	ort	Mstp Po	ort	Door Control	
Enabled		true 🗸				
Status			{ok}			
Fault Cause						
Object Id		-1				
Apdu Segment Tim	eout	2000		ms [0 - +inf]		
Apdu Timeout		3000 ms [0 - +inf]		s [0 - +inf]		
Location		unknown				
Description	Local BACnet Device object					

Figure 194 BACnet Network view

To access this view, click **Controller Setup→Remote Devices→BACnetNetwork**.

The **Save** button saves configuration changes. The **Rebuild BACnet Records** button recreates all integrated BACnet records. This button is useful if you have a problem with BACnet point automation.

Properties

In addition to the standard properties (**Enabled**, **Status**, and **Fault Cause**), these properties support a BACnet network.

Property	Value	Description
Object Id	number with valid range from 0 to 4194302; defaults to -1 resulting in no device	Specifies a numerical device ID on the BACnet network (must be unique among all BACnet devices).
Apdu Segment Timeout	milliseconds; de- faults to recom- mended value of 2000 ms	Defines the time to wait before retransmission of an APDU (application protocol data unit) segment.
Apdu Timeout	milliseconds; de- faults to recom- mended 3000 ms	Defines the time to wait before retransmission of an APDU re- quiring acknowledgment, for which no acknowledgment has been received.
Location (optional)	text string, de- faults to unknown	Describes the location of the BACnet device
Description (optional)	text	Describes the BACnet device object

IP Port tab

This tab configures the BACnet/IP link layer used by the controller, providing that the **Enabled** property (in **BACnet Network** tab) is set to true.

Figure 195 IP Port tab

BACnet Network	Ip Port	Mstp Port	Door Control
Enabled	false 🗸		
Status	{disabled}		
Fault Cause			
Network Number	1		
Adapter	dm0	~	
Udp Port	0xBAC0		
Ip Device Type	Standard	\sim	
Bbmd Address	null		

To access this view, click **Controller Setup** \rightarrow **Remote Devices** \rightarrow **BACnetNetwork**, followed by clicking the IP Port tab.

Properties

In addition to the standard properties (**Enabled**, **Status**, and **Fault Cause**) these properties support the BACnet IP Port.

Property	Value	Description
Network Number	number from 1 to 65534; default val- ue is -1 (inoperative)	Specifies a unique network number across the entire BACnet internetwork for the BACnet/IP network.
Adapter	drop-down list (de- faults to NET1)	Specifies which of the two physical Ethernet ports on the con- troller is used for BACnet/IP communications. NET1 or NET2

Property	Value	Description
UDP Port	port number (de- faults to 0xBAC0, decimal 47808)	Specifies the UDP (user datagram protocol) port used by BAC- net/IP. You can specify another port, if needed (say an existing BACnet/IP network is using another UDP software port).
IP Device Type	drop-down list: (defaults to BAC-	Defines the type of BACnet/IP device Generally, the default Standard should by used.
	net device)	BACnet device
		BBMD (BACnet Broadcast Management Device)
		BACnet Foreign Device
Bbmd Address	number (defaults to null)	Sets the Bbmd (BACnet Broadcast Management Device) ad- dress. This address is only required when the system is being used as a BACnet Broadcast Management Device.

Mstp Port tab

These fields configure the BACnet/Mstp link layer used by the controller, providing that the **Enabled** property (in BACnet Network tab) is set to true.

Figure 196 Mstp Port tab

Save Kebuild BACnet Records						
BACnet Network	Ip Port	Mstp Port	Door Control			
Enabled	false 🗸					
Status	{disabled}					
Fault Cause						
Network Number	-1					
Port Name	COM1					
Baud Rate	Baud _9600) 🗸				
Mstp Address	0	[0 - 127]				
Max Master	127	[0 - 127]				
Max Info Frames	20	[1 - 100]				

To access this view, click **Controller Setup→Remote Devices→BACnetNetwork**, followed by clicking the **Mstp Port** tab.

Properties

In addition to the standard properties (Enabled, Status, and Fault Cause) these properties support the BACnet Mstp Port.

Property	Value	Description
Network Number	number from -1 to the BACnet net- work number for the network seg- ment to which you are connecting	Sets the number of the network. If this is an existing BACnet installation, make sure to use the same network number al- ready in use. If this a new BACnet installation, choose this num- ber (for example: 3)
Port Name	text	Typically, you leave the Mstp Address at 0 (the default), and verify that no other MS/TP device on the trunk is addressed the same. If there is ever a lost token, the device with the low- est MAC address regenerates the token (and, in this case, the station).

Property	Value	Description
Baud Rate	drop-down list	Selects the baud rate.
Mstp Address	number, in decimal, with a valid range from 0 (default) to 127	Sets the Mstp address to a unique BACnet MAC address on that MSTP trunk. Each BACnet device on the MS/TP network segment must have a unique MAC address.
Max Master	number, in decimal, with a valid range from 0 (default) to 127	Sets the maximum master device to the lowest known master device on the network, with possible room for expansion if needed.
Max Info Frames	number up to 100, defaults to 20	Specifies how many messages are sent before passing the to- ken. Increasing this value to 100 improves performance in some cases.

Door Control tab

This tab configures door control.

Figure 197 Door Control tab

🚰 Home 🛛 රට Mo	nitoring	💫 Personne	el 📄 Rep	orts	🐡 Controller	Set
📄 Schedules 🦼	🔱 User Mana	ngement I	🛓 Backups	🂣 Re	mote Devices	ę
Save Rebuild BACnet Records						
BACnet Network	Ip Port	Mstp Port	Door Cont	rol		
BACnet Door Cont	rol fals	ie 🗸				

Properties

Property	Value	Description
BACnet Door	true or false	Enables and disables control of a door that is a BACnet net-
Control	(default)	work device.

BACnet BDT Manager (Broadcast Distribution Table) view

This view is populated when the system is operating as a BACnet Broadcast Management Device (BBMD). This table lists all other participating BBMDs, including their IP address and broadcast distribution mask for each.

Figure 198 BACnet BDT Manager (Broadcast Distribution Table) view

Name	BACnet IP Address	Broadcast Distribution Mask
BdtEntry	test	test
localDevice	null	255.255.255.255

You access this view by selecting **Remote Devices**→**BACnet BDT Manager** from the main menu.

Buttons

In addition to the standard control buttons (Delete and Export), this view provides these buttons:

- O Add opens a view for adding BBMD records to the database.
- Description of the selected existing BBMD record(s).

Columns

Column	Description
Name	Reports the name of the BBMD.
BACnet IP Address	Reports the IP Address of the BBMD.
Broadcast Distribution Mask	Reports either a subnet mask or all 1's. This mask indicates if a BBMD is to send a di- rected broadcast (retransmitted by appropriately configured IP routers) or a unicast message to the indicated BBMD, which then retransmits the forwarded broadcast message.

New (or edit) Entry views

These views configure a new BACnet (BBMD) entry in the database. The New and Edit views are identical except for the read-only Name in the Edit Entry view.

Figure 199 New Entry view and Edit Entry view

📄 Save 🔯 Broadcast Distribution Table	📄 Save 🔯 Broadcast Dis	tribution Table
BACnet IP Address	Name	BdtEntry
Broadcast Distribution Mask	BACnet IP Address	test ×
	Broadcast Distribution Mask	test

To access these views from the main menu, click **Controller Setup** \rightarrow **Remote Devices** \rightarrow **BACnet BDT Manager**, and click the Add button (\bigcirc) or the Edit button (\bigcirc).

These views are identical except for the read-only Name property that displays in the Edit Entry view.

Under the title, both views provide a **Save** button and a link back to the **Broadcast Distribution Table** view.

Property	Value	Description
Name (Edit Entry view only)	read-only	Displays the name of the BDT entry that appears only in the Edit Entry view.
BACnet IP Address	6-octet B/IP address	Defines the address of a BBMD.
Broadcast Distribu- tion Mask	4-octet field	Indicates how broadcast messages are to be distributed on the IP subnet served by the BBMD.

Station Manager - Database view

This view uses a typical two-pane set of tables to list stations that are already assigned to the database or that have been discovered on the network. While some features are available from both a remote station and a Supervisor station, the synchronize and join features are designed to be used in a Supervisor station.

Figure 200	Station	Manager	view	(Superviso	or station)
------------	---------	---------	------	------------	-------------

# ? > 2 0 / 1 0)					
Station Name 🔥		Scheme			Actual Role	Role Status	
Station1	localhost	foxs	4911	{down}	Peer	{ok}	
entSecurity801	localhost	foxs	4911	{disabled,fault}	Peer	{ok}	
Discovered						Page 1 of 8	Page Size 20
Station Name	Host Name			Scheme	Fox Port	Already Exists	
AGN_AMSTNLBW_3	172.31.66.214			fox	1911	false	

This view opens from the main menu of a remote controller station when you select **Controller(System) Setup→Remote Devices→Station Manager**.

Database pane

The control buttons are located across the top of the pane. The unique station creation and management control buttons include:

- Discover opens the Discover window, which defines the database search. Based on this information, the discovery job interrogates the target location for data, such as historical and current point values as well as properties provided by the database.
- Provide the New Station window in either a remote or Supervisor station. This view adds a station without using the discovery process.
- Edit opens the Station view in either a remote or Supervisor station. It has two tabs: Niagara Station and Device exts.
- Sync Time opens the Remote Sync Time window in a Supervisor station.
- E Replicate opens a confirmation window in a Supervisor station.
- Set Auto Replicate enables (true) and disables (false) automatic replication from a Supervisor station.
- Join opens the Join (Add) Station view in a Supervisor station.
- Recovery opens the Recover Station view in a Supervisor station.
- Settings opens the Settings window in either a remote or a Supervisor station. This view configures the Fox Port and TimeSync properties. For example, a stand-alone controller that has never been joined to a supervisor only has the Fox Port field available, since no time sync is necessary.
- Discovered pane in a remote or Supervisor station. These buttons show or hide the control buttons and any discovered items (devices, points, database properties, etc.).

Column	Description
Station Name	Identifies the station, by name. Station names should be unique in a Station Manager Database.
Host Name	Identifies the host by IP address.
Scheme	Reports if you are using fox or foxs for communication. Foxs uses TLS encryption and server authentication and is more secure than fox communication.
Fox Port	Identifies the host port number that the station is communicating on.

Table 58	Database columns	
I able Jo		

Column	Description
Status	Reports the current condition of the entity as of the last refresh: {alarm}, {disabled}, {down}, {fault}, {ok}, {stale}, {unackedAlarm}
Actual Role	Describes the relationship between the local station and the listed station: Supervisor, Peer, or Subordinate. This value is specified in the Add Stations window using the Desired Role property.
Joined	Indicates if the remote station is joined to the local station (true or false).
Auto Replicate	Indicates if auto replication is enabled (true or false).
Replication Status	Reports the replication result. If replication occurred successfully on the last attempt, this column indicates $\{ok\}.$
Last Replication	Displays the time of the last replication.

Discovered pane

To view this pane, click the Discover control button () at the top of the Database view.

The Add control button () in the Discovered pane adds the selected, discovered station to the Database pane.

 Table 59
 Discovered pane columns

Column	Description
Station Name	Identifies the station, by name. Station names should be unique in a Station Manager Database.
Host Name	Identifies the host by IP address.
Scheme	Reports if you are using fox or foxs for communication. Foxs uses TLS encryp- tion and server authentication and is more secure than fox communication.
Fox Port	Identifies the host port number that the station is communicating on.
Already Exists	Indicates if the station already exists (true) or not (false).

Add (or edit) Station windows

This view creates a new station.

Figure 201	Add Stations window
------------	---------------------

Add Station(s)					
The following propertie from the local station (Username/Password m Enabled	to the remote to the remote nust already exist true	connection • station t on the remote station):	The following propertie from the remote stat i (Username/Password m Enabled	is configure the of ion back to the nust already exist true	connection • local station t on the local station):
Credential Store	Username Password	UsernameAndPassword ▼ M2M	Credential Store	Username Password	UsernameAndPassword M2M
Use Foxs	true 🔻		Use Foxs	true 🔻	
Fox Port	4911		Fox Port	4911	
What is the role of the r Desired Role Sub Pee Sub Sup	remote station fr ordinate v r ordinate ervisor	om the perspective of the local	station? Cancel		

To create, you access this window by clicking the New button () in the Database pane of the Station Manager – Database view.

To edit, you access these windows by selecting a station in the Station Manager – Database view and clicking the Edit button ().

Property	Value	Description
Enabled	true or false	For both a local and remote stations, adds the station with ei- ther one or both stations enabled (true) or disabled (false) state. You change the status after adding the station by click- ing the Edit control button, and using the Edit window.
Credential Store	drop-down list (de-	Selects how to authenticate the target station.
	faults to Userna- meAndPassword)	UsernameAndPassword provides properties to authenticate using a user name and password.
		CertificateAliasCredential
Username	text	For both a local and remote stations, defines the login name for the account.
Password	strong text	For both a local and remote stations, defines the login pass- word for the account.
Use Foxs	true (default) or false	Selects secure communication, which includes data encryption and server authentication.
Fox Port	number	Identifies the host port number that the station is communicat- ing on.
Desired Role	drop-down list	Selects the station's role: Peer, Subordinate, or Supervisor from the perspective of the local station.

Two consecutive Add station windows contain station properties.

Settings windows

This window configures communications from the local system to one or more remote stations. This is equivalent to FoxService in Workbench.

Figure	202	Examp	ole d	of a	Settings	window

Settings	
The following prop they do not effect	erties are for the local station only , remote stations.
Fox Enabled	false 🗸
Fox Port	1911
Foxs Enabled	true 🗸
Foxs Port	4911
Foxs Only	true 🗸
Foxs Cert	tridium
	Ok Cancel

You access this window, select a station in the Station Manager – Database view and click the Settings button (

Property	Value	Description
Fox Enabled	true or false (default)	Turns Fox communication on (true) and off (false). Fox com- munication does not provide encryption or server authentication.
Fox Port	number (defaults to 1911)	Specifies the port for Fox communication.
Foxs Enabled	true (default) or false	Turns Foxs communication on (true) and off (false). Foxs communication provides data encryption and server authentication using the TLS (Transport Layer Security) protocol.
Foxs Port	number (defaults to 4911)	Specifies the port for Foxs communication.
Foxs Only	true (default) or false	Indicates if the station supports only Foxs (true) or both Foxs and Fox communication (false).
Foxs Cert	text (defaults to tridium)	Identifies the TLS server certificate to use for the station.

Schedules tab

This tab contains properties related to the station device extensions. Use the hyperlinked properties to navigate to other views. This tab is available in the Supervisor station.

Examples of some useful Device Ext links that appear on this tab include:

- Schedules links to the Distributed Schedule Manager view.
- Intrusion links to the Distributed Intrusion Zone Manager view.
- Cameras links to the Remote Video Camera Manager view.

NOTE: You can use this Video Camera Manager view from a remote controller to discover cameras without having to add the video network to the remote controller. With the Supervisor selected (under the Station Manager view) use this link to open the Video Camera view of the Supervisor station for the purpose of discovering and adding cameras to your remote controller.

Join (Add) Station view

This view sets up and initiates the process of joining one or more remote stations with a Supervisor station. It is available in a Supervisor station only. The title of the view reflects the name of the station. This is why it can be called the "join" or "add" station view.

Figure 203 Join Station view

Add Acme_Bldg_1	
夏 Commit 🏾 🏾 🌾 Retrie	eve Import Status 🛛 🗠 Reset Import Status 🖄 🖄 NiagaraNetwork
Step 1: Make sure the	System Date Times are synchronized within 1min of each other.
Supervisor Time 22- Subordinate Time 22- Time Difference < 1	Jan-16 12:26 PM IST Jan-16 12:26 PM IST Min
Step 2: Use the Distrib Distributed Schedule Man Step 3: Make sure the	uted Schedule Manager to import schedules. lager database will be imported properly.
Record Type	Import Status
) Tenants	2 Matched Objects
Keypad Formats	3 Matched Objects
Wiegand Formats	7 Matched Objects
A Personnel	11 Matched Objects, 6 Warnings
Additional Personnel Data	3 Matched Objects
Badges	8 Matched Objects
🔆 Niagara Integration IDs	1 Matched Objects
Access Rights	6 Matched Objects
Intrusion Zones	No Objects
A Intrusion Pins	No Objects
Readers	3 Matched Objects
Eloors	No Objects
A Threat Level Groups	4 Matched Objects
Threat Level Range	6 Matched Objects

The top left corner of the view displays the name of the station that is to be added or joined to the Supervisor. Below the title are three control buttons, step instructions, a link to the Distributed Schedule Manager, and a table of records.

Links

These links are at the top of the view under the title.

- **Commit** is available only after the object matching step is completed (all items in the Import Status column are configured). Click this button to start the join process.
- **Retrieve Import Status** automatically configures all record types and returns their import status in the Import Status column. Click this button to start the join process.
- NiagaraNetwork links to the Station Manager Database view.
- Reset Import Status clears any matched objects displayed in the table of records.
- **Synchronize Time** initiates a time synchronization job that brings the time of the remote station to within one minute of the supervisor station time.

Instruction steps

Instruction steps include the following:

• Step 1: Make sure the System Date Times are synchronized within 1 min of each other. This instruction and the associated **Synchronize Time** button align the times of the two stations (Supervisor and remote controller) to within one minute of each other. This alignment is required before importing records to the Supervisor station.

- Step 2: Use the Distributed Schedule Manager to import schedules. This instruction reminds you that this step requires a different view.
- Step 3: Make sure the database will be imported properly. This instruction cautions you to prepare for a proper import of records from the remote station to the Supervisor station. You use the **Retrieve Import Status** and **Reset Import Status** buttons at the top of the view to match records. Table of records

Table of records

Table of Record Types

This two-column table lists each type of record that is available for configuring. The Record Type column indicates what the record is and the Import Status column displays a status, including warnings or errors (if any) and shows how many objects are:

- Matched Objects
- New Objects
- No Objects
- Delete Objects
- Error

Object details

A table or window displays when you click an the Status column of a new, matched, or deleted object. This window or table shows more details about the selected record.

Distributed Schedule Manager - Database view

This view provides a way to discover and import schedules from a remote station to the local station. All stations have a **Distributed Schedule Manager** view. The relationship between the local and remote stations is independent of each station's role (subordinate, peer, or Supervisor). For the purposes of propagating schedules, the relationship depends on which station initiates the discovery job.

A Supervisor station discovers schedules in a remote station before adding the remote station to the system.

Figure 204 Distributed Schedule Manager - Database view

🚰 Home 🖸	òo` Monitoring	Æ	Personnel	Reports	💣 System Setup	🛕 Threat I	evels I I C Gramewor
📰 Schedule:	s 💄 User N	lanagen	ient 🧯 Backu	ps 💣	Remote Devices 🦪	Access Setu	p 💣 Intrusion Setup
*				2			
Display Name 🅢	Us age	Status	Out Source	Out	Next Time	Next Value	Supervisor Id
After Hours	Access Right	{ok}	Default Output	false {ok}	09-Jan-19 6:00 PM EST	true {ok}	/Services/EnterpriseSecuritySer
Always	Access Right	{ok}	Week: wednesday	true {ok}	10-Apr-19 12:00 AM EDT	true {ok}	/Services/EnterpriseSecuritySer
Weekend	Access Right	{ok}	Default Output	false {ok}	12-Jan-19 12:00 AM EST	true {ok}	/Services/EnterpriseSecuritySer
Working Hours	Door Unlock	{ok}	Week: wednesday	true {ok}	09-Jan-19 6:00 PM EST	false {ok}	/Services/EnterpriseSecuritySer
Discovered							
 2 2 3 4 4							
Display Name	Path					Supervisor Id	Type Str
6-to-6 Schedule	slot:/Services/Er	terpriseS	ecurityService/sched	ules/\$36\$2	dto\$2d6\$20Schedule	NULL	schedule:BooleanSchedule

To access this view do either of the following:

>

<

- From the main menu, click System Setup→Remote Devices→Station Manager, select a station in the database, and click the Join button (♣). Then, from the Join (Add) Station view, click the Distributed Schedule Manager link.
- From the main menu, select Controller (System) Setup→Remote Devices→Station Manager, select a

station and click the Summary button (). Then, in the Station Device Properties view, choose the Device Exts tab and click the Schedules link.Database pane

Database pane

In addition to the standard control buttons, this pane provides two export buttons:

- Sends (pushes) the selected schedule(s) from the local to the remote station. You might use this function to immediately update changed schedules in a remote station instead of waiting for a replication job.
- 🔝 Export opens the Export window for creating a PDF or CSV formatted report of the current table.

Column	Description
Display Name	Identifies the name of the schedule.
Out Source	Describes the current output as one of four options: Special Event: <special event="" name=""> or Week <day of="" the="" week=""></day></special>
Out	Displays true or false. Output is true during any configured calendar day(s), otherwise it is false.
Next Time	Defines the date and time of the next scheduled output change for the compo- nent. If it is more than a year away, this value is null.
Next Value	Displays the next scheduled output value. Value is meaningless when Next Time is null.
Supervisor ID	Reports the URL that identifies the Supervisor station.

 Table 60
 Distributed Schedule Manager columns

Discovered pane

In addition to the standard control buttons (Filter and Export), these buttons support schedules:

- O Add imports the selected schedule in the Discovered pane from the remote station to the local station. You might use this to add a schedule that exists on a subordinate station to a Supervisor.
- Cal Match synchronizes the schedule selected in the Database pane with the schedule selected in the Discovered pane creating a single schedule in the local station. Match helps to prevent multiple versions of the same, or similar schedules.

Table 61 Discovered columns

Column	Description
Name	Provides the schedule name.
Path	Reports the URL that identifies the schedule.
Supervisor ID	Reports the URL that identifies the Supervisor station.

Recover Station view

This view sets up and initiates the station recovery process. Recovery uses station data from the Supervisor to restore a remote station when a remote station backup is not possible or would result in lost or data conflicts.



Add Acme_Bldg_2		
👮 Commit Recovery	🔥 NiagaraNetwork	

Step 1: Make sure the System Date Times are synchronized within 1min of each other.



Step 2: Use the Distributed Schedule Manager to import schedules.



To access this view from the main menu, click Controller (System) Setup→Remote Devices→Station Man-

ager, select a station and click the **Recover** button (基).

The top left corner of the view displays the name of the station that is to be added or joined. Below the title are three control buttons, step instructions, a link to the **Distributed Schedule Manager**, and a table of records.

Links

- Commit Recovery button starts the recovery process.
- NiagaraNetwork button links to the Station Manager Database view.
- Synchronize Time button initiates a time synchronization job that sets the time of the remote station to within one minute of the Supervisor station's time. This ensures that records added to the Supervisor database during the join process share a common time reference.

NOTE: The **Recover Station** view does not import schedule records. You must import any schedules using the **Distributed Schedule** – **Database** view.

Station Device Properties view

Figure 206 Niagara Station tab

Stations that are part of a system's network (NiagaraNetwork) are represented under the network as station devices. This view displays properties and device extensions that apply to the selected station. It usesd the station name as the title of the view.

Niagara St	ation	Device Exts
Status	{disat	oled,fault}
Enabled	false	~
Fault Cause	Statio	n name is same
Health	Fail [n	ull1

To access this view, click **System Setup** \rightarrow **Remote Devices** \rightarrow **Station Manager**) and click the Summary button (**(**).

Properties

This view includes the standard system properties.

Device Ext tab

This tab configures the floors, which the elevator is required to service.

Figure 207	Station Device Exts tab

🚰 Home	óo^ Monitoring	a Personn	el 📄 Rep	orts	
📃 Schedu	ıles 🛛 👗 User Ma	nagement	🖟 Backups	@ R	
Save	🔯 Niagara Netw	ork			
Niagara St	ation Device E	xts			
Niagara Poi	nt Device Ext	Point	5		
Niagara His	tory Device Ext	△ Histo	ries		
Niagara Ala	rm Device Ext	🐥 <u>Alarm</u>	15		
Niagara Schedule Device Ext		t 📃 <u>Scheo</u>	Schedules		
Niagara Use	er Device Ext	🚨 Users	🚨 Users		
Niagara Sys Def Device Ext		🔐 <u>Sys D</u>	Sys Def		
Niagara File Device Ext		Files	🕒 Files		
Niagara Re	plication Device	Ext 🔘 <u>Replic</u>	Replication		
Niagara Ala	rm Class Device	Ext 🔀 Alarm	<u>iClasses</u>		
Niagara Camera Ext		🛸 <u>Came</u>	ras		
Niagara Int	rusion Device Ex	ct 🛛 🖳 <u>Intru</u> s	sion		
<				> ~	

You access this view from the main menu by clicking **Controller Setup→Remote Devices→Station Manag**er, followed by double-clicking a station, and clicking the **Device Exts** tab.

Certificate Management view

This view manages PKI (Public Key Infrastructure) digital certificates, creates Certificate Signing Requests (CSRs), and imports and exports keys and certificates to and from the Supervisor and controller trust stores.





You access this view and tabs by clicking **Controller (System) Setup→Remote Devices→Certificate** Management.

User Key Store

This store lists server, intermediate, and code-signing certificates with their public and private keys. You use this store to create and manage certificates.

Trust Stores (System Trust Store tab and User Trust Store tab)

The trust stores (system and user) contain signed and trusted root CA certificates with their public keys. These stores contain no private keys. A trust store supports the client side of the relationship by using its root CA certificates to verify the signatures of the certificates it receives from each server. If a client cannot validate a server certificate's signature, an error message allows you to approve or reject a security exemption (on the Allowed Hosts tab).

The System Trust Stores contain installed signed certificates by trusted entities (CA authorities) recognized by the Java Runtime Engine (JRE) of the currently opened platform. A User Trust Store contains installed signed certificates by trusted entities that you have imported (your own certificates).

Only certificates with public keys are stored in the trust stores. The majority of certificates in the System Trust Store come from the JRE. You add your own certificates to a User Trust Store by importing them.

Feel free to pass out such root certificates to your team; share them with your customers; make sure that any client that needs to connect to one of your servers has the server's root certificate in its client trust store.
Allowed Hosts tab

This tab lists self-signed certificates that have been manually approved for use to authenticate a server. As such, they have not been signed by a CA. They should not be approved unless you are certain that the communication they facilitate will be secure.

Columns

Many columns are shared by the tabs. This table lists all columns.

Column	Description	
Alias	Identifies certificates by location or function.	
Issued By	Identifies the entity that created the certificate.	
Subject	Identifies the company that owns the certificate.	
Not Before	Displays the date before which the certificate is not valid.	
Not After	Displays the expiration date for the certificate.	
Key Algorithm	Names the mathematical formula used to calculate the certificate keys.	
Key Size	Shows the size of the keys in bits. Four key sizes are allowed: 1024 bits, 2048 bits (this is the default), 3072 bits, and 4096 bits. The bigger the key, the longer it takes to generate.	
Signature Algorithm	Names the mathematical formula used to sign the certificate.	
Signature Size	Shows the size of the signature.	
Valid	Displays the dates between which the certificate is valid.	
Self Signed	Indicates that the certificate was signed with its own private key.	

Buttons

This list contains in alphabetical order all the buttons available in the stores.

• Approve manually validates the selected certificate in the User Trust Store and Allowed Hosts tabs.

CAUTION: Do not approve a self-signed certificate automatically. Always confirm that you recognize the Alias, Issued By and Subject properties as valid entities.

You can reverse the approval action on the Allowed Hosts tab by selecting the certificate and clicking Unapprove.

- Cert Request opens a Certificate Request window, used to create a Certificate Signing Request (CSR).
- **Delete** removes the certificate from the store.
- Export saves a copy of the certificate to the hard disk with the .pem extension.
- Import adds a certificate (.pem file) to the Key Store or a company's root CA certificate to the User Trust Store.
- New opens the Generate Self Signed Certificate window, used to create CA and server certificates.
- **Reset** (available only in the Key Store) deletes all certificates in the Key Store and creates a new default certificate. It does not matter which certificate is selected when you click **Reset**.

CAUTION: The Reset button facilitates creating a new key pair (private and public keys) for the entity, but may have unintended consequences if you delete valid certificates. Export all certificates before you reset.

- **Unapprove** is available on the Allowed Hosts tab. This button removes approval from the selected certificate. The next time the server that uses this certificate connects to the station the system warns you that the certificate is not valid.
- View opens the selected certificate so you can to view its details.

Generate Self-Signed Certificate window

This window defines the important information required to create a certificate. You use this window to create your own certificates along with a key pair (public and private).

Figure 209 Default view of the Generate Self-Signed Certificate window

Generate Self Signed Certificate			
Generate Self Signed Certificate Generates a self signed certificate and inserts it into the keystore			
Alias	native_process_server_cert	(required)	
Common Name (CN)	native_process_server_cert	(required)	
	* this may contain the host name or address of the serve	r	
Organizational Unit (OU)	HCE		
Organization (O)	HTS	(required)	
Locality (L)	BAN		
State/Province (ST)	KA		
Country Code (C)	IN (required)		
Not Before	22-May-2020 02:02 PM EDT		
Not After	22-May-2021 02:02 PM EDT		
Key Size	♦ 1024 bits ♦ 2048 bits ♦ 3072 bits ♦ 4096 bits		
Certificate Usage	\otimes Server \diamondsuit Client \diamondsuit CA \diamondsuit Code Signing		
Alternate Server Name			
Email Address			
	OK Cancel		

This window opens when you click **New** at the bottom of the **User Key Store** tab.

A self-signed certificate provides data encryption only. Since it is not signed by a CA (Certificate Authority) it cannot verify server identify. Generating a self-signed certificate should be a temporary measure until a signed certificate is installed in the browser's and station's trust stores. After installing the signed certificate you should delete any self-signed certificates.

There is a limit of 64 characters for each of the following properties. Although blank properties are permitted, it is recommended to correctly fill in all properties, as not doing so may generate errors, or cause thirdparty CAs to reject your certificate. Spaces and periods are allowed. Enter full legal names.

Name	Value	Description
Alias	text	A short name used to distinguish certificates from one another in the Key Store . This property is required. It may identify the type of certificate (root, intermediate, server), location or func- tion. This name does not have to match when comparing the server certificate with the CA certificate in the client's Trust Store.
Common Name (CN)	text, required, al- phanumeric; do not use "*" or "?" as part of the name	Also known as the Distinguished Name, this field should be the host name. It appears as the Subject in the User Key Store .
Organizational Unit (OU)	text	The name of a department within the organization or a Doing- Business-As (DBA entry). Frequently, this entry is listed as "IT", "Web Security," "Secure Services Department" or left blank.
Organization (O)	text	The legally registered name of your company or organization. Do not abbreviate this name. This property is required.

Name	Value	Description
Locality (L)	text	The city in which the organization for which you are creating the certificate is located. This is required only for organizations registered at the local level. If you use it, do not abbreviate.
State/Province (ST)	text	The complete name of the state or province in which your or- ganization is located. This property is optional.
Country Code (C)	two-character ISO- format country code.	If you do not know your country's two-character code, check www.countrycode.org. This property is required.
Not Before	date	Specifies the date before which the certificate is not valid. This date on a server certificate should not exceed the Not Before date on the root CA certificate used to sign it.
Not After	date (defaults to one year from the Not Before date)	Specifies the expiration date for the certificate. This date on a server certificate should not exceed the Not After date on the root CA certificate used to sign it.
		A period no longer than a year ensures regular certificate changes making it more likely that the certificate contains the latest cryptographic standards, and reducing the number of old, neglected certificates that can be stolen and re-used for phishing and drive-by malware attacks. Changing certificates more frequently is even better.
Key Size	number	Specifies the size of the keys in bits. Four key sizes are al- lowed: 1024 bits, 2048 bits (this is the default), 3072 bits, and 4096 bits. Larger keys take longer to generate but offer great- er security.
Certificate Usage:	text	Specifies the purpose of the certificate: server, client or CA certificate. Other certificate management software utilities may allow other usages.
Alternative Server Name	text	This property provides a name other than the Subject (Common Name) that the system can use to connect to the server. Like the Common Name, the system uses the Alternative Server Name to validate the server certificate making it possible to specify both an IP (Internet Protocol) and FQDN (Fully Qualified Domain Name).
Email Address	email address	The contact address for this certificate. It may also be the ad- dress to which your signed certificate (.pem file) will be sent.

Private Key Password window

This window creates a password, which the system requires when you export and import private keys.

This window has standard password-creation properties and control buttons.

Video Network views

The framework supports three video networks: Axis, Milestone and Maxpro.

Axis network

The Axis video driver (naxisVideo) supports Axis video cameras.

Supported features include:

- Automatic discovery of cameras
- PTZ operation, including Go To preset
- Focus and iris
- Surveillance Viewer
- Remote video connections
- Fox video streaming
- Graphics widgets
- Motion detection from the camera

These Axis features are not supported:

- Alarm video playback
- Live video playback
- Switching between live and playback video
- Bidirectional alarms

The Axis driver has been tested with these cameras:

- Axis P5635–E PTZ Dome Network Camera with firmware version 6.50.2.3
- AXIS M 1065-L Network Camera with firmware version 8.30.1.1

Other models may or may not work with the driver depending on the firmware version installed. It is recommended to upgrade the Axis camera to the current firmware when using this video driver.

Axis video driver requirements include the following:

- IP access between the camera and remote network controller
- Appropriate ports open; the defaults are port 80 for the web, port 554 for control, and port 9000 for data
- Security status of each camera. The software defaults to TLS (Transport Layer Security) secure communication.

NOTE: If one or more of your cameras does not support or is not configured to support secure communication, you can add a second network with TLS disabled for those cameras. In this scenario, you can keep all of your https-supported cameras on the Axis TLS network and add the legacy http cameras to the non-TLS enabled network.

Milestone network

Milestone provides four video management software products:

- XProtect Enterprise
- XProtect Professional
- XProtect Professional+
- XProtect Corporate

The framework supports these three products with two drivers:

- The Milestone Network (nmilestone) driver supports the XProtect Enterprise XProtect Professional, and XProtect Professional+ products.
- The Milestone XProtect Network (xprotect) driver supports the XProtect Corporate product.

CAUTION: The Milestone products do not support secure communication, therefore, it is not possible to secure the connection between a station and its Milestone devices.

Maxpro network

This network supports Maxpro cameras and NVRs (Network Video Recorder)

Supported features include:

- Automatic discovery of cameras
- NVR (Network Video Recorder) and camera health Status
- PTZ (Pan Tilt Zoom) operation including control and go-to presets
- Live and recorded video streams
- H.264 Codec
- RTSP (Real Time Streaming Protocol) and HPS (Honeywell Progressive Streaming) RTSP streaming has been tested with Honeywell's HDZMD series camera.
- Read camera events and alarms
- Forward, rewind, fast forward, and fast rewind
- 1/2, 1, 2, 4, 6, 8 & 16 replay speeds
- Custom RTSP URL for RTSP streaming

The Maxpro driver does not support Fox streaming.

The Maxpro driver defaults to secure TLS communication with the exception of its RTSP protocol, which, in the Niagara 4.9 release does not support TLS. If your installation requires a connection to a camera or NVR that does not support TLS, you should replace the device with one that does support secure communication. If you must use a device that is not secure, change Use Tls (Network component Property Sheet) to false and change the Address, Port (Network and NVR Property Sheets) from 443 to 80.

CAUTION: Be aware that these changes relax the driver's security settings, compromising security to connect to a device that does not support secure communication. This opens your network to the potential of being hacked.

Axis Video Network tab

This view configures an Axis Video Network, which is primarily used for reader devices.

🚰 Home 🛛 🍪 Monitoring 🛛 🍇 F	Personnel Reports 🖉 System Setup
冒 Schedules 🛛 💄 User Managen	nent 🚯 Backups 💣 Remote Devices 💰
🗟 Save 🔯 Drivers	
Axis Video Network Cameras	
Status	{ok}
Enabled	true 🔻
Fault Cause	
Health	Ok [07-Aug-18 6:36 PM IST]
Alarm Source Info	Alarm Source Info »
Monitor	Ping Monitor »
Tuning Policies	Default Policy Tuning Policy »
Fox Video Stream Preferred	false 🔻
Discovery Preferences	Axis Camera Discovery Preferences »
Use TIs	true 🔻
Tcn In Port	9797

Figure 210 Axis Video Network tab

You access this tab from the main menu by clicking **Controller Setup→Remote Devices→Remote Drivers** followed by double-clicking the Axis Video Network row in the table.

Properties

In addition to the common **Status**, **Enabled**, **Fault Cause** and **Health** properties, this tab includes these properties.

Property	Value	Description
Alarm Source Info	additional properties	Contains a set of properties for configuring and routing alarms when this component is the alarm source.
Monitor	additional properties	Configures ping properties. Refer to Monitor properties, page 223.
Tuning Policies	additional properties	Defines the assigned tuning policy. Refer to (later in this topic).
Fox Video Stream Preferred	true or false (default)	
Discovery Prefer- ence, Do Not Ask	true or false (default)	true uses the fox connection to route video output from the camera to the station.
Again		false disables this feature.
Discovery Prefer- ence, Timeout	hours, minutes, seconds	This is the setting for specifying how long to try to discover an Axis camera before going to a timeout state.
Use Tls	true (default) or false	Configures secure communication between the station and network devices. By default, the system uses TLS secure com- munication. You would change this network property to false only if a legacy device (camera) cannot support TLS.
		If some devices on your network support TLS and others do not, you may add two networks of the same type: one for the secure devices, and the other for those that do not support security.
Tcp lp Port	number (defaults to 9797)	Identifies the network port, which connects the station to the network.
		If you have more than one Axis network in your system, each network requires its own unique port. As a best practice, con- sider using the default port (9797) for a legacy network with cameras that to not support security. When you create a sec- ond network for the camera(s) that support security, change this value to 9798.

Monitor properties

Property	Value	Description
Ping Enabled	nabled true (default) or	Controls the monitor ping.
	false	true a ping occurs for each device under the network, as needed.
		false device status pings do not occur. The device status can- not change from what existed when this property was last true.
		It is recommended you leave Ping Enabled as true in almost all cases.
Ping Frequency	hours:minutes: seconds	Specifies the interval between periodic pings of all devices. Typical default value is every 5 minutes (05m 00s), you can ad- just differently if needed.
Alarm On Failure	re true (default) or false	Controls the recording of ping failure alarms.
		If true, the system records an alarm in the station's AlarmHis- tory upon each ping-detected device event ("down" or subse- quent "up").
		If false, the system ignores and does not record device "down" and "up" events in the station's AlarmHistory.
Startup Alarm Delay	hours:minutes: seconds	Specifies the period a station must wait after restarting before device "down" or "up" alarms are generated. Applies only if the Monitor's property Alarm On Failure is true.

Axis Network Tuning Policy

During polling, the system uses the network driver's tuning policy to evaluate both write requests and the acceptability (freshness) of read requests.

Property	Value	Description
Min Write Time	hours minutes seconds	Specifies the minimum amount of time allowed between writes to writable proxy points, thus providing a method to throttle rapidly changing values so that only the last value is written.
		A value of zero (0) disables this rule causing all value changes to attempt to write.
Max Write Time	hours minutes seconds	If nothing else triggers a write to a proxy point, this property specifies the maximum amount of time to wait before rewriting the value. Any write action resets this timer.
		The default (zero) disables this rule resulting in no timed rewrites.
Stale Time	hours minutes sec- onds; defaults to 0 (zero)	Defines the period of time without a successful read (indicated by a read status of {ok}) after which a point's value is consid- ered to be too old to be meaningful (stale).
		A non-zero value causes the point to become stale (status stale) if the configured time elapses without a successful read, indicated by Read Status {ok}.
		The default value (zero) disables the stale timer causing points to become stale immediately when unsubscribed.
		Do not configure an amount of time shorter than the poll cycle time. If you do, points will go stale in the course of normal poll- ing. Instead, set this time to be longer than the largest ex- pected poll cycle time.

Milestone Network tab

This tab configures Milestone network properties.

Figure 211	Milestone	Network tab
I Iguic Z I I	1VIIIC3LOIIC	



You access these properties from the main menu by clicking **Controller Setup→Remote Devices→Remote Drivers** followed by double-clicking the Milestone Network row in the table.

To add a Milestone Network, click the Manage Drivers button (), click Add, select the network and click Ok.

Properties

In addition to the standard properties (Status, Enabled, Fault Cause, Health, and Alarm Source Info), these properties may be configured for a Milestone Network.

Property	Value	Description
Monitor	additional properties	Configures ping properties, alarm on failure and startup alarm delay. Refer to Monitor properties, page 225.
Tuning Policies	additional properties	Configures network rules for evaluating both write requests to writable proxy points as well as the acceptable freshness of read requests.
Fox Video Stream Preferred	true or false (default)	

Monitor properties

Property	Value	Description
Ping Enabled	true (default) or false	Indicates of the ability to ping the network is on or off. Pinging the network ensures the system that its surveillance capabil- ities are up and running.
Ping Frequency	hours, minutes, seconds (defaults to 5 minutes	Configures when to automatically ping the network.
Alarm On Failure	true (default) or false	Indicates if the failure of a ping should result in an alarm.
Startup Alarm Delay	hours, minutes, seconds (defaults to 5 minutes	Configures a period of time before the system generates the alarm.

Milestone X Protect Network tab

This view and tab configures Milestone X Protect network properties.

Figure 212 Milestone X Protect Network tab



In addition to the standard properties (Status, Enabled, Fault Cause, Health, and Alarm Source Info), these properties support Milestone X Protect networks.

Property	Value	Description
Monitor	additional properties	Configures ping properties, alarm on failure and startup alarm delay. Refer to Monitor properties, page 226.
Tuning Policies	additional properties	Configures network rules for evaluating both write requests to writable proxy points as well as the acceptable freshness of read requests.
Fox Video Stream Preferred	true or false (default)	
Native Process Port	read-only	Displays the port.

Monitor properties

Property	Value	Description
Ping Enabled	true (default) or false	Indicates of the ability to ping the network is on or off. Pinging the network ensures the system that its surveillance capabil- ities are up and running.
Ping Frequency	hours, minutes, seconds (defaults to 5 minutes	Configures when to automatically ping the network.
Alarm On Failure	true (default) or false	Indicates if the failure of a ping should result in an alarm.
Startup Alarm Delay	hours, minutes, seconds (defaults to 5 minutes	Configures a period of time before the system generates the alarm.

Maxpro Network tab

This view configures an Maxpro Network, which is primarily used for reader devices.

Figure 213 Maxpro Network tab

🚰 Home 📔 ốơ Monitoring 📔 峯 F	Personnel Reports System Setup		
📰 Schedules 🛛 👗 User Managen	nent 📑 Backups 💣 Remote Devices 💣 Access Setup 💣		
🔚 Save 🔯 Drivers			
Maxpro Network DVRs			
Status	{ok}		
Enabled	true 🔻		
Fault Cause			
Health	Ok [12-Dec-19 4:19 PM EST]		
Alarm Source Info	Alarm Source Info »		
Monitor	Ping Monitor »		
Tuning Policies	Default Policy Tuning Policy »		
Fox Video Stream Preferred	false 🔻		

You access this tab from the main menu by clicking **Controller Setup→Remote Devices→Remote Drivers** followed by double-clicking the Maxpro Network row in the table.

Properties

In addition to the common **Status**, **Enabled**, **Fault Cause** and **Health** properties, this tab includes these properties.

Property	Value	Description
Alarm Source Info	additional properties	Contains a set of properties for configuring and routing alarms when this component is the alarm source.
Monitor	additional properties	Configures ping properties. Refer to Monitor properties, page 227.
Tuning Policies	additional properties	Configures network rules for evaluating both write requests to writable proxy points as well as the acceptable freshness of read requests.Refer to Tuning Policy, page 227 (later in this topic).
Fox Video Stream Preferred	true or false (default)	

Monitor properties

Property	Value	Description
Ping Enabled true (default) or	Controls the monitor ping.	
	false	true a ping occurs for each device under the network, as needed.
		false device status pings do not occur. The device status can- not change from what existed when this property was last true.
		It is recommended you leave Ping Enabled as true in almost all cases.
Ping Frequency	hours:minutes: seconds	Specifies the interval between periodic pings of all devices. Typical default value is every 5 minutes (05m 00s), you can ad- just differently if needed.
Alarm On Failure	m On Failure true (default) or	Controls the recording of ping failure alarms.
	false	If true, the system records an alarm in the station's AlarmHis- tory upon each ping-detected device event ("down" or subse- quent "up").
		If false, the system ignores and does not record device "down" and "up" events in the station's AlarmHistory.
Startup Alarm Delay	hours:minutes: seconds	Specifies the period a station must wait after restarting before device "down" or "up" alarms are generated. Applies only if the Monitor's property Alarm On Failure is true.

Tuning Policy

During polling, the system uses the network driver's tuning policy to evaluate both write requests and the acceptability (freshness) of read requests.

Property	Value	Description
Min Write Time	hours minutes seconds	Specifies the minimum amount of time allowed between writes to writable proxy points, thus providing a method to throttle rapidly changing values so that only the last value is written.
		A value of zero (0) disables this rule causing all value changes to attempt to write.
Max Write Time	hours minutes seconds	If nothing else triggers a write to a proxy point, this property specifies the maximum amount of time to wait before rewriting the value. Any write action resets this timer.
		The default (zero) disables this rule resulting in no timed rewrites.
Stale Time	hours minutes sec- onds; defaults to 0 (zero)	Defines the period of time without a successful read (indicated by a read status of {ok}) after which a point's value is consid- ered to be too old to be meaningful (stale).
		A non-zero value causes the point to become stale (status stale) if the configured time elapses without a successful read, indicated by Read Status {ok}.
		The default value (zero) disables the stale timer causing points to become stale immediately when unsubscribed.
		Do not configure an amount of time shorter than the poll cycle time. If you do, points will go stale in the course of normal poll- ing. Instead, set this time to be longer than the largest ex- pected poll cycle time.

DVR and NVR views

Cameras and displays (Milestone only) connect to network network through a DVR (Digital Video Recorder) or NVR (Network Video Recorder).

The system supports these DRVs and an NVR:

- The nmilestone driver supports the Milestone DVR.
- The xprotect driver supports an X Protect DVR.
- The maxpro driver supports a Maxpro NVR.

Both a DVR and an NVR record video. They differ in where they process the video stream and in the type of camera each requires:

- DVRs are wired security systems that use analog cameras. They process and store video data at the recorder.
- NVRs can be wired or wireless systems. Most require IP cameras. NVRs encode and process video at the camera, then stream the video to the recorder, which provides storage and remote viewing.

Milestone DVRs tab

This tab and view list the DVRs (Digital Video Recorders) supported by the nmilestone driver.

Figure 214 DVRs tab

🚰 Home 🛛 ốơ Monitoring	Personnel 📄 Rep	orts 💣 System Setup 🛕 TI
📑 Schedules 🛛 👗 User	Management 📑 Backups	Remote Devices Access
🔚 Save 🔯 Drivers		
Milestone Network DV	Rs	
Display Name ٨	Description	Status
Milestone Dvr	Milestone DVR in Bangalore	{fault,down}
<		>

You access this view from the main menu by clicking **System Setup→Remote Devices→Drivers** followed by double-clicking the Milestone Network row in the table, and clicking the **DVRs** tab.

Buttons

In addition to the standard buttons (Delete, Filter, Refresh and Export), these buttons support Milestone DVRs.

- 🕒 New opens the **New** window for adding a Milestone network driver.
- 🕑 Edit opens the component's Edit window.
- 🔟 or 📀 Ping (or wink) sends a command to the remote device or server.
- Byperlink opens the DVR view at the Milestone Dvr tab.

Columns

Column	Description	
Display Name	Displays the name given to this DVR when the database record was created.	
Description	Displays additional information about the DVR, such as its location, etc.	
Status	Reports the current condition of the entity as of the last refresh: {alarm}, {disabled}, {down}, {fault}, {ok}, {stale}, {unackedAlarm}	

Milestone Dvr tab

This tab configures the nmilestone driver.

Figure 215 Milestone DVR tab

🚰 Home 🏾 ốơ Monitoring 🔤	Personnel Reports System Setup
📄 Schedules 🛛 👗 User Mana	ngement 🚯 Backups 💣 Remote Devices 💣 Access Setup 💣 Intrusion Setup
🔒 Save 🔯 Milestone Netw	ork
Milestone Dvr Cameras D	Displays
Status	{fault,down}
Enabled	true 🗸
Fault Cause	Unlicensed: device.limit
Health	Fail [30-Aug-18 5:24 PM EDT] Failed to start session sync with 10.78.170.206:80 Can not connect to 10.78.170.206:1237{7}
Alarm Source Info	Alarm Source Info »
Video Device Id	Description Milestone DVR in Bangalore
Monitor	Video Dvr Ping Monitor »
Address	
Fox Video Stream Preferred	Inherit V
Multistream Preferences	Video Source Preferences »
Milestone Engine Ip Address	10.78.170.206
Milestone Image Server Port	80
Milestone Central Port	1237
Upload Events Port	1234
Credentials	Username Administrator Password ••••••
Milestone Central Credentials	Username admin Password ••••••••
1	
(

You access this tab from the main menu by clicking **Controller (System) Setup→Remote Devices→Remote Drivers**, double-clicking the Milestone Network, clicking the DVRs tab, followed by double-clicking a row in the DVR Manager table.

In addition to the common **Status**, **Enabled**, **Fault Cause**, **Health**, and **Alarm Source Info** properties, these properties support the DVR.

Property	Value	Description
Video Device Id, Description	text	Defines the name of the DVR that appears in the manager view.
Monitor	additional properties	Links to a set of properties for configuring the ping monitor (the mechanism for confirming the health of devices on the network). Refer to Monitor properties, page 231.
Fox Video Stream Preferred		For a network component, selects (true) or declines (false) the use of Fox streaming.
		For a child component (DVR, NVR or camera) selects or de- clines the use of Fox streaming at the child component level.
		Inherit sets this property to the value set for its parent com- ponent (the DVR, NVR or network component).
		Yes sends the video stream from the video camera to the sta- tion (controller) and then forwards it to the Workbench inter- face through the standard Fox/Foxs connection. This overcomes fire wall issues in the event that the video surveil- lance system is not exposed to the outside world on its network.

Property	Value	Description
		NOTE: This option assumes that the controller is exposed - otherwise you could not even connect to the station.
		No sends the video stream directly from the video camera to the interface. Using this setting allows you to set the Pre- ferred Resolution and Frame Rate to High without im- pacting CPU usage. In essence, this removes the station from the equation.
		In all cases, the client-side computer expends some of its CPU utilization to render the video on the screen.
Multistream Preferences		Refer to Multistream Preferences, page 232.
Milestone Engine IP Address	IP address	Displays an IP address.
Milestone Image Server Port	number (defaults to 80)	Configures the DVR port.
Milestone Central Port	number (defaults to 1237)	Defines the port.
Upload Events Port	number (defaults to 1234)	Defines the port.
Credentials, User- name and Password	text	Identify the username and password required to access the DVR.
Milestone Central Credentials, User- name and Password	text	Identify the username and password required to access the server.

Monitor properties

Property	Value	Description
Ping Enabled	true (default) or false	Turns the use of the ping monitor on and off.
Ping Frequency	hours minutes seconds	Defines how frequently the system pings the server.
Alarm On Failure	true (default) or false	Controls whether or not the system issues an alarm when a ping fails.
Startup Alarm Delay	hours minutes seconds	Defines a waiting period before the system issues an alarm when the ping fails.

Multistream Preferences

Property	Value	Description	
Preferred Back- ground Color	color chooser (de- faults to black)	Opens the color chooser. The color you select affects the bor- der or margin area around the video display.	
Preferred Aspect Ratio	drop-down list (de- faults to Standard Definition (1.33:1))	Defines the ratio of the width to the height of the video frame. Options include Inherit from camera (default), Standard Def- inition, Inherit from Stream, Fit to Screen, etc.	
		Resolution at the device or network may linked to the video stream options and inherited. In some cases, this may ad- versely affect the aspect ratio of your streaming video. If video images display distorted, try setting the camera's Preferred Aspect Ratio to the Standard Definition option.	
Preferred Resolution	drop-down list (de- faults to High)	Specifies the pixel resolution of each transmitted frame. Options are: High, Medium, or Low. The actual pixel values for these three relative settings are defined in the video device.	
Preferred Frame Rate	drop-down list (de- faults to Low)	Defines the speed of the video stream. Options are: Low, Me- dium, and High. You can configure each rate.	
Preferred Compression	drop-down list (de- faults to Medium)	Specifies what level of compression is used during live video streaming. The actual compression values for these relative settings are defined in the video device. Higher compression uses less bandwidth but negatively affects image quality. Op- tions are: None, Low, Medium, or High	
Preferred Video Stream Fox	drop-down list (de- faults to Inherit)	For a network component, selects (true) or declines (false) the use of Fox streaming.	
		For a child component (DVR, NVR or camera) selects or de- clines the use of Fox streaming at the child component level.	
		Inherit sets this property to the value set for its parent com- ponent (the DVR, NVR or network component).	
		Yes sends the video stream from the video camera to the sta- tion (controller) and then forwards it to the Workbench inter- face through the standard Fox/Foxs connection. This overcomes fire wall issues in the event that the video surveil- lance system is not exposed to the outside world on its network.	
		NOTE: This option assumes that the controller is exposed - otherwise you could not even connect to the station.	
		No sends the video stream directly from the video camera to the interface. Using this setting allows you to set the Pre- ferred Resolution and Frame Rate to High without im- pacting CPU usage. In essence, this removes the station from the equation.	
		In all cases, the client-side computer expends some of its CPU utilization to render the video on the screen.	

Property	Value	Description
Timestamp Preferred	true (default) or false	Configures the camera to record and display (true) a time- stamp on the video.
Interframe Timeout	hours, minutes, seconds	Defines the maximum amount of time permitted to elapse be- tween frames. A video stream that takes longer than this amount of time to retrieve a video frame needs to be re- established.

Milestone New DVR window

This window configures Milestone DVR properties

Figure 216	New DVR window
------------	----------------

New	
Display Name	Milestone Dvr
Description	DVR in Lobby
Fox Video Stream Preferred	Inherit 🗸
Milestone Engine Ip Address	###.###.###
Milestone Image Server Port	80
Milestone Central Port	1237
Upload Events Port	1234
Credentials	Username Password ••••••
Milestone Central Credentials	Username Name
Ok	Cancel

You open this window from the main menu by clicking **Controller Setup** \rightarrow **Remote Devices** \rightarrow followed by double-clicking the Milestone Network row in the table, clicking the DVRs tab., and clicking the New button (19).

Properties

Property	Value	Description
Display Name	text	Provides a unique name for the DVR.
Description	text	Provides additional information about the DVR.
Fox Video Stream Preferred	true or false (default)	
Milestone Engine Ip Address	IP address	Identifies the DVR software by its IP address.
Milestone Image Server Port	number	Identifies the port to use by the Image server (one of Mile- stone's two servers).
Milestone Central Port	number	Identifies the port used by the Central server (the other of Milestone's two servers).
Upload Events Port	number	Not supported inNiagara Enterprise Security 4.8 or later.

Property	Value	Description
Credentials	Username and Password	Specifies the credentials required for the Milestone Image Server, which supports live playback video streaming.
Milestone Central Credentials	Username and Password	Specifies credentials the required by the Central server, which supports motion events.

Milestone Displays tab

This view manages the Milestone display(s).

Figure 217 Displays view

🚰 Home 🛛 ốơ Monitoring	La Persor	nnel 📄 Repo	orts 💣 Sys	tem Setup	🛕 Threat Lev	/els
📄 Schedules 🛛 👗 User Ma	anagement	1 Backups	💣 Remote D	evices 💣	Access Setup	ð
🗟 Save 🔯 Milestone Ne	etwork					
Milestone Dvr Cameras	Displays					
9900						
Display Name ٨		Description			Status	
Milestone Video Display		Security Statio	on Monitor		{ok}	
<						>

Buttons

In addition to the standard buttons (Delete, Filter, Refresh and Export), these buttons support Milestone displays.

- I New opens the **New** window for adding a Milestone display. This window contains two properties: Display Name, and Description.
- 🕑 Edit opens the component's Edit window.
- 🔳 or 📀 Ping (or wink) sends a command to the remote device or server.
- 🙆 Hyperlink opens the Display camera grid.

Columns

Column	Description
Display Name	Displays the name given to this display when the database record was created.
Description	Displays additional information about the display, such as its location, etc.
Status	Reports the current condition of the entity as of the last refresh: {alarm}, {disabled}, {down}, {fault}, {ok}, {stale}, {unackedAlarm}

X Protect DVRs tab

This tab and view list the DVRs (Digital Video Recorders) supported by the Milestone xprotect driver.

Figure 218 Milestone X Protect DVRs tab

Milestone X Protect Network DVRs	
οt I II - Λ	
Display Name 🔨 Descriptio	n Status
X Protect Management Server	{fault}

You access this view from the main menu by clicking **System Setup→Remote Devices→Drivers** followed by double-clicking the Milestone XProtect Network row in the table, and clicking the **DVRs** tab.

>

Buttons

<

In addition to the standard buttons (Delete, Filter, Refresh and Export), these buttons support Milestone X Protect DVRs.

- In New opens the **New** window for adding a DVR.
- 🕑 Edit opens the component's Edit window.
- 🔟 or 🖸 Ping (or wink) sends a command to the remote device or server.
- Willestone Dvr tab.

Columns

Column	Description
Display Name	Displays the name given to this DVR when the database record was created.
Description	Displays additional information about the DVR, such as its location, etc.
Status	Reports the current condition of the entity as of the last refresh: {alarm}, {disabled}, {down}, {fault}, {ok}, {stale}, {unackedAlarm}

X Protect Management Server tab

This tab configures server properties.

Figure 219 X Protect Management Server tab

🔚 Save 🔯 Milestone X Pro	tect Network	
X Protect Management Serve	r Cameras Recording Servers	
Status {	fault}	
Enabled t	ue 🗸	
Fault Cause		
Health Fa	il [null]	
Alarm Source Info Al	Alarm Source Info »	
Monitor Vi	Video Dvr Ping Monitor »	
Fox Video Stream Preferred Inherit 🗸		
Multistream Preferences X	X Protect Multistream Preferences »	
Connection -	Disconnected »	
Poll Frequency S	low 🗸	

In addition to the standard properties (Status, Enabled, Fault Cause, Health, and Alarm Source Info), these properties support the Milestone X Protect Management Server.

Property	Value	Description
Monitor	additional properties	Refer to Monitor properties, page 237.
Fix Video Stream Preferred	drop-down list	Configures the source of the video stream.
Multistream Preferences	additional properties	Refer to Multistream Preferences, page 237.
Connection	additional properties	Refer to Connection properties, page 238.
Poll Frequency	drop-down list, de- faults to <code>Slow</code>	Selects polling frequency. The Polling Service defines the value for each rate.
		Fast defines a target polling rate—often one second.
		Normal defines a medium target polling rate—often five seconds.
		Slow defines a moderate target polling rate—often 30 seconds.

Monitor properties

Property	Value	Description
Ping Enabled	true (default) or false	Controls the monitor ping.
		true a ping occurs for each device under the network, as needed.
		false device status pings do not occur. The device status can- not change from what existed when this property was last true.
		It is recommended you leave Ping Enabled as true in almost all cases.
Ping Frequency	hours:minutes: seconds	Specifies the interval between periodic pings of all devices. Typical default value is every 5 minutes (05m 00s), you can ad- just differently if needed.
Alarm On Failure	true (default) or false	Controls the recording of ping failure alarms.
		If true, the system records an alarm in the station's AlarmHis- tory upon each ping-detected device event ("down" or subse- quent "up").
		If false, the system ignores and does not record device "down" and "up" events in the station's AlarmHistory.

Multistream Preferences

Property	Value	Description
Preferred Back- ground Color	opens a color chooser (defaults to black)	Opens the color chooser. The color you select affects the bor- der or margin area around the video display.
Preferred Aspect Ratio	drop-down list (de- faults to Standard Definition (1.33:1))	Defines the ratio of the width to the height of the video frame. Options include Inherit from camera (default), Standard Def- inition, Inherit from Stream, Fit to Screen, etc.
		Resolution at the device or network may linked to the video stream options and inherited. In some cases, this may ad- versely affect the aspect ratio of your streaming video. If video images display distorted, try setting the camera's Preferred Aspect Ratio to the Standard Definition option .
Preferred Resolution	drop-down list, de- faults to High	Specifies the pixel resolution of each transmitted frame. Op- tions are: High, Medium, or Low. The actual pixel values for these three relative settings are defined in the video device.
Preferred Frame Rate	drop-down list, de- faults to Low	Defines the speed of the video stream. Options are: Low, Me- dium, and High. You can configure each rate.
Preferred Compression	drop-down list, de- faults to Medium	Specifies what level of compression is used during live video streaming. The actual compression values for these relative settings are defined in the video device. Higher compression uses less bandwidth but negatively affects image quality. Op- tions are: None, Low, Medium, or High
Preferred Video Stream Fox	drop-down list, de- faults to Inherit	For a network component, selects (true) or declines (false) the use of Fox streaming.

Property	Value	Description
		For a child component (DVR, NVR or camera) selects or de- clines the use of Fox streaming at the child component level.
		Inherit sets this property to the value set for its parent component (the DVR, NVR or network component).
		Yes sends the video stream from the video camera to the sta- tion (controller) and then forwards it to the Workbench inter- face through the standard Fox/Foxs connection. This overcomes fire wall issues in the event that the video surveil- lance system is not exposed to the outside world on its network.
		NOTE: This option assumes that the controller is exposed - otherwise you could not even connect to the station.
		No sends the video stream directly from the video camera to the interface. Using this setting allows you to set the Pre- ferred Resolution and Frame Rate to High without im- pacting CPU usage. In essence, this removes the station from the equation.
		In all cases, the client-side computer expends some of its CPU utilization to render the video on the screen.
Timestamp Preferred	true (default) or false	Configures the camera to record and display (true) a timestamp on the video.
Interframe Timeout	hours, minutes, seconds	Defines the maximum amount of time permitted to elapse be- tween frames. A video stream that takes longer than this amount of time to retrieve a video frame needs to be re- established.

Connection properties

Duanautur		Value	Dee		
			Server Id		23a519c0-8b47-41db-b65a-be1bbbd6e4d6
		Auth Attributes Token Expira Uri			https://192.168.1.111/
				oiration	07 • Nov • 2019 09 • 23 • AM • IST
			Token		TOKEN#956c75cf-1c39-4a8d-bc5c-9720f942360c#
Connection			X Protect Auth	Attribute	5 ≽
		Connection State	Connected	•	
			Password	•••••	
			Username	admin	
		Auth	Domain		
			Auth Type	Basic	v
			X Protect Auth	Config 🛠	
		Host Name	192.168.1.111	L	
Figure 220	Connectio	Connection properties			

Property	Value	Description
Host Name	text	Defines the xprotect corporate server's host name.
Auth, Auth Type	drop-down list (de- faults to Basic)	Defines the type of authentication to use to access the Mile- stone corporate server: Basic or Windows-based user authentication.

Property	Value	Description
Auth, Domain	domain name format	Defines the domain name when the authentication type is Windows.
Auth, Username	text	Defines the user name required by the Milestone corporate server.
Auth, Password	text	Defines the password required by the Milestone corporate server.
Connection State	read-only	Reports the status of the connection.
Auth Attributes, Token	read-only	Indicates the token Enterprise Security receives upon comple- tion of a successful authentication. This token is used later.
Auth Attributes, Token Expiration	read-only	Indicates when the token becomes no longer valid. Until this date, the system uses the token in any number of image-server connect requests. During an open image-server session, the token stands in for the user name and password. The frame- work sends a request for a new token before the current token expires.
Auth Attributes, Uri	read-only	Reports the URI to which to connect to get an updated token.
Auth, Server Id	read-only	Identifies the Milestone xprotect corporate server.

X Protect Recording Servers tab

This tab and view list the X Protect recording servers associated with the xprotect driver.

Figure 221 X Protect Recording Servers view



You access this view from the main menu by clicking **System Setup→Remote Devices→Drivers** followed by double-clicking the Milestone X Protect Network row in the table, and clicking the **Recording Servers** tab.

Buttons

In addition to the standard buttons (Discover, Delete, Filter, Refresh and Export), these buttons support X Protect servers

- 1 New opens the **New** window for adding an X Protect server.
- Delt opens the component's Edit window.
- 🔳 or 📀 Ping (or wink) sends a command to the remote device or server.
- 🙆 Hyperlink opens the X Protect Recording Server view.

Columns

Column	Description
Display Name	Displays the name given to this X Protect server when the database record was created.
Description	Displays additional information about the server, such as its location, etc.

X Protect Recording Server tab

This tag configures properties for the X Protect Recording Server.

Figure 222 X Protect Recording Server tab

🔒 Save 윝	X Protect Management Server
X Protect Reo	ording Server
Status	{ok}
Enabled	true 🗸
Id	Description ,Server Type ,Hostname ,Port -1,Id »
Poll Frequency	Slow 🗸

You access this view from the main menu by clicking **System Setup→Remote Devices→Drivers** followed by double-clicking the Milestone X Protect Network row in the table, and clicking the **Recording Servers** tab, followed by double-clicking a server row.

>

Properties

<

In addition to the standard properties (Status and Enabled), these properties support an X Protect recording server.

Property	Value	Description
Id	additional properties	Refer to Id properties, page 240.
Poll Frequency	drop-down list, de- faults to <code>Slow</code>	Selects polling frequency. The Polling Service defines the value for each rate.
		Fast defines a target polling rate—often one second.
		Normal defines a medium target polling rate—often five seconds.
		Slow defines a moderate target polling rate—often 30 seconds.

Id properties

Property	Value	Description
Description	text	Defines the name of the server that appears in the manager view.
Server Type	drop-down list	Selects the type of server.
Hostname	text	Defines the server host name.
Port	number	Defines the port with which the server communicates.
Id	number	Defines a unique ID for the server.

Maxpro Nvrs tab

This tab and view list the NVRs (Network Video Recorders) supported by the Maxpro driver.

Figure 223 Maxpro Nvrs tab

ස් Home රං Monitoring	Personnel Rep	orts 💣 System Setup 🛕 Threat Le	vels IICQCIC
📑 Schedules 🛛 👗 User Ma	nagement 📭 Backups	Remote Devices Access Setup	Intrusion Setup
🕞 Save 🔯 Drivers			
Maxpro Network DVRs			
P 🖻 🔵 🔘 🎯	\$		
Display Name ٨	Description	videoDeviceId.id	Status
Maxpro Nvr	Lobby		{ok}

You access this view from the main menu by clicking **System Setup→Remote Devices→Drivers** followed by double-clicking the Maxpro Network row in the table, and clicking the **NVRs** tab.

Buttons

In addition to the standard buttons (Delete, Filter, Refresh and Export), these buttons support Maxpro NVRs.

- In New opens the **New** window for adding a new NVR.
- Delt opens the component's Edit window.
- 🔟 or 🕐 Ping (or wink) sends a command to the remote device or server.
- Byperlink opens the NVR view at the Maxpro tab.

Columns

Column	Description
Display Name	Displays the name given to this NVR when the database record was created.
Description	Displays additional information about the NVR, such as its location, etc.
videoDeviceId.id	Displays the ID of this video device.
Status	Reports the current condition of the entity as of the last refresh: {alarm}, {disabled}, {down}, {fault}, {ok}, {stale}, {unackedAlarm}

Maxpro NVR tab

This tab configures the maxpro driver to support an NVR.

Figure 224 Maxpro NVR tab

🚰 Home 🛛 ốơ Monitoring 🔒	Personnel Reports System Setup				
📰 Schedules 🛛 👗 User Manager	nent 📑 Backups 💣 Remote Devices 💣 Access Setup 💣				
🔚 Save 🔯 Maxpro Network					
Maxpro Nvr Cameras					
Status	{ok}				
Enabled	true 🔻				
Fault Cause					
Health	Fail [13-Dec-19 10:19 AM EST] Connection timed out: connect				
Alarm Source Info	Alarm Source Info »				
Video Device Id	Description Lobby,Id »				
Monitor	Video Dvr Ping Monitor »				
Address	Maxpro Ip Address »				
Fox Video Stream Preferred	Inherit 🔻				
Multistream Preferences	Maxpro Multistream Preferences »				
Poll Frequency	Slow •				
Poll Events Enabled	false 🔻				
Read Events From	12 T - Dec T - 2019 04 T : 14 T PM T EST				
Event Read Count	10 [1 - 100]				
Credentials	Username LobbyNvr Password ••••••				

You access this view from the main menu by clicking **System (Setup) Controller→Remote Devices→-Drivers** followed by double-clicking the Maxpro Network row in the table, clicking the **NVRs** tab and double-clicking the NVR row in the table.

In addition to the common **Status**, **Enabled**, **Fault Cause**, **Health**, and **Alarm Source Info** properties, these properties support the NVR.

Property	Value	Description	
Video Device Id, Description	text	Identifies the Display Name and Description for the NVR.	
Monitor	additional properties	Links to a set of properties for configuring the ping monitor (the mechanism for confirming the health of devices on the network). Refer to Monitor properties, page 243.	
Address	IP address	Defines the Maxpro IP address.	
Fox Video Stream Preferred	drop-down list	For a network component, selects (true) or declines (false) the use of Fox streaming.	
		For a child component (DVR, NVR or camera) selects or de- clines the use of Fox streaming at the child component level.	
		Inherit sets this property to the value set for its parent com- ponent (the DVR, NVR or network component).	
		Yes sends the video stream from the video camera to the sta- tion (controller) and then forwards it to the Workbench inter- face through the standard Fox/Foxs connection. This overcomes fire wall issues in the event that the video surveil- lance system is not exposed to the outside world on its network.	

Property	Value	Description		
		NOTE: This option assumes that the controller is exposed - otherwise you could not even connect to the station.		
		No sends the video stream directly from the video camera to the interface. Using this setting allows you to set the Pre- ferred Resolution and Frame Rate to High without im- pacting CPU usage. In essence, this removes the station from the equation.		
		In all cases, the client-side computer expends some of its CPU utilization to render the video on the screen.		
Multistream Preferences	additional properties	Refer to Multistream Preferences, page 244.		
Poll Frequency	drop-down list (de- faults to Slow)	 Selects among three rates (Fast, Normal and Slow) to determine how often to query the component for its input value. The network's Poll Service defines these rates in hours, minutes and seconds. For example: 		
		Fast may set polling frequency to every second.		
		Normal may set poll frequency to every five seconds.		
		Slow may set poll frequency to every 30 seconds.		
Poll Events Enabled	true or false (default)	Enables or disables the Poll Scheduler.		
Read Events From	from and to dates	Defines a selected period from which to report events.		
Event Read Count	number	Configures the number of events to report.		
Credentials, User- name and Password	text	Defines the user name and password required to access the NVR.		

Monitor properties

Property	Value	Description
Ping Enabled	true (default) or false	Turns the use of the ping monitor on and off.
Ping Frequency	hours minutes seconds	Defines how frequently the system pings the server.
Alarm On Failure	true (default) or false	Controls whether or not the system issues an alarm when a ping fails.
Startup Alarm Delay	hours minutes seconds	Defines a waiting period before the system issues an alarm when the ping fails.

Multistream Preferences

Property	Value	Description	
Preferred Back- ground Color	color chooser (de- faults to black)	Opens the color chooser. The color you select affects the bor- der or margin area around the video display.	
Preferred Aspect Ratio	drop-down list (de- faults to Standard Definition (1.33:1))	Defines the ratio of the width to the height of the video frame. Options include Inherit from camera (default), Standard Def- inition, Inherit from Stream, Fit to Screen, etc.	
		Resolution at the device or network may linked to the video stream options and inherited. In some cases, this may ad- versely affect the aspect ratio of your streaming video. If video images display distorted, try setting the camera's Preferred Aspect Ratio to the Standard Definition option.	
Preferred Resolution	drop-down list (de- faults to High)	Specifies the pixel resolution of each transmitted frame. Options are: High, Medium, or Low. The actual pixel values for these three relative settings are defined in the video device.	
Preferred Frame Rate	drop-down list (de- faults to Low)	Defines the speed of the video stream. Options are: Low, Me- dium, and High. You can configure each rate.	
Preferred Compression	drop-down list (de- faults to Medium)	Specifies what level of compression is used during live video streaming. The actual compression values for these relative settings are defined in the video device. Higher compression uses less bandwidth but negatively affects image quality. Op- tions are: None, Low, Medium, or High	
Preferred Video Stream Fox	drop-down list (de- faults to Inherit)	For a network component, selects (true) or declines (false) the use of Fox streaming.	
		For a child component (DVR, NVR or camera) selects or de- clines the use of Fox streaming at the child component level.	
		Inherit sets this property to the value set for its parent component (the DVR, NVR or network component).	
		Yes sends the video stream from the video camera to the sta- tion (controller) and then forwards it to the Workbench inter- face through the standard Fox/Foxs connection. This overcomes fire wall issues in the event that the video surveil- lance system is not exposed to the outside world on its network.	
		NOTE: This option assumes that the controller is exposed - otherwise you could not even connect to the station.	
		No sends the video stream directly from the video camera to the interface. Using this setting allows you to set the Pre- ferred Resolution and Frame Rate to High without im- pacting CPU usage. In essence, this removes the station from the equation.	
		In all cases, the client-side computer expends some of its CPU utilization to render the video on the screen.	
Timestamp Preferred	true (default) or false	Configures the camera to record and display ($true$) a timestamp on the video.	
Interframe Timeout	hours, minutes, seconds	Defines the maximum amount of time permitted to elapse be- tween frames. A video stream that takes longer than this	

Property	Value	Description		
		amount of time to retrieve a video frame needs to be re- established.		
Lo Frame Rate	from one (1) to 30 frames per second (defaults to 4)	Configures what a low frame rate means.		
Med Frame Rate	from one (1) to 30 frames per second (defaults to 15)	Configures what a medium frame rate means.		
Hi Frame Rate	from one (1) to 30 frames per second (defaults to 30)	Configures what a high frame rate means.		

Maxpro New and Edit NVR windows

This window configures an NVR for use on a Maxpro network.

Figure 225 Example of a New NVR window

Edit			
Name	Maxpro Nvr		
Description	New		
Ip Address Http Port	Display Name	Maxpro Nvr	
Fox Video Stre	Description Ip Address Http Port	Lobby	
		192.168.1.3	
Credentials		443	
	Fox Video Stream Preferred	Inherit 🔻	
	Credentials	Username LobbyNvr Password ••••••	
	Ok	Cancel	

Property	Value	Description
Display Name/ Name	text	Defines a short name for the Nvr.
Description	text	Provides an opportunity for additional information.
Ip Address	IP address	Defines the IP address of the Nvr.
Http Port	number (defaults to 443)	Defines the Internet port over which to transmit the Nvr data. 443 supports only secure communication (TLS).
		RTSP does not support TLS. If your application requires RTSP, change this property to 80.
		CAUTION: Be aware that the framework cannot prevent a flooding attack or other malicious activity if you choose to configure your application without secure communication.
Fox Video Stream Preferred		
Credentials		Sets up the user name and password required by the Nvr.

Maxpro camera Preferences window

This window configures Maxpro camera properties

Figure 226	Maxpro camera Preferences property	1
------------	------------------------------------	---

Preferences
Do Not Ask Again true 🔻
Ok Cancel

You open this window from the main menu by clicking **Controller (System) Setup→Remote Devices→Remote Drivers**, double-clicking the Maxpro Network, clicking the NVRs tab, double-clicking a row in the NVR

Manager table, followed by selecting an existing camera and clicking the Preferences button (🖉).

Property	Value	Description
Do Not Ask Again	true (default) or false	

Maxpro New and Edit camera windows

This window configures camera properties



Edit					
Name	Maxpro Can	nera			
Description	New				
Camera Id					
	Display Name		Maxpro Cam	era	
	Description				
	Camera Id		0		
Ptz Support					
			Supports	Pan Tilt	false 🔻
			Supports	Zoom	false ▼
	Ptz Support		Supports	Focus	false ▼
Preferred Reso			Supports	Iris	false ▼
Preferred Fram			Supports	Move To Pres	set false ▼
Preferred Com			Supports	Store Preset	false ▼
Preferred Video	Preferred Resolution	1	High 🔻		
Normal Speed	Preferred Frame Rat	te	Low 🔻		
Fast Speed	Preferred Compress	ion	Medium 🔻		
Use Rtsp Strea	Preferred Video Stre	am Fox	Inherit 🔻		
	Normal Speed		Speed _1	*	
	Fast Speed		4		
	Use Rtsp Stream		false ▼		
		Ok	Cancel		

You open this window from the main menu by clicking **Controller (System) Setup→Remote Devices→Remote Drivers**, double-clicking the Maxpro Network, clicking the NVRs tab, double-clicking a row in the NVR

Manager table, followed by clicking the New button (¹) or selecting an existing camera and clicking the Edit button (²).

Property	Value	Description	
Display Name/ Name	text	Provides a short name for the camera.	
Description	text	Provides a longer name for the camera. This name could in- clude the camera's location or special configuration properties.	
Camera Id	number	Assigns a number to the camera.	
Ptz Support	additional properties	Turns Pan Tilt, Zoom, Focus, Iris, Move To Preset, and Store Preset features on (true), and off (false). Your camera may or may not support these features. For each feature the cam- era supports, select true. For unsupported features, select false.	
		NOTE: If these properties are not enabled, PTZ functions do not work. This means that any widgets that use PTZ controls do not work.	
Control Timing	hours, minutes and seconds	Configures intervals between actions and timeout values. These settings affect how long a camera continues to respond to control communications after a control message is received. The reason for these limits is to prevent a camera from being left in a state of continual movement or adjustment (iris, focus, or zoom) in case communication with the device is lost.	
Preferred Resolution	drop-down list	Specifies the pixel resolution of each transmitted frame. Options are: High, Medium, or Low. The actual pixel values for these three relative settings are defined in the video device.	
Preferred Frame Rate	drop-down list	Defines the speed of the video stream. Options are: Low, Me- dium, and High. You can configure each rate.	
Preferred Compression	drop-down list	Specifies what level of compression is used during live video streaming. The actual compression values for these relative settings are defined in the video device. Higher compression uses less bandwidth but negatively affects image quality. Op- tions are: None, Low, Medium, or High	
Preferred Video Stream Fox	drop-down list	Configures the degrees of pan and tilt and the speed at which the camera zooms in and out. Values depend on the specific camera.	
Normal Speed	true or false	Turns the automatic configuration of the Ptz properties on true and off false.	
Fast Speed	drop-down list	Defines the speed of a quick pan or tilt.	
Use Rtsp Stream	true or false (default)	Turns RTSP (Real Time Streaming Protocol) on and off. This protocol controls a camera using DVD-style controls (play, pause, etc.)	
		CAUTION: RTSP does not support TLS secure communication. Using this protocol may open your video network to be hacked.	
		true enables RSTP streaming.	
		false enables HPS (Honeywell Progressive Streaming). Playback video always streams using HPS.	

Video camera views

The system supports video cameras from these manufacturers: Axis, Milestone and Maxpro. For the specific models supported, refer to the manufacturer's documentation.

Axis

Axis network cameras function in many environments. To add one of these cameras to your network, navigate to **Controller Setup**→**Remote Devices**→**Remote Drivers** and add an Axis Video Network or doubleclick the existing Axis Video Network row in the table. Next click the **Cameras** tab and discover already connected cameras or add one or more new cameras.

Milestone cameras and displays

Milestone cameras are specifically designed for building management applications. To add one of these cameras or a display to your network, navigate to **Controller Setup**→**Remote Devices**→**Remote Drivers** and add a Milestone Network (driver: nmilestone) or a MilestoneXProtectNetwork (driver: xprotect), or double-click the existing row in the table. Next click the **DVRs** tab, add a DVR, double-click its row in the table, and click the Cameras tab. Finally, discover already connected cameras or add one or more new cameras.

To add a display, click the Displays tab under the Milestone DVR view.

Maxpro cameras

Maxpro cameras support building management applications. To add one of these cameras to your network, navigate to **Controller Setup→Remote Devices→Remote Drivers** and add a Maxpro Network (driver: maxpro) or double-click the existing row in the table. Next click the **NVRs** tab, add an NVR, double-click its row in the table, and click the Cameras tab. Finally, discover already connected cameras or add one or more new cameras.

Display camera grid

This view displays live video feeds from up to nine cameras.

😚 Home 🛛 నిరా Monitoring 🔒 Pers	onnel 📄 Reports 💣 System Setup 🛕 The	reat Levels
📄 Schedules 🛛 🚨 User Management	🞼 Backups 💣 Remote Devices 💣 Access	Setup 💣 Intrusion Setup 💣 Alarm Setup 💣 Miscell
Drag a Camera into a Grid Cobby NAxisVideoCamera Xis Video Camera	05-Oct-18 11:30:10.430 AM 21	04 Feb-20 8:08:59.801 AM EST
Aspect Ratio Inherit from camera Frame Rate Low Resolution Low Compression Low Layout Save Refresh	×	
<		>

Figure 228 Display camera grid

Properties

Property	Value	Description
Aspect Ratio	drop-down list	Specifies the ratio of the image width to image height.
Frame Rate	drop-down list	Defines the frequency (rate) at which an imaging device displays consecutive images called frames.
Resolution	drop-down list	Defines number of distinct pixels in each dimension that the view can display.
Compression	drop-down list	Defines the quality of the image. The more an image is com- pressed to reduce its file size the lower the quality of the image.
Layout	drop-down	Selects the nature of the grid.

Axis Cameras tab

This view discovers and configures an Axis camera.

Figure 229 Axis Video Network, Cameras tab

🚰 Home 🛛 ốơ Moni	itoring 🔒 Person	nel 📄 Reports	🖑 System Se	etup 🛕 Threat Lev	vels []]C
📄 Schedules 🛛 🙈	User Management	📭 Backups 🧃	Remote Devices	Access Setup	💣 Intrusic
🔚 Save 🔯 Drive	ers				
Axis Video Network Cameras					
🙀 🖸 🖻 🤤		TR R			
Display Name ٨	Description	URL Address	Web Port	Status	
NAxisVideoCamera	NAxisVideoCamera	172.16.10.21	2 443	{down,alarm,unack	edAlarm}

You access this tab from the main menu by clicking **Controller Setup→Remote Devices→Remote Drivers** followed by double-clicking the Axis Video Network row in the table, and clicking the **Cameras** tab.

Buttons

In addition to the common control buttons (Discover, New, Edit Delete, Hyperlink, Filter, Refresh, Export and Learn Mode), these buttons provide camera functions:

- 🔟 or 📀 Ping (or wink) sends a command to the remote device or server.
- Preferences opens a Preferences window with common configuration properties.

Columns

Column	Description
Display Name	Reports the camera name.
Description	Provides additional information.
URL Address	Identifies the camera's address, usually the IP address.
Web Port	Reports the port used to communicate with the camera feed over the Internet. Port 433 is secure; 80 is not.
Status	Reports the current condition of the entity as of the last refresh: {alarm}, {disabled}, {down}, {fault}, {ok}, {stale}, {unackedAlarm}

Axis New camera window

This window configures camera properties.

Figure 230New Axis camera window

New		
Display Name	Axis Video Camera	
Description		-1
Url Address	###.###.###.###	-1
Web Port	443	
	Supports Pan Tilt false	۲
	Supports Zoom false	•
Ptz Support	Supports Focus false	•
	Supports Iris false	•
	Supports Move To Preset false	•
	Supports Store Preset false	•
Preferred Resolution	High 🔻	
Preferred Frame Rate	Low V	
Preferred Compression	Medium 🔻	
Preferred Video Stream Fox	Inherit 🔻	
	Username	
Credentials	Password	1
Use Tcn Transport	true T	
Use Rtsp Stream	false V	
Rtsp Username	root	
Rtsp Password	•••••	
Host Name		
Web Client Http Port	80	
Web Client Https Port	443	
Token Over Https	true 🔻	
Web Auth Scheme	Token Or Browser 🔻	
	Canal	
0	Cancel	

Property	Value	Description
Display Name	text	Defines the name of the camera that appears in the Camera Manager view.
Description	text	Provides an opportunity for additional information.
Url Address	text	Defines a URL or IP address for the camera.
Web Port	number (defaults to 443)	Defines the port, when using the web UI, over which to trans- mit the camera's video signal. 443 supports only secure com- munication between the camera and the station.
		For a camera that does not support TLS secure communica- tion, that is, if Use Rtsp Stream is true or if you are using the HTTP protocol (Use Tls is false and Use Rtsp Stream is false), change this property to 80.
		CAUTION: Be aware that the framework cannot prevent a flooding attack or other malicious activity if you choose to configure your application without secure communication.
		If using fox streaming, which uses the station to render the vid- eo stream, this port should be different from the station's fox

Property	Value	Description	
		port. If you are not using fox streaming, this port should be the same as the station's fox port.	
Ptz Support, Pan	true or false	Turns these camera features on (true), and off (false).	
lilt, Zoom, Focus, Iris, Move to Pre- set, Supports Tore Preset	(default)	NOTE: If these properties are not enabled, PTZ functions do not work. This means that any widgets that use PTZ controls do not work.	
Preferred Resolution	drop-down list, de- faults to High	Specifies the pixel resolution of each transmitted frame. Options are: High, Medium, or Low. The actual pixel values for these three relative settings are defined in the video device.	
Preferred Frame Rate	drop-down list, de- faults to Low	Defines the speed of the video stream. Options are: Low, Me- dium, and High. You can configure each rate.	
Preferred Compression	drop-down list, de- faults to Medium	Specifies what level of compression is used during live video streaming. The actual compression values for these relative settings are defined in the video device. Higher compression uses less bandwidth but negatively affects image quality. Op- tions are: None, Low, Medium, or High	
Preferred Video Stream Fox	drop-down list, de- faults to Inherit	For a network component, selects (true) or declines (false) the use of Fox streaming.	
		For a child component (DVR, NVR or camera) selects or de- clines the use of Fox streaming at the child component level.	
		Inherit sets this property to the value set for its parent component (the DVR, NVR or network component).	
		Yes sends the video stream from the video camera to the sta- tion (controller) and then forwards it to the Workbench inter- face through the standard Fox/Foxs connection. This overcomes fire wall issues in the event that the video surveil- lance system is not exposed to the outside world on its network.	
		NOTE: This option assumes that the controller is exposed - otherwise you could not even connect to the station.	
		No sends the video stream directly from the video camera to the interface. Using this setting allows you to set the Pre- ferred Resolution and Frame Rate to High without im- pacting CPU usage. In essence, this removes the station from the equation.	
		In all cases, the client-side computer expends some of its CPU utilization to render the video on the screen.	
Credentials, User- name and Password	text	Defines the credentials required by the system to connect the camera to the station.	
Use Tcp Transport	true (default) or false	Transport Control Protocol (TCP) is selected by default.	
Use Rtsp Stream	true or false (default)	Turns RTSP (Real Time Streaming Protocol) on and off. This popular protocol controls a camera using DVD-style controls (play, pause, etc.)	

Property	Value	Description
Rtsp Username	text, defaults to root	Defines the username required by RTSP to control the camera.
Rtsp Password	text	Defines the password required by RTSP to control the camera.
Host Name	URL (in the follow- ing format): <ip-address>/axis- media/media. amp></ip-address>	Defines the host, which is required by RTSP.
Web Client Http Port	number (defaults to 80)	Identifies the standard port (not secure) used to communicate the camera feed over the Internet.
		If using fox streaming to have the station render the video stream, this port should be different from the station's fox port. If you are not using fox streaming, this port should be the same as the station's fox port.
Web Client Https Port	number (defaults to 443)	Identifies the secure port used to communicate the camera feed over the Internet.
		If using fox streaming, which uses the station to render the vid- eo stream, this port should be different from the station's fox port. If you are not using fox streaming, this port should be the same as the station's fox port.
Token Over Https	true (default) or false	Defines the protocol to use when fetching the authentication token from the camera. This property applies only when au- thentication uses the token mechanism.
		true fetches the token from the camera using a secure con- nection (https) when a user logs in to the station. This is the preferred (and default) option.
		false fetches the token from the camera using a connection that is not secure (http).
Web Auth Scheme	drop-down list (de- faults to Token Or Browser)	Selects an authentication scheme for verifying the authenticity of the camera.
		Token retrieves a small piece of code called a token from the camera, which the system uses with digest authentication to validate the camera as a video streaming server.
		Some cameras, such as Axis cameras, whose firmware version is below 7.10, do not support tokens. In this case, use Brows- er or Token Or Browser authentication.
		Browser pops up an authentication window for entering the camera's Username and Password. Once a user enters these credentials, they remain in the browser cache until cache is cleared.
		Token Or Browser attempts token authentication. If token authentication works, streaming video begins. If not, the browser pops up the window for entering the camera's credentials.
Axis Video Camera tab

This tab edits the discovered Axis video camera properties.

Figure 231	Axis Video Camera	properties
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🚰 Home 🛛 ốơ Monitoring 🗍	Personnel Reports System Setup		
冒 Schedules 🛛 👗 User Mana	ıgement 🚯 Backups 💣 Remote Devices 💣 Access Setup 💣 Intrusion Setup		
🗟 Save 🔯 Axis Video Netv	vork Live View		
Axis Video Camera Events			
Status	{down,alarm,unackedAlar		
Enabled	true 🔻		
Fault Cause			
Health	Fail [18-Dec-19 3:04 PM EST] No connection established or no response for ping request.		
Alarm Source Info	Alarm Source Info »		
Video Device Id	Description Axis Video Camera,Url Address ###.###.###.###,Web Port 443 \gg		
Ptz Support	»		
Control Timing	Camera Control Timings »		
Video Preferences	Video Source Preferences »		
Credentials	Username Password		
Preset Text	Ordinal Name		
Pan Tilt Zoom Settings	Axis Video Pan Tilt Zoom Settings »		
Resolution Settings	Axis Video Resolution Settings »		
High Compression Codec	Ffmpeg _ C O D E C _ I D _ M P E G4		
Use Tcp Transport	true 🔻		
Use Rtsp Stream	false 🔻		
Rtsp Username	root		
Rtsp Password	•••••		
Host Name			
Control Port	554		
Data Port	9000		
Web Client Http Port	80		
Web Client Https Port	443		
Token Over Https	true 🔻		
Web Auth Scheme	Token Or Browser 🔻		

You access this tab from the main menu by clicking **Controller Setup** \rightarrow **Remote Devices** \rightarrow **Remote Drivers** followed by double-clicking the Axis Video Network row in the table, clicking the **Cameras** tab, and double-clicking a camera row in the table.

Links

In addition to the **Save** and **Axis Video Network** links, the **Live View** link opens for viewing the real-time video stream.

Properties

In addition to the common **Status**, **Enabled**, **Fault Cause**, **Health**, and **Alarm Source Info** properties, these properties support the camera.

Property	Value	Description
Video Device Id	additional properties	Refer to Video Device ID, page 256.
Ptz Support	additional properties	Turns Pan Tilt, Zoom, Focus, Iris, Move To Preset, and Store Preset features on (true), and off (false). Your camera may or may not support these features. For each feature the cam- era supports, select true. For unsupported features, select false.
		NOTE: If these properties are not enabled, PTZ functions do not work. This means that any widgets that use PTZ controls do not work.
Control Timing	hours, minutes and seconds	Configures intervals between actions and timeout values. These settings affect how long a camera continues to respond to control communications after a control message is received. The reason for these limits is to prevent a camera from being left in a state of continual movement or adjustment (iris, focus, or zoom) in case communication with the device is lost.
Video Preferences	additional properties	Refer to Video Preferences, page 256.
Credentials, User- name and Password	text	Identify the username and password required to access the station. The camera uses these credentials to connect to the station.
Preset Text	two properties with Add , Edit and Delete buttons	Defines a set of pre-defined camera instructions each as a pair that consists of an integer (ordinal) and text command for con- trolling the camera. What to enter here depends on the camera.
Pan Tilt Zoom Settings	additional properties	Configures the degrees of pan and tilt and the speed at which the camera zooms in and out. Values depend on the specific camera.
Resolution Settings	additional properties	High, Medium, Low
High Compression Codec	drop-down list (de- faults to MPEG4)	Defines the compression codec to use.
Use Tcp Transport	true (default) or false	Transport Control Protocol (TCP) is selected by default.
Use Rtsp Stream	true or false (default)	Turns RTSP (Real Time Streaming Protocol) on and off. This protocol controls a camera using DVD-style controls (play, pause, etc.)
		CAUTION: RTSP does not support TLS secure communication. Using this protocol may open your video network to be hacked.
		true enables RSTP streaming.
		false enables HPS (Honeywell Progressive Streaming). Playback video always streams using HPS.
Rtsp Username	text	Defines the user name required by RTSP to control the camera.
Rtsp Password	text	Defines the password required by RTSP to control the camera.

Property	Value	Description
Host Name	URL <ip-address>/axis- media/media. amp></ip-address>	
Control Port	number (defaults to 554)	Identifies the control port for RTSP streaming.
Data Port	number (defaults to 9000)	Identifies the port used to receive RTSP data. (Could be an open port.)
Web Client Http Port	number (defaults to 80)	Identifies the standard port (not secure) used to communicate the camera feed over the Internet.
		If using fox streaming to have the station render the video stream, this port should be different from the station's fox port. If you are not using fox streaming, this port should be the same as the station's fox port.
Web Client Https Port	number (defaults to 443)	Identifies the secure port used to communicate the camera feed over the Internet.
		If using fox streaming, which uses the station to render the vid- eo stream, this port should be different from the station's fox port. If you are not using fox streaming, this port should be the same as the station's fox port.
Token Over Https	true (default) or false	Defines the protocol to use when fetching the authentication token from the camera. This property applies only when au- thentication uses the token mechanism.
		true fetches the token from the camera using a secure con- nection (https) when a user logs in to the station. This is the preferred (and default) option.
		false fetches the token from the camera using a connection that is not secure (http).
Web Auth Scheme drop-down list (de- faults to Token Or Browser)	Selects an authentication scheme for verifying the authenticity of the camera.	
	Browser)	Token retrieves a small piece of code called a token from the camera, which the system uses with digest authentication to validate the camera as a video streaming server.
		Some cameras, such as Axis cameras, whose firmware version is below 7.10, do not support tokens. In this case, use Brows- er or Token Or Browser authentication.
		Browser pops up an authentication window for entering the camera's Username and Password. Once a user enters these credentials, they remain in the browser cache until cache is cleared.
		Token Or Browser attempts token authentication. If token authentication works, streaming video begins. If not, the browser pops up the window for entering the camera's credentials.

Video Device ID

Property	Value	Description
Description	text	Provides additional information, which could include the camera's geographical location or other unique information.
Url Address	IP address in the format: ###.###. ###.###	Defines the URL or IP address of the video device (camera or DVR).
Web port	number (defaults to 443)	Defines the port, when using the web UI, over which to trans- mit the camera's video signal. 443 supports only secure com- munication between the camera and the station.
		For a camera that does not support TLS secure communica- tion, that is, if Use Rtsp Stream is true or if you are using the HTTP protocol (Use Tls is false and Use Rtsp Stream is false), change this property to 80.
		CAUTION: Be aware that the framework cannot prevent a flooding attack or other malicious activity if you choose to configure your application without secure communication.
		If using fox streaming, which uses the station to render the vid- eo stream, this port should be different from the station's fox port. If you are not using fox streaming, this port should be the same as the station's fox port.

Video Preferences

Figure 232 Video Preferences properties

	Video Source Preferences 🛛	
	Preferred Background Color	
	Preferred Aspect Ratio	Standard Definition (1.33:1)
	Preferred Resolution	High 🗸
Video Preferences	Preferred Frame Rate	Low 🗸
	Preferred Compression	Medium 💙
	Preferred Video Stream Fox	Inherit 🗸
	Timestamp Preferred	true 🗸
	Interframe Timeout	+ V 00000 h 00 m 10 s

Property	Value	Description
Preferred Back- ground Color	color chooser	Assigns a color, gradient, or image to open as the background of the widget.
Preferred Aspect Ratio	drop-down list (de- faults to Standard Definition	Defines the ratio of the width to the height of the video frame. Options include Inherit from camera (default), Standard Def- inition, Inherit from Stream, Fit to Screen, etc.
	(1.33:1))	Resolution at the device or network may linked to the video stream options and inherited. In some cases, this may ad- versely affect the aspect ratio of your streaming video. If video images display distorted, try setting the camera's Preferred Aspect Ratio to the Standard Definition option .
Preferred Resolution	drop-down list (de- faults to High)	Specifies the pixel resolution of each transmitted frame. Op- tions are: High, Medium, or Low. The actual pixel values for these three relative settings are defined in the video device.

Property	Value	Description
Preferred Frame Rate	drop-down list (de- faults to Low)	Defines the speed of the video stream. Options are: Low, Me- dium, and High. You can configure each rate.
Preferred Compression	drop-down list (de- faults to Medium)	Specifies what level of compression is used during live video streaming. The actual compression values for these relative settings are defined in the video device. Higher compression uses less bandwidth but negatively affects image quality. Op- tions are: None, Low, Medium, or High
Preferred Video Stream Fox	drop-down list (de- faults to Inherit)	For a network component, selects (true) or declines (false) the use of Fox streaming.
		For a child component (DVR, NVR or camera) selects or de- clines the use of Fox streaming at the child component level.
		Inherit sets this property to the value set for its parent com- ponent (the DVR, NVR or network component).
		Yes sends the video stream from the video camera to the sta- tion (controller) and then forwards it to the Workbench inter- face through the standard Fox/Foxs connection. This overcomes fire wall issues in the event that the video surveil- lance system is not exposed to the outside world on its network.
		NOTE: This option assumes that the controller is exposed - otherwise you could not even connect to the station.
		No sends the video stream directly from the video camera to the interface. Using this setting allows you to set the Pre- ferred Resolution and Frame Rate to High without im- pacting CPU usage. In essence, this removes the station from the equation.
		In all cases, the client-side computer expends some of its CPU utilization to render the video on the screen.
Timestamp Preferred	true (default) or false	Configures the camera to record and display (true) a time- stamp on the video.
Interframe Timeout	hours, minutes, seconds	Defines the maximum amount of time permitted to elapse be- tween frames. A video stream that takes longer than this amount of time to retrieve a video frame needs to be re- established.

Axis camera Preferences window

This window configures common properties associated with an Axis video camera.

Figure 233 Axis Video Camera Preferences window

Preferences	
Do Not Ask Ag	jain false 🗸
Timeout	+ V 00000 h 00 m 10 s
	Ok Cancel

This window opens from the main menu when you click **Controller (System) Setup→Remote Devices→Remote Drivers** followed by double-clicking the Axis Video Network row in the table, clicking the **Cameras** tab, and clicking the Preferences button ().

Property	Value	Description
Do Not Ask Again	true or false (default)	The false option allows for setting a timeout value. The true option inhibits the Discovery window from opening again before the system initiates the discovery search.
Timeout	hours, minutes, seconds	The maximum amount of time that discovery will attempt to find a camera on the network before reverting to a "timeout" state.

Properties

Axis Events tab

This view discovers events detected by the Axis camera.

Figure 234 Axis Camera Events view

Threat Levels
📄 Schedules 👗 User Management Backups 💣 Remote Devices 💣 Access Setup 💣 Intrusion Setup 💣
Save 🔯 Axis Video Network
Axis Video Camera Events
Display Name 📐
Discovered
Discovered
Event Type Event Exists
Motion Detected false

You access this tab from the main menu by clicking **Controller Setup** \rightarrow **Remote Devices** \rightarrow **Remote Drivers** followed by double-clicking the Axis Video Network row in the table, clicking the **Cameras** tab, double-clicking a camera row in the table, and clicking the **Events** tab.

Links

In addition to the standard **Save** and **Axis Video Network** links, this view provides a link to view the camera feed live (**Live View**).

Buttons

Standard buttons are available in this view. These include Discover, Delete, Rename Filter, Refresh, Export and Learn Mode. These buttons support camera events.

- Image: Hyperlink opens the Configuration tab for the event. Using this tab you can edit event facets, access event proxy extension properties and check event status.
- O Add moves the event to the Database table from where clicking **Save** writes the event record to the station database.

Columns

Column	Description
Display Name	Reports the name of the camera/
Event Type	Reports what caused the system to register an event.
Event Exists	On discovering events, this property reports if the condition currently exists (true) or not (false) in the database. For example, if a "Motion Detected" Event has been added to database previously, then discovery shows that the Event exists already (true).

Milestone Cameras tab

This tab and view manages the cameras connected to the Milestone DVR.

Figure 235 Cameras tab

🚰 Home 🛛 ốơ Monitoring 🧣	Personnel Reports	System Setup
📄 Schedules 🛛 👗 User Manaç	jement 📑 Backups 💣 Ren	note Devices 💣 Access Setup 💣
🗟 Save 🔯 Milestone Netwo	rk	
Milestone Dvr Cameras Di	splays	
P > 0 /)
Display Name \land 🛛 Description	n Camera Id Camera Guid	Status
Milestone Camera	0	{fault,down,alarm,unackedAlarm}
<		>

You access this tab from the main menu by clicking **Controller (System) Setup→Remote Devices→Remote Drivers**, double-clicking the Milestone Network, clicking the DVRs tab, double-clicking a row in the DVR Manager table, followed by clicking the **Cameras** tab.

Buttons

In addition to the standard buttons (Discover, Delete, Filter, Refresh and Export), these buttons support Milestone cameras.

- 🕒 New opens the **New** window for adding a Milestone camera.
- 🕑 Edit opens the component's Edit window.
- 🔟 or 📀 Ping (or wink) sends a command to the remote device or server.
- Configure opens a properties window.
- Where the DVR view at the Milestone Camera tab.

Columns

Column	Description
Display Name	Displays the name given to this camera when the database record was created.
Description	Displays additional information about the camera, such as its location, etc.
Status	Reports the current condition of the entity as of the last refresh: {alarm}, {disabled}, {down}, {fault}, {ok}, {stale}, {unackedAlarm}

Milestone Camera tab

This view manages one or more Milestone cameras.

Figure 236 Milestone Camera tab			
ි Home රං Monitorin	🚰 Home 🛛 🚳 Monitoring 🔒 Personnel 📄 Reports 🕺 System Setup 🔒 Thread		
📑 Schedules 🛛 👗 User	Management 📭 Backups 💣 Remote Devices 💣 Access Sel		
🔒 Save 🔯 Milestone	Dvr E Live View B Playback View		
Milestone Camera Eve	ents		
Status	{fault,down,alarm,unacl		
Enabled	true 🗸		
Fault Cause	Unlicensed: camera.limit		
Health	Fail [31-Aug-18 1:39 PM EDT] Error 404:		
Alarm Source Info	Alarm Source Info »		
Video Device Id Description ,Camera Id 0,Camera Guid »			
Ptz Support »			
Control Timing	ol Timing Camera Control Timings »		
Video Preferences	ideo Preferences Milestone Video Source Preferences »		
Auto Set Ptz Support	true 🗸		
Stop Recording Mode On Timer			
Preset Text Ordinal Name			
0 222			
High Compression Codec Ftmpeg _ C O D E C _ I D _ M P E G4			
1			
<	>		

You access this tab from the main menu by clicking **Controller Setup** \rightarrow **Remote Devices** \rightarrow **Remote Drivers** followed by double-clicking the Milestone Network row in the table, clicking the **Cameras** tab, and double-clicking a Milestone camera row in the table.

Links

In addition to the Milestone Dvr link, which returns to the Milestone table view, this tab provides these links.

- Live View opens the real-time camera feed.
- Playback View opens a view from which you can play back pre-recorded video clips.

Properties

In addition to the standard properties (Status, Enabled, Fault Cause, Health, and Alarm Source Info), these properties support Milestone cameras.

Property	Value	Description
Video Device Id	additional properties	Refer to Video Device Id, page 261.
Ptz Support	additional properties	Turns Pan Tilt, Zoom, Focus, Iris, Move To Preset, and Store Preset features on (true), and off (false). Your camera may or may not support these features. For each feature the cam- era supports, select true. For unsupported features, select false.
		NOTE: If these properties are not enabled, PTZ functions do not work. This means that any widgets that use PTZ controls do not work.
Control Timing	hours, minutes and seconds	Configures intervals between actions and timeout values. These settings affect how long a camera continues to respond to control communications after a control message is received.

Property	Value	Description
		The reason for these limits is to prevent a camera from being left in a state of continual movement or adjustment (iris, focus, or zoom) in case communication with the device is lost.
Video Preferences	additional properties	Refer to Video Preferences, page 256.
Auto Set Ptz Support	true or false	Turns the automatic configuration of the Ptz properties on true and off false.
Stop Recording Mode	drop-down list	Indicates when to stop recording.
Preset Text	two properties with Add , Edit and Delete buttons	Defines a set of pre-defined camera instructions each as a pair that consists of an integer (ordinal) and text command for con- trolling the camera. What to enter here depends on the camera.
High Compression CODEC	drop-down list	Defines the type of video compression to use.

Video Device Id

Property	Value	Description
Description	text	Provides additional information, which could include the camera's geographical location or other unique information.
Camera Id	number	Identifies the specific camera.
Camera Guid	32–digit hexadeci- mal number	Identifies the camera's globally unique identifier (a 32–hexa- decimal digit that identifies the camera.

Video Preferences

Figure 237 Video Preferences properties

	Milestone Video Source Preferen	ces ≽
	Preferred Background Color	
	Preferred Aspect Ratio	Standard Definition (1.33:1)
	Preferred Resolution	High 💙
Video Preferences	Preferred Frame Rate	Low 🗸
	Preferred Compression	Medium 🗸
	Fox Stream Preferred	Inherit 🗸
	Timestamp Preferred	true 🗸
	Interframe Timeout	+ V 00000 h 00 m 10 s

Property	Value	Description
Preferred Back- ground Color	color chooser (de- faults to black)	Opens the color chooser. The color you select affects the bor- der or margin area around the video display.
Preferred Aspect Ratio	drop-down list (de- faults to Standard Definition (1.33:1))	Defines the ratio of the width to the height of the video frame. Options include Inherit from camera (default), Standard Def- inition, Inherit from Stream, Fit to Screen, etc. Resolution at the device or network may linked to the video stream options and inherited. In some cases, this may ad- versely affect the aspect ratio of your streaming video. If video

Property	Value	Description
		images display distorted, try setting the camera's Preferred Aspect Ratio to the Standard Definition option.
Preferred Resolution	drop-down list (de- faults to High)	Specifies the pixel resolution of each transmitted frame. Options are: High, Medium, or Low. The actual pixel values for these three relative settings are defined in the video device.
Preferred Frame Rate	drop-down list (de- faults to Low)	Defines the speed of the video stream. Options are: Low, Me- dium, and High. You can configure each rate.
Preferred Compression	drop-down list (de- faults to Medium)	Specifies what level of compression is used during live video streaming. The actual compression values for these relative settings are defined in the video device. Higher compression uses less bandwidth but negatively affects image quality. Op- tions are: None, Low, Medium, or High
Preferred Video Stream Fox	drop-down list (de- faults to Inherit)	For a network component, selects (true) or declines (false) the use of Fox streaming.
		For a child component (DVR, NVR or camera) selects or de- clines the use of Fox streaming at the child component level.
		Inherit sets this property to the value set for its parent com- ponent (the DVR, NVR or network component).
		Yes sends the video stream from the video camera to the sta- tion (controller) and then forwards it to the Workbench inter- face through the standard Fox/Foxs connection. This overcomes fire wall issues in the event that the video surveil- lance system is not exposed to the outside world on its network.
		NOTE: This option assumes that the controller is exposed - otherwise you could not even connect to the station.
		No sends the video stream directly from the video camera to the interface. Using this setting allows you to set the Pre- ferred Resolution and Frame Rate to High without im- pacting CPU usage. In essence, this removes the station from the equation.
		In all cases, the client-side computer expends some of its CPU utilization to render the video on the screen.
Timestamp Preferred	true or false (defaults to true)	Configures the camera to record and display (${\tt true})$ a timestamp on the video.
Interframe Timeout	hours, minutes, seconds	Defines the maximum amount of time permitted to elapse be- tween frames. A video stream that takes longer than this amount of time to retrieve a video frame needs to be re- established.

Milestone New camera window

This window creates and edits camera records in the database.

Figure 238	New Milestone c	amera window
------------	-----------------	--------------

New		
Display Name	Milestone Camera	×
Description		
Camera Id	0	
Camera Guid		
Ptz Support	Supports Pan Tilt Supports Zoom Supports Focus Supports Iris Supports Move To Preset Supports Store Preset	false V false V false V false V false V
Preferred Resolution	High V	
Preferred Frame Rate	Low V	
Preferred Compression	Medium V	
Fox Stream Preferred	Inherit 🗸	
Auto Set Ptz Support	true V	
Stop Recording Mode	On Timer 🗸	
	Ok Cancel	

Properties

In addition to the common **Status**, **Enabled**, **Fault Cause**, **Health**, and **Alarm Source Info** properties, these properties support the Milestone DVR camera.

Property	Value	Description
Video Device Id, Description	text	Defines a text string to identify the camera.
Video Device Id, Camera Id	number between 0 and 99	Defines a unique camera identity number.
Camera Guid	number	Defines a number to identify the camera.
Ptz Support	additional properties	Turns Pan Tilt, Zoom, Focus, Iris, Move To Preset, and Store Preset features on (true), and off (false). Your camera may or may not support these features. For each feature the cam- era supports, select true. For unsupported features, select false.
		NOTE: If these properties are not enabled, PTZ functions do not work. This means that any widgets that use PTZ controls do not work.
Control Timing	hours, minutes, and seconds	Configures intervals between actions and timeout values. These settings affect how long a camera continues to respond to control communications after a control message is received. The reason for these limits is to prevent a camera from being left in a state of continual movement or adjustment (iris, focus, or zoom) in case communication with the device is lost.
Preferred Resolution	drop-down list, de- faults to High	Specifies the pixel resolution of each transmitted frame. Op- tions are: High, Medium, or Low. The actual pixel values for these three relative settings are defined in the video device.
Preferred Frame Rate	drop-down list, de- faults to Low	Defines the speed of the video stream. Options are: Lo Frame Rate, Med Frame Rate, and Hi Frame Rate. You can config- ure each rate.

Property	Value	Description
Preferred Compression	drop-down list, de- faults to Medium	Specifies what level of compression is used during live video streaming. The actual compression values for these relative settings are defined in the video device. Higher compression uses less bandwidth but negatively affects image quality. Op- tions are: None, Low, Medium, or High
Fox Stream	drop-down list, de-	Selects or declines the use of Fox streaming.
Preferred	faults to Inherit	inherit sets this property to the value set for its parent component (the DVR or network component).
		yes sends the video stream from the video camera to the sta- tion (controller) and then forwards it to the Workbench inter- face through the standard Fox/Foxs connection. This overcomes fire wall issues in the event that the video surveil- lance system is not exposed to the outside world on its network.
		NOTE: This option assumes that the controller is exposed - otherwise you could not even connect to the station.
		false sends the video stream directly from the video camera to the Workbench interface. Using this setting allows you to set the Preferred Resolution and Frame Rate to High without impacting CPU usage. In essence, this removes the station from the equation.
		In either case, the client-side computer expends some of its CPU utilization to render the video on the screen.
Auto Set Ptz Support	true (default) or false	Turns the automatic configuration of the Ptz properties on true and off false.
Stop Recording	Drop-down list (de- faults to On Timer)	Indicates when to stop recording.
Mode		On Timer
		On Alarm to Normal

Milestone Events tab

This tab discovers events and adds them to the database.

Figure 239 Events tab

🚰 Home 🖉 🍪 Monitoring 隆 Personnel 📄 Reports 🚳 System Setup 🛕 Threat Levels
📄 Schedules 👗 User Management 📑 Backups 💣 Remote Devices 💣 Access Setup 💣 Intrusion S
Save Milestone Dvr Live View B Playback View
Milestone Camera Events
External Event
Generic Event
Discovered

Event Type	Event Exists
External Event	true
Generic Event	true
Motion Detected	false
<	>

Buttons

In addition to the standard buttons (Discover, Delete, Rename, Filter, Refresh, Export and Learn Mode), the Hyperlink button () opens the Edit Points view.

Columns

Column	Description
Event Type	Identifies the source of the event.
	External Event
	Generic Event
	Motion Detected indicates that motion has been detected: true \mathbf{or} false.
Event Exists	Indicates if this event has occurred (true).

X Protect Cameras tab

This tab lists the X Protect cameras on the network.

Figure 240 X Protect Cameras tab

🔚 Save 📔 Milestone X Protect	t Network			
X Protect Management Server	Cameras	Recording Servers		
# <u></u>		5 📑 📮 🖿		
Display Name ٨		Description	Camera Id	Server Id
X Protect Camera				Description ,Server Type ,Hostname ,Port -1,Id

Buttons

In addition to the standard buttons (Discover, Edit, Delete, Filter, Refresh, and Export), these buttons support X Protect cameras.

- 🕒 New opens the **New** window for adding a Milestone camera.
- 🕑 Edit opens the component's Edit window.
- 🔟 or 💿 Ping (or wink) sends a command to the remote device or server.
- Configure opens a properties window.
- Wilestone Camera tab.

Columns

Column	Description
Display Name	Displays the name given to this camera when the database record was created.
Description	Displays additional information about the camera, such as its location, etc.
Camera ID	Identifies the camera.
Server ID	Identifies the server.

X Protect Camera tab

This tab configures X Protect camera properties.

FIGURE 241 A FIOLECL Camera Lab	Figure 241	X Protect Camera tab
---------------------------------	------------	----------------------

🔚 Save 🔯 X Pro	tect Management Server	ive View B Playback View		
X Protect Camera	Events			
Status	{fault}			
Enabled	true 🗸			
Fault Cause				
Health	Fail [null]			
Alarm Source Info	Alarm Source Info »			
Video Device Id	Description ,Camera Id ,Server Id	d Description ,Server Type ,Hostname ,Port -1,Id »		
Ptz Support	»			
Control Timing	Camera Control Timings »			
	Video Source Preferences 😺			
	Preferred Background Color			
	Preferred Aspect Ratio	Standard Definition (1.33:1)		
	Preferred Resolution	High 🗸		
Video Preferences	Preferred Frame Rate	High 🗸		
	Preferred Compression	Medium 🗸		
	Preferred Video Stream Fox	Inherit 🗸		
	Timestamp Preferred	true 🗸		
	Interframe Timeout	+ V 00000 h 00 m 10 s		
Fast Speed	10 [0 - 15]			
Preset Text	Ordinal	Name		
	0	???		
Stop Recording Mode On Timer				

You access this tab from the main menu by clicking **Controller Setup** \rightarrow **Remote Devices** \rightarrow **Remote Drivers** followed by double-clicking the X Protect Network row in the table, clicking the **Cameras** tab, and double-clicking an X Protect camera row in the table.

Links

In addition to the Milestone Dvr link, which returns to the Milestone table view, this tab provides these links.

- Live View opens the real-time camera feed.
- Playback View opens a view from which you can play back pre-recorded video clips.

Properties

In addition to the standard properties (Status, Enabled, Fault Cause, Health, and Alarm Source Info), these properties support Milestone X Protect cameras.

Property	Value	Description
Video Device Id	additional properties	Refer to Video Device Id, Server Id properties, page 267.
Ptz Support	additional properties	Turns Pan Tilt, Zoom, Focus, Iris, Move To Preset, and Store Preset features on (true), and off (false). Your camera may or may not support these features. For each feature the cam- era supports, select true. For unsupported features, select false.
		NOTE: If these properties are not enabled, PTZ functions do not work. This means that any widgets that use PTZ controls do not work.
Control Timing	hours, minutes and seconds	Configures intervals between actions and timeout values. These settings affect how long a camera continues to respond to control communications after a control message is received. The reason for these limits is to prevent a camera from being left in a state of continual movement or adjustment (iris, focus, or zoom) in case communication with the device is lost.
Video Preferences	additional properties	Refer to Video Preferences, page 268.
Auto Set Ptz Support	true or false	Turns the automatic configuration of the Ptz properties on true and off false.
Fast Speed	number between zero (0) and 15 (de- faults to 10)	Defines the speed of a quick pan or tilt.
Preset Text	two properties with Add , Edit and Delete buttons	Defines a set of pre-defined camera instructions each as a pair that consists of an integer (ordinal) and text command for con- trolling the camera. What to enter here depends on the camera.
Stop Recording Mode	drop-down list	Indicates when to stop recording.

Video Device Id, Server Id properties

Figure 242 Video Device ID and Server Id properties

Video Device Id		Description	
		Server Type	XPCORS
	Server Id	Hostname	desktop-9gju3iv
		Port	7563
		Id	ccaac8da-6c02-4f8d-b838-b11e5300b33e

Most of these properties are read-only because it is not possible to create a recording server manually. Instead, the framework discovers recording servers.

Property	Value	Description
Description	text	Provides additional information, which could include the camera's geographical location or other unique information.
Camera Id	number	Identifies the specific camera.
Server Id, Description	additional properties	Allows you to enter text to describe the discovered recording server.
Server Id, Server Type	read-only	Identifies the type of the discovered recording server.
Server Id, Hostname	read-only	Reports the host name of the discovered recording server.
Server Id, Port	read-only	Identifies the port used by the discovered recording server.
Server Id, Id	read-only	Identifies the unique identifier assigned in the Milestone server to the DVR.

Video Preferences

Figure 243 Video Preferences properties

	Video Source Preferences 🛛	
	Preferred Background Color	
	Preferred Aspect Ratio	Standard Definition (1.33:1)
	Preferred Resolution	High 🗸
Video Preferences	Preferred Frame Rate	Low 🗸
	Preferred Compression	Medium 🗸
	Preferred Video Stream Fox	Inherit 🗸
	Timestamp Preferred	true 🗸
	Interframe Timeout	+ 🗸 00000 h 00 m 10 s

Property	Value	Description
Preferred Back- ground Color	color chooser (de- faults to black)	Opens the color chooser. The color you select affects the bor- der or margin area around the video display.
Preferred Aspect Ratio	drop-down list (de- faults to Standard Definition (1.33:1))	Defines the ratio of the width to the height of the video frame. Options include Inherit from camera (default), Standard Def- inition, Inherit from Stream, Fit to Screen, etc.
		Resolution at the device or network may linked to the video stream options and inherited. In some cases, this may ad- versely affect the aspect ratio of your streaming video. If video images display distorted, try setting the camera's Preferred Aspect Ratio to the Standard Definition option.
Preferred Resolution	drop-down list (de- faults to High)	Specifies the pixel resolution of each transmitted frame. Op- tions are: High, Medium, or Low. The actual pixel values for these three relative settings are defined in the video device.
Preferred Frame Rate	drop-down list (de- faults to Low)	Defines the speed of the video stream. Options are: Low, Me- dium, and High. You can configure each rate.
Preferred Compression	drop-down list (de- faults to Medium)	Specifies what level of compression is used during live video streaming. The actual compression values for these relative

Property	Value	Description	
		settings are defined in the video device. Higher compression uses less bandwidth but negatively affects image quality. Op- tions are: None, Low, Medium, or High	
Preferred Video Stream Fox	drop-down list (de- faults to Inherit)	For a network component, selects (true) or declines (false) the use of Fox streaming.	
		For a child component (DVR, NVR or camera) selects or de- clines the use of Fox streaming at the child component level.	
		Inherit sets this property to the value set for its parent com- ponent (the DVR, NVR or network component).	
		Yes sends the video stream from the video camera to the sta- tion (controller) and then forwards it to the Workbench inter- face through the standard Fox/Foxs connection. This overcomes fire wall issues in the event that the video surveil- lance system is not exposed to the outside world on its network.	
		NOTE: This option assumes that the controller is exposed - otherwise you could not even connect to the station.	
		No sends the video stream directly from the video camera to the interface. Using this setting allows you to set the Pre- ferred Resolution and Frame Rate to High without im- pacting CPU usage. In essence, this removes the station from the equation.	
		In all cases, the client-side computer expends some of its CPU utilization to render the video on the screen.	
Timestamp Preferred	true or false (defaults to true)	Configures the camera to record and display (true) a time- stamp on the video.	
Interframe Timeout	hours, minutes, seconds	Defines the maximum amount of time permitted to elapse be- tween frames. A video stream that takes longer than this amount of time to retrieve a video frame needs to be re- established.	

Maxpro Cameras tab

This tab and view manages the cameras connected to the Maxpro NVR.

Figure 244 Cameras tab

🚰 Home 🏾 ốơ Monitoring 🛛	Personnel Repo	orts 💣 System Setup	A Threat Levels	Ind gard
📰 Schedules 🛛 👗 User Mana	gement 📭 Backups	Remote Devices	Access Setup	Intrusion Setup 🛛 🦪 A
🔚 Save 🔯 Maxpro Network	< Compared to the second se			
Maxpro Nvr Cameras				
Display Name ٨	Description	Camera Id	Status	
Maxpro Camera	Lobby	0	{down,alarm,unacke	dAlarm}

You access this tab from the main menu by clicking **Controller (System) Setup→Remote Devices→Remote Drivers**, double-clicking the Maxpro Network, clicking the NVRs tab, double-clicking a row in the NVR Manager table, followed by clicking the **Cameras** tab.

Buttons

In addition to the standard buttons (Discover, Delete, Filter, Refresh and Export), these buttons support Maxpro cameras.

- 🕒 New opens the **New** window for adding a Maxpro camera.
- 🕑 Edit opens the component's Edit window.
- 🔟 or 💽 Ping (or wink) sends a command to the remote device or server.
- Preferences opens a **Preferences** window, which is documented in a separate topic.
- We Hyperlink opens the Maxpro Camera tab, which is documented in a separate topic.

Maxpro Camera tab

This view manages one or more Maxpro cameras.

Figure 245 Maxpro Camera tab



9000

Data Port

You access this tab from the main menu by clicking **Controller Setup** \rightarrow **Remote Devices** \rightarrow **Remote Drivers** followed by double-clicking the Maxpro Network row in the table, clicking the **Cameras** tab, and double-clicking a Maxpro camera row in the table.

Links

In addition to the Maxpro Nvr link, which returns to the Maxpro table view, this tab provides these links.

- Live View opens the real-time camera feed.
- Playback View opens a view from which you can play back pre-recorded video clips.

Properties

In addition to the standard properties (Status, Enabled, Fault Cause, Health, and Alarm Source Info), these properties support Maxpro cameras.

Property	Value	Description	
Video Device Id	additional properties	Refer to Video Device Id, page 272.	
Ptz Support	additional properties	Turns Pan Tilt, Zoom, Focus, Iris, Move To Preset, and Store Preset features on (true), and off (false). Your camera may or may not support these features. For each feature the cam- era supports, select true. For unsupported features, select false.	
		NOTE: If these properties are not enabled, PTZ functions do not work. This means that any widgets that use PTZ controls do not work.	
Control Timing	hours, minutes and seconds	Configures intervals between actions and timeout values. These settings affect how long a camera continues to respond to control communications after a control message is received. The reason for these limits is to prevent a camera from being left in a state of continual movement or adjustment (iris, focus, or zoom) in case communication with the device is lost.	
Video Preferences	additional properties	Refer to Video Preferences, page 272.	
Normal Speed	true or false	Turns the automatic configuration of the Ptz properties on true and off false.	
Fast Speed	drop-down list	Defines the speed of a quick pan or tilt.	
Compression CODEC	drop-down list	Defines the type of video compression to use.	
Pan Tilt Zoom Settings	additional properties	Configures the degrees of pan and tilt and the speed at which the camera zooms in and out. Values depend on the specific camera.	
Preset Text	two properties with Add , Edit and Delete buttons	Defines a set of pre-defined camera instructions each as a pair that consists of an integer (ordinal) and text command for con- trolling the camera. What to enter here depends on the camera.	
Use Rtsp Stream	true or false (default)	Turns RTSP (Real Time Streaming Protocol) on and off. This protocol controls a camera using DVD-style controls (play, pause, etc.)	

Property	Value	Description	
		CAUTION: RTSP does not support TLS secure communication. Using this protocol may open your video network to be hacked.	
		true enables RSTP streaming.	
		false enables HPS (Honeywell Progressive Streaming). Play- back video always streams using HPS.	
Use Custom Rtsp Url	text	Defines the user name required by RTSP to control the camera.	
Custom Rtsp Stream Url	text		
Control Port	number (defaults to 554)	Defines the RTSP port.	
Data Port	number (defaults to 9000)	Defines the data port.	

Video Device Id

Property	Value	Description	
Description	text	Provides additional information, which could include the camera's geographical location or other unique information.	
Camera Id	number	Identifies the specific camera.	

Video Preferences

Figure 246 Video Preferences properties

	Preferred Background Color	
Video Preferences	Preferred Aspect Ratio	Standard Definition (1.33:1)
	Preferred Resolution	High 🔻
	Preferred Frame Rate	Low 🔻
	Preferred Compression	Medium 🔻
	Preferred Video Stream Fox	Inherit 🔻
	Timestamp Preferred	true 🔻
	Interframe Timeout	+ ▼ 00000 h 00 m 10 s

Property	Value	Description
Preferred Back- ground Color	color chooser (de- faults to black)	Opens the color chooser. The color you select affects the bor- der or margin area around the video display.
Preferred Aspect Ratio	drop-down list (de- faults to Standard Definition (1.33:1))	Defines the ratio of the width to the height of the video frame. Options include Inherit from camera (default), Standard Def- inition, Inherit from Stream, Fit to Screen, etc. Resolution at the device or network may linked to the video stream options and inherited. In some cases, this may ad- versely affect the aspect ratio of your streaming video. If video images display distorted, try setting the camera's Preferred Aspect Ratio to the Standard Definition option.

Property	Value	Description
Preferred Resolution	drop-down list (de- faults to High)	Specifies the pixel resolution of each transmitted frame. Op- tions are: High, Medium, or Low. The actual pixel values for these three relative settings are defined in the video device.
Preferred Frame Rate	drop-down list (de- faults to Low)	Defines the speed of the video stream. Options are: Low, Me- dium, and High. You can configure each rate.
Preferred Compression	drop-down list (de- faults to Medium)	Specifies what level of compression is used during live video streaming. The actual compression values for these relative settings are defined in the video device. Higher compression uses less bandwidth but negatively affects image quality. Op- tions are: None, Low, Medium, or High
Preferred Video Stream Fox	drop-down list (de- faults to Inherit)	For a network component, selects (true) or declines (false) the use of Fox streaming.
		For a child component (DVR, NVR or camera) selects or de- clines the use of Fox streaming at the child component level.
		Inherit sets this property to the value set for its parent com- ponent (the DVR, NVR or network component).
		Yes sends the video stream from the video camera to the sta- tion (controller) and then forwards it to the Workbench inter- face through the standard Fox/Foxs connection. This overcomes fire wall issues in the event that the video surveil- lance system is not exposed to the outside world on its network.
		NOTE: This option assumes that the controller is exposed - otherwise you could not even connect to the station.
		No sends the video stream directly from the video camera to the interface. Using this setting allows you to set the Pre- ferred Resolution and Frame Rate to High without im- pacting CPU usage. In essence, this removes the station from the equation.
		In all cases, the client-side computer expends some of its CPU utilization to render the video on the screen.
Timestamp Preferred	true or false (defaults to true)	Configures the camera to record and display ($true$) a timestamp on the video.
Interframe Timeout	hours, minutes, seconds	Defines the maximum amount of time permitted to elapse be- tween frames. A video stream that takes longer than this amount of time to retrieve a video frame needs to be re- established.

Maxpro Events tab

This tab discovers events and adds them to the database.

Figure 247 Events tab

🚰 Home 🕼 Monitoring 🏝 Personnel 📄 Reports 🚿 System Setup 🛕 Threat Levels 🚺				
📑 Schedules 👗 User Management 🚯 Backups 💣 Remote Devices 💣 Access Setup 💣 Intrus				
🔚 Save 🔯 Maxpro Nvr 🖪 Live View 🚯 Playback View				
Maxpro Camera Events				
Display Name 🔥				
Discovered				
Event Type Event Exists				
Motion Detected false				

Buttons

In addition to the standard buttons (Discover, Delete, Rename, Filter, Refresh, Export and Learn Mode), the Hyperlink button ((a)) opens the Edit Points view.

Columns

Column	Description
Event Type	Identifies the source of the event.
	External Event
	Generic Event
	Motion Detected indicates that motion has been detected: true \mathbf{or} false.
Event Exists	Indicates if this event has occurred (true).

Edit Point view, Configuration tab

This view configures individual points. These can be module points or camera event points. You use this view to set up alarms for the event and to configure histories. You can also provide links from an event to other available Boolean-writable points.

NOTE: This description covers both reader and input/output points. Differences are noted where appropriate.

Figure 248 Edit Point (input view) for a remote module

🚰 Home	óo Monitoring 🔒 Perso	onnel 📄 Rep	orts 💣 Controller Setup		
📰 Sche	dules 🛛 👗 User Management	🚺 Backups	Remote Devices Acce		
🔚 Save 🎯 Manage Extensions 🔯 AXIS 210A - 00408C836221					
Configura	Configuration Alarm Setup Link To				
Facets Edit 1. falseText=false 2. trueText=true Proxy Ext Axis Video Event Proxy Ext >> Status false {ok}		Gonfiguration	Manage Devices Base Reader Module		
		Facets	Edit 1. falseText=inactive 2. trueText=active		
<		Status	inactive {fault,stale}		
		Enabled Inactive State	cOpen V		

The point's display name appears at the top of the view. The screen captures show two flavors of this view. The one with three tabs opens when you edit a camera event point. The one with two tabs opens when you edit a remote module point.

There are several ways to access the views that edit points. For example:

- To access camera points, you click **Controller Setup→Remote Devices→Remote Drivers** followed by double-clicking the Axis Video Network row in the table, click the **Cameras** tab, double-click a camera row in the table, click the **Events** tab, discover events, and double-click an event row.
- To access module points you clickController Setup→Remote Devices→Remote Modules→Remote Module Setup, double-click the module row in the table, click the Additional Points tab, and click a link to a point.

Module point links

- The Manage Devices link opens the Manage Devices window.
- The Base Reader Module link opens the Base Reader Module properties.

Camera event point links

- The Manage Extensions link opens the Manage Point Extensions window.
- The camera configuration view opens the camera tab.

Remote module point properties

In addition to Status and Enabled, these properties support the configuration of points.

Property	Value	Description
Edit button and Facets	button and addi- tional properties	Determine how values are formatted for display depending on the context and the type of data. For example, instead of the Boolean facets trueText and falseText you may want to display ON and OFF, Access Granted and Access Denied or Locked and Unlocked.
		You access facets by clicking an Edit button or a chevron >>. Both open an Edit Facets window.
Inactive State	Open and Closed	Defines the normally inactive state of the digital input or relay output as either Open or Closed, depending on the device requirements.

Camera event point properties

In addition to **Status**, these properties support camera event points.

Properties	Value	Description
Facets	Edit button	Opens a window for configuring the text that appears when a camera event occurs.
Proxy Ext	additional properties	Expands to display proxy extension properties, which apply to camera events. Refer to Proxy Extension properties, page 276.

Proxy Extension properties

Figure 249 Proxy Ext properties

Axis Video Event Proxy Ext ¥	
Status	{ok}
Fault Cause	
Enabled	true 🗸
Device Facets	Edit
Conversion	Default 🗸
Tuning Policy Name	Default Policy 🗸
Proxy Ext Read Value	false {ok}
Write Value	false {ok}
Most Recent Event	Motion Stopped <-> null <-> Motion Stopped
Auto Expiration	true 🗸
Auto Expiration Interval	+ ♥ 00000 h 00 m 45 s
Point Id	Event Server Niagara AX Server, Motion Window Niagara AX Window, Action Start AX Motion Started, Action Stop AX Motion Stopped, Niagara Event Type Motion Started
Enable Detection On Boot	t true 🗸

In addition to the standard properties (Status, Fault Cause, and Enabled), these properties support camera events.

Property	Value	Description
Device Facets	additional properties	Determine how values are formatted for display depending on the context and the type of data. For example, instead of the Boolean facets trueText and falseText you may want to display ON and OFF, Access Granted and Access Denied or Locked and Unlocked.
		You access facets by clicking an Edit button or a chevron >>. Both open an Edit Facets window.
Conversion	drop-down list, de- faults to Default	Defines how the system converts proxy extension units to pa- rent point units.
		Default automatically converts similar units (such as Fahrenheit to Celsius) within the proxy point.
		NOTE: In most cases, the standard Default conversion is best.
		Linear applies to voltage input, resistive input and voltage output writable points. Works with linear-acting devices. You use the Scale and Offset properties to convert the output val- ue to a unit other than that defined by device facets.
		Linear With Unit is an extension to the existing linear conversion property. This specifies whether the unit conversion

Property	Value	Description
		should occur on "Device Value" or "Proxy Value". The new lin- ear with unit convertor, will have a property to indicate whether the unit conversion should take place before or after the scale/offset conversion.
		Reverse Polarity applies only to Boolean input and relay output writable points. Reverses the logic of the hardware bi- nary input or output.
		500 Ohm Shunt applies to voltage input points only. It reads a 4-to-20mA sensor, where the Ui input requires a 500 ohm resistor wired across (shunting) the input terminals.
		Tabular Thermistor applies to only a Thermistor input point and involves a custom resistance-to-temperature value response curve for Type 3 Thermistor temperature sensors.
		Thermistor Type 3 applies to an Thermistor Input point, where this selection provides a "built-in" input resistance-to- temperature value response curve for Type 3 Thermistor tem- perature sensors.
		Generic Tabular applies to non-linear support for devices other than for thermistor temperature sensors with units in temperature. Generic Tabular uses a lookup table method sim- ilar to the "Thermistor Tabular" conversion, but without prede- fined output units.
Tuning Policy Name	drop-down list, de- faults to Default Policy.	Identifies the assigned tuning policy. During polling, the sys- tem uses such collections of rules to evaluate both write re- quests and the acceptability (freshness) of read requests.
Read Value	read-only	Reports the last value read using device facets.
Write Value	read-only	Reports the last value written using device facets. Applies only to writable points.
Most Recent Event	read-only	Indicates the most recent "motion start" or "motion stopped" event.
Auto Expiration	true (default) or false	Turns this feature on and off.
Auto Expiration Interval	+ or — hours, mi- nutes, seconds (de- faults to 45 seconds.	Configures when the event is no longer valid.
Point Id	read-only	Identifies the point.
Enable Detection On Boot	true (default) or false	Configures the system to enable detection of this point when the station starts.

Inputs

A digital input (DI) is a device that monitors the state of electronic contacts.

- Door sensors are contact devices that monitor the state of a door.
- Exit requests are devices that provide access to leave through a door without having to present a badge.

- ADA (Americans with Disabilities Act) Controls could be used with power assisted doors that open automatically. Typically, this control is configured similarly to an Exit Request if it is inside the building. If the control is on the outside of a facility it can be configured to open the door only when the door is unlocked (after a validation or during a scheduled unlock period).
- Other inputs can be devices that detect such things as glass break or motion sensors.

Outputs

A digital output (DO) is a device that controls door hardware or annunciates an alarm. For example, if a door contact senses that a door has been held open for too long, an output (bell or horn, for example) audibly alerts personnel that the door is open. Outputs may be used to turn lights, heaters, or air conditioners on and off.

Alarm Setup tab (inputs only)

This tab appears for input points and configures an alarm associated with the point. This includes additional points and camera events.

Figure 250 Alarm Setup tab

් Home රං Monitoring	Personnel Reports & Controlle	r Setup 🛕 Thr
📄 Schedules 🛛 🚨 User Ma	anagement 📑 Backups 💣 Remote Devices	a 💣 Access Se
🔚 Save 🎯 Manage Dev	ices 🔯 Input/Output Module	
Configuration Alarm Set	up	
Alarm\$20Settings		
Alarm Class	Medium Video Setup	
Alarm Time Delay	00 m 00 s [0ms - 59mins 59secs]	
	Device alarm	
	<u>^</u>	
Active Alarm Message		
	~	
	Device returned to normal	
	^	
Return to Normal Message		
	\sim	
Alarm Inhihit Schedule	Boolean Schedule [Denied]	a 🔊
Aldrin Thingst Schedule	protoan schedale [Senied]	
/		v
C		2

You access point views from more than one location. For example, from the main menu click **Remote Devi**ces→Remote Modules→Remote Module Setup, double-clicking the module row in the table, clicking the Additional Points tab, clicking a link to a point, and clicking the Alarm Setup tab. This step provides access to a remote module point.

The Alarm Settings link also opens the **Alarm Settings** view for this point. Alarm source extension properties are documented in *System Setup-Alarm Setup*.

A Supervisor Fault Settings link displays on a supervised input (Sdi) only. This link identifies the point and navigates to the **Supervisor Fault Settings** view that displays a full list of alarm source extension properties. Alarm source extension properties are documented in *System Setup-Alarm Setup*.

Property	Value	Description
Alarm Class	drop-down list	Defines alarm routing options and priorities. Typical alarm classes include High, Medium and Low. An alarm class of Low might send an email message, while an alarm class of High might trigger a text message to the department manager.
Alarm Time Delay	minutes and sec- onds (defaults to zero)	Prevents nuisance alarms caused by momentary changes in a state value (Normal, Low Limit, High Limit) by defining the min- imum time period that an alarm condition must continuously exist before the object alarms. At the expiration of this time, an alarm is generated if the offnormal condition still exists.
		Alarm Time Delay does not affect alarms generated by a fault. There is no delay when transitioning in or out of a fault-generated alarm.
		Alarm Time Delay applies to entities that transition both in and out of alarm states. Therefore, an alarm status may contin- ue to display as Offnormal (for example) for a time (equal to the time delay) after the value has come back to normal. The time delayis a minimum time period that a normal condition must exist before the object comes out of alarm.
Active Alarm Message	text	Creates a custom message that appears under the Type head- ing in several views and windows when the point is in an active alarm state.
Return to Normal Message	text	Creates a custom message that appears when a fault is cleared.
Alarm Inhibit Schedule or Alarm Ext Alarm Inhibit	Ref Chooser	Selects a schedule to inhibit alarms during certain time periods defined by the selected schedule. You must save any unsaved changes in this view before you can assign an inhibit schedule.
Video Setup button	button	Opens the Video Setup window, which selects, enables and configures a video camera to associate with the alarm point or device.
Supervisor Fault Settings (appears only on a super- vised input (Sdi).	link	Identifies the point and allows you to navigate to the Edit Alarm Settings view, which displays a full list of alarm source extension fields. The properties displayed under this heading are described above in this table.

Active Schedule tab (outputs only)

This tab displays a table of assigned schedules and the standard control icons for assigning or un-assigning schedules that control when an output is effective. This tab appears on Relay Output points (Ro)

Figure 251 Active Schedule tab

Configuration Acti	ve Schedule						
Newly Assigned							
Display Name ٨	Usage	Status	Out Source	Out	Next Time	Next Value	To Display Path String
Boolean Schedule	Access Right	{ok}	Default Output	false {ok}	07-Oct-18 12:30 AM EDT	false {ok}	/Services/EnterpriseSecurityService/schedules/Boolean Schedule
Unassigned							
0							
Display Name	Usage	Status	Out Source	Out	Next Time	Next Value	To Display Path String
Boolean Schedule	Access Right	{ok}	Default Output	false {ok}	07-Oct-18 12:30 AM EDT	false {ok}	/Services/EnterpriseSecurityService/schedules/Boolean Schedule

The point's display name appears at the top of the view (Ro3 in this example).

You access this tab from the Edit Points view. To access the Edit Points view, click **Remote Devices**→-**Remote Modules**→**Remote Module Setup**, double-click the module row in the table, click the Additional Points tab, click a link to an output point and click the Active Schedule tab.

You manually assign or unassign schedules to the currently displayed point using the learn mode, the assign and unassign buttons.

Columns

Table 62 Active Schedule columns

Column	Description
Display Name	Reports the name of the schedule.
Usage	Helps to identify the schedule and provide filtering options when choosing a schedule from a list.
Status	Reports the current condition of the entity as of the last refresh: {alarm}, {disabled}, {down}, {fault}, {ok}, {stale}, {unackedAlarm}
Out Source	Drives the output for the schedule. For example, an Out Source, such as "week:Thursday" means that events follow the weekly schedule for Thursday. If a special event is controlling the schedule, you may see, Special event:Event Name. Event Name is the name given to the special event when it was set up.
Out	Identifies the current state of the schedule.
Next Time	Identifies the next time the schedule will change.
Next Value	Identifies the next state the schedule will change to.
To Display Path String	Reports the station path for this point.

Edit meta data window

This window configures additional information to include with the camera event alarm.

Figure 252 Edit window

Edit		
Facet Key	Facet Value	
cameraHandleOrd	h:144f7	
cameraOrd	slot:/Drivers/Axis Video	
startRecording	false 🗸	Add
videoEventDescription	Motion Started	Delete
videoEventTimestamp	null	
videoEventType	Motion Started]
	Ok Cancel	

You access this view from the main menu by clicking clicking **Controller Setup→Remote Devices→Remote Drivers** followed by double-clicking the Axis Video Network row in the table, clicking the **Cameras** tab, double-clicking a camera row in the table, clicking the **Events** tab, discovering events, double-clicking an event row, clicking the **Alarm Setup** tab, and clicking the **Alarm Ext...** link.

Video Setup window

This window configures video properties. You can use this window to assign a camera to an alarm class and specify how that camera should react to the associated alarm class.

Figure 253 Video Setup window

Video Setup		
Video Enabled	true 🗸	
Camera	AXIS 210A - 00408C836221 🗸	
Go to Preset	false 🗸	
Camera Preset	0	
Send Alarm To Display	false 🗸	
Ok Cancel		

You access this view from the main menu by clicking clicking **Controller Setup→Remote Devices→Remote Drivers** followed by double-clicking the Axis Video Network row in the table, clicking the **Cameras** tab, double-clicking a camera row in the table, clicking the **Events** tab, discovering events, double-clicking an event row, clicking the **Alarm Setup** tab, and clicking the **Video Setup...** link.

Properties

Property	Value	Description
Video Enabled	true or false (default)	Turns on and off the use of a video camera.
Camera	drop-down list of available cameras	Selects the camera to use from the list.
Go to Preset	true or false (default)	Turns the use of a video preset on and off. A preset is a preconfigured camera position and configuration that specifies what the camera points to and at what settings it records. false configures the camera to record without moving to the preset configuration. true configures the camera to record and moves to the preset configuration.

Property	Value	Description
Camera Preset	number	Identifies the number of the preset to use if Go to Preset is set to true.
Send Alarm to Display	true or false (default)	Enables and disables the sending of an alarm to a display (monitor).

Link To tab

This tab manages the connection between a camera event and another device, such as a beeper.

Figure 254 Example of a Link To tab

🚰 Home 🛛 ốơ	^ Monitoring 🔒 Personne	el 📄 Rep	orts 💣	Controller Setup
E Schedules	👗 User Management 📲	🖟 Backups	💣 Remot	e Devices 🚿 Access Setup 🚿 Intrusion Setup 🚿 Alarm Setup 🚿 Miscella
🔒 Save 🇳	Manage Extensions	AXIS 210A -	00408C8362	21
Configuration	Alarm Setup Link To]		
conngulation	Alarm Setup			
Newly Assig	ned			
0				
Display Name	e 🛆 🛛 Out	In10	In16	To Display Path String
Beeper	false {fault} @ def	- {null}	- {null}	/Drivers/Access Network/Remote Reader Module2/points/Door 2/Reader 2/beeper
Beeper	false {fault} @ def	- {null}	- {null}	/Drivers/Access Network/Remote Reader Module/points/Door 1/Reader 1/beeper
Beeper	false {fault} @ def	- {null}	- {null}	/Drivers/Access Network/Remote Reader Module2/points/Door 1/Reader 1/beeper
Unaccianod				
Unassigneu				
				Page 1 of 7 Page Size 10
Display Nam	ie Out	In10	In16	To Display Path String
Beeper	false {fault} @ def	- {null}	- {null}	/Drivers/Access Network/Remote Reader Module2/points/Door 2/Reader 2/beeper
Beeper	false {fault} @ def	- {null}	- {null}	/Drivers/Access Network/Remote Reader Module2/points/Door 1/Reader 1/beeper
Beeper	false {fault} @ def	- {null}	- {null}	/Drivers/Access Network/Remote Reader Module/points/Door 1/Reader 1/beeper
Beeper	false {ok} @ def	- {null}	- {null}	/Drivers/Access Network/Remote Reader Module1/points/Door 1/Reader 1/beeper
Beeper	false {ok} @ def	- {null}	- {null}	/Drivers/Access Network/Remote Reader Module1/points/Door 2/Reader 2/beeper
Beeper	false {fault} @ def	- {null}	- {null}	/Drivers/Access Network/Remote Reader Module/points/Door 2/Reader 2/beeper
Beeper	false {fault} @ def	- {null}	- {null}	/Drivers/Access Network/Base Reader Module/points/Door 2/Reader 2/beeper
Beeper	false {fault} @ def	- {null}	- {null}	/Drivers/Access Network/Base Reader Module/points/Door 1/Reader 1/beeper
Beeper Green	false {fault} @ def false {fault} @ def	- {null} - {null}	- {null} - {null}	/Drivers/Access Network/Base Reader Module/points/Door 1/Reader 1/beeper /Drivers/Access Network/Remote Reader Module2/points/Door 1/Reader 1/green

Buttons

In addition to the standard buttons (Delete, Filter, and Export), these buttons support links from the camera to another device.

- legitle Hyperlink opens an Edit Points view.
- E Assign Mode buttons open and close the Unassigned pane.
- O Assign moves a discovered item from the Unassigned view to the Assigned view.

Columns

Column	Description
Display Name	Reports the name of the device to link to.
Out	Reports if the output source is ok or in fault.
In10	Reports if the first input point is ok or in fault.
In16	Reports if the last input point is ok or in fault.
To Display Path String	Identifies where in the station the device is located.

SmartKey Discovery view

This view provides a way to add SmartKey devices and other intrusion devices or keypads to your system using the discover and learn modes.

Figure 255 SmartKey Discovery view

🚰 Home 🛛 ốơ Monitoring	A Personnel	Reports	💣 Controller Setu
📄 Schedules 🛛 👗 User Ma	nagement 📑 B	ackups 💣 f	Remote Devices
# # / O 😡			
Display Name 🙏	Status	SmartKey	/ ID
SmartKey Device	{fault}	0	

< >

You access this view from the main menu of a remote controller by clicking **Controller Setup→Remote De**vices→ **Remote Drivers**, and double-clicking the SmartKey Network row in the table.

The **Discovered** pane displays the results of the discovery job and lists the SmartKey devices found on the network. Devices that already exist in the system database appear in the **Database** pane and appear dimmed in the **Discovered** pane.

Buttons

In addition to the standard control buttons (Manage Devices, Hyperlink, Delete, Rename, Filter, Refresh, Export, and Learn Mode), these control buttons perform unique functions:

- Discover opens the Discover window, which defines the database search. Based on this information, the discovery job interrogates the target location for data, such as historical and current point values as well as properties provided by the database.
- Preferences opens the **Preferences** window, which configures the SmartKey feature.
- Set COM Port opens the Set COM Port window, which contains a text field that allows you to set a COM port used with SmartKey devices to communicate. Refer to the *Remote I/O Module (T-IO-16-485)* Mounting and Wiring Instructions.

NOTE: You do not need to use SmartKey discovery if you already added a device using a valid SmartKey ID number. If the device shows a valid status, {ok}, in the **SmartKey Devices** tab, it is already on line and discovery is not necessary.

Discovered view

In addition to the standard functions of filter and export, the right-click menu and control buttons at the top of the pane provide these functions.

- Add discovered item(s) moves one or more discovered items from the Discovered pane to the Database pane. It is available when items are selected (highlighted) in the Discovered pane. Before the item(s) are added, a window opens with properties to configure them.
- Cal Match with discovery initiates an action to update a single item that is already in the system database. It is available when you select an item in both the Database pane and the Discovered pane of a manager view. This action associates the discovered item with the selected item that is already in the database—usually an item previously added off line. The added item assumes the properties defined for it in the database. You can edit properties after adding the item.

Discover and Preferences windows

These two windows require the same properties.

Figure 256 Preferences and Discover windows

D	
Preferences	Discover
Timeout 00	Timeout 00000 b 00 m 03 000 s 00ms - +infl
Retry Count 1	Retry Count 1 [0 - +inf]
Min SmartKey ID 0	Min SmartKey ID 0 [0 - 255]
Do Not Ask Again fa	Max SmartKey ID 6 [0 - 255]
	OK Cancel

You access the Preferences window by clicking the Preferences button (2) on the Smartkey Device Manager - Database view.

Property	Value	Description
Timeout	hours minutes seconds	Defines the amount of time to wait for each device request be- fore timing out.
Retry Count	number	Configures how many times to repeat a network read request, if no response is received before the response timeout interval elapses.
Min SmartKey ID	number	Limits the discovery to a range of device Id numbers beginning with this number.
Max SmartKey ID	number	Limits the discovery to a range of device Id numbers ending with this number.
Do Not Ask Again	true or false	Inhibits the Discovery window from opening again before the system initiates the discovery search.

SmartKey Device Manager - Database view

This window configures the SmartKey device.

Figure 257 SmartKey Device Manager - Database view

SmartKey D	evice		
Alarm Class	Medium		
Status	{fault}		
Fault Cause			
SmartKey Id	0	[0 - 255]	

You access this view and tab by clicking the Manage Devices button (*) on the Smartkey Device Manager - Database view, followed by adding a device.

Properties

In addition to the standard properties (Status and Fault Cause), these properties support the SmartKey device.

Property	Value	Description
Alarm Class	drop-down list	Defines alarm routing options and priorities. Typical alarm classes include High, Medium and Low. An alarm class of Low might send an email message, while an alarm class of High might trigger a text message to the department manager.
SmartKey Id	number	Provides a unique device ID number used to identify the device on the network. A SmartKey ID must be entered using the device's keypad before it is connected to the system.

Chapter 9 Controller (System) Setup– Access Setup

Topics covered in this chapter

- Access Zones views
- ♦ Add New (or edit) Access Zone view
- Card Formats view
- Wiegand Format Editor view, Wiegand Format tab
- Access Control Setup view
- Additional Personnel Entry Import Info tab

These views, tabs and windows configure areas within a building for the purpose of managing who may enter. These topics also document card reader formats and additional personnel data.

Figure	e 258	Access Setu	up menu
	My Audit	History Report	
0	Access Zo	ones	
	Card Forn	nats	
Ŵ	Access Co	ontrol Setup	
2	Additional	Personnel Entry	

Access Zones views

A defined access zone controls and monitors the entry and exit of personnel assigned to the zone, manages the occupancy levels for the zone, and configures anti-passback controls based on occupancy and the time of day.

Figure 259 Access Zones view

0 🙆 🖹 ᅌ 🗆		
Zone Name 🙏	Station Name	Fallback Enforcement
Lobby	entSecurity801	Off

This view opens when you click **Controller (System) Setup** \rightarrow **Access Setup** \rightarrow **Access Zones** in a remote host. It includes a tabular display of all existing access zones, including zones from all peer and subordinate stations.

- You cannot add or edit an access zone from a Supervisor view. To add or edit, use the controller station Access Zone views.
- From a Supervisor, you can see all system-wide access zones after you join and replicate subordinate controller zones.
- To view the detailed configuration (doors, entry readers, exit readers, and other devices) of an individual access zone, you must connect to the controller directly.
- Using the Grouping tab of a specific access zone view, you can join entry and exit stations into a single access zone.

Buttons

In addition to the standard control buttons (Summary, Delete, Rename, Filter, Column Chooser, Refresh, Manage Reports, and Export), these buttons provide specific access features:

- O Add creates a new access zone. The view it opens defines activity alert extensions, occupants, supervisors, entry readers, exit readers, and groups.
- leg Hyperlink opens the access zone summary view.

Columns

Table 63Access Zone columns

Column	Description
Zone Name	Displays the name of the Access Zone.
Station Name	Displays the name of the primary station associated with the Access Zone. It is possible to have card readers from more than one station in a company-wide access zone.
Fallback Enforcement	Displays the current state of fallback enforcement (Off, Soft, or Hard) that is assigned for the dis- played zone.

Add New (or edit) Access Zone view

This view creates or edits new access zones one zone at a time.

Display Name Access Zone								
y Alert Exts	Occupants	Supervisors	Entry Readers	Exit Readers	Grouping			
0 {ok} false {ok} false ✔	·							
Any	\sim							
Hard 🗸								
nt Off 🗸								
Off	$\overline{\kappa}$							
t Off								
Soft								
Off 🗸								
00 m 1	5 s [10secs	- 1min]						
00000 h	00 m 00	s [0ms - 1day	/]					
false 🗸								
12 💙 : 00	🗸 am 🖌 edt	-						
100								
-1								
	y Alert Exts 0 $\{ok\}$ false $\{ok\}$ false \forall Any Hard \checkmark nt Off \checkmark 10 10 10 12 \checkmark :00 100 -1	y Alert Exts Occupants 0 $\{ok\}$ false $\{ok\}$ false $\{ok\}$ false \forall Any \checkmark Hard \checkmark nt Off \checkmark 10ff \checkmark 10ff \checkmark 12 \forall : 00 \checkmark AM \checkmark EDT 100 -1	y Alert Exts Occupants Supervisors 0 {ok} false {ok} false $\langle ok \rangle$ false $\langle ok \rangle$ false $\langle ok \rangle$ false \vee Any \vee Hard \vee nt Off \checkmark b/ff $=$ b/ff $=$ 0 m 15 s [10secs - 1min] 00000 h 00 m 00 s [0ms - 1day false \vee 12 \vee !00 \vee AM \vee EDT 100 -1	y Alert Exts Occupants Supervisors Entry Readers 0 {ok} false {ok} false \forall Any \checkmark Hard \checkmark nt Off \checkmark bff $=$ bff $=$ 0 for $=$ 0 m 15 s [10secs - 1min] 00000 h 00 m 00 s [0ms - 1day] false \checkmark 12 \checkmark [00 \checkmark AM \checkmark EDT 100 -1	y Alert Exts Occupants Supervisors Entry Readers Exit Readers 0 {ok} false {ok} false \forall Any \checkmark Hard \checkmark nt Off \checkmark bff π bff π t Off \checkmark 00 m 15 s [10secs - 1min] 00000 h 00 m 00 s [0ms - 1day] false \checkmark 12 \checkmark :00 \checkmark AM \checkmark EDT 100 -1			

Figure 260 Access Zone view/tab

This view opens from the main menu of a remote host when you click **Controller (System) Setup→Access** Setup→Access Zones, followed by clicking the Add button (③) in the Access Zones view.

To edit an existing access zone record, double-click a row in the Access Zones view, and click the Access Zone tab.

Links

The **Save** link in the top left corner of the view saves changes to the station database. The **Access Zones** link returns to the **Access Zones** view.
Access Zone tab properties

Property	Value	Description
Display Name	text	Provides a unique name for the zone.
Occupancy Count	read-only	Displays the number of personnel currently in the zone.
Occupied	read-only	Indicates if the access zone is currently occupied.
Lock Down	true or false (default)	Enables and disables a lock down, which prohibits immediate access to the zone regardless of how the enforcement rules are configured:
		false allows normal operation.
		true disables (locks down) the zone.
Occupancy Criteria	drop-down list (de-	Keeps track of who is in the zone:
	faults to Any)	Any counts all personnel, including supervisors. This option applies no criteria regarding who must be present.
		Supervisors indicates that a supervisor (person) must be present.
Passback Mode	drop-down list (de- faults to Hard)	Determines how to handle passback activity alerts. Personnel who leave an access zone and return to the zone are said to pass back to the zone. This property can limit their ability to re- turn to the zone:
		Off disables passback mode, which allows personnel to exit and return as often as they wish.
		Soft grants return access again to the zone, but generates an alarm.
		${\tt Hard}$ denies return access to the zone and generates an alarm.
Above High Threshold	drop-down list (de- faults to Off)	Specifies the type of enforcement to use when occupancy exceeds the high threshold setting:
Enforcement		Off disables above-high-threshold enforcement.
		Soft allows access and generates an alarm.
		Hard denies access and generates an alarm.
At High Threshold Enforcement	drop-down list (de- faults to Off)	Specifies the type of enforcement to use when occupancy meets the high threshold setting:
		Off disables enforcement.
		Soft grants access and generates an alarm.
Below Low Thresh- old Enforcement	drop-down list (de- faults to Off)	Specifies the type of enforcement to use when occupancy falls below the low threshold setting:
		Off disables below-low-threshold enforcement.
		Hard grants access and generates an alarm.
At Low Threshold Enforcement	drop-down list (de- faults to Off)	Specifies the type of enforcement to use when occupancy meets the low threshold setting:
		Off disables below-low-threshold enforcement.
		Soft grants access and generates an alarm.

Property	Value	Description
Supervisor Re- quired	drop-down list	Denies access to all non-supervisory persons unless a supervisor is already an occupant.
Enforcement		Off disables the requirement for a supervisor.
		Soft requires a supervisor. Grants access even though a supervisor is not present but generates an alarm.
		Hard denies access when a supervisor is not present and generates an alarm.
Pending Time	minutes, seconds	Defines the time allowed for a second person to swipe a badge to prevent a threshold alarm. If a second badge is not swiped in the specified time, the system generates an occu- pancy alarm and may deny access.
Passback Timeout	hours, minutes, seconds	Specifies a time (timeout) after which a badge may be re- scanned at the reader without causing a passback alarm.
Reset Occupancy Enabled	true or false (default)	Clears the zone of people who did not scan their badges when they left the building. This prepares the zone so that people can enter again in the morning. You may reset occupancy at night or when you know that no one is actually in the zone.
High Threshold	number (defaults to 100)	Defines the maximum number of occupants allowed in an access zone.
Low Threshold	number (defaults to -1)	Defines the minimum number of occupants allowed in an ac- cess zone.

Add new Access Zone Summary tab

This tab is present, but does not display updated information until you create an access zone. This view may also include a context-appropriate list of floors, people and card readers that are associated with the access zone.

Figure 261 Add New Access Zone Summary tab

Summary	Access Zone	Activity Alert Exts	Occupants	Supervisors	Entry Readers	Exit Readers	Grouping
Mapped C Mapped C Type: Zone Nam Station Na Fallback E	ord: Sta G A ne: ame: inforcement: Soft	tion Unavailable Access Zone					

To access this view, click **Controller Setup** → **Access Setup**, followed by double-clicking an existing access zone in the **Access Zones** view, and clicking the **Summary** tab.

Property	Description
Mapped Ord:	Links the to the Access Zone view for the access right.
Туре:	Identifies the record as defining an access zone.
Zone Name:	Reports the name of the access zone.
Station Name:	Reports the name of the station that contains this access zone.

Property	Description
Fallback Enforcement:	Reports the current state of fallback enforcement (Off, Soft, or Hard), which is assigned to the zone.
Occupancy Count	Reports the number of people currently in the access zone.

Access zone Activity Alerts Ext tab

This tab configures what happens when an access event triggers an alert. It includes configuring video for each alert.

Figure 262 Activity Alert Exts on a reader

Display Name Access Zone						
Summary Access Zone Activity Alert	Exts	Occupants	Supervisors	Entry Readers	Exit Readers	Grouping
Anti Passback Violation Alert	Aları	m Class Mediu	um 🗸	B Video Setup	✓Enable Loggii	ng
Access Zone Disabled Alert	Aları	m Class Mediu	um 🗸	🚯 Video Setup	✓Enable Loggii	ng
Occupancy Violation Alert	Aları	m Class Mediu	um 🗸	B Video Setup	✓Enable Loggii	ng
Supervisor Required Alert	Aları	m Class Mediu	um 🗸	🚯 Video Setup	✓Enable Loggii	ng
Granted But Anti Passback Violation Aler	t Aları	m Class Mediu	um 🗸	🚯 Video Setup	☑Enable Loggii	ng
Granted But Occupancy Violation Alert	Aları	m Class Mediu	um 🗸	🚯 Video Setup	☑Enable Loggii	ng
Granted But Access Zone Disabled Alert	Aları	m Class Mediu	um 🗸	B Video Setup	✓Enable Loggii	ng
Granted But Supervisor Required Alert	Aları	m Class Mediu	um 🗸	🚯 Video Setup	✓Enable Loggin	ng

You access this tab from the main remote host menu by clicking **Controller Setup**→**Access Setup**→**Access Zones**, followed by creating a new zone or double-clicking an existing zone and clicking the **Activity Alert Ext** tab.

Alerts

Alert	Description
Anti Passback Violation Alert	Configures what to do when Passback Mode on the Access Zone tab is set to Hard and someone has attempted to re-enter the zone after leaving the zone.
Access Zone Disabled Alert	Configures what to do when Lock Down on the Access Zone tab is set to true, and an attempt has been made to enter the zone.
Occupancy Violation Alert	Configures what to do when the maximum occupancy as defined by High Threshold on the Access Zone tab has been reached, and someone has been prevented from entering the zone.
Supervisor Required Alert	Configures what to do when Occupancy Criteria on the Access Zone tab is set to Supervisor, and no supervisor has entered the zone.
Granted But Anti Passback Violation Alert	Configures what to do when Passback Mode on the Access Zone tab is set to Soft and someone has re-entered the zone after leaving the zone.
Granted But Occupancy Violation Alert	Configures what to do when the maximum occupancy as defined by High Threshold on the Access Zone tab has been reached, and someone has entered the zone.
Granted but Access Zone Disabled Alert	Configures what to do when Lock Down on the Access Zone tab is set to true and someone has left the zone.
Granted but Supervisor Required Alert	Configures what to do when Occupancy Criteria on the Access Zone tab is set to Supervisor and no supervisor has entered the zone.

Properties

Property	Value	Description
Alarm Class	drop-down list; de- faults to Medium for all alerts.	Defines alarm routing options and priorities. Typical alarm classes include High, Medium and Low. An alarm class of Low might send an email message, while an alarm class of High might trigger a text message to the department manager.
Video Setup	button	Opens the Video Setup window. Refer to <i>Video Setup window</i> in the <i>Controller (System) Setup-Alarm Setup</i> chapter.
Enable Logging	check box (defaults to checked)	Disables logging to the activity log (when the check mark is removed).

Occupants tab

This tab displays a list of all people currently occupying the access zone. Using a discover process, you can use this view to manually add or remove people from the access zone. It is always available in the access zone views, but the information it provides is based on settings from the access zone master station.



NOTE: The Occupants tab does not display in a Supervisor station.

You access this tab from the main menu by clicking **Controller Setup**→**Access Setup**→**Access Zones**, followed by creating a new zone or double-clicking an existing zone and clicking the Occupants tab.

Buttons

The buttons in this view provide standard features (Summary, Filter, Export and Discovery). In addition, these buttons provide occupancy-related features:

- Olelete removes the selected person from the access zone, Newly Assigned pane.
- O Add moves a discovered person's record from the Unassigned pane to the Newly Assigned pane.
- We Hyperlink in either pane opens the **Personnel People Summary** tab for the selected person.

Columns

Table 64Occupants columns

Column	Description
Last Name	Identifies the last name of the occupant.
First Name	Identifies the first name of the occupant.
Department	Identifies the occupant's department.
Person Type	Identifies the type of person.
Tenant Name	Identifies the name of the building tenant.

Access Zone Supervisors tab

This tab assigns and unassigns a person (department supervisor) to the current access zone. It is always available in the access zone views, but the information it contains is based on settings from the access zone master station.

Figure	264 Acce	ess Zone Supe	ervisors ta	b					
Summary	Access Zone	Activity Alert Exts	Occupants	Supervisors	Entry Readers	Exit Readers	Grouping		
Newly As	signed								
	@								
Last Nam	e 🔥		irst Name		Departr	nent		Person Type	Tenant Name
Sanders		F	Randy						A Company

In a remote controller, you access this tab by navigating to **Controller Setup**→**Access Setup**→**Access Zones**, followed by creating a new zone or double-clicking an existing zone and clicking the **Supervisors** tab.

- This tab is available when you are connected to the master controller station. The controllers pass access zone information to a Supervisor station, as appropriate, but entry and exit readers may not be configured and are not visible from the Supervisor.
- Only stations that are joined in a peer role relationship are available for grouping.

Buttons

The buttons in this view provide standard features (Summary, Filter, Export and Discovery). In addition, these buttons provide supervisor-related features:

- Old Delete removes the selected person from the Newly Assigned pane. This person is no longer designated as a supervisor.
- Old moves the selected person from the Unassigned pane to the Newly Assigned pane. This designates the selected person as a supervisor.
- We Hyperlink in either pane opens the **Personnel**-**People** Summary tab for the selected person.

Columns

Except for the title, this tab contains the same columns as does the Occupants tab.

Table 65Supervisors tab columns

Column	Description
Last Name	Identifies the last surname of the supervisor.
First Name	Identifies the first given name of the supervisor.
Department	Identifies the organizational group to which the supervisor belongs.
Person Type	Reports the value of the Person Type property associated with the person's personnel record.
Tenant Name	Reports the value of the Tenant property associated with the person's personnel record.

Entry Readers tab

This tab displays the local card readers connected to this controller, which are used to enter the access zone. You can only add readers to access zones when you are connected to the reader's assigned remote station. Readers are not visible and cannot be configured from remotely-grouped stations.

Figure 265 Entry Readers tab

Summary	Access Zone	Activity Alert Exts	Occupants	Supervisors	Entry Readers	Exit Readers	Grouping
Newly As	signed						
	@						

Reader Name 🔥	Assignment	Station Name
Reader 1	Door 1	entSecurity801

You access this tab from the main menu of a remote host station by clicking **Controller Setup** \rightarrow **Access Setup** \rightarrow **Access Zones**, followed by creating a new zone or double-clicking an existing zone and clicking the **Entry Readers** tab.

NOTE: In a company-wide system, entry readers are available from more than one controller.

Remote stations pass entry reader information to a Supervisor station, as appropriate, but you cannot configure these readers, nor are they visible from the Supervisor station.

Buttons

The buttons in this view provide standard features (Summary, Filter, Export and Discovery). In addition, these buttons provide entry-reader-related features:

- Olelete removes the selected entry reader from the Newly Assigned pane.
- O Add moves the selected entry reader from the Unassigned pane to the Newly Assigned pane.
- legislation of the selected entry reader.

Columns

Table 66 Entry Readers columns

Column	Description
Reader Name	Identifies the name of the entry reader.
Assignment	Identifies the name of the door to which the entry reader is attached.
Station Name	Identifies the remote host station name that manages the door and entry reader.

Exit Readers tab

This tab provides a way to manually assign or unassign exit readers to the current access zone. It displays only local exit readers. You can only add readers to access zones when you are connected to the reader's assigned station. Readers are not visible, nor can they be configured from remotely-grouped stations.



You access this tab from the main menu by clicking **Controller Setup**→**Access Setup**→**Access Zones**, followed by creating a new zone or double-clicking an existing zone and clicking the **Exit Readers** tab.

NOTE: In a company-wide system, exit readers are available from more than one controller.

The remote station passes exit reader information to a Supervisor station, as appropriate, but exit readers cannot be configured, nor are they visible from the Supervisor station.

Except for the title, this tab contains similar information to that contained in the Entry Readers tab.

Buttons

The buttons in this view provide standard features (Summary, Filter, Export and Discovery). In addition, these buttons provide entry-reader-related features:

- Old Delete removes the selected exit reader from the Newly Assigned pane.
- O Add moves the selected exit reader from the Unassigned pane to the Newly Assigned pane.
- Where the selected exit reader.

Columns

Tab	le 67	Entry	Reac	lers	со	lumns
-----	-------	-------	------	------	----	-------

Column	Description
Reader Name	Identifies the name of the exit reader.
Assignment	Identifies the name of the door to which the exit reader is attached.
Station Name	Identifies the remote host station name that manages the door and exit reader.

Grouping tab

This tab adds stations to the displayed access zone and, thereby, extends the zone to the readers assigned to those stations. It is only available when you are connected to the master controller station. In addition to extending the access zone physically, grouping shares access zone naming, occupancy, and supervisor information.

Figure 20	67 Groupi	ing tab						
Summary	Access Zone	Activity Alert Exts	Occupants	Supervisors	Entry Readers	Exit Readers	Grouping	
Newly As	signed							
0								
Display Na	ame 🙏			Status		To D	isplay Path §	String
Station1				{down}		/Driv	ers/NiagaraNe	twork/Station1

You access this tab from the main menu by clicking **Controller Setup**→**Access Setup**→**Access Zones**, followed by creating a new zone or double-clicking an existing zone and clicking the **Exit Readers** tab.

Only stations that are joined in a peer relationship are available for grouping. You can only add readers to access zones when you are connected to the reader's assigned station. Readers are not visible nor can they be configured from remotely-grouped stations.

Buttons

In addition to the standard features (Delete, Filter and Export) this view supports grouping with these buttons:

- We Hyperlink in either pane opens the **Personnel People Summary** tab for the selected person.
- E Assign Mode buttons open and close the Unassigned pane.

Columns

Table 68Grouping tab columns

Column	Description
Display Name	Identifies the name of the group.
Status	Reports the status of the group.
To Display Path String	Indicates the station in the network with which this intrusion zone is grouped.

Card Formats view

This view displays a listing of all Wiegand formats that are defined for the system. You might use this feature if you deleted a format and want it back or if you upgraded your system and do not already have these formats available.

Figure 268	Card Formats view
riguic 200	

Wiegand Format Name 🔥	Bit Length	Format
26-Bit Wiegand Format (HID-H10301)	26	PFFFFFFNNNNNNNNNNNNP
34-Bit Northern Wiegand Format	34	OFFFFFFFFFFFFFFFFNNNNNNNNNNNNN
37-Bit Wiegand Format (HID-H10302)	37	PNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
40-Bit Wiegand Format	40	PNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
55-Bit Wiegand Format	55	PNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
test	26	N

To access this view from the main menu in a remote host station, click **Controller Setup→Access Setup→-Card Formats**.

Buttons

In addition to the standard control buttons (Summary, Delete, Filter, Column Chooser, Refresh, Manage Reports and Export), these buttons support card formats:

- O Add creates a new card format.
- Where the selected of the selected card with the Summary tab selected.
- Add From Default Card Formats button opens a window for choosing one or more default card formats. Any default formats that are not already in the list appear in the window. You add the format by selecting the appropriate check box.

Columns

Table 69	Card Formats view columns	

Column	Description
Wiegand Format Name	Provides a descriptive title for the Wiegand Format.
Bit Length	Specifies the card format total bit length. This number is the total of all data bits and all parity bits. NOTE: This system supports up to 256-bit Wiegand format.
Format	Displays the layout of all the bits.

Wiegand Format Editor view, Wiegand Format tab

This view configures new Wiegand format properties.

NOTE: You cannot edit a card format that is in use. Card formats that are not currently used by any badges display in the Wiegand format editor view and may be edited.

Figure 269 Wiegand Format Editor view

🔚 Save 🔯 Wieg	and Formats	
Summary Wiegan	d Format	
Wiegand Format Name		
Default Facility Code		
Validation Bits	All 🗸	
Bit Length	26	[0 - 256]
Parity Bits	0	[0 - 5]
Facility Start	0	
Facility Length	0	
Credential Start	0	
Credential Length	1	
Format	N	

This view opens from the main menu when you click Controller Setup - Access Setup - Card Formats, fol-

lowed by clicking the Add button (()) in the Add New Wiegand Format view.

To edit an existing format, double-click the format row in the Card Formats view.

NOTE: You cannot edit a card format that is in use. Card formats that are not currently used by any badge display in the Wiegand format editor view and may be edited.

Links

A Save link and a Wiegand Formats view link are located at the top of the view.

NOTE: A maximum of 256-bit Wiegand format size (card bit length) is supported.

Wiegand	Format	tab	properties
---------	--------	-----	------------

Property	Value	Description
Wiegand Format Name	text	Provides a descriptive title for the Wiegand Format.
Default Facility Code	text	Sets the default Facility Code property when assigning a format to a badge. It does not need to match the Facility Length property and can be used to pre-load a prefix to be completed during badge creation.
Validation Bits	drop-down list	Selects the level of validation to use with the format. Three op- tions are available: All, the most restrictive or secure, vali- dates bits representing all possible areas of the format. Credential and Facility Code only validates the Creden- tial and Facility Code bits. Credential Only, the least restric- tive or secure, only validates the Credential bits.

Property Value		Description					
Bit Length	number (0-256)	Specifies the card format total bit length. This number is the total of all data bits and all parity bits.					
Parity Bits number (0-5)		Specifies how many parity bits are in the format, not the loca- tion of the bits. Refer to Format property, page 298					
Facility Start number		Specifies the bit position that holds the first bit of the facility code. Refer to Format property, page 298					
Facility Length number		Specifies the total number of bits that are dedicated to facility code. Refer to Format property, page 298					
Credential start	number	Specifies the bit position that holds the first bit of the creden- tial numbers. Refer to Format property, page 298					
Credential Length number		Specifies the total number of bits that are dedicated to cre- dential numbers. Refer to Format property, page 298					
Format	text	Specifies the layout of all the bits, which must agree with the information in the previous parity, facility, and credential properties. Valid Format characters include:					
		P-parity bit (an extra bit added for error detection)					
		F-facility code bit					
		N–credential number bit					
		0–constant character of 0 (zero)					
		1–constant character of 1 (one)					
		Refer to Format property, page 298					
Parity Layout one or more addi- tional format properties		Define the expected parity: Odd or Even. Refer to Format property, page 298					

Format property

Parity Bits may be located anywhere in the format.



The example Format above has two parity bits. It specifies the location of these bits: one in the leading position, and the other in the trailing position.

Facility Start, **Facility Length**, Credential Start and Credential Length identify where the information starts in the **Format**, and how many characters are involved.



Facility Start Credential Start

The Format property identifies the purpose of each bit, which must agree with the Parity Bits, Facility and Credential properties.



For example, if the Parity Bits value is "3," three instances of the letter "P" must appear in the Format. Based on the number of Parity Bits, additional Parity Layout properties appear below the Format property. If the value of Parity Bits is zero (0), no Layout properties appear. Parity Layout properties indicate the expected parity: Odd or Even.

	Parity Bit-0 Alignment	Parity Bit-1 Alignment
	+	+
Format	PFFFFFFFFNNNNI	NNNNNNNNNN
Parity Layout (EEEEEEEEEE	
Parity Layout	000	000000000000000000000000000000000000000

The locations of the "E" and "O" characters in the **Parity Layout** property designate the bits that are used to calculate the parity sum. Follow these rules as you enter these characters:

- E indicates that an even number of ones (1) is required to verify transmission accuracy.
- O indicates that an odd number of ones (1) is required to verify transmission accuracy.
- Do not combine "E" and "O" characters in a single **Parity Layout** definition.
- In each **Parity Layout** definition, at least one parity bit character must align vertically beneath a credential bit or facility code bit. Additional characters are not required to align with any particular character, however, at least one character must be below a data field (**Facility Code** or **Credential Number**).
- Position the first "E" or "O" directly below the "P" in the Format property (Parity Bit-0 Alignment and Parity Bit-1 Alignment for right-to-left validation). Add additional characters of the same type, as required by the parity format definition.
- Align an additional "E" or "O" vertically under any additional parity bit (P) in the Format and add additional characters of the same type as required by the definition.

Wiegand Format Summary tab

This tab summarizes the properties for the selected Wiegand format.

Figure 270 Wiegand format Summary tab

Save 🔯 Wiegand Formats							
Summary	Wiegand Format						
m 40-Bit Wiegand Format							
Type:	🐺 Wiegand Format						
Wiegand	Wiegand Format Name: 40-Bit Wiegand Format						
Bit Length	i: 40						
Format:	PNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN						
<	>						

This view opens from the main menu when you click **Controller Setup→Access Setup→Card Formats**, followed by double-clicking on a card format in the **Card Formats** view.

This tab is present but displays no pertinent information until you save the new Wiegand format. The tab shows the format title, primary properties, and a lists of badges that are using this format. Links to the Wiegand Formats and Badges views are included. When you save the data, this tab displays by default in the Edit: Wiegand Format view. It includes links to the Wiegand Formats and Badges views.

Access Control Setup view

This view configures the Access Control Service.

Figure 271 Access Control Setup view

Access Control Service	
Status	{ok}
Fault Cause	
Cache Status	Active
Enabled	true 🗸
Display Unknown Wiegand Formats	false 🗸
Has Pin Duress	false 🗸
Pin Duress Offset	1
Remote Validation	false 🗸

To access this view from the main menu of a remote host controller station, click **Controller Setup→Access Setup→Access Control Setup**.

Properties

In addition to the standard properties (Status, Fault Cause and Enabled), these properties support access control configuration.

Property	Value	Description
Cache Status	read-only	Indicates if cache is currently being used. Caching speeds up access. If access is slow, check this property value to see if caching is currently inactive or failed. Cache is normally tempo- rarily disabled during a join process.
Display Unknown Wiegand Formats	true or false (default)	Turns off (false) unknown Wiegand messaging.
Has Pin Duress	true or false (default)	Turns the PIN duress alarm feature on and off.
Pin Duress Offset	text	When PIN Duress is enabled, sets a number used for incrimi- nating a PIN value to indicate duress. For example, if a PIN number is 1234 and the Pin Duress Offset value is 2, a PIN number of 1236 causes a duress alarm if the Pin Duress En- abled property is set to true.
Remote Validation	true or false (default)	Controls the validation of user credentials at a remote location. Remote validation usually takes less than five seconds. How- ever, if a Supervisor station is busy or has a large database, re- mote validation can take much longer, or may not be successful at all. In this situation, a card holder may walk away prior to the door unlocking, creating a security risk. For these reasons, this property defaults to false. If it is disabled on ei- ther the Supervisor or remote station, remote validation does not occur.

Additional Personnel Entry — Import Info tab

This view appends new personnel record data, including Photo ID images to the existing station database.

	Figure 272	Additional	Personnel	Entry view
--	------------	------------	-----------	------------

Save Export								
Import Info								
Tenant	🥱 None	»						
Wiegand Format	None	»						
Jser Pass Key ••••••								
File		Browse						

To access this view from the main menu of a remote host station, click Controller Setup \rightarrow Access Setup \rightarrow Additional Personnel Entry.

Links

The **Save** link in the top left corner of the view saves changes to the station database. The **Export** link opens the **Export Personnel Records** window.

Property	Value	Description
Tenant	Ref Chooser	Defines the tenant company for whom the person works.
Wiegand Format	Ref Chooser	Indicates the Wiegand format that is associated with the badge for this person. Wiegand format values are case-sensi- tive fields and are allowed as input data.
User Pass Key	text	On export, protects the exported file by creating a unique string. On import, the system requires this string.
File	filename	On export, defines the name of the .zip file to create. On import, locates the exported file.

Properties

Data to import

This topic lists some commonly-used valid properties you can import using the Additional Personnel Entry (import from CSV file) tab. These properties may be arranged in any order and only a last name for each person is required for a successful import.

rigure 2/3 Example CSV life for data in

	В	С	D	E	F	G	Н	I	J	K	0	P	Q	R	S	Т
1	FirstName	Middlel	PinNumbe	Tenant	PersonTyp	Supervisor	Departmen	WiegandFormat0	Credential0	FacilityCod	AccessRight0	StartDate0	EndDate0	AssignedThre	AccessRight1	StartDate1
2	Bruce				Emergence	FALSE					Bldg.2-Emergency F	Responder				
3	Todd			Afton Rem	note	FALSE	Engineering	3			Bldg.1-Interior Door	s		7		
4	Tracy	L				FALSE										
5	Randy			Afton Rem	note	FALSE	Engineering	9			Bldg.1-Interior Door	s				
6	Robert		AHrPImXE	Afton Rem	note	FALSE	Sales	37-Bit Wiegand Fo	3744365	0	Bldg.1-Perimeter Do	oors				
7	Steven				Police	FALSE					Bldg.2-Police Resp	onder				
8	Theodore	N	AHsXimVg	Xh2GEbGI1	Txj+vgXEC6	FALSE		26-Bit Wiegand Fo	0	0	Bldg.1-Interior Door	s			Bldg.1-Perime	ter Doors
9	Sandeev			Acme Pha	Operator	FALSE	Tracking	40-Bit Wiegand Fo	123456789	0	Bldg.1-Interior Door	s			Bldg.1-Perime	ter Doors
10	Sneeple					FALSE		37-Bit Wiegand Fo	3744367	0	AA Night				Bldg.1-Interior	Doors
11	John		AH9dimXI1	IOFGFFd2QI8	Administra	FALSE	District	37-Bit Wiegand Fo	3744366	0	Bldg.2-Perimeter D	oors			Bldg.1-Interior	Doors
12	Wendy				Employee	FALSE	Faculty				Bldg.2-Perimeter D	oors			Bldg.2-Interior	Doors
13	Chris				Employee	FALSE	Administra	26-Bit Wiegand Fo	0	0	Bldg.2-Perimeter D	oors		7	Bldg.2-Interior	Doors

Property	Value	Description					
First Name (optional)	text	Defines the employee's first given name.					
Last Name (required)	text	Defines the employee's second name.					
Middle Initial (optional)	text						
PIN Number (optional)	numeric, no spaces allowed	Defines a Personal Identification Number to import only. The export file displays the encoded number in the PIN column if one exists.					
Tenant (optional)	Ref Chooser	Defines the tenant company for whom the employee works.					
Person Type (optional)	text	For example: Male, Female, Unknown					
Supervisor (optional)	true or false	Identifies if the person functions in a supervisory role.					
Department (optional)	text	Defines the department, such as Accounting, Personnel, Manufacturing, Sales, etc.					
Wiegand Format (optional)	Ref Chooser	Indicates the Wiegand format that is associated with the badge for this record. Wiegand format values are case-sensi- tive fields and are allowed as input data.					
Credential (option- al unless a Fa- cility Code is also provided)	text	Provides a unique badge number.					
Facility Code (optional)	text; the default is defined in the Wie- gand format	If this property is left blank, the default is used.					
Access Right (optional)	text	Defines one or more access rights to link with the personnel record.					
Portrait (optional)	.jpg or .png	Defines the photo used on a Photo ID.					

Data that are not supported for import

The following types of data are NOT supported by Additional Personnel Data import and export:

- Badge data
 - Description
 - Status
 - Issue Date
 - Threat Level Group
 - Assigned Level
- Person data
 - Trace Card
- Access Right data

- Description
- Schedule
- Threat Level Group
- Threat Level Operation
- Default Assigned Threat Level
- Niagara Integration ID
- Readers

Export Personnel Records window

Exports the additional personnel data to a comma-delimited file.



Export Personnel Records		
File Name	nersonnelBackun wykonSecurity 6 19-Anr-17	
User Pass Key	personnelbackap_vykonsecurity_o_15 / pr 1/	
-	Ok Cancel	

This window opens from the Additional Personnel Entry view when you click the Export button.

Property	Value	Description
File Name	text	Defines the name of the file to create.
User Pass Key	text	Defines the password the system will require when importing this data back into the database.

Chapter 10 Controller (System) Setup-Intrusion Setup

Topics covered in this chapter

- Intrusion Pins view
- Add New (or edit) Intrusion Pin view, Intrusion Pin tab
- Intrusion Zones views
- ♦ Add New (or edit) Intrusion Zone view
- Edit Existing Intrusion Pin view
- Intrusion Displays views
- Add New (or edit) Intrusion Display view

Intrusion Setup views configure intrusion PINs, zones and displays that manage the building's alarm system. These views are available to both Supervisor and controller stations.

Figure 275 Intrusion menu

A	Intrusion PINs
I,	Intrusion Zones
/	Intrusion Displays

A Supervisor station does not include the Intrusion Displays menu item.

Intrusion Pins view

An intrusion PIN (personal identification number) is a number that is required to arm and disarm an intrusion zone. This view provides a tabular display of all existing intrusion PINs.

Figure 276 Intrusion Pins vi	iew		
🚰 Home 🛛 ốơ Monitoring 🔒 Pers	sonnel 📄 Reports 💣 Controller S	Setup 🛕 Threat Levels	
📰 Schedules 🛛 🙎 User Managemen	t 📭 Backups 💣 Remote Devices	Access Setup	etup
	Š E S Ø C		
Intrusion Pin Name 🙏	Schedule Name	Tenant Name	
Front door	Boolean Schedule	A Company	
Service Entrance	Boolean Schedule	A Company	
Side Door	Boolean Schedule	A Company	
/			

To access this view from the main menu, click **Controller (System) Setup→Intrusion Setup→Intrusion PINs**.

Buttons

In addition to the standard control buttons (Summary, Delete, Filter, Column Chooser, Refresh, Manage Reports, and Export, these buttons serve special functions for intrusion configuration:

- O Add opens the Add New Intrusion Pin view.
- legislation with the Intrusion Pin view to the Summary tab.

• Duick Edit opens the **Quick Edit** window for the selected item(s). This feature allows you to edit one or more records without having to leave the current view.

Columns

Table 70 Intrusion PIN table columns

Column	Description
Intrusion Pin Name	This links to a listing of the names of each of the current PINs. Double-clicking on the PIN descrip- tion displays the appropriate Edit Existing PIN view.
Schedule Name	Displays the name of any schedule that is assigned to the PIN.
Tenant Name	Displays the name of any tenant assigned to the PIN.

Add New (or edit) Intrusion Pin view, Intrusion Pin tab

This view and tab sets up new intrusion PIN (Personal Identification Number) one at a time.

Figure 277 Intrusion Pin tab

🔚 Save 🔯 Intrusion Pins				
Summary	Intrusion Pin Intrusion Zones			
Intrusion Pin Name				
Schedule	None	»		
Tenant	🌖 None	»		
DTN	PIN (number only):			
P.114	Confirm PIN:			

To access this tab from the main menu, click **Controller (System) Setup** \rightarrow **Intrusion Setup** \rightarrow **Intrusion PINs**, and click the Add button (\bigcirc).

To edit an existing intrusion PIN, double-click the PIN row in the Intrusion Pins view, and click the Intrusion Pin tab.

Links

A **Save** link is located in the top left of the view and an **Intrusion Pins** link returns to the **Intrusion Pins** view.

Properties

Property	Value	Description
Intrusion Pin Name	text	Defines a name for the intrusion PIN.
Schedule	Ref Chooser	Opens a Ref Chooser for associating a schedule with the PIN.
Tenant	Ref Chooser	Opens a Ref Chooser for associating a tenant with the PIN.
PIN	number	Defines the PIN.

Intrusion Pins Summary tab

This tab displays a read-only list of information about the selected PIN.

Figure 278 Summary tab



This view opens when you save changes made in another PIN tab. Display properties include the PIN Name, associated schedules, and tenants. Located at the bottom of the tab is a list of all the associated intrusion zones currently associated with the PIN.

Property	Description
Туре	Identifies the type of record as defining to an Intrusion PIN.
Intrusion Pin Name	Provides a name for the PIN.
Schedule	Identifies the schedule associated with the PIN.
Tenant	Identifies the tenant company associated with the PIN.
Intrusion Zones	Identifies the intrusion zone(s) associated with this PIN.

PIN Intrusion Zones tab

This tab associates and disassociates intrusion zones from the currently displayed intrusion PIN using the assign mode, the assign and unassign buttons.

Figure 279 Intrusion Zones tab



This view opens when you navigate to **Controller (System) Setup→Intrusion Setup→Intrusion Pins**, double-click an existing row in the table and click the **Intrusion Zones** tab.

Buttons

In addition to the standard buttons (Delete, Summary, Filter and Edit), these buttons support intrusion zones tab under the Intrusion Pins view:

- leg Hyperlink opens the Intrusion Zone view to the Summary tab.
- E Assign Mode buttons open and close the Unassigned pane.

Intrusion Zones views

Intrusion zones combine multiple sensors into a logical grouping for monitoring and alarming in a defined space (zone) within a building.

Figure 280	Intrusion Zones view			
📰 Schedules	👗 User Management 🛛 🞼 Backups	💣 Remote Devices 🛛 💣	Access Setup	💣 Alarm Setup 🛛 💣 Miscellaneous
Display Name A	Zone Status	Time Delay	Warning Time	To Display Path String
Intrusion Zone	Disarmed	20secs	5secs	/Services/AlarmService/Intrusion Zone

You access this view from the main menu by clicking **Controller Setup**→**Intrusion Setup**→**Intrusion Zones**.

Buttons

In addition to the standard control buttons (Delete, Rename, Refresh, Column Chooser, Filter, Reports Manager, and Export), these buttons support intrusion zones.

- O Add opens the Add New Intrusion Pin view.
- leg Hyperlink opens an existing intrusion pin record.
- A Manual Override opens a window from which to select one of four options for manually overriding access to an intrusion pin.

Columns

Column	Description
Display Name	Identifies the name of the intrusion zone.
Zone Status	Reports the last value written using device facets. Applies only to writable points.
Time Delay	Reports the length of time the system waits after someone sets the alarm before it arms the zone.
Warning Time	Reports the length of time the system sounds a warning before arming a zone.
To Display Path String	Defines the station path for this zone.

Add New (or edit) Intrusion Zone view

This view provides configures an intrusion zone.

Figure 281 Intrusion Zone view/tab

Save 🔯 Intrusion Zones							
Display Name In	trusion Zone1						
Intrusion Zone	Recipients	Relay Links					
Ack Required		Normal 🗹 Offnor	mal 🗹 Fault 🗹 Alert				
Priority	Off	normal 255	Fault 255	Normal	255	Alert 255	5
Total Alarm Coun	t 0						
Open Alarm Coun	t 0						
In Alarm Count	0						
Unacked Alarm C	ount 0						
Time Of Last Alar	m 01	∨-Jan ∨- <mark>19</mark>	70 05 ∨ : 30 ∨	AM 🖌 IST			
Escalation Level1	Enabled fal	se 🗸					
Escalation Level1	Delay 00	000 h 05	m [1min - +inf]				
Escalation Level2	Enabled fal	se 🗸					
Escalation Level2	Delay 00	000 h 15	m [2mins - +inf]				
Escalation Level3	Enabled fal	se 🗸					
Escalation Level3	Delay 00	00000 h 30 m [3mins - +inf]					
Zone Enabled	fals	e {ok}					
Zone Schedule		None		»			
Zone Input	۲	None		»			
Zone Status	Dis	armed					
Arming Test State	us Suc	cess {ok}					
Time Delay	00	000 h 00	m 20 s [0ms - +i	nf]			
Warning Time	00	000 h 00	m 05 s [0ms - +i	nf]			
Count Down	0 s	ec					
Last Activity	01	✓ - Jan ✓ - 19	70 05 ∨ : 30 ∨	AM 🗸 IST			

To access this view from the main menu, click **Controller (System) Setup→Intrusion Setup→Intrusion Zones** the Add button (^O).

Links

A Save link is located in the top left of the view and an Intrusion Zones link returns to the Intrusion Zones view.

Intrusion Zone tab

This tab configures the properties of a new intrusion zone.

Property	Value	Description
Ack Required	check boxes	Sets the requirements for an alarm acknowledgment in this in- trusion zone. Alarm acknowledgments are required only for se- lected options.
Priority	number between 1 (highest priority) and 255	Sets an importance level for each of the listed priority catego- ries: Offnormal, Fault, Normal, and Alert alarms.
Total Alarm Count	number	Returns the total number of alarms of any state that are associated with the intrusion zone.

Property	Value	Description		
Open Alarm Count	number	Returns the number of open alarms. An alarm is considered open when it is not acknowledged and normal or not acknowl- edged and in alert.		
In Alarm Count	number	Returns the number of alarms that are currently in an alarm state.		
Unacked Alarms	number	Returns the number of alarms that require acknowledgment and have not yet been acknowledged.		
Time of Last Alarm	read-only time	Indicates when the latest alarm occurred.		
Escalation Level(n) (where n is 1, 2, or 3)	true or false	Enables and disables alarm escalation at this level.		
Escalation Level (n) Delay (where n is 1, 2, or 3)	time (minimum: one minute)	Defines the amount of time to allow an unacknowledged alarm to remain unacknowledged before you escalate it to the next level.		
Zone Enabled	read-only true or false	Indicates the status of the intrusion zone: enabled (true) or disabled (false).		
Zone Schedule	Ref Chooser	Arms and disarms an intrusion zone according to a schedule.		
		Clicking delete () removes an assigned schedule.		
Zone Input	Ref Chooser	Designates the input to use for zone communication. Clicking		
		delete (🥯) removes an assigned input.		
Zone Status	read-only	Displays the status of the intrusion zone: Armed, Disarmed, or Arming.		
Arming Test Status	read-only true or false	Indicates if the last arming test was successful (${\tt true})$ or unsuccessful (${\tt false}).$		
Time Delay	hours, minutes, seconds, and milliseconds	Defines the time between when an alarm is set and when the zone is actually armed. For example, a Time Delay of 45 sec- onds allows occupants to leave promptly without setting off the alarm. During this time delay period, the intrusion zone is in an arming state.		
Warning Time	hours, minutes, seconds, and milliseconds	Defines when the system begins signaling to warn occupants that it is about to arm the zone. This value may be less than or equal to the Time Delay. For example, if the Time Delay is 45 seconds and the Warning Time is 10 seconds, 35 seconds after beginning to arm the zone, the warning signal, such as a beeper, sounds for the final 10 seconds of the arming state.		
Count Down	hours, minutes, seconds, and milliseconds	Displays the time remaining before the system arms the intru- sion zone.		
Last Activity	read-only	Reports the last arming or disarming event.		

Manual Override window

This window selects an option for manually arming or disarming an intrusion zone.

Figure 282 Manual Override window



The window opens when you click the Manual Override button on the edit intrusion zone view.

Table 71Manual Override options

Option	Description		
Arm with time delay	Arms the intrusion zone using the time delay set in the Time Delay field. The zone does not alarm if there are any open alarms in the zone.		
Force Arm	Arms the intrusion zone immediately with no time delay and regardless whether or not there open alarms in the intrusion zone.		
Force arm with time delay	Arms the intrusion zone using the time delay set in the Time Delay field. Open alarms in the zone do not prevent force arming.		
Arming Test	Checks for points in an active alarm state before arming the intrusion zone. You cannot arm an in- trusion zone that has points in an active alarm state. The test reports that the zone is ready to arm, or it displays a list of points that are in alarm.		
	NOTE: Make sure that the request-to-exit properties on all doors in an intrusion zone are inactive before initiating the arming test. An active request to exit inhibits the associated door sensor and, allowing the sensor to bypass the test.		

Intrusion Zone Summary tab

This tab reports the main properties currently configured for the intrusion zone.

Figure 283 Intrusion Zone Summary tab

Summary	Intrusion Zone	Intrusion Pins	Intrusion Displays			
Mapped O	Zone Ord: /Ser	/Services/AlarmService/Intrusion Zone				
 Intrusion 2 	Zone Name: Intrus	ion Zone				
Zone Stati Time Dela	us: Disarn	ned				
 Warning T 	Time: 5secs	5				

This view opens when you click **Controller (System) Setup→Intrusion Setup→Intrusion Zones** and double-click a zone in the table.

Property	Description		
Mapped Ord	Reports the address of the intrusion zone.		
Туре	Reports the type of zone.		
Intrusion Zone Name	Reports the name of the current intrusion zone.		
Zone Status	ports the condition of the zone.		
Time Delay	Reports any delay.		
Warning Time	Indicates the amount of time prior to an alarm that a alarm warning beep is sounded. For example, if Door Held Open Limit is 60 seconds, 30 seconds after the door opens the warning beep sounds and stops either when the door closes or when the door sensor goes into an alarm condition.		

Intrusion Displays tab (learn mode)

This tab displays a list of all of the intrusion monitors that are assigned to the currently-selected intrusion zone, and provides a way to manually assign and unassign monitors.



This tab opens when you click **Controller (System) Setup→Intrusion Setup→Intrusion Zones**, double-click a zone in the table, and click the Intrusion Displays tab.

Links

The Manual Override link opens the Manual Override window.

Buttons

In addition to the standard buttons (Delete, Filter and Export), these buttons support intrusion displays:

Hyperlink opens the Intrusion Display view at the Summary tab.

Columns

Column	Description
Display Name	Reports the name of the intrusion display.
Default Message	Reports the default message for this display.
Smart Key Device	Reports the name of the connected SmartKey device.
Address	Reports the URL of the display.
Status	Reports the current condition of the display.
Intrusion Zones	Reports the intrusion zone(s).

Readers tab

This tab provides a way to manually assign and unassign readers to the current intrusion zone.

Figure 285	Readers tab				
Summary	Intrusion Zone	Intrusion	n Pins	Intrusion Displays	Readers
Assigned					
Display Na	ame 🙏 🦷 St	atus	Enable	ed Reader Con	fig L

This tab opens when you click **Controller (System) Setup→Intrusion Setup→Intrusion Zones**, double-click a zone in the table and click the **Readers** tab.

You add items to the currently-displayed intrusion zone using the assign mode, assign and unassign buttons.

Note the following about readers and intrusion zones:

- Readers may be used to arm and disarm intrusion zones.
- A single reader may be assigned to more than one intrusion zone and it arms and disarms all zones that it is assigned to.
- A single reader cannot be assigned to BOTH a door and an intrusion zone at the same time.
- In a company-wide system, entry readers may be available from multiple controllers.

Points tab

This tab lists all the points that are assigned to the currently-selected intrusion zone and provides a way to manually assign or unassign points to the zone. The assigned, points define the zone and, in a company-wide system, may include more than one controller.



This tab opens when you click **Controller (System) Setup→Intrusion Setup→Intrusion Zones**, double-click a zone in the table and click the **Points** tab.

Entry points are points (already assigned under the **Points** tab), which are associated with a location that may need a delay for arming or disarming. A value of true under the Entry column in the table identifies the entry points.

In addition to the assign mode, assign and unassign, filter and export buttons, this tab provides these buttons:

• Edit Entry Point designates a point as an entry point. The window it opens provides a single property used to enable (true) and disable (false) the use of the point as an entry point.

NOTE: Door alarm points (for example, Door Held Open Alarm, Door Forced Open Alarm, and Supervised Fault Alarm) cannot be assigned under the intrusion zone **Entry Points** tab and, therefore, they do not appear in the **Assign Points** window.

• B Edit Always Armed Points configures a point to always be armed, even if the intrusion zone they are assigned to is disarmed. The window it opens provides a single property used to enable (true) and disable (false) the always-armed condition.

NOTE: When always armed, intrusion Timeout Alarm points and the points that are already added to the **Entry Point** tab are not available. They do not appear in the **Assign Points** window.

Columns

Column	Description		
Source Name	Displays the point source.		
Display Name	Displays the name of the point.		
Entry	Indicates if the point is an entry point that requires a delay (true) or not (false).		
Always Armed	Indicates if the point is to remain armed after disarming the zone (true) or not (false).		
Status	Reports the current condition of the entity as of the last refresh: {alarm}, {disabled}, {down}, {fault}, {ok}, {stale}, {unackedAlarm}		

Grouping tab

This tab manually assigns and unassigns more than one remote station to the current intrusion zone. Using the assign mode, assign and unassign buttons, peer, Supervisor, and subordinate stations may be included in the zone.



This tab opens when you click **Controller (System) Setup→Intrusion Setup→Intrusion Zones**, double-click a zone in the table and click the **Grouping** tab.

Buttons

This tab provides standard control buttons.

Columns

Column	Description
Display Name	Provides the name of the group.
Status	Reports the current condition of the entity as of the last refresh: {alarm}, {dis- abled}, {down}, {fault}, {ok}, {stale}, {unackedAlarm}
To Display Path String	Displays the path to the group location.

Recipients tab

This tab provides a way to assign alarm recipients to the selected intrusion zone and remove assignments. Alarm recipients receive alarm notification as specified by the specific alarm recipient properties.

Figure 288 In	trusion Zone	e Recipients ta	b
Intrusion Zone	Recipients	Relay Links	
Assigned			
Display Name	A		Alarm Classes
ConsoleRecipient	:		Medium; High; Low; Intrusion Zone; Intrusion Zone1

To access this view from the main menu, click **Controller (System) Setup→Intrusion Setup→Intrusion Zones** the click the **Recipients** tab.

The title of the view indicates the currently-selected intrusion zone.

You add items to the displayed view using the assign mode and the assign and unassign buttons.

NOTE: You cannot save an Intrusion Zone unless it has an assigned console recipient.

Buttons

In addition to the standard control buttons (Delete, Filter, and Export) these buttons are important for managing intrusion zone recipients:

- Hyperlink opens the monitoring view associated with the intrusion zone.
- De Assign Mode buttons open and close the Unassigned pane.

Columns

Table 72Recipients columns

Column	Description
Display Name	Reports the name that describes the event or function.
Alarm Classes	Reports the Display Name of the alarm class associated with the point, recipient or other component.

Escalation Level tabs

These tabs manually assign and unassign alarm recipients to an escalation level. Assigned alarm recipients receive alarm escalation notification when the system escalates a corresponding alarm as specified by the specific alarm recipient properties.

Figure 289 Escalation Level tab

Summary	Intrusion Zone	Intrusion Pins	Intrusion Displays	Readers	Points	Grouping	Recipients	Escalation Level 1
Assigned								
)						
Display N	ame 🔺						Alarm	Classes

This tab opens when you click **Controller (System) Setup→Intrusion Setup→Intrusion Zones**, double-click a zone in the table and click the **EscalationLevel** tab.

An Escalation Level tab displays for each escalation level that is enabled on the Intrusion Zone tab. No Escalation Level tab is displayed when escalation levels are not enabled (set to false).

You add items to the currently-displayed intrusion zone escalation level using the assign mode and the assign and unassign buttons.

Buttons

In addition to the standard control buttons (Delete, Filter, and Export) these buttons are important for managing intrusion zone recipients:

- level associated with the intrusion zone.
- 🗖 🖻 Assign Mode buttons open and close the Unassigned pane.

Columns

Column	Description	
Display Name	Provides escalation level name.	
Alarm Classes	Defines the alarm classes associated with the zone.	

Relay Links tab

This tab assigns and unassigns output relays to the selected intrusion zone for the purpose of communication output. This output relay is active whenever the intrusion zone is in an armed state.





To access this view from the main menu, click **Controller (System) Setup→Intrusion Setup→Intrusion Zones** the click the **Relay Links** tab.

The title of the view indicates the currently-selected intrusion zone.

You add items to the currently displayed intrusion zone using the assign mode and the assign and unassign buttons.

Buttons

In addition to the standard control buttons (Delete, Filter, and Export), these buttons apply to relay links:

- Where the Alarm Count to Relay tab for the selected intrusion zone.
- E 🖻 Assign Mode buttons open and close the Unassigned pane.
- Turn Off Relays manually disables an output relay.

Columns

Column	Description
Display Name	Reports the name of the relay link.
Alarm Count Type	Identifies the count type configured (in the Add New Alarm Count to Relay view) to activate the relay. Unacked Alarm Count activates the relay for the length of the time defined by Timer or until the alarm is acknowledged. Open Alarm count activates the relay for the length of the time defined by Timer or until the alarm is cleared from the console. In Alarm Count activates the relay for the length of time defined by Timer or until the alarm returns to normal. Total Alarm Count activates the relay or the length of time defined by Timer when an alarm occurs.
Alarm Count	Reports the number of alarms for the configured count type that activated the relay.
Relay Value	Indicates if the output relay is on (true) or off (false).
Timer	Reports the maximum amount of time that the relay is energized.

Edit Existing Intrusion Pin view

An Intrusion Pin (Personal Identification Number) is used to authorize the arming and disarming of an intrusion zone when the reader associated with the intrusion zone is configured as an intrusion keypad. This tab uses the assign mode to assign, unassign, and link to existing intrusion PINs.



This tab opens when you click **Controller (System) Setup→Intrusion Setup→Intrusion Zones**, double-click a pin in the table and click the Intrusion Pins tab.

Links

The Manual Override link opens the Manual Override window.

The panes contain the standard Newly Assigned-Unassigned control buttons.

Buttons

In addition to the standard buttons (Delete, Filter and Export), these buttons support intrusion displays:

- Imperlink opens the Intrusion Pin view at the Summary tab.
- E Assign Mode buttons open and close the Unassigned pane.

Columns

Column	Description
Intrusion Pin Name	Reports the name associated with the intrusion pin.
Schedule Name	Reports the name of the schedule associated with the intrusion pin.
Tenant Name	Reports the tenant name.

Intrusion Displays views

Intrusion displays present information about the status of an intrusion zone and let users interact with the zone using a keypad, touch pad, or other means of data input. The Intrusion Displays view shows a table of all of the available intrusion displays. Double-click on the display name entry to view and edit details about the particular display.



Display Name	Default Message	Smart Key Device	Address	Status	Intrusion Zones A

You access this view from the main menu by clicking **Controller Setup→Intrusion Setup→Intrusion Displays**.

Buttons

The control buttons provide the standard functions.

Columns

Column	Description
Display Name	Displays the name of the intrusion display
Default Message	Shows the text that displays on an intrusion display device or on the Virtual Display.
Smart Key Device	Displays the name of any assigned Smart Key device.
Address	Shows the ID of the device (SmartKey) assigned to the intrusion display.
Status	Reports the current condition of the entity as of the last refresh: {alarm}, {disabled}, {down}, {fault}, {ok}, {stale}, {unackedAlarm}
Intrusion Zones	Displays the name of the intrusion zone that the display is assigned to.

Add New (or edit) Intrusion Display view

This view creates a new intrusion display. A similar view edits existing intrusion displays.

Figure 293 Add New Intrusion Display view



You access this view by clicking **Controller (System) Setup** \rightarrow **Intrusion Setup** \rightarrow **Intrusion Displays**, followed by clicking the Add button ((2)).

To edit an existing intrusion display, double-click the display row in the table.

Links

A **Save** button and an **Intrusion Displays** view link are located directly above a **Display Name** property at the top of the view.

Intrusion Display properties

These properties configure the new intrusion display.

Property	Value	Description
Default Message	text	Defines what to display on the default Time screen, at the top of the display.
SmartKey Device	drop-down list (de- faults to None)	Lists the SmartKey devices that are available to be assigned to the current intrusion display.
		NOTE: This list displays as a read-only field in the Add New Intrusion Display view, but is available in the Edit In- trusion Device view.
Scroll Start Delay	minutes, seconds, and milliseconds	Sets the amount of time before a text line on the display starts scrolling. (When a text field is too long (wide) to fit completely in the display, it scrolls continuously across the screen, horizontally.)
Scroll Column Delay	minutes, seconds, and milliseconds	Specifies how fast scrolling display text moves across the display screen.
Change Delay	minutes, seconds, and milliseconds	Specifies how long to pause between messages when there is more than one message to display, and the desired time to wait between scrolling each sequential message.
Inactivity Time	minutes and seconds	Defines when to revert to the default menu and low-power mode if there is no activity at the SmartKey device for a certain amount of time.
Status Beep	true or false	Turns on (true) and off (false) a single beep at the SmartKey device when the intrusion zone status changes from armed to disarmed status.
Arming Pin Required	true or false	Requires (true) or does not require (false) a valid PIN when arming an intrusion zone.
Status Pin Required	true or false	Requires (true) or does not require (false) a valid PIN when dis- playing intrusion zone status using the SmartKey device.
Point Display	drop-down	Determines how to display any fault message on the display screen (and virtual display) when initiating an arming action us- ing the SmartKey device.No Path displays the fault message without identifying the point. For example: Supervisor Fault DetectedNormal Path displays the fault message fol- lowed by the point identity. For example: Door1.Sensor. Supervisor Fault DetectedReverse Path displays the point identity followed by the fault message. For example: Supervised Fault Detected.Sensor.Door1
Default Page	drop-down list	Assigns a default display page for the SmartKey device. This page opens at the end of the Inactivity Time and is, typically, the initial screen that a user sees at the SmartKey device. Summary sets the Summary screen as the default screen. This

Property	Value	Description
		screen displays zone identification and status information about the assigned intrusion zone as well as a menu of actions to control arming and disarming the zone. Time sets the Time screen as the default screen. This screen displays the default message as well as the current date and time. Pressing the SmartKey device F1, F2, or F3 changes the display to the Sum- mary screen.
In Alarm Beep	true or false	Turns on (true) and off (false) a single beep when there is an in- trusion zone alarm.
In Alarm Max Beep	hours, minutes, seconds	Defines how long the alarm beep lasts when In Alarm Beep is set to true.

Virtual Display tab

This tab contains a virtual SmartKey device that consists of a display and keypad with controls and indicators that function the same as the SmartKey device.

Figure 294 Virtual Display tab



Intrusion Display tab (configuration)

This tab provides access to the intrusion display properties.

Display Name Intrusio	n Display								
Intrusion Display	Activity A	ler	t Exts]	(ntrusi	on Zone	es		
Default Message	Intrusion	Ke	ypad					×	
Smart Key Device	None 🗸								
Scroll Start Delay	00000	h	00	m	01	. 250	s [()ms -	+inf]
Scroll Column Delay	00000	h	00	m	00	. 150	s [()ms -	+inf]
Change Delay	00000	h	00	m	03	. 000	s [()ms -	+inf]
Inactivity Time	00000	h	01	m	00	s [0ms ·	+ir	nf]	
Status Beep	true 🗸								
Arming Pin Required	false 🗸								
Status Pin Required	false 🗸								
Point Display	Normal P	ath	n 🗸						
Default Page	Time	~	•						
In Alarm Beep	false 🗸								
In Alarm Max Beep	00000	h	00	m	30	s [0ms -	+ir	nf]	

These properties are described in the Add New Intrusion Display view topic.

Intrusion displays Activity Alert Exts tab

This tab configures alarm class priorities and video alarms. For more information, refer to *Alarm Extensions* view in the *Controller (System) Setup - Alarm Setup* chapter.

Figure 295 Activity Alert Exts on an intrusion display

Intrusion Display	Activity Alert Exts	Intrusion Zones	
Invalid Pin Number	r Alert Alarm Class	1edium 🗸	🚯 Video Setup
No Active Schedule	Alert Alarm Class	1edium 🗸	👪 Video Setup

You access this view by clicking **Controller (System) Setup** \rightarrow **Intrusion Setup** \rightarrow **Intrusion Displays**, followed by clicking the Add button (()) or double-clicking an existing display in the table, and clicking the Activ-ity Alert Exts tab.

Alerts

Alert	Description
Invalid Pin Number Alert	Configures what to do when a person enters an invalid PIN.
No Active Schedule Alert	Configures what to do if no schedule is associated with the zone.

Alert properties

Property	Value	Description
Alarm Class	drop-down list	Sets the priority of an alarm generated by an alert.
Video Setup	link	Opens the Video Setup window. Refer to <i>Video Setup window</i> in the <i>Controller (System) Setup-Remote Devices</i> chapter.

Display Intrusion Zones tab

This tab manually associates and disassociates intrusion zones with the intrusion display using the assign mode, the assign and unassign buttons..

Figure 296 Display Intrusion Zones tab

🚰 Home	60° Monitoring	La Personnel	Reports
📑 Schedu	ıles 🛛 💄 User Ma	anagement 📭	Backups 💣 Ren
Save	🗋 Intrusion Pin	IS	
Summary	Intrusion Pin	Intrusion Zone	es
Newly As	signed		
Intrusion Z	one Name 🙏		
Lobby			
Unassigr	ned		
0			
Intrusion	Zone Name		
Lobby			
Main Office			

You access this view by clicking Controller (System) Setup→Intrusion Setup→Intrusion Displays, followed

by clicking the Add button (^(O)) or double-clicking an existing display in the table, and clicking the Intrusion Zones tab.

NOTE: This configuration of an intrusion display cannot be saved unless at least one intrusion zone is assigned to it.

Buttons

In addition to the standard buttons (Hyperlink Filter, and Export, the assign mode, assign and unassign buttons configure the association.

Columns

Column	Description
Display Name	Displays the name that identifies the intrusion zone/display association.
Zone Status	Reports the current condition of the entity as of the last refresh: {alarm}, {dis- abled}, {down}, {fault}, {ok}, {stale}, {unackedAlarm}
Time Delay	Reports the length of time the system waits after someone sets the alarm be- fore it arms the zone.
Warning Time	Reports the length of time the system sounds a warning before arming a zone.
To Display Path String	Defines the station path for this zone.
Chapter 11 Controller (System) Setup-Alarm Setup

Topics covered in this chapter

- Alarm Classes views
- ♦ Add New (or edit) Alarm Class view
- Alarm Instructions view
- ◆ Alarm Relays view (Alarm Count Relays)
- ◆ Add New (or edit) Alarm Count To Relay view
- EmailService view (Email Accounts)
- Email Recipients view
- ♦ Add New (or edit) Email Recipient view
- Alarm Consoles view
- Add (or edit) Alarm Console view, Alarm Classes tab
- ♦ Video Alarm Classes (Video Alarm Recipient) view
- Station Recipients views
- ♦ Add New (or edit) Station Recipient view
- Power alarm Setup (PlatformServices) view
- Alarm Extensions view
- Edit Alarm Extension properties (Alarm Source Info tab)

Setup views include displays that are related to configuring system components and network properties, as well as user preferences and other variables.

Figure 297 Alarm Setup menu Alarm Classes Alarm Instructions Email Accounts Email Recipients Alarm Consoles

Alarm Classes views

Alarm classes allow you to group alarms into categories and assign them alarm priority levels.

Figure 298	Alarm Classes view
------------	--------------------

📑 Schedules 🛛 🚨 User Ma	nagement 🛛 🧯 Backups	💣 Remote Devices	💣 Access Setup 🛛 💣 Intrusion Setup	💣 Alarm Setup 🛛 🖉 I	Niscellaneous	
Display Name 🙏	Priority	Total Alarm Count	Open Alarm Count	In Alarm Co	ount Unacked Alarm Count	Time Of Last Alarm
High	250	0	0	0	0	null
Low	150	0	0	0	0	null
Medium	150	16	16	15	16	29-Jun-18 3:39 PM EDT

This view opens when you click the Alarm Classes submenu, under the System Setup→Alarm Setup menu.

Buttons

In addition to the standard buttons: Column Chooser, Filter, Manage Reports, and Export these control buttons manage this view:

- O Add opens a view or window for creating a new record in the database.
- Image: Hyperlink links to the edit view or window for the selected item. It is the same as double-clicking the table row. This button is available when a single record is selected.
- 🕑 Edit Priority changes the numerical priority level of any selected alarm class.

NOTE: To configure multiple alarms with the same priority, select and edit more than one alarm class record at a time.

- Old Delete removes the selected record (row) from the database table. This button is available when you select an item.

Columns

The following are the columns in the Alarm Classes table.

Table 73	Alarm Clas	s columns

Column	Description
Display Name	Displays the name associated with the priority.
Priority	Reports the priority level assigned to the alarm class for each compo- nent state transition (from normal to Offnormal, from normal to Fault, from offnormal, fault or alert to Normal, and from normal to Alert). The lower the number, the more significant the alarm. The highest priority alarm (most significant) is number 1. The lower the number, the more significant the alarm. The highest priority alarm (most significant) is number 1.
Total Alarm Count	Displays the total number of alarms assigned to the alarm class from all sources.
Open Alarm Count	Displays the total number of current alarms. An alarm is considered to be open when it is not acknowledged and normal or not acknowl- edged and in alarm.
In Alarm Count	Displays the total number of alarm sources.
Unacked Alarm Count	Displays the total number of unacknowledged alarms.
Time of Last Alarm	Displays the time that the system generated the last alarm assigned to this alarm class.

Add New (or edit) Alarm Class view

Alarm classes manage alarm priority and which alarm requires acknowledgment. This view configures, name and save alarm classes. You link alarm classes with alarm recipients.

Figure 299 Add New Alarm Class

යි Home රට Monitoring	Personnel Reports System Setup
📑 Schedules 🛛 👗 User N	lanagement 📭 Backups 🚿 Remote Devices 🚿 Access Setup 🚿 Intrusion Setup
🔚 Save 🔯 Alarm Class	ies
Display Name Alarm Class	
Alarm Class Recipients	Relay Links
Ack Required	Normal 🗹 Offnormal 🗹 Fault 🗹 Alert
Priority	Offnormal 255 Fault 255 Normal 255 Alert 255
Total Alarm Count	0
Open Alarm Count	0
In Alarm Count	0
Unacked Alarm Count	0
Time Of Last Alarm	31 ✓ Dec ✓ 1969 07 ✓ 00 ✓ PM ✓ EST
Escalation Level1 Enabled	false 🗸
Escalation Level1 Delay	00000 h 05 m [1min - +inf]
Escalation Level2 Enabled	false 🗸
Escalation Level2 Delay	00000 h 15 m [2mins - +inf]
Escalation Level3 Enabled	false 🗸
Escalation Level3 Delay	00000 h 30 m [3mins - +inf]
<	>

To access this view, click **Controller (System) Setup** \rightarrow **Alarm Setup** and click the Add control button (\bigcirc) at the top of the Alarm Classes view or double-click an existing alarm class (to edit its properties).

You can move among tabs without losing unsaved data, however, you must click the **Save** button before leaving the view or data is lost and no new record is added to the database.

NOTE: When you create a new alarm class, you must assign at least one alarm recipient and one alarm class to it before saving it.

Links

A **Save** button and an **Alarm Classes** view links are located directly above a **Display Name** property at the top of the view. This property provides a unique name for the alarm class.

Properties

Property	Value	Description	
Ack Required	true or false	Indicates that any alarm assigned to this alarm class requires acknowledgment. Only selected component state transitions (normal to offnormal, fault or alert) require acknowledgment.	
Priority	number for each component state transition from 1- 255 (defaults to 255, which is the lowest priority)	Defines the priority level to assign to the alarm class for each component state transition (from normal to Offnormal, from normal to Fault, from normal to Alert, and from offnormal, fault and alert to Normal). The lower the number, the more significant the alarm. The highest priority alarm is number 1.	
Total Alarm Count	read-only	Reports the total number of alarms assigned to the alarm class from all sources.	
Open Alarm Count	read-only	Reports the total number of current alarms. An alarm is consid- ered to be open when it is not acknowledged and normal or not acknowledged and in alarm.	

Property	Value	Description
In Alarm Count	read-only	Reports the total number of alarm sources.
Unacked Alarm Count	read-only	Reports the total number of unacknowledged alarms.
Time of Last Alarm	read-only	Reports the time that the system generated the last alarm as- signed to this alarm class.
Escalation Level1n Enable, where n is 1, 2 or 3	true or false	Turns on (true) and off (false) escalation of the alarm at this pri- ority level.
Escalation Leveln Delay, where n is 1, 2 or 3	hours and minuets (One minute is the smallest increment you can set.)	Defines the amount of time to allow an unacknowledged alarm to remain unacknowledged before the system escalates it to the next level.

Recipients tab

This tab provides a way to manually assign or unassign alarm recipients to the alarm class.

If there is only one console recipient, the system automatically assigns it to the class or zone when creating a new alarm class or intrusion zone. If additional console recipients are available, you must manually choose and assign the console recipient using the **Recipients** tab before saving the new alarm class or intrusion zone.

Alarm recipients receive alarm notification as specified by the specific alarm recipient properties. You can add items to the currently displayed alarm class using the learn mode and the Assign and Unassign buttons.

haqara 🕋 Home 💫 Personnel 60° Monitoring 📄 Reports 🛛 💣 System Setup 🛛 🛕 Threat Levels 📰 Schedules 🔺 User Management 📭 Backups 🛷 Remote Devices 🛷 Access Setup 🛷 Intrusion Setup 💣 Alarm 🔒 Save 🛛 🙆 Alarm Classes Display Name Alarm Class Alarm Class Recipients Relay Links Newly Assigned $\overline{\nabla}$ 2 Display Name ٨ Activity Monitor Medium; High; Low 2 Unassigned 💿 🛛 🚷 **** Display Name Activity Monitor Medium; High; Low <

Figure 300 Edit Alarm Class (Recipients tab)

You access this view from the main menu by clicking **Controller (System) Setup**→**Alarm Setup**→**Alarm Classes**, double-clicking an alarm class row in the table, and clicking the Recipients tab.

Buttons

In addition to the standard buttons: Filter and Export, these buttons serve the Recipients tab:

- O Assign moves a discovered item from the Unassigned view to the Assigned view.
- Image: Hyperlink links to the edit view or window for the selected item. It is the same as double-clicking the table row. This button is available when a single record is selected.
- E 🖻 Assign Mode buttons open and close the Unassigned pane.

Columns

Column	Description
Display Name	Identifies the name of the recipient.
Alarm Classes	Lists the alarm classes.

Relay Links tab

This tab manually assigns or unassign output relays to the alarm class. You add items to the currently displayed alarm class using the learn mode and the Assign and Unassign buttons.

```
Figure 301 Relay Links tab
```



You access this view from the main menu by clicking Controller (System) Setup \rightarrow Alarm Setup \rightarrow Alarm Classes, followed by clicking the Relay Links tab.

Buttons

In addition to the standard Filter and Export buttons, these buttons serve this tab:

- Old Delete removes the selected record (row) from the database table. This button is available when you select an item.
- legional opens an selected relay link.
- 🔽 Turn Off Relays turns Off Relays manually disables an output relay.
- E Assign Mode buttons open and close the Unassigned pane.

Columns

Column	Description
Display Name	Identifies the name of the alarm class.
Alarm Count type	Identifies one of four alarm states that are counted and used to generate an action. Alarm Count Type is config- ured using the Add New Alarm Count to Relay view.
	Unacked Alarm Count reports the number of alarms that have not been acknowledged.
	Open Alarm count reports the number of alarms that have not been cleared from the console.
	In Alarm Count reports the number of alarms that have not yet returned to normal.
	Total Alarm Count reports the number of all alarms regardless of alarm state.
Alarm Count	Displays the current alarm count for alarms of the type specified in the Alarm Type Count property.
Relay Value	Displays a boolean output value (true or false) for linking into a relay control component.
Timer	Displays a value that identifies how long the Relay Out values is being held in the active (true) state.

Alarm Instructions view

This view displays a standard table-type report that provides a way to view, assign, and edit alarm instructions in the system.



🚰 Home 🛛 ốơ' Monitoring 🔒 Personnel 📄 Reports 📝 Controller	Setup 🔥 Threat Levels		niagara tramework
冒 Schedules 👗 User Management Backups 💣 Remote Devices	💣 Access Setup 🛛 💣 Intrusion Se	tup 💣 Alarm Setup	💣 Miscellaneous
		Page	1 of 4 Page Size 20
Station Name 🔥 Source Name	Display Name	Alarm Instructions	To Offnormal Text
entSecurity801	Activation Initiated Alert		

This view opens when you click the Alarm Instructions submenu, under the Controller (System) Setup→Alarm Setup menu.

Buttons

In addition to the standard buttons (Filter, Column Chooser, Manage Reports, and Export), these buttons support alarm instructions:

• 🖾 Edit Instructions opens the **Edit Instructions** window for the selected instruction row.

• 🗉 Master Alarm Instructions opens the **Master Instructions** window.

Columns

Column	Description	
Station Name	Identifies the station where the alarm point source is located.	
Source name	Identifies the name of the alarm source.	
Display Name	Reports the name that describes the event or function.	
Alarm Instructions	Displays the actual alarm instruction text.	
To Offnormal Text	Displays the text that displays when an Offnormal alarm condition occurs.	
Path	Identifies the system path to the location of the source point alarm extension.	

Edit Instructions window

To open this window, select a single row in the Alarm Instructions table and click the Edit Instructions control button.

Figure 303 Edit Instructions window

Edit Instructions	
Follow system procedure.	
	Edit
	Delete
	🔥 Move Up
	V Move Down
Ok Cancel	

Access this view by selecting **Controller Setup** \rightarrow **Alarm Setup** \rightarrow **AlarmInstructions**. Then select a row and right click Or select a row and click on edit button on left above the table

Use the Add, Edit, Delete, Move Up, and Move Down buttons to edit, arrange, and add alarm instructions to the desired alarm extensions.

Master Instructions window

Master alarm instructions are a list of saved text that you select and assign to one or more points (in other views). This window displays a list of all existing Master Alarm Instructions.

Figure 304 Master Instructions window

Master Intructions	
Verify followed procedure.	Add Control
Ok Cancel	

Use the Add, Edit, Delete, Move Up, and Move Down buttons to edit, arrange, and add alarm instructions to the desired alarm extensions.

Alarm Relays view (Alarm Count Relays)

Alarm relays provide a way for you to create a relay output action in response to a specified number of alarms. For example, you may want to have a light or a beeper turn on after three unacknowledged alarms. You would use an alarm relay for this purpose.

Figure 305	Alarm Relays vi	ew						
📰 Schedules	👗 User Management	🎼 Backups	💣 Remote Devices	💣 Access Setup	💣 Intrusion Setup	💣 Alarm Setup	💣 Miscellaneous	
Display Name A		Alar	n Count Type		larm Count	Relay V	alue	Timer
Alarm Count To Rel	ay	Oper	Alarm Count	0		false {ol	\$	2mins
Alarm Count To Rel	ay1	Total	Alarm Count	0		false {ol	\$	2mins

This view opens when you select the Alarm Count Relays submenu, under the System Setup→Alarm Setup menu.

Buttons

This view displays standard controls across the top and a table of all alarm relay configurations in the lower part.

Columns

Each entry in the Alarm Relays table represents a single alarm-count-to-relays configuration. The columns in the table include a Name, Alarm Count Type (total alarms, unacked alarms, and others), Alarm Count, Relay Value, Timer setting, and any other columns that you have added to customize the display.

Add New (or edit) Alarm Count To Relay view

This view configures alarm count to relay options.

Figure 306 Add New Alarm Count to Relay view

🔚 Save 🗸 Test 🔯 Alarm Count To Relays				
Alarm Count To Relay	Alarm Classes	Relays		
Relay Out false {	ok}			
Timer + 🗸	00000 h 02	m 00 s		
Alarm Count Type Open	Alarm Count 🛛 🗸]		

To access this view, click Controller (System) Setup→Alarm Setup→Alarm Count Relays, click on the Add

button (()) or double-click an existing count relay to open an existing alarm-count-to-relay record.

If you are editing an existing record, the alarm-count-to-relay configuration name displays in the title of the view over the **Save**, **Test**, and **Alarm Count To Relays** links.

You can move among tabs without losing unsaved data, however, you must click the **Save** button before leaving the view or data is lost and no new record is added to the database.

Links

The **Test** button causes the relay to cycle on and off. The **Alarm Count To Relays** link returns to the **Alarm Count To Relays** view.

Properties

Property	Value	Description
Relay Out	read-only	Displays the current relay output value and status.
Timer	minutes seconds milliseconds	Sets the active duration of the relay output.
Alarm Count Type	drop-down list	Defines the type of alarm states that are counted and used to generate an action. Unacked Alarm Count counts alarms that have not been acknowledged. Open Alarm count counts alarms that have not been cleared from the console. In Alarm Count counts alarms that have not yet returned to normal. Total Alarm Count counts all alarms regardless of state.

Alarm Classes tab

This tab manually assigns and unassigns alarm classes to the current alarm-count-to-relay action.

Figure 307 Add New Alarm Count To Relay view Alarm Classes tab

0

16



To access this view, click **Controller (System) Setup→Alarm Setup→Alarm Count Relays**, click on the Add button (^(O)) or double-click an existing count relay and click the Alarm Classes tab.

Buttons

Off Alarm Class

Medium

In addition to the standard buttons (Filter, and Export), these buttons support Alarm Relay Alarm Classes:

• 🔘 Hyperlink opens an existing class.

255

150

• E Assign Mode buttons open and close the Unassigned pane.

Columns

Column	Description	
Display Name	Reports the name that describes the event or function.	
Priority	Reports the priority level assigned to the alarm class for each component state transition (from normal to Offnormal, from normal to Fault, from offnormal, fault or alert to Normal, and from normal to Alert). The lower the number, the more significant the alarm. The highest priority alarm (most significant) is number 1. The lower the number, the more significant the alarm. The highest priority alarm (most significant) is number 1.	
Total Alarm Count	Displays the total number of alarms assigned to the alarm class from all sources.	
Open Alarm Count	Displays the total number of current alarms. An alarm is considered to be open when it not acknowledged and normal or not acknowledged and in alarm.	
In Alarm Count	Displays the total number of alarm sources.	
Unacked Alarm Count	Displays the total number of unacknowledged alarms.	
Time of Last Alarm	Displays the time that the system generated the last alarm assigned to this alarm class.	

Relays tab

This tab is to provides a way to manually assign or unassign relays to the current alarm-count-to-relay action.

Figure 308 Add New Alarm Count To Relays tab



To access this view, click **Controller (System) Setup** \rightarrow **Alarm Setup** \rightarrow **Alarm Count Relays**, click on the Add button (\bigcirc) or double-click an existing count relay and click the **Relays** tab.

NOTE: If you assign a relay that is already assigned, an error message appears when you save the configuration.

Buttons

This view uses standard control buttons. You add relays to the currently-displayed configuration using assign mode, the assign and unassign buttons (EE).

Column	Description	
Display Name	Reports the name of the Relay name.	
Out	Reports the slot output value.	
In10	Reports input control points value for the relay.	
In16	Reports input control points value for the relay.	
To Display Path String	Defines the station path for this zone.	

EmailService view (Email Accounts)

This view manages email accounts, which are used as alarm recipients.

Figure 309 EmailService view

Save Manage Accounts				
Email Servi	ce	Outgoing Account	Incoming Account	
Status	Status {disabled}			
Fault Cause				
Enabled	fals	e 🗸		

This view opens when you select the **Email Accounts** menu item under the **System Setup→Alarm Setup** menu.

Links

The default view displays a title over the **Save** and **Manage Accounts** buttons. If no email accounts are set up, the view contains only a single **Email Service** tab. Use the **Manage Accounts** button to add and remove email accounts. A tab appears for each email account you add to the view.

Properties

Property	Value	Description
Status	read-only	Reports the condition of the entity or process at last polling.
		<pre>{ok} indicates that the entity is licensed and polling successfully.</pre>
		{down} indicates that the last poll was unsuccessful, perhaps because of an incorrect property.
		{disabled} indicates that the Enable property is set to false.
		{fault} indicates another problem.
		Depending on conditions, multiple status flags may be set in- cluding {fault} and {disabled}, combined with {down}, {alarm}, {stale}, and {unackedAlarm}.
Fault Cause	read-only	Reports the reason why a network, component, or extension is in fault. Fault Cause is blank unless a fault exists.
Enabled	true or false	Turns the feature on (true) and off (false).

Outgoing Account tab

This tab displays all the properties for the outgoing account associated with the EmailService.

Figure 310	Outgoing Account	properties
------------	------------------	------------

🔒 Save 💣 Manage A	ccounts
Email Service Outgoing	Account Incoming Account
Hostname	
Port	25 [-1 - +inf]
Account	
Password	•••••
Pollrate	00000 h 01 m 00 s [1sec - +inf]
Enabled	false 🗸
Status	{disabled}
Last Poll Success	31 ℃ - Dec ℃ - 1969 07 ℃ : 00 ℃ PM ℃ EST
Last Poll Failure	31 - Dec - 1969 07 - 00 - PM - EST
Last Poll Failure Cause	
Debug	false 🗸
Use Ssl	false 🗸
Use Start Tis	false 🗸
Transport	Smtp V
Connection Timeout	+ ✓ 00000 h 00 m 10 s
Use Authentication	false 🗸
Reply To	
Persistent	false 🗸
Persistence Directory	file:^email
Allow Disabled Queueing	false V
Queue Size	
Max Queue Size	100 [1 - +inf]
Number Sent	0
Max Sendable Per Day	100 [1 - +inf]
Number Discarded	0
Last Discard	31 V - Dec V - 1969 07 V : 00 V PM V EST
Last Discard Cause	

To access this view, click **Controller (System) Setup**→**Alarm Setup**→**Email Accounts**, followed by clicking the **Outgoing Account** tab.

Properties

In addition to the standard properties (Enabled and Status), these properties support an outgoing account.

Property	Value	Description
Hostname	text	Identifies the name of the mail server. For example, mail.acme. com could be a Hostname.
Port	number from -1 to infinity; defaults to 25	Identifies the port number associated with the email account. Typically, this value is "25", however, if you set it to "-1" the system searches for and uses a valid port.
Account	text	Identifies the name of the distinct account that is authorized for access to the Hostname mail server. For example, if you are using an email account named "myemail@acme.com" on the host described above, the account name is simply "mye- mail". The Hostname in this case could be "mail.acme.com".
Password	text and special characters	Defines the login credential for the Account.
Pollrate	hours minutes seconds	Specifies how often the account executes a send action. In- creasing the pollrate value increases the time between polls. During the time between polls, emails may be queued (up to the max queue size) until the next poll time. At the next poll time all queued emails are sent.

Property	Value	Description
Last Poll Success	read-only	Indicates the time (in hours and minutes) of the last polling success.
Last Poll Failure	read-only	Indicates the time (in hours and minutes) of the last polling failure
Last Poll Failure Cause	read-only	Provides an error message to indicate a reason for polling failure.
Debug	true or false (default)	Turns Debug mode on and off. When on, a station's standard output view (Workbench Platform → Application Director) displays debug information when the station tries to send or receive email. This can be used to troubleshoot accounts and faults.
Use Ssl	true or false (default)	Enables (true) and disables (false) Ssl (Secure Sockets Layer) for communication with a host email server that requires it.
Use Start Tls	true or false (default)	Enables (true) and disables (false) Tls (Transport Layer Security) for a host email server that requires it.
Transport	drop-down list	Selects from available options for email communication. The default setting and most common is SMTP.
Connection Timeout	hours minutes seconds	Controls how long the station waits for a response from the mail server before generating an exception and setting the fault cause. It waits for the next scheduled poll and attempts to contact the mail server again at that frequency.
User Authentication	true or false (default)	Specifies that login credentials are required for sending any email. Sometimes authentication is not required for emails routed to recipients in the same domain. Setting this property to true makes the login credentials mandatory for any email
Reply To	text	Specifies the contents of the From : property in the email that is sent.
Persistent, Persis- tence Directory	true or false (default)	true saves each queued email as an xml file in the designated persistence directory. Once the emails are actually sent, the xml files are deleted from the directory. The purpose of this is to keep a copy of the emails in the queue, which would be lost if the station was stopped prior to the emails being sent. When the station restarts, emails are loaded from the "Persistent Di- rectory" back to the queue.
Allow Disabled Queuing	true or false (default)	Emails reside in a queue while they wait to be sent. Assuming that the Account Status is {ok}, typically, the length of time an email is in the queue depends on the Pollrate setting. Sev- eral properties relate to the queue and email management. A setting of true) allows emails to reside in the queue even when the Enabled status is set to false.
Queue Size	read-only	Indicates how many emails are currently in the queue (waiting to be sent).
Max Queue Size	number from 1 to infinity; default = 100	Specifies how many emails are allowed to occupy the queue.
Number Sent	read-only	Displays the number of emails that have been sent.

Property	Value	Description
Max Sendable Per Day	number	Specifies how many emails may be sent in one day.
Number Discarded	read-only	Indicates how many emails did not successfully send.
Last Discard	read-only	Indicates when the last email did failed to send.
Last Discard Cause	read-only	Displays an error message that indicates the cause of the last email send failure.

Incoming Account tab

This tab displays all the properties for the incoming account associated with the account.

Figure 311 Incoming Account tab

Save Manage Accounts			
Email Service Outgo	ing Account Incoming Account		
Hostname			
Port	110 [-1 - +inf]		
Account			
Password	•••••		
Pollrate	00000 h 01 m 00 s [1sec - +inf]		
Enabled	true 🗸		
Status	{disabled}		
Last Poll Success	31 ℃ - Dec ℃ - 1969 07 ℃ : 00 ℃ PM ℃ EST		
Last Poll Failure	31 - Dec - 1969 07 - 00 - PM - EST		
Last Poll Failure Cause			
Debug	false 🗸		
Use Ssl	false 🗸		
Use Start Tis	false 🗸		
Store	Pop3 V		
Delivery Policy	Delete		
Email To Read	Unread Email V		

To access this view, click **Controller (System) Setup→Alarm Setup→Email Accounts**, followed by clicking the Incoming Account tab.

CAUTION: With the default configuration (refer to **Delivery Policy** property, below) the incoming email account deletes all emails from the mail server when it checks the account to retrieve new email, even if the emails are already marked as read by another email client. If permanent retention of the emails is required then do one of the following: (1) change the Delivery Policy setting from Delete to Mark As Read or Mark as Unread OR (2) configure a second service account which the mail server forwards emails to and configure the station's incoming account to check the second service account.

Properties

In addition to the standard properties (Enabled and Status), these properties support an incoming account.

Property	Value	Description
Hostname	text	Identifies the name of the mail server. For example, mail.acme. com could be a Hostname.
Port	number from -1 to infinity; defaults to 110	Identifies the port associated with the email account. Typically, this number is 110, however, to set -1 the system searches for and uses a valid port.
Account	text	Identifies the name of the distinct account that is authorized for access to the Hostname mail server. For example, if you are using an email account named controls@acme.com on

Property	Value	Description
		the host described above, the account name is controls. The Hostname in this case could be mail.acme.com.
Password	text	This is the login credential for the account specified in the pre- vious property.
Pollrate	hours minutes seconds	Specifies how often the account connects to the mail server and checks or unread mail messages. Increasing this value in- creases the time between polls.
Last Poll Success	read-only hours and minutes	Displays the time (of the last polling success.
Last Poll Failure	read-only hours and minutes	Displays the time (of the last polling failure.
Last Poll Failure Cause	read-only	Indicates a reason for polling failure.
Debug	true or false (default)	Turns Debug mode on and off. When on, a station's standard output view (Workbench Platform→Application Director) displays debug information when the station tries to send or receive email. This can be used to troubleshoot accounts and faults.
Use Ssl	true or false (default)	Enables (true) and disables (false) Ssl (Secure Sockets Layer) for communication with a host email server that requires it.
Use Start Tls	true or false (default)	Enables (true) and disables (false) Tls (Transport Layer Security) for a host email server that requires it.
Store	drop-down list: Pop 3, Imap	Selects the mail retrieval standard. Choose the option that is in use by your host mail server.
Delivery Policy	drop-down list: De- lete, Mark as Read, Mark as Unread	Selects how the incoming email account handles incoming emails at the mail server.
		Delete removes all emails from the mail server when it checks the account to retrieve new email, even if the emails are al- ready marked as read by another email client
		Mark As Read marks all emails as read on the mail server when it checks the account to retrieve new email.
		Mark As Unread marks all emails as unread on the mail server when it checks the account to retrieve new email.

Email Recipients view

The email recipient is like other alarm recipients except that the alarm may be formatted into an email message and delivered to another destination.



Schedules	👗 User Management 🛛 🚯 Backı	ips 💣 Remote Devices	💣 Access Setup	💣 Intrusion Setup	Alarm Setup	Miscellaneous
Display Name 💙					Alarm Classes	

This view opens when you click the **Email Recipients** submenu under the **System Setup→Alarm Setup** menu.

The **Email Recipients** view displays a list of all existing email recipients.

Buttons

This view has standard controls across the top and a table of all existing email recipients in the lower part. Each existing recipient is listed in the table with a Name and To column, in addition to any other columns that you have added to customize the display.

Columns

Column	Description
Display Name	Displays the name of the email.
То	Indicates to whom the email was sent.
Alarm Classes	Reports the alarm class.

Add New (or edit) Email Recipient view

This view provides the properties to configure a new or existing email recipient record by using email routing parameters and assigning alarm classes.

Figure 313 Add New Email Recipient view

🔚 Save 🔯 Email Recipients				
Display Name	Email Recipient			
Email Recipie	nt Alarm Classes			
Time Range				
Start Time	12 V: 00 V: 00 V AM V EDT			
End Time	12 V: 00 V: 00 V AM V EDT			
Days Of Week	🗹 Sun 🗹 Mon 🗹 Tue 🗹 Wed 🗹 Thu 🗹 Fri 🗹 Sat			
Transitions	🗹 Normal 🗹 Offnormal 🗹 Fault 🗹 Alert			
Route Acks	true 🗸			
То				
Cc				
BCC				
Language				
Email Account	None 🗸			
Subject	Niagara Alarm From %alarmData.sourceNan			
Body	Source: %alarmData.sourceName% Timestamp: %timestamp% State: %sourceState% / % ackState% Priority: %priority% Alarm Class: %alarmClass% Text: %alarmData.msgText%			

To access this view, click **Controller (System) Setup** \rightarrow **Alarm Setup** \rightarrow **Email Recipients**, followed by clicking the Add button (\bigcirc) to create a new recipient, or double-clicking the recipient row in the table to edit an existing recipient.

Links

A **Save** button and an **Email Recipients** view link are located directly above a **Display Name** property at the top of the view.

You can move between tabs without losing unsaved data, however, you must click the **Save** button before leaving the view or data is lost and no new schedule is added.

Properties

Property	Value	Description
Time Range	Two time proper- ties: hours minutes seconds	Set a limited period of time during a day for the collection of alarms. Start Time defines when to begin alarm collection. End Time defines when to end alarm collection.
Start Time	Check Boxes	
End Time	Check Boxes	
Days Of Week	check boxes	Select specific days to collect alarms.
Transitions	Four check boxes	Select the specific alarm transitions to include or exclude as alarms to send to the alarm recipient. Only selected transitions are sent – even though all of the alarms are still saved into the alarm history.
Route Acks	true (default) or false	true routes Acks are to this recipient; false, routes only alarms (not Acks) to the recipient.
То, Сс, Всс	text	Define to whom to send the message.
Language	text	Identifies the ISO 639 language code for the language associ- ated with the line printer. This is a two letter code (lower-case preferred). Refer to the following link for the complete list of codes: http://www.loc.gov/standards/iso639-2/langcodes. html
Email Account	drop-down list	Identifies the email account to use.
Subject	text	Defines the subject line of the email.
Body	additional properties	Refer to Email body, page 341

Email body

This property has the following editable default additional properties.

Property	Value	Description
Source	%alarmData.sour- ceName%	Sends the source name of the alarm to print on the first line.
Timestamp	%timestamp%	Sends the timestamp of the alarm to print on the second line.
State	%sourceState% / %ackState%	Sends the alarm state and the acknowledged state to print on the third line.
Priority	%priority%	Sends the alarm priority to print on the fourth line.
Alarm Class	%alarmClass%	Sends the alarm class to print on the fifth line.
Text	%alarmData. msgText%	Sends the alarm message to print on the sixth line.

Alarm Classes tab

This tab provides a way to manually assign or unassign alarm classes to the current Email Recipient.





To access this view, click **Controller (System) Setup→Alarm Setup→Email Recipients**, and click the Alarm Classes tab.

Buttons

This view uses standard control buttons.

You can add items to the currently displayed configuration using the learn mode, the Assign and Unassign buttons (

Columns

Column	Description
Display Name	Reports the name that describes the event or function.
Priority	Reports the priority level assigned to the alarm class for each component state transition (from normal to Offnormal, from normal to Fault, from offnormal, fault or alert to Normal, and from normal to Alert). The lower the number, the more significant the alarm. The highest priority alarm (most significant) is number 1. The lower the number, the more significant the alarm. The highest priority alarm. The highest priority alarm (most significant) is number 1. The lower the number, the more significant the alarm.
Total Alarm Count	Displays the total number of alarms assigned to the alarm class from all sources.
Open Alarm Count	Displays the total number of current alarms. An alarm is considered to be open when it is not acknowledged and normal or not acknowledged and in alarm.
In Alarm Count	Displays the total number of alarm sources.
Unacked Alarm Count	Displays the total number of unacknowledged alarms.
Time of Last Alarm	Displays the time that the system generated the last alarm assigned to this alarm class.

Alarm Consoles view

Alarm consoles display information about all open alarms that are associated with (or routed to) the console. You can create one or more alarm consoles, which allows you to group alarms into categories and assign them priority levels. Each must have one or more alarm classes assigned to it.

Alarm consoles are sometimes called Alarm Console Recipients. The term "recipient" indicates that an **Alarm Consoles** view is receiving the alarms, as opposed to another type of recipient, such as an email recipient or station recipient.

Figure 315 Alarm Consoles view

Display Name 🙏	Alarm Classes
ConsoleRecipient	Medium; High; Low; Intrusion Zone; Alarm Class; Alarm Class1

You open this view by clicking on the **Console List** button in the top right corner of the **Console Recipi**ent view (**Monitoring**) or by selecting the **Alarm Consoles** submenu, under the **System Setup→Alarm Setup** menu.

Buttons

In addition to the standard control buttons (Delete, Rename, Column chooser, Manage Reports, and Export), this view provides control buttons for these functions:

- O Add opens a view or window for creating a new record in the database.
- Image: Hyperlink links to the edit view or window for the selected item. It is the same as double-clicking the table row. This button is available when a single record is selected.
- Alarm Console opens the Alarm Console view.

Columns

Column	Description
Display Name	The name for the alarm console.
Alarm Classes	Lists the alarm classes to appear in this alarm console. Classes are separated by semi-colons (;).

Add (or edit) Alarm Console view, Alarm Classes tab

This tab associates an alarm class with a console recipient.

Figure 316 Console Recipients Alarm Classes tab

🔒 Save 🗋 Con	sole Recipient	ts					
Display Name Cons	ole Recipient						
Alarm Classes						8040	
Newly Assigned							
0							
Display Name ٨	Priority	Total Alarm Count	Open Alarm Count	In Alarm Count	Unacked Alarm Count	t Time Of Last Alarm	
Arm/Disarm	255	0	0	0	0	null	
Unassigned							
0							
Display Name	Priority	Total Alarm Count	Open Alarm Count	In Alarm Count	Unacked Alarm Count	Time Of Last Alarm	
Arm/Disarm	255	0	0	0	0	null	
High	250	0	0	0	0	null	
Low	150	0	0	0	0	null	
Medium	150	24	6	6	3	04-Aug-18 6:56 AM EDT	~
<						>	

This tab opens when you click **Controller (System) Setup** \rightarrow **Alarm Setup** \rightarrow **Alarm Consoles**, and click the plus button (\bigcirc).

Buttons

In addition to the standard buttons (Delete, Filter and Export) these buttons support console recipient alarm classes:

- O Assign moves a discovered item from the Unassigned view to the Assigned view.
- All Hyperlink links to the edit view or window for the selected item. It is the same as double-clicking the table row. This button is available when a single record is selected.
- E Assign Mode buttons open and close the Unassigned pane.

Columns

Column	Description
Display Name	Reports the name that describes the event or function.
Priority	Reports the priority level assigned to the alarm class for each component state transition (from normal to Offnormal, from normal to Fault, from offnormal, fault or alert to Nor-mal, and from normal to Alert). The lower the number, the more significant the alarm. The highest priority alarm (most significant) is number 1. The lower the number, the more significant the alarm. The alarm. The highest priority alarm (most significant) is number 1. The lower the number 1.
Total Alarm Count	Displays the total number of alarms assigned to the alarm class from all sources.
Open Alarm Count	Displays the total number of current alarms. An alarm is considered to be open when it is not acknowledged and normal or not acknowledged and in alarm.
In Alarm Count	Displays the total number of alarm sources.

Column	Description
Unacked Alarm Count	Displays the total number of unacknowledged alarms.
Time of Last Alarm	Displays the time that the system generated the last alarm assigned to this alarm class.

Video Alarm Classes (Video Alarm Recipient) view

The Video Alarm Recipient is a special class that is used to specify properties related to routing alarms to a video surveillance system. The video alarm recipient is similar to other alarm recipients except that the alarm turns on video monitoring.

Figure 317	Video Alarm Recipient view
------------	----------------------------

🔚 Save 🔯 Alarm Setup						
Video Alarm Recipie	ent Alarm Classes					
Time Range Start Time	12 V: 00 V: 00 V AM V EDT					
End Time						
Transitions	Mormal Offnormal Fault Alert					
Route Acks	true V					
Status Fault Cauce	{OK}					
Default Time Range	Time Range 🗸 ? to ? 🔞					
Preset On Normal	true 🗸					

This view opens when you click the Video Alarm Classes submenu under the System Setup→Alarm Setup menu.

For related video information refer to the "Video Installation" chapter in the Niagara Enterprise Security Installation and Maintenance Guide.

Properties

In addition to the standard properties (Status and Fault Cause), these properties support an video alarm recipients.

Property	Value	Description
Time Range	Start Time, End Time	Specifies when the Video Alarm Recipient is active in terms of time and day.
Start Time	Check boxes	
End Time	Check boxes	
Days of Week	check boxes	Defines the days of the week when the Video Alarm Recipient is active.
Transitions	check boxes	Provides option boxes to allow selection of specific alarm tran- sitions to display. Only those transitions that are selected will be displayed - even though the alarms are still saved into the alarm history.
Route Acks	true or false (default)	true routes alarm acknowledgments (Acks) to this recipient; false does not route Acks to the recipient.

Property	Value	Description
Default Time Range	drop-down list and additional properties	Suggests a variety of pre-defined time ranges.
Preset on Normal	true (default) or false	true moves the camera to a preset position when a video alarm returns to normal.

Alarm Classes tab

This tab provides a way to manually assign or unassign alarm classes to the recipient. Recipients receive alarm notification as specified by the specific alarm classes assigned to them.

Figure 318 Video Alarm Recipient Alarm Classes tab

🔚 Save 🔯 Alarm Setup									
Video Alarm Recipient Alarm Classes									
Newly Assigned									
9 🙆 🦉 📮									
Display Name 🔥	Priority	Total Alarm Count							
Alarm Class	255	0							
Unassigned									
0 🙆 🦻 📮									
Display Name	Priority	Total Alarm Count							
Alarm Class	255	0							

To access this view, click **Controller (System) Setup→Alarm Setup→Video Alarm Classes**, and click the **Alarm Classes** tab.

Buttons

This view uses standard control buttons.

You can add items to the currently displayed configuration using the learn mode, the Assign and Unassign buttons (

Columns

Column	Description
Display Name	Reports the name that describes the event or function.
Priority	Reports the priority level assigned to the alarm class for each component state transition (from normal to Offnormal, from normal to Fault, from offnormal, fault or alert to Normal, and from normal to Alert). The lower the number, the more significant the alarm. The highest priority alarm (most significant) is number 1. The lower the number, the more significant the alarm. The alarm. The highest priority alarm (most significant) is number 1.
Total Alarm Count	Displays the total number of alarms assigned to the alarm class from all sources.
Open Alarm Count	Displays the total number of current alarms. An alarm is considered to be open when it is not acknowledged and normal or not acknowledged and in alarm.
In Alarm Count	Displays the total number of alarm sources.

Column	Description
Unacked Alarm Count	Displays the total number of unacknowledged alarms.
Time of Last Alarm	Displays the time that the system generated the last alarm assigned to this alarm class.

Station Recipients views

The station recipient is like other alarm recipients (such as the email recipient) except that the alarm is routed directly to another station.

Figure 319 Station Recipients view

📑 Schedules	👗 User Management	🚺 Backups	Remote Devices	Access Setup	Intrusion Setup	Alarm Setup	Miscellaneous
0							
Display Name 🙏			Rem	note Station			Alarm Classes

This view opens when you click the **Station Recipients** submenu under the **System Setup** →**Alarm Setup** menu. The **Station Recipients** view displays a list of all existing station recipients. Each existing recipient is listed in the table with a Name and a Remote Station column, in addition to any other columns that you have added to customize the display.

Buttons

In addition to the standard buttons (Delete, Rename, Filter, Manage Reports, and Export), these buttons support station recipients:

- Old Creates a new station recipient record in the database.
- legent Hyperlink opens an selected recipient.
- DD Assign Mode buttons open and close the Unassigned pane.

Add New (or edit) Station Recipient view

This view allows you to create and configure a new station recipient by choosing a station to route alarms to and assigning alarm classes.

Figure 320 Add New Station Recipient view

Save 🔯 Station Recipients				
Display Name Station Recipient ×				
Station Recipient Alarm Classes				
Remote Station	Select Station]		

To access this view, click Controller (System) Setup→Alarm Setup→Station Recipients, followed by click-

ing the Add control button () at the top of the view, or by double-clicking an entry in the table (to edit the recipient).

A Save button and an Station Recipients link are located directly above a Display Name text property at the top of the view. You can move between tabs without losing unsaved data, however, you must click the Save button before leaving the view or data is lost and no new schedule is added.

The **Remote Station** property specifies the station to route alarms to. Stations that are available on the system network are available in the option list.

Alarm Classes tab

This tab manually assigns and unassigns alarm classes to a station recipient. Recipients receive alarm notification as specified by the specific alarm classes assigned to them.

Figure 321 Add New Station Recipient Alarm Classes tab

Save Station Recipients				
Display Name Stati	on Recipient			
Station Recipient	Alarm Classes			
Newly Assigned				
9 🔞 💆				
Display Name 🙏	Priority	Total Alarm Count		
Alarm Class	255	0		
<				
Unassigned				
Display Name	Priority	Total Alarm Count		
Alarm Class	255	0		
Alarm Class1	255	0		

To access this view, click **Controller (System) Setup** → **Alarm Setup** → **Station Recipients**, followed by double-clicking a recipient row in the table and clicking the Alarm Classes tab.

NOTE: You cannot save an Alarm Console Recipient, Station Recipient, or Email Recipient unless that recipient has at least one alarm class or intrusion zone assigned to it.

Buttons

This view uses standard control buttons.

You can add items to the currently displayed configuration using the learn mode, the Assign and Unassign buttons (

Columns

Column	Description
Display Name	Reports the name that describes the event or function.
Priority	Reports the priority level assigned to the alarm class for each component state transition (from normal to <code>Offnormal</code> , from normal to <code>Fault</code> , from offnormal, fault or alert to <code>Normal</code> , and from normal to <code>Alert</code>). The lower the number, the more significant the alarm. The highest priority alarm (most significant) is number 1. The lower the number, the more significant the alarm. The highest priority alarm (most significant) is number 1.
Total Alarm Count	Displays the total number of alarms assigned to the alarm class from all sources.
Open Alarm Count	Displays the total number of current alarms. An alarm is considered to be open when it is not acknowledged and normal or not acknowledged and in alarm.
In Alarm Count	Displays the total number of alarm sources.

Column	Description
Unacked Alarm Count	Displays the total number of unacknowledged alarms.
Time of Last Alarm	Displays the time that the system generated the last alarm assigned to this alarm class.

Power alarm Setup (PlatformServices) view

This view configures the way your system monitors power sources for the associated controller.

This view opens from the main menu when you select **Controller Setup→Alarm Setup→Power Alarm Setup**.

Each possible power source is listed on a single tab with a link that toggles to display the properties for each power source.

Links

The view title displays in the top left corner above the **Save** button. Click the >> icons to expand and display the properties under each **Platform Alarm Support** type heading.

Property	Value	Description
Alarm Class	drop-down list	Defines alarm routing options and priorities. Typical alarm classes include High, Medium and Low. An alarm class of Low might send an email message, while an alarm class of High might trigger a text message to the department manager.
Source Name	BQL script	Reports the name of the alarm source. If you use the default script setting (%parent.displayName%), the source name prop- erty shows the display name of the alarm extension parent. You can edit this script, or type in a literal string, to display here.
Alert Text	text	Defines a description that is associated with an alert.
To Fault Text	text	Defines the text to display when the alarm source transitions to a fault state.
To Offnormal Text	text	Defines the text to display when the alarm source transitions to an offnormal state.
To Normal Text	text	Defines the text to display when the alarm source transitions to a normal state.
Hyperlink Ord	ORD	Defines an ORD, a BQL query or a path to associate with an alarm status on the point you are configuring. When an alarm is reported in the console, the Hyperlink button activates using this path. Click the folder icon to browse to the file to link to. Click the arrow icon to the right of the folder icon to test the ORD.
Sound File	file path	Defines the path to a sound file that executes when the current point is in an alarm state. In Wb Web Profile mode (non Hx mode) you can browse to the file, and click an arrow icon to the right of the folder icon to test the path.

Property	Value	Description
Alarm Icon	file path	Defines the path to a graphic file to add to the display in the Timestamp column of the alarm table in the Console Recipient view.
Meta Data	read-only	Opens a window for managing facet keys and values.

Alarm Extensions view

This view displays a table listing of all the existing alarm extensions, including their Station Name, Source Name, Display name, Alarm Class, Alarm State, and Status. You can also edit assigned alarm classes directly in this view.

Figure 322 Alarm Source Exts view with Edit Alarm Class window

A B A				Page	1 of 4	Page Size 20
Station Name ∧	Source Name	Display Name	Alarm Class	Alarm State	Status	
entSecurity801		Activation Initiated Alert	Medium	NULL	NULL	

This view displays from the main menu when you select System Setup→Alarm Setup→Alarm Extensions.

The Edit Alarm Class control button (^[C]) at the top of the view opens the Edit Alarm Class window. Use the drop-down list in this window to change the alarm class assigned to all selected alarm source extension (s).

Columns

Column	Description
Station Name	Reports the name of the station under the control of which the event occurred.
Source Name	Reports the component that transitioned from normal to offnormal, fault, or alert. If defining search criteria, you can use wild cards here.
Display Name	Reports the name that describes the event or function.
Alarm Class	Reports the Display Name of the alarm class associated with the point, recipient or other component.
Alarm State	Reports the current state of the alarm: normal, acknowledged, open (unacknowledged), or cleared.
Status	Reports the current condition of the entity as of the last refresh: {alarm}, {disabled}, {down}, {fault}, {ok}, {stale}, {unackedAlarm}

Edit Alarm Extension properties (Alarm Source Info tab)

Each alarm source extension has a set of properties that specify the alarming conditions and certain routing options.

Figure 323 Alarm extension properties

🔚 Save 🔯 Threat Level Setup 🔯 Alarm Source Exts				
Alarm Source Info				
Alarm Class	Medium			
Source Name	Test ×			
To Fault Text				
To Offnormal Text				
To Normal Text				
Hyperlink Ord	null			
Sound File	null			
Alarm Icon	null			
Alarm Instructions				
Meta Data	Edit [No configured facets]			

This view opens from the main menu when you select System Setup→Alarm Setup→Alarm Extensions,

and double-click on a row in the table or select the row and click the Hyperlink button ().

The view displays all the properties associated with the selected alarm source extension. Some of the properties are editable from this view, while others are read-only.

NOTE: Available alarm properties may differ, depending on the type of point to which the alarm extension is attached.

Property	Value	Description
Alarm Class	drop-down list	Defines alarm routing options and priorities. Typical alarm classes include High, Medium and Low. An alarm class of Low might send an email message, while an alarm class of High might trigger a text message to the department manager.
Source Name	BQL script defaults to %parent.dis- playName%	Displays the name of the alarm source. If you use the default, the this property shows the display name of the alarm exten- sion parent. You can edit this script or type in a literal string to display.
To Fault Text	text	Defines the text to display when the alarm source transitions to a fault state.
To Offnormal Text	text	Defines the text to display when the alarm source transitions to an offnormal state.
To Normal Text	text	Defines the text to display when the alarm source transitions to a normal state.
Hyperlink Ord	ORD	Defines an ORD, a BQL query or a path to associate with an alarm status on the point you are configuring. When an alarm is reported in the console, the Hyperlink button activates using this path. Click the folder icon to browse to the file to link to. Click the arrow icon to the right of the folder icon to test the ORD.
Sound File	file path	Defines the path to a sound file that executes when the current point is in an alarm state. In Wb Web Profile mode (non Hx mode) you can browse to the file, and click an arrow icon to the right of the folder icon to test the path.

Properties

Property	Value	Description
Alarm Icon	file path	Defines the path to a graphic file to add to the display in the Timestamp column of the alarm table in the Console Recipient view.
Alarm Instructions	Edit button	Creates instructions that appear in the Alarm Record window regarding how to handle the alarm. This is a way to provide information that may be important of helpful to the person monitoring alarms.
Meta Data	read-only	Displays additional information about the alarm source when available.

Chapter 12 Controller (System) Setup-Miscellaneous

Topics covered in this chapter

- ♦ Keypad Formats (Keypad Configuration) view
- ◆ Add New (or edit) Keypad Format view
- Pdf Styles view
- ♦ Add New (or edit) PDF Styles view
- License Manager view
- Network TCP/IP Settings view
- Maintenance view (Server)
- Configure Database view, Database Services tab
- Web Service view
- ♦ Job Service view
- System Date Time Editor view
- End User Licenses Agreement view
- Third Party Licenses view
- Controller TimeServers Settings
- Supervisor TimeServers Settings

Miscellaneous views are listed under the Miscellaneous menu. These views configure formats, PDF styles, TCP/IP settings, graphics, navigation groups, and a variety of views. In addition, they explain how to manage licenses and set the system date and time.

Figure 324 Miscellaneous menu



Keypad Formats (Keypad Configuration) view

Keypads control building access at points of entry. One or more keypads may be associated with the system. The Keypad Formats view sets up each keypad.

Figure 325 Keypad Formats view

📕 Schedules 👗 User Management 📭 Backups 🚿 Remote Devices	💣 Access Setup 💣 Intrusion Setup 💣 Alarm Setup	Miscellaneous
Keypad Format Name 🙏	Keypad Data Shift	Keypad Data Mask
Default	1	15
GE T-525/Essex KTP	0	15
HID 5355	4	15

To access this view, select **Keypad Configuration** from the **Controller (System) Setup→Miscellaneous** menu.

Buttons

This view consists of a tabular listing of the existing keypad formats. In addition to the standard control but-

tons, the Add From Default Keypad Formats control button (¹⁶) opens a window for choosing one or more default keypad formats to add.

Figure 326 Add Default Keypad Formats window

Add Default Keypad Formats
✓ Default ✓ GE T-525/Essex KTP
Ok Cancel

Any default formats that are not already in the list appear in the window and are available for adding by selecting the appropriate check box. You might use this feature if you have deleted a format and want it back or if you have upgraded your system and do not already have these formats available.

Table 75Keypad Format columns

Column	Description
Keypad Format Name	Describes the keypad format. Double-click on the format record en- try opens the keypad format in the Edit Keypad Format view.
Keypad Data Shift	Specifies the actual keypad format.
Keypad Data Mask	Lists the bit length of the keypad data mask.

Add New (or edit) Keypad Format view

This view allows you to add new keypad formats. Keypad configuration is necessary to accommodate the various keypad manufacturers data transfer specifications.

Figure 327 Add New Keypad Format view

🔒 Save 🔯 Keypad Formats				
Summary	Keypad F	Format		
Keypad Format Name				
Keypad Data	a Shift	0]
Keypad Data	a Mask	0]

To open this view, click **Controller (System) Setup** \rightarrow **Miscellaneous** \rightarrow **Keypad Configuration**, and click the Add button ((\bigcirc)) or double-click the keypad format in the table (to edit an existing format).

The view title displays in the top left corner above the Save and Keypad Formats links.

NOTE: Refer to the keypad manufacturer for details on your keypad data shift and data mask parameters.

Property	Value	Description
Keypad Format Name	text	Provides a unique name for the format.
Keypad Data Shift	number	Specifies the actual keypad format.
Keypad Data Mask	number	Lists the bit length of the keypad data mask.

Summary tab

This tab displays a read-only list of information about a single keypad format. It opens any time you save changes made in the Edit Keypad Format view. Display properties include: Type (Keypad Format), Format Name, Data Shift, Data Mask.

Pdf Styles view

A Pdf Style is a set of properties that you can configure and save to apply (like a template) to any file that you export in the PDF format.

Figure 328 Pdf Styles view

Display Name ∧	Image	Title	To Display Path String
General	module://icons/x16/blank.png	bold italic 20.0pt Arial	/Services/EnterpriseSecurityService/pdfStyles/General

This view opens when you click the **Pdf Styles** menu item, under the **Controller (System) Setup→Miscellaneous** menu.

Buttons

The view displays standard controls across the top and a table of all existing styles in the lower part. Below the control buttons the view lists all the existing Pdf styles that are available.

Columns

Column	Description
Display Name	Shows the style display name.
lmage	Shows the location and name of the graphic used with the style.
Title	Displays the style title.
To Display Path String	Displays the path to the style definition location.

Add New (or edit) PDF Styles view

This view configures, names, and saves a new Pdf Styles template.

Figure 329 Add Pdf Style view



To access this view you click **Controller (System) Setup→Miscellaneous→PDF Styles**, followed by clicking the Add control button (ⓐ) at the top of the Pdf Styles view or you double-click an existing Pdf style record in the Pdf Styles view (to edit the record).

Links

A **Save** link and a **Pdf Styles** link are located directly above the **Display Name** property at the top of the view. Type a name for your PDF style in this property and configure the properties in the **PDF style** tab, as desired.

Property	Value	Description
Image	File Chooser	Use this property to browse to and assign a graphic to display across the top of the exported Pdf. The image must be located in the station database.
Title	multiple properties	Sets up the display colors and font style for the exported report title.
Clock	multiple properties	Sets up display colors and font style for the creation time of the exported report.
Page Width	inches	Specifies the width of the PDF page.
Page Height	inches	Specifies the height of the PDF page.

Properties

License Manager view

This view manages the licenses required to use the system.

Figure 330 License Manger view

Cu	Current License and Certificate Files				
	ConserveIt.license (ConserveIt 4.6 - expires 2022-01-01)				
	Honeywell.license (Honeywell 4.6 - expires 2022-01-01)				
	Niagara.license (Tridium 4.6 - expires 2022-01-01)				
	ConserveIt.certificate (ConserveIt - never expires)				
	Honeywell.certificate (Honeywell - never expires)				
	Tridium.certificate (Tridium - never expires)				
	Delete				
Upload New license, certificate or lar File					
File	Browse				
Re	start station after upload true 🗸				

This view opens when you select **Controller (System) Setup→Miscellaneous→License Manager** from the main menu.

Upload

License view sections

Section	Description
Current License and Certificate files	Lists your current licenses and certificate files. Click on the hyperlinked file name to open and view the license file in the browser.
Upload New license, certificate or lar File	Displays a property for browsing to and uploading a new license or certificate file.

Upload New license, certificate or lar File properties

Property	Value	Description
File	Browse file chooser	Selects a file in the local station.
Restart station after upload	true (default) or false	Controls station restart.

Network TCP/IP Settings view

In a Supervisor station you configure the TCP/IP properties using your PC's operating system. For a Supervisor station, this view defines station and system names. In a controller station, this is where you configure all of the controller's network properties including names.

Figure 331 Display Names and Network Settings (Supervisor view)

-	-			
Dis	nla	νN	am	es
	Piu	y		~~

Station Display Name		
System Display Name		
Update Display Names		
Station Name Setti	NGS (Changes to these settings req	uire a restart the station to take effect)
Station Name entSecurity801		
Apply Changes and Restart	Station	
Network Settings (Changes to these settings require a	reboot to take effect)
Host Name	EntSec-J8-10	
Use IPv6	No 🗸	
Domain		
IPv4 Gateway	172.31.64.1	
DNSv4 Servers(comma separ	ated)	
IPv6 Gateway		
DNSv6 Servers(comma separ	ated)	
	ID	en0
	Description	Onboard Ethernet Adapter en0
	Physical Address	EC:11:27:A8:0F:A0
	Adapter Enabled	Enabled 🗸
	DHCPv4	Disabled ¥
	IPv4 Address	172.31.66.10
	IPv4 Subnet Mask	255.255.252.0
	IPv6 Support	Yes
	IPv6 Enabled	Enabled V
	Obtain IPv6 Settings Automatically	Yes V
	IPv6 Address	fe80::ee11:27ff:fea8:fa0
	IPv6 Network Prefix Length	64
	ID	en1

This view opens when you log in to a controller for the first time or when you select **Network TCP/IP Set**tings from the **Controller (System) Setup→Miscellaneous** menu.

Display Names section

The Display Names and Network Settings views provide two sections for configuring the station and system display names.

Figure 332 Display Names view

Display Names	
Station Display Name	
System Display Name	
Update Display Names	

The Update Display Names button saves changes to the text properties and refreshes the browser view.

NOTE: During a reboot of the station, the station name (display or actual name) dims until the station is restarted. Station Name and Host Name Network Settings section.

Property	Value	Description
Station Display Name	text	Defines a name that appears in the top right corner of the sys- tem interface, to the left of the System Display Name. The Station Display Name is unique for each controller.
		NOTE: This name takes priority over the Station Name and displays in the interface when both names are defined. The station n displays if no Station Display Name value is defined.
System Display Name	text	Defines a name that appears in the top right corner of the sys- tem interface to the right of the Station Display Name. This name is unique for the system and provides a hyperlink to the supervisor station from a subordinate controller.

Station Name and Host Name Network Settings section

This section documents two of the properties, which configure the platform that is hosting the system. Two buttons at the bottom of the view apply or cancel changes.

CAUTION: Changes made in this view require you to reboot the controller. Clicking the **Apply Changes** and **Reboot** button immediately reboots the controller.

NOTE: To use IPv6, you must also enable it on your host by editing the system.properties file from Workbench. Using IPv6 may disable VPN communications when using some versions of Windows 7.

Figure 333 Use the system properties file to enable or disable IPv6

💻 My File System	🏠 Sys Home	🛅 lib	system.properties	Τε
#ipHost.noProxy	=true			
<pre># This is a boo # ip version to # if false or n</pre>	lean propert use when se ot present,	y which arching an IPv4	informs java application for the local host. localhost will be return	s which ed by NreLib.getLocalHost()

[#] if false of not present, an 1994 localnost will be returned by Mrelib.getLocalnost()
if true, an IPv6 localhost will be returned by NreLib.getLocalHost()
[miagara.ipv6Enabled=false]

Property	Value	Description
Station Name	text	Creates a name for the station on the network. This name dis- plays in the system interface if no Station Display Name is specified in the Display Names section.
Host Name	read-only	Identifies the name (Id) of the host platform. For a Supervisor PC this is localhost.
Use IPv6	Yes or No (default)	Yes configures the platform daemon to respond to IPv6 re- quests, that is to create IPv6 server sockets (daemon) and IPv6 Fox multicast sockets. This property applies only to certain hosts.
Domain	text	Defines a URL. If not applicable, leave it blank.
IPv4 Gateway	IP address	Defines the IP address of the Supervisor PC or remote controller.
DNSv4 Servers (comma separated)	IP address	Defines the IP addresses for any DNS servers separating each with a comma.
IPv6 Gateway	IP address	Defines the IP address for the device that forwards packets to other networks or subnets.
DNSv6 Servers (comma separated)	IP address	Defines the IP addresses for any DNS servers separating each with a comma.

Interface properties

This topic documents the Interface properties.

Figure 334 Interface properties

Network	Settings (changes to these	settings require a reboot to take effect)
Station Name	entSecurity	
Host Name	VA51LTC5CZQC2	
Use IPv6	No 🗸	
	ID	Ethernet 2
	Description	Cisco AnyConnect Secure Mobility Client Virtual Miniport Adapter for Windows x6
	Physical Address	00:05:9A:3C:7A:00
	Adapter Enabled	Enabled V
	DHCPv4	Disabled 🗸
	DNS Domain	honeywell.com
	IPv4 Address	172.19.113.53
	IPv4 Gateway	172.19.113.49
	IPv4 Subnet Mask	255.255.255.240
	DNSv4 Servers (comma separated)	10.192.2.45,10.216.2.51
	IPv6 Support	Yes
	IPv6 Enabled	Enabled V
	Obtain IPv6 Settings Automatically	No 🗸
	IPv6 Address	fe80::3a0e:26ec:d827:2249
	IPv6 Gateway	::
	IPv6 Network Prefix Length	0
	DNSv6 Servers (comma separated)	

Property	Value	Description
ID, Description, Physical Address	read-only	Report identifying information about the interface.
Adapter Enabled	Enabled (default) or Disabled	Brings the adapter on line and takes it offline.
DHCPv4	Enabled or Dis- abled (default)	Turns use of this protocol (Dynamic Host Configuration Proto-col), version 4, on and off.
DNS Domain	text	Provides domain identification, if necessary.
IPv4 Address	IP address	Defines the IP (Internet Protocol) v4 (version 4) address for the station.
IPv4 Gateway	IP address	Defines the node in the network that serves as the forwarding host (router) to other networks when no other route specifica- tion matches the destination IP address of a packet. (Wikipedia)
IPv4 Subnet Mask	number consisting of four 8-bit octets	Associated with each IP address, this number defines the range of valid IP addresses.
DNSv4 Servers (comma separated)	IP addresses	For IPv4, define the dns Host address, if necessary. Separate each entry with a comma (,).
Property	Value	Description
---	---	---
IPv6 Support	Yes (default) or No	Indicates the network supports IPv6.
IPv6 Enabled	Enabled (default) or Disabled	Turns IPv6 support on and off.
Obtain IPv6 Set- tings Automatically	drop-down list, Yes or No (default)	Turns automatic downloading of IPv6 settings on and off.
IPv6 Address	IP address	Defines the IP address if using version 6.
IPv6 Gateway		Defines the gateway address for IPv6 usage.
IPv6Network Prefix Length	defaults to zero (0)	Defines the node in tan IPv6 network that serves as the for- warding host (router) to other networks when no other route specification matches the destination IP address of a packet. (Wikipedia)
DNSv6 Servers (comma separated)		For IPv6, define the dns Host address, if necessary. Separate each entry with a comma (,).

Final properties

These properties appear at the bottom of the Network Settings view.

Figure 335Final Network Settings properties

DNSv6 Servers (comma separated) fec0:0:0:ffff::1,fec0:0:

🗋 Edit Hosts File

Apply Changes and Reboot Reload Without Changes

Property	Value	Description
Edit Hosts File	icon; when you click it opens a blank text file	Opens the Hosts File editor. The operating system uses this plain text file to map host names to IP addresses. It is stored in the Windows folder This utility provides an easy way to edit it.
		You can type directly into this view to edit the hosts file and click the Save button at the bottom of the view to save changes.
Apply Changes and Reboot button	button	Saves changes and reboots the controller.
Reload Without Changes button	button	Abandons changes and reloads the view.

Maintenance view (Server)

This view provides information about the Supervisor station (server). The Maintenance Info tab contains a list of read-only properties that indicate the version of individual software modules that are part of the system and several other station properties.

Figure 336 Server Maintenance view

fraction for Monitoring A Per	rsonnel Reports Controller Setup
📄 Schedules 🛛 👗 User Manageme	nt 📴 Backups 💣 Remote Devices 💣 Ac
🗟 Save Station	Defrag And Save Station 📑 Get Invalid Pins
Maintenance Info	
Software Version	2.4.27
Entsec Version	4.6.3
Access Driver Version	4.6.3
Last Station Restart	45mins ago
Last Station Save	45mins ago
Intrusion Detection	Licensed
Threat Level Group Limit	Unlimited
Threat Level Count Limit	3
Reader Limit	16
Reader Count	2
Elevator Limit	Unlimited
Elevator Count	0
ADA	Licensed
Access Zone Limit	Unlimited
Access Zone Count	0
Credential Limit	Unlimited
D-J C	

Open this view by selecting Controller Setup→Miscellaneous→Server Maintenance.

Links

- Save updates the server maintenance record in the database.
- Save Station starts a job to save the current version of the station. A progress bar appears during the save process, followed by a Success or Fail window to report the results of the job.
- **Restart Station** opens the **Restart Station** confirmation window. If you confirm (click **Ok**), the station restarts immediately.

NOTE: During a station restart, the station name (located in the top right corner of the user interface) dims. When the station is available again, the name displays its normal color.

- **Update Reader Count** (Supervisor only) removes any readers left in the database after removing a controller from the Supervisor network and updates the database with any added readers.
- Get Invalid Pins starts a job to check for any invalid (corrupted) PINs and opens a Get Corrupt Pin Numbers window, shown below.

Properties

Property	Value	Description
Software Version	read-only	Displays the version of the station-level software that is run- ning the system.
Entsec Version	read-only	Displays the version of the system.
Access Driver Version	read-only	Displays the version of the system's networking module (driver).

Property	Value	Description
Last Station Restart	read-only	Displays the time, in days and hours, since the last station restart.
Last Station Save	read-only	Displays the time, in hours and minutes, since the last station save.
Intrusion Detection	read-only	Indicates if the Intrusion Detection feature is licensed for this application.
Threat Level Group Limit	read-only	Indicates the number of Threat Level Groups that currently exist.
Threat Level Count Limit	read-only	Indicates the maximum number of Threat Levels this applica- tion is licensed for.
Reader Limit	read-only	Displays the maximum number of readers that the controller or supervisor is licensed for.
Reader Count	read-only	Displays the number of readers that the controller or supervisor is currently using. A supervisor station counts all the readers in a joined system. A controller shows only its reader count. Reader count is based on the number of reader devices that are assigned to a module in the software representation. Reader count does not poll or connect to detect the presence of a physical reader. If you remove or disable reader hardware, but the device is still present in your system database, the system counts the device as being present.
Photo ID	read-only	Indicates if the system is licensed to use Photo ID.
Asure ID Device Limit	read-only number	
Asure ID Device Count	read-only number	Indicates the number of Asure IDs currently in use by the system.
ADA	read-only	Indicates if the system is licensed for ADA.
Access Zone Limit	read-only	Indicates the maximum number of Access Zones this applica- tion is licensed for.
Access Zone Count	read-only	Indicates the number of Access Zones currently in use.
Credential Limit	read-only	Displays a value indicating the number of total people and to- tal badges that the system is licensed for. For example, if the number is 10,000 — the system is licensed for 10,000 people and 10,000 badges.
		NOTE: If you happen to be over the license limit, the following error message displays: javax.baja.license.LicenseEx- ception: Credential License Limit Reached: <limit> If replication or joining is trying to push information to a con- troller and a station is exceeding the limit of people or badges, the replication or join fails. To complete a replication or join correct the license limit.</limit>
Badge Count	read-only	Indicates the total number of badges in the system.
Person Count	read-only	Indicates the number of people in the system.

Property	Value	Description
Access Right Count	read-only	Indicates the number of distinct access rights that exist in the system.
Access Right As- signment Count	read-only	Indicates the total number of times access rights are assigned to one or more people. For example, if "Access Right A" is as- signed to "Person1", "Person2", and "Person3", then that ac- counts for three Access Right Assignments. If "Access Right B" is assigned to "Person1", "Person2", and "Person4", then that accounts for an additional three Access Right Assign- ments. The total number of Access Right Assignments in this case is six.
FIPS Status	read-only	Indicates if the platform is setup to be compliant with FIPS standards.
Show Guided Tour	true or false	When true is selected and saved, this property causes the Guided Tour to display at the top of the interface when a user logs on the system. When false is selected and saved, the Guided Tour does not display.
Coalesce Alarms	true or false	When true is selected and saved, this property combines alarm notifications, which may improve system performance and lower network traffic. However, by combining alarm notifi- cations, in some cases (when an alarm is initiated and quickly cleared), you may only see the "alarm cleared" notification and not the original alarm. To see all alarm notifications individu- ally, select false. When false is selected and saved, the Co- alesce Alarms does not combine the alarms, but sends individual alarm notifications.
		are triggered by alarms, you should not coalesce alarms. You do not coalesce alarms if you may need to document security incidents.

Update Reader Count window

This window displays the received messages.

```
Figure 337 Update Reader Count window
```

Status	Timestamp	Message
Message	29-Mar-17 2:00 PM EDT	Updating Db Counts for all local stations and subordinates
Message	29-Mar-17 2:00 PM EDT	Connections Setup
Message	29-Mar-17 2:00 PM EDT	Checking Intrusion Zones
Message	29-Mar-17 2:00 PM EDT	Checking Intrusion Zone Groups
Message	29-Mar-17 2:00 PM EDT	Checking Schedules
Message	29-Mar-17 2:00 PM EDT	Checking Threat Level Groups
Message	29-Mar-17 2:00 PM EDT	Checking Readers
Message	29-Mar-17 2:00 PM EDT	Checking Access Zones
Message	29-Mar-17 2:00 PM EDT	Checking Floors
Success	29-Mar-17 2:00 PM EDT	Job Success

Get Corrupt Pin Numbers window

This window displays a list of corrupt PIN numbers.

Figure 338	Get Corrupt	Pin	Numbers	window
------------	-------------	-----	---------	--------

Success		
Status	Timestamp	Message
🚹 Message	26-Jan-16 11:52 PM IST	Fetching Invalid Intrusion Pins
Message	26-Jan-16 11:52 PM IST	0 invalid Intrusion Pin(s) found
Message	26-Jan-16 11:52 PM IST	Fetching Invalid Person Pins
Message	26-Jan-16 11:52 PM IST	1 invalid Person Pin(s) found
Success	26-Jan-16 11:52 PM IST	Job Success
Success	26-Jan-16 11:52 PM IST	Job Success

This window shows job status with time stamped messages that indicate if any invalid PINs are found. If one or more invalid PINs are found, then the window displays an **Update** button that you can click to launch a job that updates any PINs that are identified as invalid.

Configure Database view, Database Services tab

This view displays the station's database and network configuration settings.

Figure 339 Configure Database view, Database Services tab in a remote station

🚰 Home 🛛 ốơ Monitoring 🛛 🏖	Personnel Reports	s 🚳 System Setup	Threat Levels		
📄 Schedules 🛛 👗 User Manage	ment 🎼 Backups 💰	Remote Devices 💣 Acc	cess Setup 💣		
Save Manage Database	s 🛛 🗟 Set Orion Databa	se 🔀 Restart Station			
Database Services MySQL Da	tabase	Save Mana	re Databases	Set Orion Database	Destart Station
Enterprise Security Service	{ok}	Bave Maria			Restart Station
Access Control Service	{ok}	Database Services	HsqlDbDatabase		
Intrusion Service	{ok}	Enterprise Security S	ervice {ok}		
Orion Service	{ok}	Access Control Servi	ce {ok}		
Orion Database	{ok} MySQL Database	Intrusion Service	{ok}		
Replication Service	{ok}	Orion Service	{ok}		
Replication Failure Alarm	Alarm Source Info »	Orion Database	{ok} HsqlDbD	Database	
Replication Overrun Alarm	Alarm Source Info »	Replication Service	{ok}		
Replication Overrun Limit	5000	Replication Failure A	larm Alarm Source	Info »	
·		Replication Overrun	Alarm Alarm Source	Info »	
		Replication Overrun	Limit 50000		

You access this view by clicking **Controller (System) Setup→Miscellaneous→Configure Database**.

Tabs

The Database Services tab shows the status of the currently-assigned Orion database. It contains readonly and other properties that describe the status of Database Services or configure alarming properties related to the Database Services. An additional tab identifies the associated database. Although a Supervisor station may have more than one database, each station can have only one Orion Database at a time. The HsqDbDatabase supports only remote controller stations. The database in a Supervisor station is usually a MySQL or MS SQL database.

NOTE:

The tabs appear in both Supervisor and remote (subordinate) stations but only the properties for the Supervisor database may be edited. HsqlDbDatabase properties cannot be edited.

Links

In addition to a **Save**, these links are available along the top of the view:

- Manage Databases opens the Manage Databases window. You use this window to add, delete, rename or duplicate databases for use in your system. For each database that you add, an additional tab, representing that database configuration, displays on the view.
- Set Orion Database opens the Set Orion Database window. Use this window to designate which of the configured databases (if you have more than one configured) to use for the Orion Service. A reset of the Orion Database requires a station restart.

CAUTION: Using the Set Orion Database window can result in unintentional loss of data. Be sure that you have backed up any data that you want to preserve before changing the Orion database.

• **Restart Station** starts the current stations. This is necessary after configuring or reassigning a station database.

Property	Value	Description
Enterprise Security Service	read-only	Indicates if the service is running. It should report $\{Ok\}$.
Access Control Service	read-only	Indicates if the service is running. It should report $\{Ok\}$.
Intrusion Service	read-only	Indicates if the service is running. It should report $\{Ok\}$.
Orion Service	read-only	Indicates if the service is running. It should report $\{Ok\}$.
Orion Database	read-only	Indicates that the connection from Orion to the selected rdbms database is $\{Ok\}$, and which database Orion is connected to.
Replication Service	read-only	Indicates if the service is running. It should report $\{Ok\}$.
Replication Failure Alarm (Alarm Source Info)	read-only	Links to a set of properties for configuring and routing alarms. These properties are documented in the <i>Alarm Setup</i> topic of the PDF and in the help system (search for Alarm Source Info).
Replication Over- run Alarm (This alarm occurs when the deletion table record count is greater than the Replication Overrun Limit property value.)	read-only	Indicates that there are too many non-replicating subordinates assigned to the Supervisor database. To get rid of this alarm, make all subordinates available for replication or delete them from the Station Manager – Database view. This stops the replication process from keeping track of the station's deleted records. You can always re-discover, add, and join the subordi- nate station at a later date.
Replication Over- run Limit	number; The de- fault value is 5000.	Specifies the maximum number of records that are allowed in a deletion table. You will receive a replication overrun alarm when the deletion record count is greater than this number.

Database Configuration tab (HsqlDbDatabase)

An HSQL database is a relational database management system written in Java. It has a JDBC driver and supports a large subset of SQL-92 and SQL:2008 standards. (Wikipedia). This tab is available in a controller station.

Figure 340 HsqlDbDatabase properties

Schedules & User Management to Backups Remote Devices Backups Remote Devices Backups Remote Devices Remote Devices Re	🚰 Home 🛛 ố	o Monitor	ing 🔒 Pers	onnel	Repo	orts	Controller	Setu
Save Database Services HsqlDatabase Status (ok) Enabled true Fault Cause	Schedules	i 👗 Us	er Management	- 1 <u>5</u> B	ackups	🖑 Remo	te Devices	ð
Database Services HsqlDatabase Status (ok) Enabled true Fault Cause (bk) Health Ok [05-Sep-18 7:32 PM IST] Alarm Source Info Alarm Source Info User Name sa Password password Base Directory file:^^hsqldb Database Name orion	Save							
Status {ok} Enabled true Fault Cause Health Ok [05-Sep-18 7:32 PM IST] Alarm Source Info User Name sa Password password Base Directory file:^^hsqldb Database Name orion	Database Ser	vices H	IsqlDatabase					
Enabled true Fault Cause Health Ok [05-Sep-18 7:32 PM IST] Alarm Source Info X User Name sa Password password Base Directory file:^^hsqldb Database Name orion	Status		(ok)					
Fault Cause Health Ok [05-Sep-18 7:32 PM IST] Alarm Source Info Alarm Source Info >> User Name sa Password password Base Directory file:^^hsqldb Database Name orion	Enabled	1	true					
Health Ok [05-Sep-18 7:32 PM IST] Alarm Source Info Alarm Source Info >> User Name sa Password password Base Directory file:^^hsqldb Database Name orion	Fault Cause							
Alarm Source Info Alarm Source Info » User Name sa Password password Base Directory file:^^hsqldb Database Name orion	Health		Ok [05-Sep-18 7	:32 PM 1	IST]			
User Name sa Passwordpassword Base Directory file:^^hsqldb Database Name origin	Alarm Source	e Info	Alarm Source In	fo »				
Passwordpassword Base Directory file:^^hsqldb Database Name origin	User Name	1	58					
Base Directory file:^^hsqldb Database Name gripp	Password		password					
Database Name orion	Base Directo	ory i	file:^^hsqldb					
butubuse nume	Database Na	ame	orion					
Defrag On Save true *	Defrag On S	ave	true 🔻					

You access this view from the main menu by clicking **Controller Setup→Miscellaneous→Configure Database**, followed by clicking the HsqlDbDatabase tab.

In addition to the standard properties (Status,	, Enabled,	Fault Cause,	Health,	and Alarm	Source Info),	these
properties support an HSQL database.						

Property	Value	Description
User Name	read-only	Defines the user name credential with which to log in to the database.
Password	read-only	Defines the password credential required to log in to the database.
Base Directory	read-only	Defines the path that points to the location of the database. A typical configuration uses a folder file space directly under the station. For example, if the folder is named hsqldb, the path would be: file:^hsqldb.
Database Name	read-only	Defines the name of the database to connect to. If the data- base does not already exist, the system creates it when you save the property sheet with a completed Base Directory and Database Name.
Defrag on Save	true or false (default)	Configures the system to remove blank records in the data- base when you save it. Removing blank records can take time. Based on your use of the system, you should establish a regu- lar time to defragment the database. Other backups can be performed without defragmentation to save time.

Database configuration tabs (MySQL and SqlServer databases)

MySQL is an open-source relational database management system (RDBMS) supported by Oracle Corporation. SqlServer is a relational database management system developed by Microsoft. The properties required to configure these databases are similar to one another. Figure 341 MySQL database properties

🚰 Home 🛛 ốơ Monitoring	Personnel Reports System Setup Photo
📑 Schedules 🛛 💄 User Man	agement 📭 Backups 💣 Remote Devices 💣 Access Set
🔚 Save 🎯 Manage Datab	ases 🖪 Set Orion Database 🛛 Restart Station
Database Services MySQL	Database
Status	{down,alarm,unackedAl
Enabled	true 🗸
Fault Cause	
Health	Fail [09-Oct-18 8:13 PM EDT]
Alarm Source Info	Alarm Source Info »
Host Address	ip:localhost
User Name	admin
Password	•••••
Database Name	entsec
Port	3306
Extra Connection Properties	
Max Active Connections	30
Peak Active Connections	0
Active Connections	0

You access this tab from the main menu in a Supervisor station by clicking **System Setup→Miscellaneous→**-Configure Database, followed by clicking the MySQLDatabase tab.

Properties

In addition to the standard properties (Status, Enabled, Fault Cause, Health, and Alarm Source Info), these properties support the MySQL database.

Property	Value	Description
Host Address	IP address	Defines the IP address of the computer platform where the da- tabase resides.
User Name	text	Defines the user name credential with which to log in to the database.
		For MySQL databases, this should be a name other than the default, "root," which only connects to a database hosted on localhost.
Password	two properties	The Password property defines a password that is used to log in to the database. The Confirm property must be an exact match to the Password property.
Database Name	text	Defines the name of the database to connect to. If the data- base does not already exist, the system creates it when you save the property sheet with a completed Base Directory and Database Name.
Port	number	Specifies the port to use when connecting to the database.
		Common default values are:
		HsqlDbDatabase - no port is specified because this rdb is for local database use only.
		MySQLDatabase - Port 3306
		SqlServerDatabase - Port 1433

Property	Value	Description
Extra Connection Properties	semicolon list of property,value pairs in the form "property= value;"	Properties, such as charset , define values to use when connecting to the database.
Max Active Connections	number	Defines the maximum number of active connections that can be allocated from this pool at the same time. Changing this property requires a station restart.
Peak Active Connections	number	Defines the peak number of active connections in the pool.
Active Connections	number	Defines the number of current active connections in the pool.

Web Service view

This view displays a set of properties to configure web service settings.

🚮 Home 🛛 ốơ Monitoring 🔒 Perso	onnel 📄 Reports 💣 System Setup 🛕 Threat Levels
📰 Schedules 🛛 👗 User Management	📭 Backups 💣 Remote Devices 💣 Access Setup 💣
ave Save	
Web Service	
Status	{ok}
Fault Cause	
Public Server Port	80 [1 - 65535]
Http Enabled	true 🗸
Public Server Port	443 [1 - 65535]
Https Enabled	true 🗸
Https Only	false 🗸
Https Cert	tridium
X Frame Options	Sameorigin V
Show Stack Trace	false 🗸
Web Launcher Module Caching Type	Host V
Web Launcher Enabled	true 🗸
Min Threads	4 [4 - 30]
Max Threads	30 [6 - +inf]
Thread Idle Timeout	00000 h 05 m 00 s [1 second - +inf]

Figure 342 Web Service view

<

You select this view by choosing **Controller (System) Setup→Miscellaneous→Web Service** from the main menu.

>

Properties

In addition to the standard properties (Status and Fault Cause), these properties support the Web Service.

Property	Value	Description
Public Server Port	number (defaults to 80)	Defines the port that the HTTP service listens on.
Http Enabled	true or false	Turns the processing of HTTP requests on (true) and off (false).

Property	Value	Description
Public Server Port	number (defaults to 443)	Defines the port that the HTTPS service listens on.
Https Enabled	true (default) or false	
Https Only	true or false (default)	true redirects any attempt to connect using a connection that is not secure (Http alone) to Https. false, does not redirect attempts to connect using Http alone.
Https Cert	text	Sets the certificates that the user wants to use. By default the certificate is set to tridium.
X Frame Options	drop-down list	Prevents Cross-Frame Scripting (XFS) attacks. You choose whether or not a browser should be allowed to render a page in a <frame/> or <iframe>, thus possibly allowing your content to be embedded into other sites.</iframe>
		Deny prevents any attempt to load the page in a frame. This option may negatively impact the display of information.
		Sameorigin (default) loads the page in a frame as long as the site including it in a frame is the same as the one serving the page (same server).
		If a page specifies Sameorigin, browsers will prevent framing only if the top-level origin FQDN (fully-qualified-domain-name) does not exactly match FQDN of the subframe page that de- manded the Sameorigin restriction. This is considered a safe practice.
		Any allows XFS and Cross-Site Scripting (XSS). This is the least safe choice.
Show Stack Trace	true or false	true shows exception stack traces in error responses when available. false disables exception stack traces in error responses.
Web Launcher Module Caching	drop-down list; de- faults to Host	Determines how a client using the Web Launcher caches modules.
Туре		Host results in a folder and the downloading of installation modules to the module folder. This creates multiple folders of downloaded modules that negatively affect platform memory usage.
		User results in one cache per host visited (user)- one shared cache per user. This option results in the creation of a .share- dModuleCache folder. The system then downloads to a sub- folder at this location. This option minimizes the memory re- quired when running in a controller.
Web Launcher Enabled	true (default) or false	Enables (true) and disables (false) the use of the Web Launcher.
Min Threads	number (defaults to 4)	Ensures that at least four threads process at a time.

Property	Value	Description
Max Threads	number (defaults to 30)	Tunes large networks (those with many station components) to process more than a single thread at a time. It is the only visi- ble part of a shared thread-pool scheme for large-job scala- blilty and allows the local station's thread pool to grow uncapped.
Thread Idle Timeout	hours minutes sec- onds (defaults to five hours)	Configures the amount of idle time to elapse before a thread times out.

Job Service view

This view shows a table listing of all the jobs that have run on the local station.

Figure 343 v	view				
🚮 Home 🛛 ốơ Mo	nitoring 🏼 🏖 Personnel	Reports 💣	Controller Setup	Niagai	owork'
Schedules 🧎	🐒 User Management 🛛 📭 🗄	ackups 🞯 Remot	e Devices 👹 Access Setup 👹 li	ntrusion Setup 💣 Alarm Setup 💣 Miscellaneo	us
JobService					
Job Name	Progress	Job State	Start Time 💙	End Time	
Replication	100	Success	22-Aug-18 2:00 AM EDT	22-Aug-18 2:00 AM EDT	
Station Save	100	Success	21-Aug-18 6:03 PM EDT	21-Aug-18 6:03 PM EDT	
Replication	100	Success	21-Aug-18 2:00 AM EDT	21-Aug-18 2:00 AM EDT	
Station Save	100	Success	20-Aug-18 6:04 PM EDT	20-Aug-18 6:04 PM EDT	
Replication	100	Success	20-Aug-18 2:00 AM EDT	20-Aug-18 2:00 AM EDT	
Station Save	100	Success	19-Aug-18 6:04 PM EDT	19-Aug-18 6:04 PM EDT	
N Discovery	100	Success	16-Aug-18 11:58 AM EDT	16-Aug-18 11:58 AM EDT	
N Discovery	100	Success	16-Aug-18 11:56 AM EDT	16-Aug-18 11:57 AM EDT	
<					>

This view opens when you select Controller Setup (System) Setup→Miscellaneous→Jobs from the main menu. The view shows a table listing of all the jobs that have run on the local station.

Buttons

You can use the standard control buttons across the top of this view to filter, delete, auto-refresh or export a report of this table. In addition to the standard control buttons, the following controls are also available in this view.

- Discrete Summary button opens the Success window or Error window, which provides summary and detailed results views of the selected job.
- △ Job Log button opens the Job Log window, which provides a log of the job actions for the selected job.

Columns

Column	Description
Job Name	The name of the job.
Progress	A percentage that provides general information about how long the job has taken and is likely to take.

Column	Description
Job State	Reports success or failure.
Start Time	Reports when the job started.
End time	Reports when the job finished.

System Date Time Editor view

This view displays a set of properties for setting the associated controller's date and time.

System Data Time Editor view		
04 V Jul V 2018 07 V : 15	✓ AM	V EDT
America/New_York (-5/-4)	\checkmark	
	System Data Time Editor view 04 · Jul · 2018 07 · 15 America/New_York (-5/-4)	System Data Time Editor view 04 · Jul · Z018 07 · IS · AM America/New_York (-5/-4) · · · · · · · · · · · · · · · · · · ·

Refresh Save

This view opens from the main menu when you click **Controller (System) Setup→Miscellaneous→System Date Time**

The properties are dimmed until you check the **Change System Time** check box. Changes to these properties must be saved before leaving the view or they are not effective.

NOTE: A station restart is required when you choose a new option even if the time zone differential does not change. For example, changing from America/New York to America/Toronto requires a restart, even though the current time differential may be the same for both options.

End User Licenses Agreement view

This view displays a single page listing End User License Agreement for this application. Select this view by clicking on the following menu items from the main menu: **Controller (System) Setup→Miscellaneou-s→End User License Agreement**.

Third Party Licenses view

This view displays a single page listing of all the third party software licenses that are associated with this application. Select this view by clicking on the following menu items from the main menu: **Controller (System)** Setup→Miscellaneous→Third Party Licenses.

Controller TimeServers Settings

This view configures NTP (Network Time Protocol) properties in a controller platform.

Figure 345 NTP view in a controller station

යි Home රං Monitorin	g 🔒 Personnel	Reports	🖑 Controlle	er Setup	🛕 Threat Levels
📰 Schedules 🛛 🙇 User	r Management 🛛 📭 I	Backups 💣	Remote Device	s 💣 Acc	ess Setup 💣 Inti
Settings					
Enabled	false 🗸				
Sync Local Clock to NTP	true 🗸				
Sync Time At Boot	false 🗸				
Use Local Clock as Backup	false 🗸				
Generate NTP Statistics	false 🗸				
Timo Fomor	_	_	_	_	_
Time Servers					
Address	Peer Mode	e Burst P	referred Min. Po	oli Interval	Max. Poll Interval
	Server 🗸	false 🗸 f	false 🗸 6	log2 s	10 log2 s
				Refresh	Save

To access this view, click **Controller Setup→Miscellaneous→TimeServers Settings**

Property	Value	Description
Enabled	true (default) or false	If true, the host will use NTP to sync its clock with time values retrieved from other servers.
Sync Local Clock to NTP	true (default) or false	If true, this enables the host to adjust its local clock by means of NTP. If disabled (false), the local clock free-runs at its in- trinsic time and frequency offset. This flag is useful in case the local clock is controlled by some other device or protocol and NTP is used only to provide synchronization (as server) to oth- er clients. In this case, the local clock driver can be used to pro- vide this function and also certain time variables for error estimates and leap-indicators.
Sync Time At Boot	true or false (default)	Default is false. If true, when the controller boots, before the stations starts or the ntpd starts, it executes the ntpdate command. This updates the system local time.
Use Local Clock as Backup	true or false (default)	If true, should the specified NTP server(s) become unavailable at the time of a poll, the time used is provided by the system clock. This prevents the timing of the polling algorithm in the ntpd (which is executed at specified/changing intervals) from being reset.
		A true value does not result in any change to the NTP dae- mon's polling interval (frequency). In fact, by using the local system clock the NTP-calculated polling time would remain the same, and thus not result in more polling.
Generate NTP Statistics	true or false (default)	If true, the NtpPlatformService reports whatever information it can about its operation. To access these statistics with the station opened in Workbench, right-click the NtpPlatformSer- viceQnx and select Views SpyRemote . Keep in mind that the ntpd is a QNX process; thus Niagara has no control over what it reports.

Settings properties

Time Servers properties

Property	Value	Description
Address	server domain name	Fully qualified domain name, IP address, or host files alias for the NTP time server.
Peer Mode	drop-down list	Defines the type of server:
		Server indicates that the contoller platform is in a subordi- nate role to the server with regard to time synchronization.
		Peer indicates that the platform functions as an equal with the server with regard to time synchronization.
Burst	Drop-down list, true or false (default)	false by default. If true, when server is reachable, upon each poll a burst of eight packets are sent, instead of the usual one packet. Spacing between the first and second packets is about 16 seconds to allow a modem call to complete, while spacing between remaining packets is about 2 seconds.
Preferred	Drop-down list, true or false (default)	If true, designates a server as preferred over others for syn- chronization. Note also that priority order (top highest, bot- tom lowest) is also evaluated if multiple servers are entered.
Min. Poll Interval	seconds (defaults to 6)	Minimum poll interval for NTP messages, from 4 to 16. Note that units are in "log-base-two seconds," or 2 to the power of n seconds (NTP convention), meaning from 2 to the 4th (16 seconds) to 2 to the 16th (65,536 seconds).
Max. Poll Interval	seconds (defaults to 10)	Maximum poll interval for NTP messages, from 10 to 17. Note that units are in "log-base-two seconds," or 2 to the power of n seconds (NTP convention), meaning from 2 to the 10th (1,024 seconds) to 2 to the 17th (131,072 seconds).

These properties become available when you click the Add button.

Supervisor TimeServers Settings

This view configures NTP (Network Time Protocol) properties in a Supervisor PC.

Figure 346 NTP view in a Supervisor station

ත් Home රං Monitoring	A Perso	onnel 📄 Rep	orts 💣 Sys	tem Setup
📰 Schedules 🛛 👗 User	Management	🚯 Backups	💣 Remote D	evices 💣
Settings				
Enabled	true 🗸			
Sync Policy	Ntp 🗸			
Max. Pos. Phase Correction	54000	s [0 - +inf]		
Max. Neg. Phase Correction	54000	s [0 - +inf]		
Min. Poll Interval	10	log2 s [1 - +inf]		
Max. Poll Interval	15	log2 s [1 - +inf]		
Special Poll Interval	604800	s [30 - +inf]		
Time Servers				
Address Use Spec.	Interval Fall	back Only Peer	Mode	
time.windows.com true	false	e Client		
				1

To access this view, click System Setup→Miscellaneous→TimeServers Settings

Settings properties

NOTE:

The Windows 32 time service supports two registry entries, the Max. Pos. Phase Correction and the Max. Neg. Phase Correction (listed below). These entries restrict the samples that the time service accepts on a local computer when those samples are sent from a remote computer. When a computer that is running in a steady state receives a time sample from its time source, the sample is checked against the phase correction boundaries that the MaxPosPhaseCorrection and MaxNegPhaseCorrection registry entries impose. If the time sample falls within the limits that the two registry entries enforce, this sample is accepted for additional processing. If the time sample does not fall within these limits, the time sample is ignored.

Property	Value	Description
Enabled	true (default) or false	If true, the host will use NTP to sync its clock with time values retrieved from other servers.
Sync Policy	read-only drop- down list	Reports that the system uses Ntp (Network Time Protocol) to synchronize the time.
Max. Pos. Phase Correction	seconds (defaults to 54000)	See note, above.
Max. Neg. Phase Correction	seconds (defaults to 54000)	See note, above.
Min. Poll Interval	seconds (defaults to 10)	Minimum poll interval for NTP messages, from 4 to 16. Note units are in "log-base-two seconds," or 2 to the power of n seconds (NTP convention), meaning from 2 to the 4th (16 sec- onds) to 2 to the 16th (65,536 seconds).

Property	Value	Description
Max. Poll Interval	seconds (defaults to 15)	Maximum poll interval for NTP messages, from 10 to 17. Note units are in "log-base-two seconds," or 2 to the power of n seconds (NTP convention), meaning from 2 to the 10th (1,024 seconds) to 2 to the 17th (131,072 seconds).
Special Poll Interval	seconds (defaults to 604800)	To change the period at which Windows attempts to synchron- ize with the NTP reference, modify the parameter Special Poll Interval . This allows you to specify a period at which the operating system attempts to synchronize with the NTP reference. It specifies the synchronization period in seconds. The default is 604800 seconds, or 7 days. A generally ac- cepted polling period of once every hour, or 3600 seconds, is reasonable.

Time Servers properties

These properties become available when you click the Add button.

Property	Value	Description
Address	domain	Fully qualified domain name, IP address, or host files alias for the NTP time server.

Chapter 13 Controller (System)– Miscellaneous Graphics

Topics covered in this chapter

- Graphics view (Graphics Management)
- ♦ View Graphic
- ♦ Graphic Ėditor view
- Images view
- ♦ Add New Image view
- Display Image view
- Navigation Groups view
- Add New (or edit) Nav Group view

Graphics views are custom displays you create using the Graphic Editor view. Graphic views contain controls, links, and indicators related to building access and automation system controls. Graphic views support two Target Media: HxPxMedia (for viewing in a browser) or WorkbenchPxMedia (for viewing in Workbench).

Figure 347 Graphics menu

Graphics Managemen	t
Images	
Navigation Groups	

You access this menu by clicking the **Controller (System) Setup→Miscellaneous→Graphics** menu item.

In Niagara 4.9, three of the widgets run in a browser using HTML5: LiveVideoPlayer, Control Panel and CameraWidget. The remaining widgets: PanTiltJoystick, ZoomSlider, MouseDownButton and VideoMultistreamPane require Web Launcher and run outside of the browser. WorkbenchPxMedia run without additional requirements in Workbench. Running in the web UI they require the Java Web Launcher applet, which displays them outside of the browser.

Graphics view (Graphics Management)

This view lists all the existing graphic views, including their Display Name, Media, and Parent Display Path. This view is also where you add new and edit existing graphic views.

Figure 348 Graphics view



This view opens when you select **Controller (System) Setup→Miscellaneous→Graphics→Graphics Management** from the main menu.

Buttons

In addition to the standard buttons (Delete, Filter, Column Chooser, Refresh, Manage Reports and Export), this view provides these control buttons:

- O Add opens a view or window for creating a new record in the database.
- Q View Graphic displays the selected graphic in the browser using the designated media type.
- Draphic Editor opens the selected graphic in the Graphic Editor view for editing.
- Modify Settings opens the **Modify Settings** window with which to edit existing graphic view properties. You can change the view name, associated icon, or **Target Media** type using this window.
- DED Edit Nav opens the Edit Nav window with which to configure where the graphic appears in the system's menu structure.
- Remove Nav deletes the custom nav file associated with the selected graphic view. The system prompts you to confirm the deletion. When you confirm, the view no longer appears in the system's menu structure.

Columns

Column	Description
Display Name	Reports the name assigned to the graphic when it was created.
Media	Reports the type of graphic. The graphic type determines where it can be viewed, in Workbench, browser or Web Launcher.
Parent Display Path	Reports the URL where the graphic record is located in the database.

Add a graphic window

This window provides the properties to add a new graphic.

Figure 349 Add a new graphic window



Property	Value	Description
View Name	text	Identifies the name of the graphic.
View Icon	file path	Defines the location of an icon to represent the graphic.
Target Media	drop-down list	Identifies where the graphic will be used: Workbench or the web (HxPxMedia).

Modify Settings window

This window configures graphics properties.

Figure 350 Modify Settings window properties

Modify Settings	
View Name	Graphic
View Icon	module://icons/x16/views/view.png
Target Media	WorkbenchPxMedia 💌
	Ok Cancel

You access these properties by selecting a row in the Graphics view table followed by clicking the Modify Settings button ().

The graphics properties you can edit are documented in the "Add a graphic window" topic.

Edit Nav window

This window configures where the graphic appears in the Nav tree.

Figure 351 Edit Nav window properties

Nav Name	3rdFloor	
Display Name	3rd Floor	
Parent Path	Graphics 💌	
Index	2	
Is Default Child	false 🗸	

You access these properties by selecting a row in the **Graphics** view table followed by clicking the Edit Nav button (**D**).

Property	Value	Description
Nav Name	text	Specifies a name for the navigation tree.
Display Name	text	Specifies the name of the graphic file as it appears in the navi- gation tree.
Parent Path	drop-down list	Specifies where, in the existing system navigation hierarchy, to place a new menu item.
Index	number	Specifies where, in the parent this menu item is located. The first position (from left to right, or top to bottom) is 0, then 1, 2, and so on.
Is Default Child	true or false	Sets the current graphic as the default view more than one graphic is assigned to the parent view.

Types of bindings

Some bindings work with only a certain type of widget (for example, a bound label binding) and other bindings may be used with several types of widgets including some that are not available in the system.

Figure 352 Types of bindings

🛃 Add Binding 🛛 🗙		
bajaui:Value Binding		
kitPx:Spectrum Setpoint Binding		
kitPx:Spectrum Binding		
kitPx:Set Point Binding		
kitPx:Mouse Over Binding		
kitPx:Popup Binding		
kitPx:Action Binding		
analytics:Analytic Web Rollup Binding		
analytics:Analytic Web Chart Binding		
analytics:Analytic Rollup Binding		
analytics:Analytic Value Binding		
analytics:Analytic Table Binding		
OK Cancel		

To access this menu in the Graphic Editor, open the Widget Tree side bar, double-click the object in the Widget Tree or on the canvas.

About bound label bindings

Bound label bindings exclusively connect a value to a bound label widget. Bound labels, which you can add from the **Graphics Editor** popup menu, have properties that are available from the properties side bar.

Figure 353	Bound	label	binding	properties

Bound Lab	el Binding	×
ord	null	
degradeBehav	None	-
hyperlink	null	
summary	%displayName?typeDisplayName% = %.%	
popupEnable	true	-
statusEffect	Color And Blink	-
	OK Cancel	

To access these properties after dragging a **BoundLabel** from the **kitPx** palette to the Px Editor, doubleclick the bound label. These properties are toward the bottom of the list.

Property	Value	Description
Ord	Defaults to null	Defines the location of the data value to bind to the widget. This is a required property for the widget to be bound.
		In a Popup binding this path that designates the component view to display in the popup window.
Degrade Behavior	Defaults to None	Specifies what the user sees when binding communications are not available. If a binding cannot be used, this property deter- mines how the UI degrades gracefully. For example, if a user does not have permission to invoke a specific action, a button bound to the action can be grayed out or hidden entirely.
Hyperlink	Defaults to null	Links to another object. When used, the link is active in the browser or in the graphic view.
Summary	Bql Query state- ment; defaults to	Specifies a display name for the widget as text or by means of a script.

Property	Value	Description
	%displayName%= %.%	
Popup Enabled	true (default) or false	Specifies if a secondary window is to open when a user clicks this label in a browser or the graphic view.
Status Effect	three options	Configures what happens when the status of a bound value changes:
		Color changes the background color.
		Color and blink changes the background color and causes the value to blink.
		None disables any effects when the status of a bound value changes.

About value bindings

These bindings bind to values that are typically under a component. Value bindings support features such as real-time graphics, mouse-over, and right-click actions.

★ Value Bin	ding	×
ord	station: slot:/Logic/NumericWritable/out/value	
degradeBeh	av None	-
hyperlink	null	
summary	%displayName?typeDisplayName% = %.%	
popupEnabl	le true	•
	OK Cancel	

This pop-up opens when you right-click an object on a PX grid.

Property	Value	Description
Ord	Chooser; defaults to null	Defines the location of the data value to bind to the widget. This is a required property for the widget to be bound.
Degrade Behavior	drop-down list; de- faults to None	Specifies how the interface displays invalid options. For example, if a user does not have permission to invoke a specific action, a button bound to that action can be grayed out or hidden entirely.
Hyperlink	Chooser; defaults to null	Links to another object. When used, the link is active in the browser or in the graphic view.
Summary	Chooser; defaults to %displayName %=%.%	Specifies a display name for the widget as text or by means of a script.
Popup Enabled	true (default) or false	Specifies if a secondary window is to open when a user clicks this label in a browser or the graphic view.

Types of Converters

Converters are part of the system's logic features. They change data from one type to another; for example, a statusBoolean to a statusNumeric so that a process, which outputs an inactive value, becomes a numeric value (1) in the next process. In most cases, when you animate a property, the correct data converter appears, by default, at the top of the list.

Figure 354 Types of converters



The following types of converters are available when using a value binding:

- I Boolean To Simple converts a number data type link (to-double, to-float, to-long, to-integer) resulting in a 0 value for a Boolean false, or 1 if a Boolean true.
- I Boolean To Boolean has a False Value converter property with a default value of 0. The default 0 keeps the statusBoolean value in synch with the source Boolean value. If False Value is set to 1, the linked statusBoolean value is opposite (NOT) the source.
- I Enum to Simple converts an enumerated value to a simple value.
- I Enum to Enum converts one enumerated value to the same type of value.
- Fixed Simple

About spectrum bindings

This binding animated a widget's brush (color) property by mapping a numeric value into a color range defined by lowColor, midColor, and highColor properties

Figure 355	Spectrum	Binding	properties
		/	

★ Spectrum Binding ×		
Ord	slot:/Logic/HousingUnit/VavZones/VavZone	
Widget Prop	ert background 🔽	
Low Color		
Mid Color		
High Color		
Setpoint	49.0	
Extent	100.0	

	<u> </u>	
Property	Value	Description
Ord	Chooser; defaults to null	Defines the location of the data value to bind to the widget. This is a required property for the widget to be bound.
Degrade Behavior	Chooser; defaults to null	Specifies how the interface displays invalid options. For example, if a user does not have permission to invoke a specific action, a button bound to that action can be grayed out or hidden entirely.
Widget Property	drop-down list	Specifies the target property in the binding's parent widget. For example, if the spectrum binding has a bound label parent, this property can change the background or foreground prop- erty of the parent label. You can target only one property in the parent widget per binding. To target more than one, add additional bindings.
Low Color	chooser	Specifies the color for the lowest-value assignment. When the bound target value is less than the setpoint minus extent divided by two (2), it displays in this color. As the value bound to this property increases above the minimum value specified, the color changes, approaching the color set by the Mid Color property.

Property	Value	Description
Mid Color	chooser	Specifies the color for the mid-range value. When the bound value is exactly at the setpoint, it displays in this color. As it increases above this point, the color changes, approaching the color set by the High Color property. As the value decreases below the setpoint, the color changes, approaching the color set by the Low Color property.
High Color	chooser	Specifies the color for the highest value assignment. When the bound target is greater than the setpoint plus extent divided by two (2), it displays in this color. As the bound value decreases below the maximum value specified, the color changes, approaching the color set by the Mid Color property.
Setpoint	number to one decimal	Specifies the mid-color value. For example, when set to 70, the value displays using the color you defined for Mid Color when it reaches 70.
Extent	number to one decimal	Represents the total range of the bound value, which maps from low to high.

About set point bindings

This binding displays the current value of a set point and also to provide the ability to modify it. A set point is typically a status value property such as fallback. The set point binding ORD must resolve down to the specific property that is being manipulated. If it is bound to a component or to a read-only property, then the binding attempts to use a set action to save.

Figure 356 Set Point Binding properties

🔹 Set Point Bindi	ng	×
Ord	station: slot:/Logic/HousingUnit/AirHandler/SetpointTe	
Hyperlink	null	••••
Summary	%displayName% = %.%	
Popup Enabled	true	•
Widget Event	actionPerformed	•
Widget Property	value	•

Property	Value	Description
Ord	Chooser; defaults to null	Defines the location of the data value to bind to the widget. This is a required property for the widget to be bound.
Hyperlink	Chooser; defaults to null	Links to another object. When used, the link is active in the browser or in the graphic view.
Summary	Chooser; defaults to %displayName %=%.%	Specifies a display name for the widget as text or by means of a script.
Popup Enabled	true (default) or false	Specifies if a secondary window is to open when a user clicks this label in a browser or the graphic view.

Property	Value	Description
Widget Event	drop-down list	Defines the action to perform on the binding of the target component when an event is fired by the parent widget.
Widget Property	drop-down list	Specifies the target property in the binding's parent widget. For example, if the spectrum binding has a bound label parent, this property can change the background or foreground prop- erty of the parent label. You can target only one property in the parent widget per binding. To target more than one, add additional bindings.

About Increment Set point bindings

This type of set point binding is used increment or decrement a numeric value.

Figure 357 Increment set point binding properties

▲ Increment Set Point Binding ×		
Ord	null 🛄	
Hyperlink	null	
Summary	%displayName% = %.%	
Popup Enabled	true	-
Widget Event	actionPerformed	-
Increment	1.0	

Property	Value	Description
Ord	Chooser; defaults to null	Defines the location of the data value to bind to the widget. This is a required property for the widget to be bound.
Hyperlink	Chooser; defaults to null	Links to another object. When used, the link is active in the browser or in the graphic view.
Summary	Chooser; defaults to %displayName %=%.%	Specifies a display name for the widget as text or by means of a script.
Popup Enabled	true (default) or false	Specifies if a secondary window is to open when a user clicks this label in a browser or the graphic view.
Widget Event	drop-down list	Defines the action to perform on the binding of the target component when an event is fired by the parent widget.
Increment	positive or nega- tive number to a single decimal point	Defines a value by which to increase or decrease the current value. A positive number increments the value. A negative number decrements it.

About spectrum set point bindings

This binding animates a widget's brush (color) property. You use it in conjunction with a spectrum binding to animate the Mid Color properties.

Figure 358 Spectrum set point binding properties

	1	
✿ Spectrum Setpoint Binding ×		
Ord	station: slot:/Logic/HousingUnit/VavZones/ 🚥	
Hyperlink	null	
Summary	%displayName% = %.%	
Popup Enabled	true	

Property	Value	Description
Ord	Chooser; defaults to null	Defines the location of the data value to bind to the widget. This is a required property for the widget to be bound.
Hyperlink	Chooser; defaults to null	Links to another object. When used, the link is active in the browser or in the graphic view.
Summary	Chooser; defaults to %displayName %=%.%	Specifies a display name for the widget as text or by means of a script.
Popup Enabled	true (default) or false	Specifies if a secondary window is to open when a user clicks this label in a browser or the graphic view.

Relative and absolute bindings

ORDs can define an absolute path to a specific device point or a relative path that identifies the same point in multiple stations.

Figure 359 Absolutely bound ORDs and relatively bound ORDs



An absolute Ord, such as: station: |slot:/Logic/HousingUnit/AirHandler/DamperPosition defines the absolute path to a single unique DamperPosition regardless of where the Graphic file or the parent component is located. If the same Graphic file is attached to a view that belongs to a different component, this absolute path ensures that the value always resolves to the original component.

A relative Ord, such as station: |slot:DamperPosition resolves relative to its current parent. This relative path makes the Graphic file resolve data bindings correctly to identically named components that reside in different locations, thus making one Graphic file usable in many views.

About action bindings

This binding invokes an action on the binding target component when an event is fired by the parent widget. The ORD of an action binding must resolve down to a specific action within a component. Examples of actions include: active, inactive, override, and other commands.

Figure 360 Action Binding properties

🔹 Action Binding 🛛 🛛 🗙		
Ord	station: slot:/Logic/HousingUnit/Airl	
Widget Event	actionPerformed	
Action Arg		

Property	Value	Description
Ord	Chooser; defaults to null	Defines the location of the data value to bind to the widget. This is a required property for the widget to be bound.
Widget Event	drop-down list	Defines the action to perform on the binding of the target component when an event is fired by the parent widget.
Action Arg	read-only	

View Graphic

This view represents the inside of a building.





You access this view from the Graphics view by double-clicking the Display Name record in the Graphics view

or by selecting the record and clicking the View Graphic button (\Box) .

You create custom graphics using the Graphics Editor view. Graphics can contain controls, links, and indicators related to building access and automation system controls. Graphics may be designed specifically for one of two Target Media: HxPxMedia or WorkbenchPxMedia.

Graphic Editor view

The Graphic Editor view provides a three-dimensional canvas and properties, which you use to set up the graphic.



You access this view from the main menu by clicking **Controller (System) Setup** \rightarrow **Miscellaneous** \rightarrow **Graphics** \rightarrow **Graphics Management** followed by clicking the New button () or selecting an existing graphic and clicking the Graphic Editor button ()

About the Graphic Editor canvas

The canvas is the largest area of the editor. It defines the visual boundaries of the graphic page and serves as your work area for previewing the graphic file as you develop it using the tools in the Graphic Editor.

You place widgets on the canvas and edit them and bind data to them using one or more of the side bars and additional windows, which are documented elsewhere. Most of the time, the canvas provides a live view of any widgets you add-without having to return to the Graphic Viewer. However, some graphic features may only appear in the Graphics Viewer.





The Canvas has the following optional work aids:

- The grid provides a visual aid for graphical alignment. The grid lines display vertical and horizontal lines as well as define the visible area of the page.
- Hatching is an area of light-gray diagonal lines that define the boundaries of items that are placed on the canvas.
- View area

The view area is defined by the **View Size** property in the **Canvas** pane property pane. Visually, the view area is defined by the grid that displays in the editor only. The Graphic viewer clips off any part of the graphic that appears outside of the view area (when you select the view under the **Console** node of the navigation tree.

Property	Value	Description
Background	drop-down list for . png file	Selects the image of your facility to use as the background.
Enabled	drop-down list, de- faults to true	Starts the functioning of components that make up the graphic.
Halign	drop-down list, de- faults to Center	Aligns the background image horizontally.

Property	Value	Description
Scale	drop-down list, de- faults to None	Increases and decreases the background image proportionally.
Valign	drop-down list, de- faults to Center	Aligns the background image vertically.
View Size	Chooser	Defines the dimensions of the background graphic.
Visible	drop-down list, de- faults to true	Turns the graphic view on and off.

About Graphic Editor objects (widgets)

These objects, called widgets, represent the information to visualize in the graphic. Configuring widget properties defines the features, behaviors and appearance characteristics of widgets.

You view these properties when you right-click the canvas and select a bound label.

Figure 364 Widget properties



Property	Value	Description
lmage	chooser (defaults to null)	Selects an image to include in the graphic.
Layout	chooser (pixels)	Defines the size of the graphic in pixels (picture elements).
Mouse Over	drop-down list (de- faults to None)	Selects what to do when passing the cursor over the graphic.
Padding	chooser (defaults to zero (0))	Defines space around the graphic.
Text	ORD	Identifies the location in the station of a text file.
Text Icon Gap	number (defaults to 4.0)	Defines the distance between the selected icon and the text box that describes it.
Text to Icon Alignment	drop-down list	Defines horizontal alignment: Right, Left, Center
Valign	drop-down list	Defines vertical alignment: Top, Bottom, Center

About the Graphic Editor toolbar

This collection of buttons at the top of the view includes the **Save** and **Undo** buttons, as well as several other context-sensitive graphic alignment and drawing tools. Toolbar functions vary depending on the context. When you first open the **Graphic Editor** view to create a new graphic the following tools are available.

Figure 365 Default Graphic Editor Toolbar buttons



- 🖬 Save saves the graphic in the station database.
- Undo and Redo perform the tasks their names imply.
- Right side bar menu opens a drop-down menu of side bar options for the Graphic Editor.
- Alignment options align the selected widgets and objects at their left, right, top and bottom edges.
- The To Top and To Bottom icons adjust the position of object in relationship to each other.
- Select activates the pointer tool for selecting objects.
- Add Polygon adds a square, rectangle, etc.
- Add Path allows you to draw free-form lines.
- Add Point adds a point on a line or to a polygon.
- Delete Point removes the selected point from a path or polygon.

About the side bar pane

This pane appears on the right side of the view pane when **Show Side Bar** is selected from the Pane menu on the Graphic Editor Toolbar. Use this menu to hide or display individual side bars and to show or hide the Graphic Editor side bar pane. The side bars provide the properties for creating graphics.

Figure 366 Graphics side bar

- Bound	Ords						1
					/	A∃ A∃	I
							I
							I
							I
- Widget	Tree						I
		5			▼	а.	I
-	CanvasPan	e (Content)				^	I
	Q VideoZ	oomSlider [null]				1
	Video P	layer [null]				-	1
▼ Px Pro	perties						I
					€	×	I
Value						Ę	I
							1
• Px Lay	ers						I
					Ð	×	I
Statu	IS					Ę	I
• Proper	ties					-7	I
video Blaveo	cico			÷.	A I	=	1
videoPlayer			0		Z↓	•+	1
▲ video Play	er Inherit fror	n stream				-	1
backgroundC							I
compression	Medium				T	-	I
enabled	true				-i	-	I
frameRate	Low				T	-	I
layer					T	-	
	250.0.200.0			_		1 -	
			x1	.0	892,	236	

- The Bound ORD side bar lists all the bound ords in the current graphic. An ORD is the path to the data, which the graphic displays.
- The Widget Tree displays the hierarchy of widgets (panes, labels, graphic elements, and so on) in the current Px view.
- Px Properties relate to the specific widget.
- Px Layers group objects in the Px Editor.
- Properties populate based on the type of widget.

Graphic Editor pop-up menu - available video cameras

This popup (right-click) menu includes context-sensitive menu items.

New	•	A Blank Label	
X Cut	Ctrl+X	Base Reader Module	Camera 1
Copy	Ctrl+C	Video Cameras	AxisCamera185 (Live View)
R Paste	⊂trl+V	Video P× Widgets	Camera 1 (Live View)
Duplicate	Ctrl+D	14:3/:32.	🔲 🚯 Camera 1 (Playback View)
🗙 Delete	Delete		Camera 2 (Live View)
Edit Despecti			🛛 🚯 Camera 2 (Playback View)
Euic Properti	55		A A A A A A A A A A A A A A A A A A A
			SFA CON
Reorder			
Select			
Border			
To Preferred			
100000000000000000000000000000000000000	11222-10220000000		
			DOME : 01
			200 0028 3
			200. 020. 0
			A 88
1 3/3/2 //////			

Figure 367 Graphic Editor popup menu - available video cameras

Figure 368 New menu items

Menu item	Description
Blank Labels	Selects a standard Px label widget, which you use to annotate the graphic.
Base Reader Module, Remote Reader Module	These menus are context sensitive and list widgets that represent the devices available under each module. Adding one to the graphic adds a repre- sentation of the device to the graphic.
Video Cameras	This list of widgets represents the camera(s) con- nected to your Supervisor PC or subordinate con- troller. Each widget is labeled in the menu to indicate that the device it represents is either used to play back prerecorded video or to display live video. The playback icon also identifies playback widgets in the menu.
Video Px Widgets	A Supervisor station can support local or remote video graphics (using Px) and have them served by cameras that are attached to remote stations under the Supervisor's NiagaraNetwork. The following Px widgets support remote video:Live Video Player- Control PanelPan Tilt JoystickZoom SliderCamera WidgetMouse Down WidgetVideo Multistream Pane

Refer to the "Video installation" chapter in the *Niagara Enterprise Security Installation and Maintenance Guide* for more about video devices and video.

Example: new Base Reader

The following is an example of the popup menu, Base Reader menu items.

Figure 369 Graphics Editor popup menus

	New	Þ	A Blank Label			
X	Cut	Ctrl+X	Base Reader 🛛 🕨	🗛 Base Reader		
Ch-	Сору	Ctrl+C	Remote Input Output2 🕨	🗛 door1 🔪		 E: Widget Tree
A	Paste	Ctrl+V	Remote Reader3 🛛 🕨	🗛 di1 🗟	\leq	ScrollPane (Root)
Ch	Duplicate	Ctrl+D	Remote Reader4 🛛 🕨	A di2		BorderPane (Content)
×	Delete	Delete		A di3		CanvasPane (Content)
				A sdi1		A BoundLabel [station:
EØ	Eule Propercies			🗛 sdi2		BoundLabel [station:
	Align	•		A sdi3		BoundLabel [station:
	Reorder			A sdi4		
	Select	►		A sdi5		() Idoor
	Border	•		A sdi6		
	Size To Image		(B100)	A rol		- El Brenerties
						 By Properties
				A roz		CanvasPane
				A ro3		★ Canvas Pane
				A ro4		Background (image)

The popup menu also provides many other context-sensitive commands, including the ability to add a border pane to a selected object.

NOTE: If you add a door that is in an alarm condition, by default, the door blinks until the door is out of alarm and the alarm is acknowledged.

Images view

This view lists all the images available on the local station. These images are the artifacts to make the graphic look like your building. You can have a graphics artist draw these artifacts.

Figure 370 Images view

🚰 Home	óo Monitoring	La Personnel	Reports	🖑 Controller Se
📰 Schedu	ıles 🛛 🔱 User Ma	anagement 🎼 🛛	Backups 💣	Remote Devices
		*		
Image Previe	w File N	lame		Size
æ	file:^i	images/Acknowledge2	2.4.png	0k
	file:^j	picture/Refresh2.4.pn	g	1k
<				>

This view displays when you select **Images** from the **Controller (System) Setup→Miscellaneous→Graphics** from the main menu.

Buttons

The control buttons at the top of the view provide standard controls, including an Add control button (()) at the top of the view for adding a new image.

Columns

Column	Description
Image Preview	Provides a thumb-nail view of the image.
File Name	Identifies the name of the image file.
Size	Indicates the size of the image file.

Add New Image view

The properties in this view provide a way for you to add image files to a designated location on the controller (an images folder, by default). Images that are loaded on the controller are available for use in graphic views.

Figure 371 Add New Image view

🔒 Save	🙆 Images	
File Path	^picture	

File to Upload C:\Users\H277129\Documents\Rashmi Pokh: Browse...

Property	Value	Description
File Path	file path (de- faults to ^images)	Defines the folder under the station for storing uploaded im- age files. The ^ character specifies the station root directory. If you change the file path, the station creates the directory on the controller at the designated location.
File to Upload	File chooser	Provides a way to browse to and select the desired image for transferring to the controller.

Display Image view

This view displays when you click the Hyperlink control button ()) in the Images view. The view displays the file path as the view title directly above a link to the Images view. The single, selected image displays in the view.



1

Navigation Groups view

Nav Groups are custom menu items used to collect and organize graphic views. Once a nav group is created, you may assign child views to the group.

Figure 373 Navigation Groups view

😚 Home 🛛 ốơ M	onitoring 🔒 Personne	el 📄 Reports	Controller Setup	A Threat Levels	niag
📕 Schedules	👗 User Management 🛛 🛙	🖻 Backups 💣	Remote Devices 💣 A	ccess Setup 🛛 💣 In	trusion Setu
0					
Display Name A	Nav	Name	Parent Path	Ind	lex
🛅 Daily Reports	Daily	/ Reports	1	0	
🛅 Welcome Guest	Wele	come Guest	1	0	
🛅 test	test		/monitoring	0	
<					>

You access this view by expanding **Controller (System) Setup→Miscellaneous→Graphics** and clicking **Navigation Groups**.

A nav group displays in the menu under its assigned parent. This view displays a table of all the navigation groups that are available on the local station. This view is also where you initiate the process of adding a new navigation group using the Add control button at the top of the view.

Add New (or edit) Nav Group view

This view configures Nav group properties.

Figure 374 Add New Nav Group view

🖬 Save 🔯 Nav Groups				
Nav Group				
Nav Name				
Display Name				
Parent Path	Home 🗸			
Icon	module://icons/x16/folder.png			
Index	0			

You access this view from the main menu click **Controller (System) Setup→Miscellaneous**, expand the **Graphics** menu and click **Navigation Groups**.

Property	Value	Description
Nav Name	text	Defines an identifier for the nav group. This name appears in the menu if no Display Name is specified. You may want to use this property for a design-logical name and use the Display Name as a more user-friendly name.
Display Name	text	Defines a name that describes the event or function.
Parent Path	drop-down list	Defines where in the hierarchy to place a new menu item. A hi- erarchy of options matches the current navigation structure. You can choose the menu or submenu here to specify where, in the overall system navigation hierarchy, to place your new menu item. For example, to place a menu item under the Remote Devices submenu, choose the Remote Devices option in this property.
lcon	file path	Assigns an appropriate icon to the menu view for the nav group. This requires that you point to an existing icon in your For example, using the following path: module://icons/x16/ folder.png displays a folder icon in a new nav group menu .
Index	number	Defines where, in the parent to display this menu item. The first position (from left to right, or top to bottom) is "0", then "1", "2", and so on.

Chapter 14 Threat Levels

Topics covered in this chapter

- Threat level groups view
- Add New (or edit) Threat Level Group view
- Threat Level Setup view

A threat level defines a range of operational values (threat levels) related to overall building security. Threat level groups define facility spaces for the purpose of managing perceived threats.

Threat level groups view

This view displays a table that contains the currently-configured Threat Level Groups. Using this view you assign access rights and activation badges to a specific Threat Level Group.

Using this view you assign access rights and activation badges to a specific Threat Level Group. On the **Threat Level Group** tab, you set up the **Default Access Right Threat Level**.

Figure 375 Threat Level Groups view

🚰 Home 🛛 ốơ Monitoring	A Personnel Reports Ontroller Setup	A Threat Leve	Is NIAGATA		
A Threat Level Groups A	Threat Level Setup				
Threat Level Group Name	Path 🔥	Active Level	Default Access Right Th		
Acme Master Threat Level Group	/Acme Master Threat Level Group/ Low [0] Normal [5]				
Bldg.1-Threat Level Group	/Acme Master Threat Level Group/Bldg.1-Threat Level Group/ Low [0] Normal [5]		Normal [5]		
Bldg.2-Threat Level Group	/Acme Master Threat Level Group/Bldg.2-Threat Level Group/	Low [0]	Normal [5]		

<

To open this view, expand the Threat Levels node in the menu and click Threat Level Groups.

Buttons

You edit threat level hierarchy relationships using the following control buttons:

- O Add opens the Add New Threat Level Groups view.
- 📱 Show Top Level filters the table to display only parent Threat Level Groups.
- 🙆 Go into shows just the selected Threat Level Group and its children in the Threat Level Groups view.
- Image: Create child opens the Add New Threat Level Group window for the purpose of creating a Threat Level Group that is automatically assigned as a child to the selected group.
- Description Move transfers the selected child Threat Level Group to a different parent. The Move window has one property: **New Parent**. You use this Ref chooser to locate the new parent.
- Image: Hyperlink links to the edit view or window for the selected item. It is the same as double-clicking the table row.
- Activate Threat Level turns on the state of emergency.

• B Retrieve Active Status confirms that the threat level has been activated.

Columns

Column	Description
Threat Level Group Name	Identifies the purpose of the group.
Path	Shows where the Threat Level Group is located in the .overall pa- rent-child hierarchy of Threat Level Groups.
Active Level	Indicates the current threat level.
Default Access Right Threat Level	Each Threat Level Group has a default access right. This column shows the current assigned access right for each displayed group.
Tenant Name	Identifies the Tenant(s) associated with the displayed Threat Lev- el Group.

Threat Level Group filter

This filter sets up criteria to search the system database for specific threat level groups.

Figure 376 Threat Level Groups filter

Filter			
Threat Level Group Name	%	Must Include	✓ ✓ Case Sensitive
Path	%	Must Include	✓ ✓ Case Sensitive
Active Level			
Default Access Right Threat Leve	el 🗌		
Tenant Name	%	Must Include	✓ ✓ Case Sensitive
	Ok Cancel		

Criterion	Value	Description
Threat Level Group Name	wildcard	Defines the name(s) to search for.
Path	wildcard	Defines the URL to search.
Active Level	Enums chooser (default to: High, Normal, Low or Default)	Opens a window for selecting the threat level.
Default Access Right Threat Level	Enums chooser (default to: High, Normal, Low or Default)	Opens a window for selecting the default threat level to asso- ciate with the access right.
Tenant Name	wildcard	Defines the tenant name.

Activate Threat Level window

You activate a pre-configured threat level when an action is required to isolate or otherwise control an active threat.
Figure 377 Activate Threat Level window

Filter	Enums		
Threat Level Group Nam		ust Include	✓ ✓ Case Sensitive
🗆 Path	High [10]	ust Include	✓ ✓ Case Sensitive
✓ Active Level	Normal [5]		
Default Access Right Thr	Low [0]		
Tenant Name	Default	ust Include	✓ ✓ Case Sensitive
	Ok Cancel		

The drop-down list levels default to:

- Low [0]
- Normal [5]
- High [10]

To customize your configuration, you can add your own levels.

Retrieve Active Level Activation Status window

This feature refreshes the status of the threat level that is mapped to the remote station.

Figure 378	Retrieve Threat	Level Activation	Status window
------------	-----------------	------------------	---------------

Retri	Retrieve Threat Level Activation Status					
0	Success Hide Details					
	Status	Timestamp	Message			
	Success	01-Nov-16 2:23 PM EDT	Job Success			
		Ok Export				

To access this window you select a threat level group in the **Threat Level Groups** view and click the Retrieve Active Status button (⁽²⁾).

 Table 76
 Retrieve Threat Level Activation Status table columns

Column	Description		
Status	Indicates the result of the action.		
Timestamp	Indicates when the action occurred.		
Message	Provides a short description of the action.		

Add New (or edit) Threat Level Group view

This view manages threat level groups.

Figure 379 Add New Threat Level Group view

🚮 Home	ốơ Monitoring 💊 P	ersonnel 📄 Report	s 🖗 Controlle	er Setup			
🛕 Threat	Level Groups 🔒 Threa	at Level Setup					
🔚 Save	🖬 Save 🔯 Threat Level Groups						
Display Na Parent	Threat Level Group2	»					
Summary	Threat Level Group	Activation Badges	Access Rights			
Active Level Low [0] Default Access Right Threat Level Low [0] ~ Active Ordinal 0							
Tenant		None >>					

To open this view, click the Add button on the Threat Level Groups view.

Links

- Save updates the station database with any changes made to threat level properties.
- Threat Level Groups returns to the Threat Level Groups view.

Buttons

These buttons support threat level group configuration:

- 🖬 Save updates the database with the current information.
- Difference of the Interest Level Groups view.
- Activate Threat Level opens a drop-down list of threat level group options. Choosing one of these options, followed by clicking **Ok** turns the threat level on.

Figure 380 Activate Threat Level window



• Active Active Status initiates a system-wide job to determine what the active level is on all threat level groups across all controllers. The job returns a "Threat Level Mismatch" message if it finds a mismatched threat level group on a subordinate or peer station in the enterprise.

NOTE: If any station was down at the time of a threat level change activation, that station has a mismatch. This process identifies any station that is currently down or has a mismatched threat level group.

- Manage Devices/Drivers opens the Manage Drivers or Manage Devices window, which is used to Add, Delete, Rename, Duplicate, Copy, and Cut system drivers or devices.
- B Add Child initiates creation of a new threat level group that you can assign as a child to the group you are editing.

NOTE: You cannot cancel threat level jobs, such as Activate Threat Level and Retrieve Active Status, from the browser once they are started.

Properties

Property	Value	Description
Display Name	text	Defines a name that describes the event or function.
Parent	Ref Chooser	Provides a read-only display of any threat level group that is assigned as a parent group to the group that you are creating. The navigation arrows at the right side of the property open a Ref Chooser window for browsing, choosing and assigning a parent from existing groups.
Active Level	read-only	Displays the active (current) threat level setting for the threat level group. There can be only one active threat level per group, however, different groups may have different active threat levels.
Default Access Right Threat Level	drop-down list	Selects the threat level to associate with a card holder by de- fault when an access right using this threat level group is as- signed to a card holder. With the threat level group assigned to an access right, you can edit this default level value without having to change the assignment on the access right.
Active Ordinal	read-only	Displays the active (current) threat level as an integer. Ordinals are the characteristic identifiers that are paired with string identifiers that can be edited. These are called tags in enumer- ated data types where there is a discrete range of values. This ordinal is displayed [in brackets] next to the threat level display text (tag) in other properties.
Tenant	optional Ref Chooser	Defines the company name of the associated tenant.

Summary Tab

This tab displays information about the selected threat level group and indicates current active level and default access right level.

Figure 381 Threat level group summary

🔚 Save 🔯 Threat Level Group	🔜 Save 🔯 Threat Level Groups 🔺 Activate Threat Level 🔔 Retrieve Active Status 🛷 Manage Devices 🔳 Add Child					
Summary Threat Level Group	Activation Badges	Access Rights				
🗥 Threat Level Group	Threat Level Group					
Type:	🚹 Threat Level Group					
Threat Level Group Name:	Threat Level Group					
Path:	/Threat Level Group/					
Active Level: Low [0]						
Default Access Right Threat Level: Normal [5]						
Tenant:						
Hierarchy						
Threat Level Group						

Some properties are not populated until you save the group. In the edit threat level group view, these properties display current information, including links to the appropriate edit view for a specific piece of information. For example, Hierarchy, Remote Stations, and Activation Badges properties display as links.

Property	Description	
Туре	Identifies the record type. In this case it is a threat level group.	
Threat Level Group Name	Displays the name of the group.	
Path	Identifies the location of the group in the station.	
Active Level	Reports the current group level.	
Default Access Right Threat Level	Reports the normal level for the group when it is activated.	
Tenant	Identifies the tenant for whose location uses this threat level group.	

Activation Badges tab

This tab provides standard assign-mode controls for adding existing activation badges to the new threat level group. An activation badge is the badge assigned a person who is responsible for activating the threat level group.

Figure 382 Activation Badges tab

🔚 Save 🔯 Thre	at Level Groups	Activate Threat	Level 🔔 Retrieve Active Status	Manage Devic	es 🖪 Add Child)		
Summary Threat	Level Group Activ	ation Badges	Access Rights					
Assigned								
0)						
Credential ∧	Facility Code	Description	Wiegand Format Name	Status	Last Name Fi	rst Name	Tenant Name	Active Threat Level

To access this tab in a Supervisor station click **System Setup→Threat Level Groups**, double-click a group row in the table, and click the **Activation Badges** tab.

You access this tab on remote controllers only when you use the **Manage Devices** button to add an activation level input device.

Column	Description		
Credential	Reports the sequential number assigned to the badge. The card reader uses this number to validate access.		
Facility Code	Identifies the physical building, organization or campus where the badge may be used.		
Description	Indicates the type or purpose of the badge.		
Wiegand Format Name	Identifies the wiring standard for the card reader.		
Status	Reports the current condition of the entity as of the last refresh: {alarm}, {disabled {down}, {fault}, {ok}, {stale}, {unackedAlarm}		
Last Name	Identifies the family name of the badge holder.		
First Name	Identifies the given name of the badge holder.		
Tenant Name	Reports the name of the associated tenant.		
Active Threat Level	Displays the currently-active threat level.		

 Table 77
 Activation Badges table columns

Access Rights tab

This tab provides standard assign-mode controls for adding access rights to the new threat level group.

Figure 383 Access Rights tab

🔚 Save 🕻	Threat Level Groups	Activate Threat	: Level 🔔 Retri	ieve Active Status 🔗 Manage D	Devices Add Child	
Summary	Threat Level Group	Activation Badges	Access Rights			
Assigned						
Access Righ	ht Name ∧	Schedule I	Name	Integration Name	Tenant Name	Threat Level Group Name

To access this tab in a Supervisor station click **System Setup→Threat Level Groups**, double-click a group row in the table, and click the **Access Rights** tab.

This tab is available on remote controllers only when you use the **Manage Devices** button to add an activation level output device.

Table 78	Access rights tab table columns
----------	---------------------------------

Column	Description
Access Right Name	Identifies the title of the access right associated with the entity.
Schedule Name	Reports the name of the associated schedule (if any).
Integration Name	Reports the name of the associated integration ID The system performs build- ing automation actions, such as turning the lights on, associated with this type of ID.
Tenant Name	Reports the name of the associated tenant.
Threat Level Group Name	Reports the name assigned to this threat level group.

Remote Stations tab

This tab provides standard assign-mode controls for adding remote stations to a threat level group.

Figure 384 Remote Station tab



To access this tab in a Supervisor station click **Threat Levels**→**Threat Level Groups**, double-click a group row in the table, and click the **Remote Stations** tab.

Column	Description
Display Name	Reports the station name, which is usually its IP address.
Status	Reports the current condition of the entity as of the last refresh: {alarm}, {disabled}, {down}, {fault}, {ok}, {stale}, {unackedAlarm}
To Display Path String	Reports the system path to the remote station. For example: /Drivers/Niagara/MyStation1.

 Table 79
 Remote Stations table columns

Threat Level Setup view

This view and tab (Threat Level Setup) creates, edits, or deletes threat levels. Using this view you create your own customized threat level system.





activationFailureAlarm Alarm Source Info >>

To access this view/tab, click **Threat Levels**→**Threat Level Setup**.

The view has a **Save** control button at the top of the view area and a **Threat Level Setup** tab with two main areas that contain properties to configure.

Activation alert and alarm links

The chevrons to the right of these properties access alarm properties to configure for each type of threat level situation.

- An Activation Initiated Alert configures the alarm to generate when your an authorized person swipes a threat level group activation badge.
- An Activation Failure Alert configures the alarm to generate when an authorized person swiped a threat level group activation badge, but the system was unable to activate the group.
- An Activation Complete Alert configures the alarm to generate when an active threat level group is no longer needed.
- An Activation Mismatch Alert relates to a database replication scenario where the current activeLevel of a Threat Level group does not match the activeLevel of the Threat Level group in the database that is being replicated.
- An activationFailureAlarm generates when an activating a threat level fails to activate or has a problem activating.

Each activation alert and activation failure alarm provides a set of identical properties, which are documented in a separate topic.

Threat Level Range table

This table sets up building access based on the current threat level. For example, in a range from zero (0) to five (5), a person assigned to level three (3) would have access to a specific location when threat levels 0 through 3 are active, but would not have access to the same location when levels 4 and 5 are active. This range defines the meaning of each level from least significant (0) to most severe (10).

Two buttons support the configuration of threat level ranges:

- O Add opens the **Add** window for creating a new threat level.
- 🕑 Edit opens an edit window for changing a selected threat level's properties.

The table summarizes the configured thread levels.

Column	Description	
Level	Assigns an arbitrary number to create a threat level.	
Name	Provides a description of the level.	

Activation alerts

These alerts configure alert properties for the following threat level activation states: Activation Initiated, Activation Failure, Activation Complete, Activation Mismatch. Each **Alarm Source Info** property expands by clicking the icon to the right of the property to display a list of additional properties as follows.

Alerts monitor data sources which, when true, indicate there is an issue that requires attention. For Alerts, there is no "toNormal" transition.

Figure 386 Alarm Source Info adapted to threat levels

🚰 Home 🛛 ốơ Monitoring 🧣	Personnel Report	s 👹 System Setup	A Threat Levels
A Threat Level Groups A Th	nreat Level Setup		
ave Save			
Threat Level Setup			
Activation Initiated Alert	Alarm Source Info »		
Activation Failure Alert	Alarm Source Info »		
	Alarm Source Info ≽		
	Alarm Class	High]
	Source Name	%parent.displayName%	
	To Fault Text		
	To Offnormal Text		
	To Normal Text		
Activation Complete Alert	Hyperlink Ord	yperlink Ord null	
	Sound File	null	
	Alarm Icon	null	
	Alarm Instructions	🝺 Edit	
	Meta Data	Edit [No configured facets]	

Activation Mismatch Alert Alarm Source Info »

To open this tab from the main menu, click expand **Threat Levels**, click **Threat Level Setup** and click a chevron (>) to expand a set of Alarm Source Info properties.

Property	Value	Description
Alarm Class	drop-down list	Specifies the alarm routing options and priority when this threat level is activated.
Source Name	text	Displays the name of the entity that generated this alarm. For threat level management, this text can identify the threat level that was activated.
To Fault Text	text	Defines the text string that appears on the Alarm Console when this threat level is activated.
To Offnormal Text	text	Defines the text to display when the threat level transitions to an alarm state.
To Normal Text	text	Defines what to display on the Alarm Console when the threat has passed and is no longer active.
Hyperlink Ord	Ord, BQL query or file path	Defines the Ord, BQL Query or path to another location. A threat level alarm sent to the console activates the Hyperlink button. Clicking this button can transfer an operator to addi- tional information at this location.
Sound File	file path	Defines the path to a sound file that executes when the threat level is activated. In Wb Web Profile mode (non Hx mode) you can browse to the file to use, and click an arrow icon to the right of the folder icon to test the path that you entered.
Alarm Icon	file path	Defines the location of a graphic file to add to the timestamp column of the alarm table in the Console Recipient view.
Alarm Instructions	Edit button	Provides end-user instructions when this threat level is activated. Click the Edit button to open the Edit window for working with alarm instructions.
Meta Data	text	Provides additional information about the source of the threat.

Add (or edit) threat level window

This window adds new threat levels and edits existing threat levels.

Figure 387 Add threat level window

Add	
Level Name	
Ok Cancel	

You access this window from the main menu by clicking **System setup** \rightarrow **Threat Levels** \rightarrow **Threat Level Set-up**, and clicking the add button ((\bigcirc)).

Property	Value	Description
Level	number (0-255) (defaults to 0 = Low, 5 = Normal, and 10 = High)	Defines a number to indicate the seriousness of the threat con- dition. You decide
Name	text	Assigns a descriptive name to the level.

Edit instructions window

This window edits threat level instructions.

Figure 388	Edit alarm	instructions	windows
------------	------------	--------------	---------

Edit	
Verify followed procedure	
	Add
Edit	Edit
Verify followed procedure	Delete
Ok Cancel	Move Up
	Move Down
· · · · · · · · · · · · · · · · · · ·	
Ok Cancel	

To access this window from the main menu, click **Threat Levels** → **Threat Level Setup**, expand an activation alert and click the **Edit** button next to **Alarm Instructions**.

Edit metadata windows

These windows add a Facet Key, which is another name for metadata associated with the threat level. Metadata provide additional information associated with the threat level alert.

Figure 389 Edit alarm metadata window

Edit		
Facet Key JallowNull	Facet Value true false	O Add O Delete
	Ok Cancel	

You access these windows from the main menu by clicking **System Setup→Threat Levels→Threat Level Setup**, expanding an activation alert or alarm and clicking the Edit button to the right of the Meta Data property.

Chapter 15 LDAP network driver views, tabs and windows

Topics covered in this chapter

- LDAP Network view
- ♦ Ldap Server view
- ◆ LDAP Audit History view
- Periodic Purge Schedule

The tabs, views and windows that manage the interface between your system and an LDAP server function like the device management tabs, views and windows.

Included are these features:

- Attribute discovery
- Attribute mapping to system properties
- The ability to ping the LDAP server.
- Import from the LDAP server

A standard network driver added to the **Remote Drivers** view provides these LDAP functions.

LDAP Network view

This tab shows standard properties for the LDAP Network driver.

Figure 390 Ldap Network view with Ldap Network tab

🔚 Save 🔯 Drivers		
Ldap Network	LdapServers	
Status	{ok}	
Enabled	false 🗸	
Fault Cause		
Health	Ok [05-Jul-18 6:24 PM IST]	
Alarm Source Info Alarm Source Info »		
Monitor	Ping Monitor »	
Tuning Policies	Default Policy Tuning Policy >>	

To access this tab, navigate to **Controller (System) Setup** →**Remote Devices**→**Remote Drivers** and double-click your LDAP network device driver row in the **Remote Drivers** view.

The view title, Ldap Network in this example (this name may be different in your system), displays in the top left corner above the **Save** and **Drivers** links.

LDAP Network tab

This tab turns the LDAP network on and off and reports network status. In addition to the standard properties (Status, Enabled, Fault Cause, Health, and Alarm Source Info), these properties support the Ldap Network.

Property	Value	Description
Ping Monitor	additional properties	Links to a set of properties for configuring the ping monitor (the mechanism for confirming the health of devices on the network). Refer to Ping Monitor, page 408.
Tuning Policies	additional properties	Links to a set of properties for configuring network tuning poli- cies (rules for write and read requests from polling). Refer to Tuning Policy, page 408.

Ping Monitor

Figure 391Ping Monitor properties

	Ping Monitor 📚	
Monitor	Ping Enabled true 🗸	
	Ping Frequency $+ \checkmark 00000$ h 05 m 00 s	5
	Alarm On Failure true 🗸	
	Startup Alarm Delay + ♥ 00000 h 05 m 00 s	5

Property	Value	Description
Ping Enabled	true (default) or false	Turns the use of the ping monitor on and off.
Ping Frequency	hours minutes seconds	Defines how frequently the system pings the server.
Alarm On Failure	true (default) or false	Controls whether or not the system issues an alarm when a ping fails.
Startup Alarm Delay	hours minutes seconds	Defines a waiting period before the system issues an alarm when the ping fails.

Tuning Policy

A network's tuning policy defines rules for when to write to a writeable proxy point, and how to determine the freshness of a read request from polling.

Figure 392 LDAP Network Tuning Policy properties

		Tuning Policy ≽						
		Min Write Time	00000	h	00	m	00	s [0 ms - +inf]
		Max Write Time	00000	h	00	m	00	s [0 ms - +inf]
Tuning Policies	Default Policy	Write On Start	true 🔻					
		Write On Up	true 🔻					
		Write On Enabled	true 🔻					
		Stale Time	00000	h	00	m	00	s [0 ms - +inf]

Property	Value	Description
Min Write Time	hours minutes seconds	Specifies the minimum amount of time allowed between writes to writable proxy points, thus providing a method to throttle rapidly changing values so that only the last value is written.
		A value of zero (0) disables this rule causing all value changes to attempt to write.
Max Write Time	hours minutes seconds	If nothing else triggers a write to a proxy point, this property specifies the maximum amount of time to wait before rewriting the value. Any write action resets this timer.
		The default (zero) disables this rule resulting in no timed rewrites.
Write on Start	true (default) or	Defines a writeable proxy point's behavior at station startup.
	false	true initiates a write when the station first reaches a steady state.
		false prevents a write when the station first reaches a steady state.
Write on Up	true (default) or false	Defines a writeable proxy point's behavior when the point and its parent device transition from down to up.
		true initiates a write when the transition occurs.
		false prevents a write when the transition occurs.
Write on Enabled	true (default) or false	Defines a writeable proxy point's behavior when its status tran- sitions from disabled to enabled.
		true initiates a write when the transition occurs.
		false prevents a write when the transition occurs.
Stale Time	hours minutes sec- onds (defaults to 0 (zero))	Defines the period of time without a successful read (indicated by a read status of {ok}) after which a point's value is consid- ered to be too old to be meaningful (stale).
		A non-zero value causes the point to become stale (status stale) if the configured time elapses without a successful read, indicated by Read Status {ok}.
		The default value (zero) disables the stale timer causing points to become stale immediately when unsubscribed.
		Do not configure an amount of time shorter than the poll cycle time. If you do, points will go stale in the course of normal poll- ing. Instead, set this time to be longer than the largest ex- pected poll cycle time.

Ldap Servers tab

This tab lists one or more Ldap server.

Figure 393 LdapServers tab

🚰 Home	60° Monitoring	A Personnel Rep	orts 💣 System Set	ıp 🛕 Threat L	evels	niagara
📰 Schedu	iles 🛛 🚨 User Man	agement 📑 Backups	Remote Devices	Access Setur) 💣 Intrusion Set	up 💣 Alarm Setup 💣 I
Save	Drivers					
Ldap Netw	ork LdapServer	s				
LdapServ	ers					
	0 🗷 🛃					
Display Na	ame ٨	Connection URL		Status	Enabled	Fault Cause
Ldap Serve	r	Idaps://example.com	:636	{down}	true	
<						>

To access this tab, click **System Setup→Remote Devices→Remote Drivers**, double-click your LDAP network device driver row in the **Remote Drivers** view, and click the **LdapServers** tab.

Control buttons

In addition to standard control buttons (Edit, Delete, Hyperlink, Filter, Refresh and Export), these buttons specifically apply to LDAP:

- I New opens a window with properties to configure the connection between your system and an LDAP server.
- Bing sends a command to the LDAP server to verify the connection.
- Definition of the server opens the Import Preferences window. You use this window to create a new database of personnel records or to completely replace an existing personnel database. A forced import deletes all existing records in the database.

WARNING: Do not click this button unless you intend to start from scratch.

Columns

	Table 80	LDAP	server	view	column
--	----------	------	--------	------	--------

Column	Description
Display Name	Indicates the name of the server.
Connection URL	Reports the LDAP server's domain address.
Status	Reports the current condition of the entity as of the last refresh: {alarm}, {disabled}, {down}, {fault}, {ok}, {stale}, {unackedAlarm}
Enabled	Reports if the function is turned on (true) or off (false).
Fault Cause	Reports the reason for an undesirable status.

New (and Edit) LDAP server window

This window contains the properties associated with each LDAP server. You use this window when you are setting up your system personnel database for the first time.

Figure 394 New LDAP server window

New	
_	
Display Name	LdapServer
Status	{ok}
Connection Host	localhost
Connection Port	10389
Enable TLS	false 🗸
Connection User	uid=admin,ou=system
Connection Password	•••••
Enable Connection Pooling	true 🗸
Initial Size	0
Max Size	10
Pref Size	0
Connection Timeout (in milli seconds)	0
Search Scope	Object Scope 🗸
Polling Interval	+ V 00000 h 05 m 00 .000 s
Ok	Cancel

You access this window when you click the New button (D) on the LdapServers tab. You access this view by clicking System Setup→Remote Devices→Remote Drivers, followed by double-clicking the LdapNetwork driver row in the table and clicking the LdapServers tab.

To edit the properties for an existing server, you select the server row on the **LdapServers** tab and click the Edit button ().

Property	Value	Description
Display Name	text	Defines the name of the server.
Status	read-only	Reports "Issueable" until the badge is assigned, then it may be Active, Disabled, Lost or Unknown.
Connection Host	URL	Defines the URL to the LDAP server. The location may be on the same computer or elsewhere available on an intranet or the Internet.
Connection Port	number (defaults to 636)	Defines the port over which the computer communicates with the server.
Enable Connection TLS	true or false (default)	Selects secure transmission and identity verification using the TLS protocol. Do not change this value unless you are confident of what you are doing. Changing this value could open the system to hackers.
Connection User	text	Defines the LDAP server attributes for the system administrator.
		uid=admin is an example of the distinguished name for this user.
		dc=com is the user parent class.
Connection Password	text	Defines the password the LDAP server requires for this user.
Enable connection Pooling	true (default) or false	Enables and disables the use of a connection pool. To speed processing, LDAP servers maintain a pool of connections. A re- quest from the system that uses an existing connection saves valuable processing time, which improves system

Property	Value	Description
		performance. Do not change the default (true = enabled) set- ting unless you know what you are doing.
Initial Size	number (defaults to 0)	Defines the number of pooling connections.
Max Size	number (defaults to 10)	Defines the maximum number of connections to the LDAP server that the system supports concurrently.
Pref Size	number (defaults to 0)	Defines the preferred number of connections to the LDAP server that the system supports concurrently.
Connection Timeout	milliseconds	Defines the number of milliseconds that an idle connection may remain in the pool without being closed and removed from the pool.
User Search Base	text	Defines where to start searching for personnel in the LDAP server hierarchy.
		ou stands for organizational unit.
		dc stands for domain controller.
		dn stands for distinguished name. This name both uniquely identifies an entry in the LDAP database and describes its posi- tion in the hierarchy.
User Search Filter	text	Defines the objectClass (metadata) associated with each per- sonnel record that identifies it as a personnel record versus a system or other record type in the server database.
Search Scope	drop-down list	Defines how much of the User Search Base to actually search:
Polling Interval	plus or minus hours minutes and seconds	Defines how frequently to poll the LDAP server.

Import Preferences window

This window configures how to import data from the LDAP server. You use this window when you are setting up your system personnel database for the first time, or, if you would like to discard the records in the database and start again from scratch. This window initiates a "forced import." By its nature, a forced import deletes all existing personnel records that correspond to the particular LDAP server and retrieves the entire data set again.



Import Preferences				
The following configurations are used for Ldap Import				
User SearchBase				
User SearchFilter	(objectclass=*)			
Search Scope	Object Scope			
Group Attribute				
Allow New InactiveUsers	true 🗸			
Status Attribute				
Active Status Values (Comma Seperated)				
Ok Cancel				

This window opens when you click **System Setup→Remote Devices→Remote Drivers**, followed by doubleclicking the LdapNetwork driver row in the table.

Another way to open this window is to click the **Import** button on the **Ldap Server** view. You access this view by clicking **System Setup**→**Remote Devices**→**Remote Drivers**, followed by double-clicking the Ldap-Network driver row in the table, clicking the **Ldap Servers** tab, selecting the server, and clicking the Force Import from LDAP Server button (²⁶).

Property	Value	Description
User SearchBase	text	Defines where to start searching for personnel in the LDAP server hierarchy.
		ou stands for organizational unit.
		dc stands for domain controller.
		dn stands for distinguished name. This name both uniquely identifies an entry in the LDAP database and describes its position in the hierarchy.
User SearchFilter	text	Defines the objectClass (metadata) associated with each per- sonnel record that identifies it as a personnel record versus a system or other record type in the server database.
Search Scope	drop-down list	Defines how much of the User Search Base to actually search:
Group Attribute	text	Defines the LDAP server attribute that provides the LDAP group Distinguished Name. Each LDAP user belongs to a group.
Allow New Inactive Users	true (default) or false	Indicates that users may be added before they are activated in the system.
Status Attribute	text	Reports LDAP user status: active or inactive.
Active Status Val- ues (Comma Separated)	text values, comma separated	Defines a list of values, which indicate a valid user status. This list is specific to your organization's personnel policies.

Ldap Server view

This view and tab configures LDAP server properties.

Figure 396 Ldap Server view and tab

🚰 Home 🛛 ớơ Monitoring	Personnel Reports System Setup			
📄 Schedules 🛛 👗 User N	lanagement 📭 Backups 💣 Remote Devices 💣 Acc			
🔚 Save 🔣 Ping 🏄	Import 🔯 Ldap Network			
Ldap Server Attributes	Groups			
Status	{down}			
Enabled	true 🗸			
Fault Cause				
Health	Fail [25-Jul-18 1:11 PM EDT] example.com:636			
Alarm Source Info	Alarm Source Info »			
Ldap Connection Ldap Connection »				
Vendor Name				
Vendor Version				
Supported L D A P Version	3			
User Search Base	»			
User Search Filter	(objectclass=*) »			
Search Scope	Object Scope 🗸			
Polling Interval	000 d 00 h 05 m 00 s [5mins - +inf]			
Periodic purge schedule	2:00 AM {Sun Mon Tue Wed Thu Fri Sat}			
LdapImportConfig	Ldap Import Config »			

To access this view, click**System Setup** →**Remote Devices**→**Remote Drivers**, double-click your LDAP network device driver row row in the **Remote Drivers** view, click the **LdapServers** tab, and double-click the

server row in the table or select the server row and click the Hyperlink button ().

The view title, LdapServer in this example (this name may be different in your system), displays in the top left corner above the buttons and link.

- Save updates the server record in the database.
- **Ping** initiates communication with the server to verify the connection.
- Import opens the Import Preferences window.
- LdapNetwork returns the focus to the LdapNetwork view.

Properties

In addition to the standard properties (Status, Enabled, Fault Cause, Health, and Alarm Source Info), these properties support the Ldap server.

Property	Value	Description
Ldap Connection	additional properties	Refer to LDAP Connection properties, page 415.
Vendor Name	read-only	Identifies the name of the LDAP server vendor.
Vendor Version	read-only	Reports the software version of the LDAP server.
Supported L D A P Version	read-only	Reports the supported version number.
User Search Base	String chooser	Opens the String chooser window.
		Refer to User Search Base string chooser, page 416.
User Search Filter	String chooser	Opens the String chooser window.
		Refer to User Search Filter string chooser, page 417.
Search Scope	drop-down list	Defines how much of the User Search Base to actually search:

Property	Value	Description
Polling Interval	plus or minus hours minutes and seconds	Defines how frequently to poll the LDAP server.
Periodic purge schedule	read-only	When a personnel record is deleted from the system database, it needs to deleted from the LDAP server. The system removes deleted records from the LDAP server on a regular schedule, which is documented here. This schedule can be changed us- ing Workbench.
Ldap Import Config	additional properties	Refer to Ldap Import Config, page 418.

LDAP Connection properties

These properties configure the physical connection between the Supervisor PC and the LDAP server.

	Ldap Connection 😆	
Ldap Connection	Connection Host	localhost
	Connection Port	10389
	Enable TLS	false 🗸
	Authentication Mechanism	Simple V
	Connection User	uid=admin,ou=system
	Connection Password	•••••
	Enable Connection Pooling	true 🗸
	Initial Size	0
	Max Size	10
	Pref Size	0
	Connection Timeout (in milli seconds)	0

Figure 397 Ldap Connection properties

You access these properties by navigating to **System Setup→Remote Devices→Remote Drivers**. Then you double-click the LDAP network driver row in the table, click the LdapServers tab, double-click the LDAP server name in the table, and expand the Ldap Connection property group.

Property	Value	Description			
Connection Host	text; defaults to the connection al- ready made	Defines the URL to the LDAP server. The location may be on the same computer or elsewhere available on an intranet or the Internet.			
Connection Port	number; defaults to 10389	Defines the port over which the computer communicates with the server.			
Enable TLS	true or false (default)	Selects secure transmission and identity verification using the TLS protocol. Do not change this value unless you are confident of what you are doing. Changing this value could open the system to hackers.			
Authentication Mechanism	drop-down list; de- faults to None	Identifies the method used to verify the identity of the LDAP server to its client, the system database.:			
		Simple			
		Cram Md5			
		Digest Md5			

Property	Value	Description
		For information about these options, refer go the <i>Niagara Sta-</i> tion Security Guide
Connection User	text	Defines the LDAP server attributes for the system administrator.
		uid=admin is an example of the distinguished name for this user.
		dc=com is the user parent class.
Connection Password	text	Defines the password the LDAP server requires for this user.
Enable Connection Pooling	true (default) or false	Enables and disables the use of a connection pool. To speed processing, LDAP servers maintain a pool of connections. A re- quest from the system that uses an existing connection saves valuable processing time, which improves system perform- ance. Do not change the default (true = enabled) setting unless you know what you are doing.
Initial Size	number; defaults to 0 (zero)	Defines the number of pooling connections.
Max Size	number; defaults to 10	Defines the maximum number of connections to the LDAP server that the system supports concurrently.
Perf Size	number; defaults to 0 (zero)	Defines the preferred number of connections to the LDAP server that the system supports concurrently.

User Search Base string chooser

WARNING:

WARNING: If, after importing records from the LDAP server, you change the search criteria (User Search Base, User Search Filter or Search Scope), and then purge records from the system, the purge deletes all existing personnel records in the database. If this happens, personnel will not have access to your facility.

Defines where to start searching for personnel in the LDAP server hierarchy. ${\rm ou}$ stands for organizational unit.

dc stands for domain controller.

dn stands for distinguished name. this name both uniquely identifies an entry in the LDAP database and describes its position in the hierarchy.

You would change this property to access the personnel records for a specific tenant or other group.

Rather than requiring you to type the LDAP server attribute equivalents, this window provides a list from which to choose.

Figure 398 User Search Base string chooser

itring Choo	ser
2	.12 > cn=rfc2307bis
2	.13 > cn=adsconfig
2	.14 > ou=schemaModifications
2	.15 > cn=cosine
2	.16 > cn=java
2	.17 > cn=apachedns
2	.18 > cn=BadgeSchema
2	.19 > cn=collective
2	.20 > cn=autofs
2	.21 > cn=pwdpolicy
2	.22 > cn=inetorgperson
3 >	ou=config
3	1 > ads-directoryServiceId=default
4 >	dc=honeywell,dc=com
4	.1 > ou=businessunits
4	2 > ou=developers
<	>
	Ok Cancel

You access this window by clicking the chevron to the right of User Search Base on the Ldap Server tab.

User Search Filter string chooser

WARNING: If, after importing records from the LDAP server, you change the search criteria (User Search Base, User Search Filter or Search Scope), and then purge records from the system, the purge deletes all existing personnel records in the database. If this happens, personnel will not have access to your facility.

Defines the objectClass (metadata) associated with each personnel record. This objectClass identifies the record as a personnel record versus a system or other record type in the server database.

This chooser adds metadata (text strings), which the system uses to search the LDAP server.

String Chooser
Search Filter String
objectclass=*
Ok
Ok Cancel

Figure 399 User Search Filter string chooser

You access these properties by clicking the chevron next to User Search Filter property on the Ldap Server tab.

The three control buttons (Add, Edit and Delete) perform standard functions.

Ldap Import Config

LdapImportConfig

These properties configure the import action from the LDAP server to the station database. By default, the system imports data from the LDAP server once every hour. The maximum number of personnel records the system can import at one time is 5000. This number is not likely to be reached within the space of one hour.

Figure 400 Ldap Import properties

Ldap Import Config ¥ Import Frequency Last Import Time Group Attribute Allow New Inactive Users Status Attribute Active Status Values Account Expiry Date Time Attr

	Daily 🗸		
	01 ✓ - Jan ✓ - 1970 05 ✓ : 30 ✓ AM	\sim	IST
	true 🗸		
ibute			

Property	Value	Description			
Import Frequency	drop-down menu	Defines when to import properties.			
Last Import Time	read-only	Reports the last time the system imported data.			
Group Attribute	text	Defines the LDAP server attribute that provides the LDAP group Distinguished Name. Each LDAP user belongs to a group.			
Allow New Inactive Users	true (default) or false	Indicates that users may be added before they are activated in the system.			
Status Attribute	text	Reports LDAP user status: active or inactive. Inactive status could possibly be marked for deletion from the database. For example, it could be a person that no longer works at the own- ing company.			
Active Status Val- ues (Comma Separated)	text values, comma separated	Defines a list of values, which indicate a valid user status. This list is specific to your organization's personnel policies.			

Attributes tab

LDAP attributes map to system properties.

Figure 401 Attributes tab

🔚 Save 🕅 Ping 🏂 Impo	ort 🔯 Ldap Network					
Ldap Server Attributes Gro	oups					
LDAP Attributes Manager						
Display Name	Mandatory	Parent Class	Data Type	Description	MappedORD	isRDN

You access this tab by navigating to **Controller (System) Setup→Remote Devices→Remote Drivers**, double-clicking the LdapNetwork driver row in the table, clicking the Ldap Servers tab, double-clicking the Ldap Servers tab, double-clicking the Ldap Server row, and clicking the Attributes tab.

Column	Description		
Display Name	Reports the name that describes the event or function.		
Mandatory	Indicates if this attribute is required or not.		
Parent Class	Identifies the owner of this attribute.		
Data Type	Identifies the type of data: Boolean, numeric, enum or string.		
Description	Provides additional information.		
MappedORD	Reports the parent class and system property for the attribute.		
isRDN	Indicates if this property is the relative distinguished name (RDN), that is, the primary piece of information used to identify a record in the database. This is usually the uid (user ID).		

Table 82	Discovered	columns
----------	------------	---------

Column	Description	
attrName	Reports the name of the attribute.	
isMandatory	Indicates if this attribute is required or not.	
parentClass	Identifies the owner of this attribute.	
dataType	Identifies the type of data: Boolean, numeric, enum or string.	
description	Provides additional information.	

Discover attributes window

This window defines the object classes used to filter the search of LDAP database records.

You access this window when you click the **Import** button on the **Ldap Server** or **Attributes** tabs.

Figure 402 Discover attributes window with two object classes

Discover	
Object Class List	
	Object Class Name
	Ok

This window opens when you click the Discover button under LDAP Attributes Manager.

Control buttons:

- O Add opens a view or window for creating a new record in the database.
- 🕑 Edit opens the Edit window.
- O Delete removes the selected record (row) from the database table. This button is available when you select an item.

The list may contain multiple object classes for discovery.

Property	Value	Description
Object Class List/ Object Class Name	text	Defines the piece of information that identifies to which group each attribute record belongs. For example, an Object Class Name of "badge" identifies an attribute as a piece of badge in- formation, such as facility code, Wiegand format, etc. An ob- ject class of "person" identifies attributes associated with employees, such as last name, first name, person ID, etc.

LDAP Attributes Manager pane

In addition to the standard control buttons (Delete, Filter, Refresh, and Learn Mode), these buttons in the **Database** pane apply specifically to LDAP configuration:

- B Discover identifies the LDAP attributes that are available to be assigned to system properties.
- Source and forward arrow icons in the center of the view, equal with the Discovered title, page through multiple discovered results, go to a specific page, and control the number of items that appear on each page.

The

 Table 83
 LDAP Attributes Manager columns

Column	Description		
Display Name	Identifies the attribute.		
Mandatory	Indicates if the property is required by the LDAP server.		
Parent Class	Identifies the parent class in the LDAP server hierarchy.		
Data Type	Identifies the type of data: String, Boolean, etc.		
Description	Reports the text entered for Description when the attribute was mapped.		
MappedORD	Defines the parent class and property to which the attribute is mapped in the system.		
isRDN	Indicates if this property is the relative distinguished name (RDN), that is, the pri- mary piece of information used to identify a record in the database. This is usu- ally the uid (user ID).		

Discovered pane

To view the Discovered pane, click the Discover control button ().

In addition to the standard control buttons (Filter and Export), these buttons apply specifically to LDAP configuration:

- O Add moves the selected discovered attribute from the Discovered pane to the LDAP Attributes Manager pane.
- Cal Match associates the selected attribute in the LDAP Attributes Manager pane with its discovered and selected LDAP equivalent in the Discovered pane.

Column	Description		
attrName	Identifies the attribute in the LDAP server.		
isMandatory	Indicates if the property is required by the LDAP server.		

Column	Description	
parentClass	Identifies the parent class in the LDAP server hierarchy.	
dataType	Identifies the type of data: String, Boolean, etc.	
description	Reports the text entered for Description when the attribute was mapped.	
AttributeExists	Attribute exists defaults to false.	

Add attribute window

This window adds a discovered LDAP attribute to the station database. Discovering the attribute requires an LDAP connection. Discovering the attribute and adding it into database will open this window.



Add	
Device Type	Ldap Attribute
Display Name	cn
Data Type	String V
Mapped O R D	Person V Last Modified V
Is R D N	false 🗸
	Ok Cancel

This window opens when you expand **System Setup→Remote Devices** and click **Remote Drivers**; doubleclick the LdapNetwork driver row in the table; click the Ldap Server tab; double-click the Ldap Server row;

click the Attributes tab; click the Discover button ((); and click the Add button ()) in the Discovered pane.

Property	Value	Description	
Device Type	read-only	Identifies the data as an LDAP attribute.	
Display Name	read-only	Indicates the attribute name in the LDAP server.	
Data Туре	drop-down list	Defines the type of attribute data:	
		String identifies the attribute as text.	
		Binary identifies the attribute as a Boolean value.	
Mapped O R D first drop-down list	drop-down list	Identifies the parent class of the attribute name. This is a group to which the selected information belongs.	
Mapped O R D sec- ond drop-down list	drop-down list	Identifies the system property to associate with the selected LDAP attribute.	
Is R D N	true or false (default)	Indicates if this attribute/property combination serves as the relative distinguished name (RDN) for the person. Only one at- tribute/property combination can serve this function. It is usu- ally a number, such as, employeeNumber.	

Groups tab

This tab maps groups to system access rights.

Figure 404 Groups tab

Save	Ping 🏂	Import	실 Ldap Network)
Ldap Server	Attributes	Groups		
Ldap Group Manager				

Image: Constraint of the second secon

You access this tab by navigating to **Controller (System) Setup→Remote Devices→Remote Drivers**, double-clicking the LdapNetwork driver row in the table, clicking the Ldap Server tab, double-clicking the Ldap Server row, and clicking the Groups tab. To view the Discovered pane, click the discover control but

ton (🕮).

Discover groups window

Groups in the LDAP server equate to access rights in the system.

You access this view when you click the Groups tab in the Ldap Server view.

Figure 405 Discover groups window

Group Search Base	dc=mydomain,dc=com
Group Search Filter	(((objectClass=organizationalUnit)(objectCla
Group Search Scope	Subtree Scope

This window opens when you click the Discover button () on the Ldap Server Groups tab.

Property	Value	Description	
Group Search Base	expression	Defines from which node in the LDAP server to begin search- ing for groups (access rights).	
Group Search Filter	expression	Defines the groups (access rights) to use for the search.	
Group Search Scope	drop-down list	Defines how much of the LDAP server to search.	
		Object Scope	
		One Level Scope	
		Subtree scope extends the scope to the child nodes of the node defined in the Group Search Base expression.	

LDAP Group Manager pane

In addition to the standard control buttons (Delete, Filter, Refresh, and Learn Mode), these buttons serve LDAP functions.

• B Discover identifies the LDAP groups that are available for to be assigned to system access rights.

|--|

Column	Description	
GroupName	Identifies the system name for this group.	
AccessRight	Identifies the system name for the assigned set of access rights.	

Discovered Pane

In addition to the standard control buttons (Filter and Export), these buttons apply specifically to LDAP configuration:

- Old moves the selected discovered group from the Discovered pane to the LDAP Group Manager pane.
- Call Match associates the selected access right in the LDAP Group Manager pane with a discovered and selected LDAP group in the Discovered pane.

 Table 86
 LDAP group Discovered columns

Column	Description	
distinguishedName	Identifies the attribute in the LDAP server.	
cn	Indicates if the property is required by the LDAP server.	
GroupExists	Group exists defaults to false.	

LDAP Audit History view

This view provides an audit trail of actions taken to synchronize records from the LDAP server with their counterparts in the Supervisor station database.

Figure 406 LDAP Audit History view

🔓 access 🔺 Access His	story 🔺 Alarm History 🔺 Intrusion History	Attendance History	🔺 Audit History 🔺 Log	g History 🛛 💣 Hardware Reports	LDAP Audit History
	₹ ¢ ø ,				
Timestamp 💙	Ldap Server Ord	Activity		Activity Id Status	Details
06-Jul-18 12:35 PM IST	slot:/Drivers/Ldap\$20Network/Ldap\$20Server	Import Personnel	admin	0 ERROR	Error during import process
06-Jul-18 12:35 PM IST	slot:/Drivers/Ldap\$20Network/Ldap\$20Server	Import Personnel	admin	0 ERROR	No mapping details available.Import cannot proceed
06-Jul-18 12:35 PM IST	slot:/Drivers/Ldap\$20Network/Ldap\$20Server	Import Personnel	admin	0 ERROR	Error during import process
06-Jul-18 12:35 PM IST	slot:/Drivers/Ldap\$20Network/Ldap\$20Server	Import Personnel	admin	0 ERROR	No mapping details available.Import cannot proceed
06-Jul-18 10:54 AM IST	slot:/Drivers/Ldap\$20Network/Ldap\$20Server	Cleanup Personnel	Personnel cleanup process	0 ERROR	0 users got deleted by cleanup process.
06-Jul-18 10:54 AM IST	slot:/Drivers/Ldap\$20Network/Ldap\$20Server1	Cleanup Personnel	Personnel cleanup process	0 ERROR	0 users got deleted by cleanup process.

You access this report by clicking **Reports→LDAP Audit History**.

In addition to the standard control buttons (Summary, Auto Refresh, Column Chooser, Filter, Refresh, Manager Reports and Export, the Purge Config button () opens the Purge Config window.

Table 87	LDAP Audit I	History colu	umns
----------	--------------	--------------	------

Column	Description	
Timestamp	Identifies when the activity occurred.	
Ldap Server Ord	Identifies the location of the LDAP server.	
Activity	Provides a quick summary of the task.	
Owner Identifies the person who performed the action.		

Column	Description
Activity Id	Identifies the job.
Status	Indicates the success or lack thereof of the activity: SUCCESS, WARNING, ERROR.
Details	Provides an error message; indicates any action taken; identifies the LDAP mode, and provides ad- ditional data.

Periodic Purge Schedule

These properties are only available in Workbench.

Figure 407	Periodic Purge	Schedule	properties

-	Periodic purge sche	edule 2:00	AM {Sun Mon Tu	ue Wed Thu Fri Sat}
			Time Of Day	02:00:00 AM EDT
	油 Trigger Mode	Daily 🗸	Randomization	+00000h 00m 00s
			Days Of Week	🕑 Sun 🕑 Mon 🥑 Tue 🕑 Wed 🕑 Thu 🕑 Fri 🕑 Sat
	📔 Last Trigger	06-Sep-2018	02:00 AM EDT	
	Next Trigger	07-Sep-2018	02:00 AM EDT	

You access these properties on the Ldap Server property sheet in Workbench by clicking **Config→Dri**vers→Ldap Network in the Nav tree, double-clicking the LdapServer node, followed by expanding the Periodic Purge Schedule property.

Property	Value	Description
Trigger Mode	additional properties	Refer to Trigger Mode properties, page 424
Last Trigger	date and time (de- faults to null)	Indicates when the last job ran.
Next Trigger	date and time	Indicates the next time the job will run.

Trigger Mode properties

These properties configure the clean-up job.

Property	Value	Description
Time of Day	time	Defines when to run the job.
Randomization	hours minutes seconds	Defines an amount of time between jobs.
Days of the Week	check boxes	Configures when to run the job.

Chapter 16 Nrio Driver views, tabs and windows

Topics covered in this chapter

- Nrio Device Manager view
- ♦ Nrio Module view
- Nrio Point Manager, Analog Points tab
- Nrio Point Edit view
- History Extension view

This driver provides an interface between a remote controller station and the hardware modules connected to the station, as well as to other remote I/O modules. This driver is not available on a Supervisor PC. With this driver you can incorporate standard building automation features, such as temperature and energy management in your system.

A low-level daemon communicates to the I/O processors on the hardware. An Nrio device uses RS-485 connections, which allow a single controller to run multiple NrioNetworks, each with its own COM port.

For more information about this driver and how to configure the devices it supports, refer to the *NRIO Driver Guide*. While this guide documents the Workbench interface, the same properties are available using the web UI.

Nrio Device Manager view

The Nrio Network views tabs and windows manage creating updating and deleting remote module records. The Nrio Device Manager view lists device level NrioModule components.

# 🖗 🍓			2 3	2	Š	
Display Name ٨	Enabled	Status	Device Type	Vid	Installed Version	Available Version
Nrio16 Module	true	{fault}	Io16	00000000000		2.2

Figure 408 Nrio Device Manager view

To access this view from the main menu, click **Controller Setup→Remote Devices→Remote Drivers**, and double-click the Nrio Network row in the **Remote Drivers** view.

Control buttons

In addition to the standard control buttons, (Hyperlink, Delete, Rename, Delete, Filter, Refresh, and Exit), this view includes these control buttons:

- Discover opens the Discover window, which defines the database search. Based on this information, the discovery job interrogates the target location for data, such as historical and current point values as well as properties provided by the database.
- Manage Devices/Drivers opens the Manage Drivers or Manage Devices window, which is used to Add, Delete, Rename, Duplicate, Copy, and Cut system drivers or devices.
- Wink Device cycles the first digital output (relay output) for all selected devices on and off for a period of 10 seconds. This confirms that the device is responding before matching it to a specific component in the station database (typically, after you have added offline hardware are using the match function

- 🔩 Upgrade Firmware initiates an upgrade of a selected module.
- Delta Upload reads recursive, transient and persistent data from the device and writes it to the station database. After discovering and adding a new module, clicking this button populates current data in the device's components.
- Download writes persistent data to the device from values in the station database. You use this button to restore known good values as previously saved in the station.
- Discovered pane in a manager view to show or hide the control buttons and any discovered items (devices, points, database properties, etc.).

Database columns

Table 88	Nrio Device Manager database columns
----------	--------------------------------------

Column	Description
Display Name	Reports the name of the Nrio module.
Enabled	Reports if the function is turned on (true) or off (false).
Status	Reports the current condition of the entity as of the last refresh: {alarm}, {disabled}, {down}, {fault}, {ok}, {stale}, {unackedAlarm}
Device Type	Reports the type of module.
Uid	Universal ID
Installed Version	Indicates which version of the driver is installed.
Available Version	Indicates an available version.

Discovered pane

This pane opens when you click the Discover control button (\mathbb{B}) .

 Table 89
 Nrio Device Manager Discovered columns

Column	Description
Address	Identifies the location of the discovered module.
Device Type	Reports the type of module found.
Used By	After matching the discovered Access Network with the existing database Access Network, this column is updated with the existing access network display name.
Version	Indicates which version of the driver is installed on the found module.

Nrio Module view

This view updates Nrio properties and configures points.

Figure 409 Nrio module view

-		
🔚 Save 🕨 Po	oint Manager 🔵 🔘 Cle	ear Totals 🛛 🍓 Go to Module 🗋 🔯 Nrio Network 🛛
Nrio16 Module		
Status	{disabled,fault}	
Enabled	false 🗸	
Fault Cause	Invalid UID: Do Disco	ver and Match.
Health	Fail [null] Alarm Source Info ≽	
	Alarm Class	Medium
	Source Name	%parent.parent.displayName% %parent.dis
	To Fault Text	
	To Offnormal Text	%lexicon(driver:pingFail)%
	To Normal Text	%lexicon(driver:pingSuccess)%
Alarm Source Info	Hyperlink Ord	null
	Sound File	null
	Alarm Icon	null
	Alarm Instructions	🕑 Edit
	Meta Data	[No configured facets]
Address	0 [0 - 16	5]
	Nrio16 Status ≽	
	Io Status	-
	Active Ai Map	0
	Value A 11	0
	Value A 12	0
	Value A I3	0
	Value A I4	0
	Value A 15	0
	Value A I6	0
	Value A 17	0
	Value A 18	0
	Active Di Map	0
	Value High Speed [D Is
	Count High Speed	D I1 0
To Status	Count High Speed	D 12 0
io status	Count High Speed	D 13 0
	Count High Speed	D I4 0

To access this view from the main menu, click **Controller Setup→Remote Devices→Remote Drivers**, double-click the Nrio Network row in the **Remote Drivers** view, and double-click a module row or select the row and click the Hyperlink button (ⓐ).

Links

The row of buttons along the top of this view provide these functions:

- Point Manager opens the Nrio Point Manager view.
- Clear Totals resets the accumulated total value for all CounterInputPoints to zero (0), which is equivalent to invoking the Reset command on each point's proxy extension (ProxyExt).
- Go To Module opens the Go to Module window for navigating to another Nrio module under the controller's Nrio Network. The system populates this window only when there are two or more Nrio modules on the network.
- The Nrio Network button (13) returns up one level to the Niro Network view.

Properties

In addition to the standard properties (Status, Fault Cause, and Enabled, Health and Alarm Source Info, these properties specifically support the Nrio Module view.

Property	Value	Description
Address	read-only	Displays an integer between 1 and 16, which is unique among all Nrio modules under the Nrio network. The system auto- matically derives this number and associates it with the physi- cal I/O devices upon an online discover.
lo Status	read-only	Indicates the value (in hexadecimal) last received by the actrld (access control daemon) process running on the controller. These values are for advanced debug purposes only.

Nrio Point Manager, Analog Points tab

This view displays tabs that hold analog or digital points, which you can add using the **Manage Points** window.

Figure 410	NRIO Point Manag	er view
i igui o i i o	i thao i onic manag	01 11011

🚰 Home 🛛 රට	Monitoring 🏻 🔒 Personnel 📄 Reports 🔹 Controller Setup
📰 Schedules	👗 User Management 📑 Backups 💣 Remote Devices 💣 Access Se
Save Mana	ge Points Go to Module Nrio16 Module
Analog Points	Digital Points
Voltage Input	[Universal Input 1 : 0.0 V {fault,stale}] 🛛 🔘 💷
Temperature In	put [Universal Input 3 : 329.0 °F {fault,stale}] 🍥 📖
Resistive Input	[Universal Input 4 : 0.0 Ω {fault,stale}] 🛛 🔘 🛄
High Speed Cou	nter [Universal Input 6 : 0.0 {fault,stale}] 🛛 🔘 🔟
Voltage Output	[Analog Output 1 : 0.0 V {fault} @ def] 🛛 🔘 🔤 💷
	``````````````````````````````````````

To access this view from the main menu, click **Controller Setup→Remote Devices→Remote Drivers**, double-click the Nrio Network row in the **Remote Drivers** view, double-click a module row and click the **Point Manager** link.

#### Links

In addition to **Save**, these links support the point manager:

- Manage Points opens the Manage Nrio Points windows, which add, rename, delete, cut, copy, and paste analog and digital point information.
- **Go To Module** opens the **Go to Module** window for navigating to another set of Nrio module points. The system populates this window only when there are two or more Nrio modules on the network.
- Nrio 16 Module (in the screen capture) opens the current module view. The name on this button changes depending on the name of the module.

The system creates or adds to this tab when you add an analog point (voltage, temperature, resistive, or high speed counter) by clicking the Manage Points button and selecting Add in the Nrio Point Manager view.

Points display under the appropriate **Analog** or **Digital** tab with a hyperlink that takes you to the individual point view where you can configure each point.

#### Manage Nrio Points windows

These windows manage individual points.

Figure 411 Manage Nrio Points window

			Select Nrio Point		
	Select IO Category		The following points are currently avail	able:	
Manage Nrio Points	Select the point category		🔍 📼 Universal Input 3		1
How would you like to m	🖲 Voltage Input		Ot Select Nrio Point	il-blas	
Add O	$\bigcirc$ Temperature Input		Delay Output 1	avallable:	
O Rename	○ Resistive Input		C Relay Output 1	Configure	Nrio Point
Over Cut	○ Digital Input	Sele	ct Nrio Point	Specify th	e point configuration:
Cr Copy	$\bigcirc$ High Speed Counter	The	following points are currently available:		
Paste	○ Relay Output	0	Analog Output 1	Name IO Type	ui2 ×
Ok Can	○ Voltage Output		Analog Output 2 Analog Output 3	10 Type	
	Ok Cancel	0	■ Analog Output 3 ■ Analog Output 4	_	Ok Cancel
			Ok Cancel		

You open these windows from the main menu by clicking **Controller Setup→Remote Devices→Remote Drivers**, double-clicking the NrioNetwork row in the table, double-clicking the module name in the table, clicking the **Point Manager** link, followed by clicking the **Manage Points** link.

You can create two types of points: analog and digital, and those points may provide input or output functions. The sequence from left to right involves selecting the IO category (type of point), selecting the NRIO point to assign to this category, followed by naming the point and confirming its IO type.

#### Go to Module window

This window opens the module view for another module. The button that opens this window is only available if more than one module is present.





This window opens in the module view when you click the **Go to Module** button.

#### **Digital Points tab**

This tab provides access to the system's digital points.



The system creates or adds to this tab when you add a digital point (digital input or relay output) by clicking the **Manage Points** button and selecting Add in the **Nrio Point Manager** view.

#### Links

In addition to Save, these links support the point manager:

- Manage Points opens the Manage Nrio Points windows, which add, rename, delete, cut, copy, and paste analog and digital point information.
- **Go To Module** opens the **Go to Module** window for navigating to another set of Nrio module points. The system populates this window only when there are two or more Nrio modules on the network.

• **Nrio 16 Module** (in the screen capture) opens the current module view. The name on this button changes depending on the name of the module.

# **Nrio Point Edit view**

This view edits point facets and provides links to point proxy extensions and other properties for each point.

Figure 413 Example of a Point Edit view



<

>

You access this view from the main menu by clicking **Controller Setup** $\rightarrow$ **Remote Devices** $\rightarrow$ **Remote Drivers**, double-clicking the **NrioNetwork** row in the table, double-clicking a module, clicking the **Point Manager** button, followed by clicking the link to a specific point.

#### Links

In addition to the Save link, these links support point management:

- Manage Extensions opens the windows for creating new point extensions.
- Point Manager returns to the Point Manager view.
- Go To Module opens a window for selecting the module to go to.

#### **Button**

Edit button opens the Edit window.

#### **Properties**

The properties for each point are described in the following topics.

#### Voltage Input points properties

This view provides tabs for editing and configuring Nrio proxy points under the points extension of a selected Nrio module.

Figure 414 Voltage Input tab



You access this view from the main menu by clicking **Controller Setup** $\rightarrow$ **Remote Devices** $\rightarrow$ **Remote Drivers**, double-clicking the **NrioNetwork** row in the table, double-clicking a module, clicking the **Point Manager** button, followed by clicking the link to a specific point.

Property	Value	Description
Facets	additional properties	Refer to Voltage Input Facets, page 431.
Proxy Ext	additional properties	Refer to .
Out	read-only	Reports the current value of the proxy point and its status.
linearCalibration	additional properties	Refer to .

#### **Voltage Input Facets**

Facets determine how a point's value displays in the station. Voltage Input facets include voltage numbers and decimal precision.

Figure 415 Voltage Input Facets and Edit facets window

Edit	
Quantity 📄	ectric potential (m²-kg·s-3·A-1)
Min	0.0
Max	10.0
Precision	1
	Ok Cancel

This Edit window opens when you click the Edit button.

Property	Value	Description
Quantity	drop-down list	Defines input voltage.
max	number	Defines the maximum voltage value.
min	number	Defines the minimum voltage value.
precision	number	Defines the number of decimal places allowed.
units	defaults to Volts	Configures the default unit.

#### **Voltage Proxy Ext properties**

These properties configure the proxy point extension.

#### Figure 416 Voltage Proxy Ext properties

	Nrio Voltage Input Pr	roxy Ext ≽	
	Status	{disabled,fault,stale}	
Proxy Ext	Fault Cause		
	Enabled	true 🗸	
	Conversion	Default 🗸	
	Tuning Policy Name Default Policy 🗸		
	Read Value	0.00 V {ok}	
	Write Value	0.00 V {ok}	
	Poll Frequency	Normal 🗸	
	Instance	1	
	Ui Type	Ai _0to10 _vdc 🗸	

In addition to the standard properties (Status, Fault Cause, and Enabled), these properties support the voltage proxy extension.
Property	Value	Description
Conversion	drop-down list, de- faults to Default	Defines how the system converts proxy extension units to pa- rent point units.
		Default automatically converts similar units (such as Fahrenheit to Celsius) within the proxy point.
		<b>NOTE: In most cases, the standard</b> Default conversion is best.
		Linear applies to voltage input, resistive input and voltage output writable points. Works with linear-acting devices. You use the Scale and Offset properties to convert the output val- ue to a unit other than that defined by device facets.
		Linear With Unit is an extension to the existing linear con- version property. This specifies whether the unit conversion should occur on "Device Value" or "Proxy Value". The new lin- ear with unit convertor, will have a property to indicate whether the unit conversion should take place before or after the scale/offset conversion.
		Reverse Polarity applies only to Boolean input and relay output writable points. Reverses the logic of the hardware bi- nary input or output.
		500 Ohm Shunt applies to voltage input points only. It reads a 4-to-20mA sensor, where the Ui input requires a 500 ohm resistor wired across (shunting) the input terminals.
		Tabular Thermistor applies to only a Thermistor input point and involves a custom resistance-to-temperature value response curve for Type 3 Thermistor temperature sensors.
		Thermistor Type 3 applies to an Thermistor Input point, where this selection provides a "built-in" input resistance-to- temperature value response curve for Type 3 Thermistor tem- perature sensors.
		Generic Tabular applies to non-linear support for devices other than for thermistor temperature sensors with units in temperature. Generic Tabular uses a lookup table method sim- ilar to the "Thermistor Tabular" conversion, but without prede- fined output units.
Tuning Policy Name	drop-down list, de- faults to Default Policy.	Selects a network tuning policy by name. This policy defines stale time and minimum and maximum update times.
		During polling, the system uses the tuning policy to evaluate both write requests and the acceptability (freshness) of read requests.
Read Value	read-only	Displays the last value read from the device, expressed in device facets.
Write Value	read-only	Displays the last value written, using device facets.
Poll Frequency	drop-down list, de- faults to Normal	Selects among three rates (Fast, Normal and Slow) to deter- mine how often to query the component for its input value. The network's Poll Service defines these rates in hours, mi- nutes and seconds. For example:
		Fast may set polling frequency to every second.

Property	Value	Description	
		Normal may set poll frequency to every five seconds. Slow may set poll frequency to every 30 seconds.	
Instance	number	Defines the point's I/O terminal address based on its hardware type.	
		If duplicated (same instance as same hardware type, same board), the point reports a fault status.	
		If an edit attempt is made to an instance already in use by an- other proxy point, the system discards the edit, and retains the previous instance value.	
Ui Туре	read-only	Identifies the Nrio Universal Input point type: Resistive Input, Boolean Output, etc.	

#### Voltage Input, Linear Calibration Ext properties

These properties calibrate the calculated voltage value before it is applied to the Out slot, where [(calculatedValue x Scale) + Offset] = Out value. Usage is optional, although Offset and Units are commonly configured.

**NOTE:** In most cases where the parent Nrio proxy point's facets have been changed from defaults, you must edit the **Units** value in this extension to match the units in the point facets, otherwise the parent proxy point reports a fault for status!

Typically, you see this fault status immediately after you add a new input point, for example a VoltageInput-Point or ResistanceInputPoint, and configure it with a Linear conversion type (including a scale and offset), and then specify the point's facets. It may not be immediately clear that the problem is in this Linear Calibration Ext, where you must match its Units value to the units in the point's facets.

Figure 417 Linear Calibration properties



Fault Cause

Property	Value	Description
Scale	number, defaults to 1.0	Defines a scale value. Usually you leave this value set to the de- fault. One exception is if you copied this extension under a CounterInputPoint for the purpose of returning a scaled total.
Offset	positive or nega- tive number, de- faults to 0.0	Can compensate for signal error introduced by sensor wiring resistance. If under a CounterInputPoint, leave it at zero (0).
Units	drop-down list	Defines the unit of measure. Should be the same as the parent proxy point's facets.
Fault Cause	read-only	Reports the reason why a network, component, or extension is in fault. Fault Cause is blank unless a fault exists.

# **Temperature Input points**

Configures a temperature input point.

Figure 418	Temperature Input tab	
🔒 Save 🎯	Manage Extensions ) 🔯 Point Manager ) 🎑 Go to Module	
Temperature I	nput Link To	
Facets	Edit 1. max=max 2. min=min 3. precision=1 4. radix=10 5. units=°F	
Proxy Ext	Nrio Resistive Input Proxy Ext »	
Out 329.0 °F {fault,stale}		
linearCalibratio	n Linear Calibration Ext »	
<		>

You access this view from the main menu by clicking **Controller Setup**→**Remote Devices**→**Remote Drivers**, double-clicking the **NrioNetwork** driver, double-clicking a module, clicking the **Point Manager** link, followed by clicking the hyperlink to the right end of the Temperature Input point.

Property	Value	Description
Facets	additional properties	Refer to Temperature Input Facets, page 435.
Proxy Ext	additional properties	Refer to Temperature Proxy Ext properties, page 436.
Out	read-only	Reports the current temperature of the proxy point and its status.
linearCalibration	additional properties	Refer to Temperature Input, Linear Calibration Ext properties, page 438.

## **Temperature Input Facets**

Facets determine how a point's value displays in the station. Temperature facets include a minimum, maximum, and decimal precision.

Edit	
Quantity	temperature (K) VIIII (fahrenheit (°F) V
Min	-2.147483648E9
Max	2.147483647E9
Precisio	n 1
	Ok Cancel

The Edit window opens when you click the **Edit** button.

Property	Value	Description
Quantity	drop-down list	Defines the units used to measure temperature.
max	number	Defines the maximum temperature value.

Property	Value	Description	
min	number	Defines the minimum temperature value.	
precision	number	Defines the number of decimal places allowed.	
radix	number, defaults to 10	Defines the number of unique digits, including zero, used to represent numbers in a positional numeral system.	
units	defaults to de- grees Fahrenheit	Configures the default unit.	

# **Temperature Proxy Ext properties**

These properties configure the proxy point extension.

Figure 420 Temperature Proxy Ext properties

🔚 Save 💣 Manage Extensions 🔯 Point Manager 🧔 Go to Module					
Temperature Ir	Temperature Input Link To				
Facets	Edit 1. max=max 2. min=min 3. precision=1 4. radix=10 5. units=°F Nrio Resistive Input Proxy Ext ¥				
	Status	{disabled,fault,stale}	_		
	Fault Cause				
	Enabled	true 🗸			
	Conversion	Thermistor Type 3 (nrio) 🗸			
Proxy Ext	Tuning Policy Name	Default Policy 🗸			
	Read Value	0.00 Ω {ok}			
	Write Value	0.00 Ω {ok}			
	Poll Frequency	Normal V			
	Instance	3			
	Ui Type	Ai _ Resistive 💙			
Out	329.0 °F {disabled,faul	t,stale}			
	Linear Calibration Ext &	\$			
	Scale 1.00000				
linearCalibration	Offset 0.00000				
	Units Quanti	ty temperature (K)	✓ Unit fahrenheit (°F) ∨		
	Fault Cause				

In addition to the standard properties (Status, Fault Cause, and Enabled), these properties support temperature proxy extensions.

Property	Value	Description
Conversion	drop-down list, de- faults to Default	Defines how the system converts proxy extension units to pa- rent point units.
		Default automatically converts similar units (such as Fahrenheit to Celsius) within the proxy point.
		<b>NOTE: In most cases, the standard</b> Default conversion is best.
		Linear applies to voltage input, resistive input and voltage output writable points. Works with linear-acting devices. You use the Scale and Offset properties to convert the output val- ue to a unit other than that defined by device facets.
		Linear With Unit is an extension to the existing linear con- version property. This specifies whether the unit conversion should occur on "Device Value" or "Proxy Value". The new lin- ear with unit convertor, will have a property to indicate whether the unit conversion should take place before or after the scale/offset conversion.
		Reverse Polarity applies only to Boolean input and relay output writable points. Reverses the logic of the hardware bi- nary input or output.
		500 Ohm Shunt applies to voltage input points only. It reads a 4-to-20mA sensor, where the Ui input requires a 500 ohm resistor wired across (shunting) the input terminals.
		Tabular Thermistor applies to only a Thermistor input point and involves a custom resistance-to-temperature value response curve for Type 3 Thermistor temperature sensors.
		Thermistor Type 3 applies to an Thermistor Input point, where this selection provides a "built-in" input resistance-to- temperature value response curve for Type 3 Thermistor tem- perature sensors.
		Generic Tabular applies to non-linear support for devices other than for thermistor temperature sensors with units in temperature. Generic Tabular uses a lookup table method sim- ilar to the "Thermistor Tabular" conversion, but without prede- fined output units.
Tuning Policy Name	drop-down list, de- faults to Default Policy.	Selects a network tuning policy by name. This policy defines stale time and minimum and maximum update times.
		During polling, the system uses the tuning policy to evaluate both write requests and the acceptability (freshness) of read requests.
Read Value	read-only	Displays the last value read from the device, expressed in device facets.
Write Value	read-only	Displays the last value written, using device facets.
Poll Frequency	drop-down list, de- faults to Normal	Selects among three rates (Fast, Normal and Slow) to deter- mine how often to query the component for its input value. The network's Poll Service defines these rates in hours, mi- nutes and seconds. For example:
		Fast may set polling frequency to every second.

Property	Value	Description	
		Normal may set poll frequency to every five seconds. Slow may set poll frequency to every 30 seconds.	
Instance	number	Defines the point's I/O terminal address based on its hardware type.	
		If duplicated (same instance as same hardware type, same board), the point reports a fault status.	
		If an edit attempt is made to an instance already in use by an- other proxy point, the system discards the edit, and retains the previous instance value.	
Ui Туре	read-only	Identifies the Nrio Universal Input point type: Resistive Input, Boolean Output, etc.	

## Temperature Input, Linear Calibration Ext properties

These properties calibrate the calculated temperature value before it is applied to the Out slot, where [(calculatedValue x Scale) + Offset] = Out value. Usage is optional, although Offset and Units are commonly configured.

**NOTE:** In most cases where the parent Nrio proxy point's facets have been changed from defaults, you must edit the **Units** value in this extension to match the units in the point facets, otherwise the parent proxy point reports a fault for status!

Figure 421 Linear Calibration properties

linearCalibration	Scale	1.00000			
	Offset	0.00000			
	Units	Quantity tem	nperature (K)	Ƴ Unit	fahrenheit (°F) 🗸

Fault Cause

Property	Value	Description
Scale	number, defaults to 1.0	Defines a scale value. Usually you leave this value set to the de- fault. One exception is if you copied this extension under a CounterInputPoint for the purpose of returning a scaled total.
Offset	positive or nega- tive number, de- faults to 0.0	Can compensate for signal error introduced by sensor wiring resistance. If under a CounterInputPoint, leave it at zero (0).
Units	drop-down list	Defines the unit of measure. Should be the same as the parent proxy point's facets.
Fault Cause	read-only	Reports the reason why a network, component, or extension is in fault. Fault Cause is blank unless a fault exists.

# **Resistive Input points**

This is a NumericPoint that reads a resistive signal within a 0-to-100K ohm range and produces either an ohms value or a linear, scaled output value.

#### Figure 422 Resistive Input tab

🗟 Save 🎲	Manage Extensions 🛛 🔯 Point Manager 🛛 🍓 Go to Module			
Resistive Input	Link To			
Facets	Edit           1. max=+inf           2. min=-inf           3. precision=1           4. units=Ω			
Proxy Ext	Nrio Resistive Input Proxy Ext »			
Out	0.0 Ω {fault,stale}			
linearCalibration Linear Calibration Ext >>				

<

You access this view from the main menu by clicking **Controller Setup→Remote Devices→Remote Drivers**, followed by double-clicking the NrioNetwork driver, selecting and double-clicking a module, clicking the **Point Manager** link, followed by clicking the hyperlink to the right end of the Restive Input point.

Property	Value	Description
Facets	additional properties	Refer to Resistive Input Facets, page 439.
Proxy Ext	additional properties	Refer to Resistive Input Proxy Ext properties, page 440.
Out	read-only	Reports the current value of the proxy point and its status.
linearCalibration	additional properties	Refer to Resistive Input, Linear Calibration Ext properties, page 442.

#### **Resistive Input Facets**

Facets determine how a point's value displays in the station. Resistive input facets include a minimum, maximum, and decimal precision.

Figure 423 Resistive Input Facets and Edit facets window

Edit	
Quantity e	ectric resistance (m²·kg·s-3·A-2) Vnit ohm (Ω) V
Min	Infinity
Max	Infinity
Precision	1
	Ok Cancel

The Edit window opens when you click the **Edit** button.

Property	Value	Description
Quantity	drop-down list	Defines the formula.
Unit	defaults to ohm	Configures the default unit.
Max	number, defaults to Infinity	Defines the maximum ohm value.

Property	Value	Description
Min	number, defaults to negative Infinity	Defines the minimum ohm value.
Precision	number, defaults to one	Defines the number of decimal places allowed.

# **Resistive Input Proxy Ext properties**

These properties configure the proxy point extension.

Figure 424	Resistive	Input Proxy	/ Ext	properties

🔒 Save 🗳 I	Manage Extens	ions	🖄 Point Manager 🛛 🍓 Go to Module
Resistive Input	Link To		
Facets	Edit 1. max=+inf 2. min=-inf 3. precision=1 4. units=Ω	Input Pro	
	Status	Input FIO	{disabled.fault.stale}
	Fault Cause		
	Enabled		true 🗸
	Conversion		Default V
Proxy Ext	Tuning Poli	cy Name	e Default Policy 💙
	Read Value		0.00 Ω {ok}
	Write Value		0.00 Ω {ok}
	Poll Freque	ю	Normal V
	Instance		4
	Ui Type		Ai _ Resistive 💙
Out	0.0 Ω {disable	d,fault,sta	tale}
	Linear Calibra	tion Ext ¥	≫
	Scale	1.00000	)
linearCalibration	Offset	0.00000	)
	Units	Quantit	ity electric resistance (m ² ·kq·s-3·A-2) $\checkmark$ Unit ohm ( $\Omega$ ) $\checkmark$
	Fault Cause		

In addition to the standard properties (Status, Fault Cause, and Enabled), these properties support resistive input proxy extensions.

Property	Value	Description
Conversion	drop-down list, de- faults to Default	Defines how the system converts proxy extension units to pa- rent point units.
		Default automatically converts similar units (such as Fahrenheit to Celsius) within the proxy point.
		<b>NOTE: In most cases, the standard</b> Default conversion is best.
		Linear applies to voltage input, resistive input and voltage output writable points. Works with linear-acting devices. You use the Scale and Offset properties to convert the output val- ue to a unit other than that defined by device facets.
		Linear With Unit is an extension to the existing linear con- version property. This specifies whether the unit conversion should occur on "Device Value" or "Proxy Value". The new lin- ear with unit convertor, will have a property to indicate whether the unit conversion should take place before or after the scale/offset conversion.
		Reverse Polarity applies only to Boolean input and relay output writable points. Reverses the logic of the hardware bi- nary input or output.
		500 Ohm Shunt applies to voltage input points only. It reads a 4-to-20mA sensor, where the Ui input requires a 500 ohm resistor wired across (shunting) the input terminals.
		Tabular Thermistor applies to only a Thermistor input point and involves a custom resistance-to-temperature value response curve for Type 3 Thermistor temperature sensors.
		Thermistor Type 3 applies to an Thermistor Input point, where this selection provides a "built-in" input resistance-to- temperature value response curve for Type 3 Thermistor tem- perature sensors.
		Generic Tabular applies to non-linear support for devices other than for thermistor temperature sensors with units in temperature. Generic Tabular uses a lookup table method sim- ilar to the "Thermistor Tabular" conversion, but without prede- fined output units.
Tuning Policy Name	drop-down list, de- faults to Default Policy.	Selects a network tuning policy by name. This policy defines stale time and minimum and maximum update times.
		During polling, the system uses the tuning policy to evaluate both write requests and the acceptability (freshness) of read requests.
Read Value	read-only	Displays the last value read from the device, expressed in device facets.
Write Value	read-only	Displays the last value written, using device facets.
Poll Frequency	drop-down list, de- faults to Normal	Selects among three rates (Fast, Normal and Slow) to deter- mine how often to query the component for its input value. The network's Poll Service defines these rates in hours, mi- nutes and seconds. For example:
		Fast may set polling frequency to every second.

Property	Value	Description
		Normal may set poll frequency to every five seconds. Slow may set poll frequency to every 30 seconds.
Instance	number	Defines the point's I/O terminal address based on its hardware type.
		If duplicated (same instance as same hardware type, same board), the point reports a fault status.
		If an edit attempt is made to an instance already in use by an- other proxy point, the system discards the edit, and retains the previous instance value.
Ui Туре	read-only	Identifies the Nrio Universal Input point type: Resistive Input, Boolean Output, etc.

#### **Resistive Input, Linear Calibration Ext properties**

These properties calibrate the calculated resistence value before it is applied to the Out slot, where [(calculatedValue x Scale) + Offset] = Out value. Usage is optional, although Offset and Units are commonly configured.

**NOTE:** In most cases where the parent Nrio proxy point's facets have been changed from defaults, you must edit the **Units** value in this extension to match the units in the point facets, otherwise the parent proxy point reports a fault for status!

Typically, you see this fault status immediately after you add a new input point, for example a VoltageInput-Point or ResistanceInputPoint, and configure it with a Linear conversion type (including a scale and offset), and then specify the point's facets. It may not be immediately clear that the problem is in this Linear Calibration Ext, where you must match its Units value to the units in the point's facets.

Figure 425Resistive Input Linear Calibration properties



Property	Value	Description
Scale	number, defaults to 1.0	Defines a scale value. Usually you leave this value set to the de- fault. One exception is if you copied this extension under a CounterInputPoint for the purpose of returning a scaled total.
Offset	positive or nega- tive number, de- faults to 0.0	Can compensate for signal error introduced by sensor wiring resistance. If under a CounterInputPoint, leave it at zero (0).
Units	drop-down list	Defines the unit of measure. Should be the same as the parent proxy point's facets.
Fault Cause	read-only	Reports the reason why a network, component, or extension is in fault. Fault Cause is blank unless a fault exists.

# **Digital input points**

Configures a Boolean Input proxy point.

Figure 426 Digital Input, Configuration tab



You access this view from the main menu by clicking **Controller Setup**→**Remote Devices**→**Remote Drivers**, followed by double-clicking the NrioNetwork driver, selecting and double-clicking a module, clicking the **Point Manager** link, clicking the **Digital Points** tab, followed by clicking the hyperlink on a Digital Input point.

The input facets and proxy extension properties are the same as those documented for other Nrio proxy points.

Property	Value	Description
Facets	additional properties	Refer to .
Proxy Ext	additional properties	Refer to .
Status	read-only	Indicates the condition of the network, device or component at the last check.
		<pre>{ok} indicates that the component is licensed and polling successfully.</pre>
		{down} indicates that the last check was unsuccessful, per- haps because of an incorrect property, or possibly loss of net- work connection.
		{disabled} indicates that the <b>Enable</b> property is set to false.
		<pre>{fault} indicates another problem. Refer to Fault Cause for more information.</pre>

## Edit window

Figure 427 Facets Edit window

Edit	
True Text Frue ×	
Ok Cancel	

This window opens when you click the **Edit** button.

Property	Value	Description
True Text	text	Sets up the text to appear when Status for the point is true.
False Text	text	Sets up the text to appear when Status for the point is false.

# **Digital Proxy Ext properties**

Figure 428 Digital Proxy Ext properties

	Status	{fault,stale}
	Fault Cause	
	Enabled	true 🔻
	Conversion	Default 🔻
Proxy Ext	<b>Tuning Policy Name</b>	Default Policy
	Read Value	false {ok}
	Write Value	false {ok}
	Poll Frequency	Normal 🔻
	Instance	4
	Ui Type	Di _ Normal 🔻

In addition to the standard properties (Status, Fault Cause and Enabled), these properties configure this extension.

Property	Value	Description
Conversion	drop-down list	Defines how the system converts proxy extension units to pa- rent point units.
		Default automatically converts similar units (such as Fahren- heit to Celsius) within the proxy point.
		NOTE: In most cases, the standard Default conversion is best.
		Linear applies to voltage input, resistive input and voltage output writable points. Works with linear-acting devices. You use the Scale and Offset properties to convert the output val- ue to a unit other than that defined by device facets.
		Linear With Unit is an extension to the existing linear con- version property. This specifies whether the unit conversion should occur on "Device Value" or "Proxy Value". The new lin- ear with unit convertor, will have a property to indicate whether the unit conversion should take place before or after the scale/offset conversion.
		Reverse Polarity applies only to Boolean input and relay output writable points. Reverses the logic of the hardware bi- nary input or output.
		500 Ohm Shunt applies to voltage input points only. It reads a 4-to-20mA sensor, where the Ui input requires a 500 ohm resistor wired across (shunting) the input terminals.
		Tabular Thermistor applies to only a Thermistor input point and involves a custom resistance-to-temperature value response curve for Type 3 Thermistor temperature sensors.
		Thermistor Type 3 applies to an Thermistor Input point, where this selection provides a "built-in" input resistance-to- temperature value response curve for Type 3 Thermistor tem- perature sensors.
		Generic Tabular applies to non-linear support for devices other than for thermistor temperature sensors with units in temperature. Generic Tabular uses a lookup table method sim- ilar to the "Thermistor Tabular" conversion, but without prede- fined output units.
Tuning Policy Name	drop-down list (de- faults to Default Policy)	Selects a network tuning policy by name. This policy defines stale time and minimum and maximum update times.
		During polling, the system uses the tuning policy to evaluate both write requests and the acceptability (freshness) of read requests.
Read Value	<b>read-only</b> true <b>or</b> false	
Write Value	<b>read-only</b> true <b>or</b> false	
Poll Frequency	drop-down list	Configures how frequently the system polls proxy points.

Property	Value	Description
Instance	number	Defines the point's I/O terminal address based on its hardware type.
		If duplicated (same instance as same hardware type, same board), the point reports a fault status.
		If an edit attempt is made to an instance already in use by an- other proxy point, the system discards the edit, and retains the previous instance value.
Ui Туре	drop-down list	

# **High Speed Counter**

This is a NumericPoint that configures a Ui to count dry-contact pulses up to 20 Hz, as well as to calculate a numeric rate. You specify which value is to appear in the Out slot (either Count or Rate) as a status numeric.

The proxy extension contains configuration properties for rate calculation, and a status property for total number of pulses counted since the counter was last set or reset.

Figure 429 High Speed Counter tab



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You access this view from the main menu by clicking **Controller Setup→Remote Devices→Remote Drivers**, double-clicking the **NrioNetwork** driver, double-clicking a module, clicking the **Point Manager** link, followed by clicking the hyperlink to the right end of the High Speed Counter point.

Property	Value	Description
Facets	additional properties	Refer to High Speed Counter Facets, page 446.
Proxy Ext	additional properties	Refer to High Speed Counter Proxy Ext properties, page 447.
Out	read-only	Reports the current value of the proxy point and its status.

## **High Speed Counter Facets**

Facets determine how a point's value displays in the station. High Speed Counter facets include a minimum, maximum, and decimal precision.

Figure 430 High Speed Counter Facets and Edit facets window

Edit			
Quantity m	isc ()	VIII (null)	~
Min	-Infinity		
Мах	Infinity		
Precision	1		
		Ok Cancel	

The Edit window opens when you click the **Edit** button.

Property	Value	Description
Quantity	drop-down list, de- faults to misc ()	Configures the formula.
Unit	defaults to null	Configures the default unit.
max	number, defaults to Infinity	Defines the maximum high speed counter value.
min	number, defaults to negative Infinity	Defines the minimum high speed counter value.
precision	number, defaults to 1	Defines the number of decimal places allowed.

# **High Speed Counter Proxy Ext properties**

Figure 431 High Speed Counter Proxy Ext properties

	Nrio Counter Input Proxy Ext ≽	
	Status	{disabled,fault,stale}
	Fault Cause	
	Enabled	true 🗸
	Conversion	Default 🗸
	Tuning Policy Name	Default Policy 🗸
	Read Value	0.00 {ok}
	Write Value	0.00 {ok}
	Poll Frequency	Normal 🗸
Proxy Ext	Instance	7
	Ui Туре	Di _ High Speed 🗸
	Output Select	Count 🗸
	Total	-1
	Rate	0.00
	Rate Calc Type	nrio:FixedWindowRateType

In addition to the standard properties (Status, Fault Cause, and Enabled), these properties support high speed counter proxy extensions.

Property	Value	Description
Conversion	drop-down list, de- faults to Default	Defines how the system converts proxy extension units to pa- rent point units.
		Default automatically converts similar units (such as Fahrenheit to Celsius) within the proxy point.
		<b>NOTE: In most cases, the standard</b> Default conversion is best.
		Linear applies to voltage input, resistive input and voltage output writable points. Works with linear-acting devices. You use the Scale and Offset properties to convert the output val- ue to a unit other than that defined by device facets.
		Linear With Unit is an extension to the existing linear con- version property. This specifies whether the unit conversion should occur on "Device Value" or "Proxy Value". The new lin- ear with unit convertor, will have a property to indicate whether the unit conversion should take place before or after the scale/offset conversion.
		Reverse Polarity applies only to Boolean input and relay output writable points. Reverses the logic of the hardware bi- nary input or output.
		500 Ohm Shunt applies to voltage input points only. It reads a 4-to-20mA sensor, where the Ui input requires a 500 ohm resistor wired across (shunting) the input terminals.
		Tabular Thermistor applies to only a Thermistor input point and involves a custom resistance-to-temperature value response curve for Type 3 Thermistor temperature sensors.
		Thermistor Type 3 applies to an Thermistor Input point, where this selection provides a "built-in" input resistance-to- temperature value response curve for Type 3 Thermistor tem- perature sensors.
		Generic Tabular applies to non-linear support for devices other than for thermistor temperature sensors with units in temperature. Generic Tabular uses a lookup table method sim- ilar to the "Thermistor Tabular" conversion, but without prede- fined output units.
Tuning Policy Name	drop-down list, de- faults to Default Policy.	Selects a network tuning policy by name. This policy defines stale time and minimum and maximum update times.
	4	During polling, the system uses the tuning policy to evaluate both write requests and the acceptability (freshness) of read requests.
Read Value	read-only	Displays the last value read from the device, expressed in device facets.
Write Value	read-only	Displays the last value written, using device facets.
Poll Frequency	drop-down list, de- faults to Normal	Selects among three rates (Fast, Normal and Slow) to deter- mine how often to query the component for its input value. The network's Poll Service defines these rates in hours, mi- nutes and seconds. For example:
		Fast may set polling frequency to every second.

Property	Value	Description
		Normal may set poll frequency to every five seconds.
		Slow may set poll frequency to every 30 seconds.
Instance	number	Defines the point's I/O terminal address based on its hardware type.
		If duplicated (same instance as same hardware type, same board), the point reports a fault status.
		If an edit attempt is made to an instance already in use by an- other proxy point, the system discards the edit, and retains the previous instance value.
Ui Туре	read-only	Identifies the Nrio Universal Input point type: Resistive Input, Boolean Output, etc.
Output Select	drop-down list, de- faults to Count	Specifies if count total (Count) or count rate (Rate) is at the Out slot as a status numeric.
Total	read-only	Reports the total number of pulses counted since the proxy ex- tension was last set or reset.
Rate	read-only	Reports the calculated rate based on the Rate Calc configuration.
Rate Calc Type	drop-down list	Defines the type of rate calculation: The purpose of these cal- culations is to report a meaningful value:
		FixedWindowRateType waits for the interval defined under the Rate Calc slot to elapse. Then it recalculates the rate based on the interval.
		SlidingWindowRatetype calculates the rate based on the specified interval every interval/window number of seconds. This updates the rate more frequently while maintaining the calculation based on the specified interval.
		TriggeredRateType adds a recalculateRate action to the parent point.
Rate Calc	additional	Provides one to three properties to use in the rate calculation:
	properties	<b>Scale</b> (defaults to 1) depends on the item quantity/pulse and desired rate units.
		Interval (not available if Rate Calc Type is Triggered Rate type) defaults to one (1) minute.
		Windows (available only if Rate Calc Type is SlidingWin- dowRateType defaults to six (6).
Rate Calc Time	read-only	Reports the timestamp of the last rate calculation.

# Relay Output points (digital)

Configures up to 16 digital Nrio relay output point terminals.

	Figure 432	Relay Output, (	Configuration	tab
--	------------	-----------------	---------------	-----

📄 Save 💣	Manage Extensions	칠 Point Ma	anager	🔘 Mar	nual Override	🥘 G	o to Module
Configuration	Active Schedule L	ink To Lii	nk From				
F	📝 E	dit					
Facets	1. fal: 2. tru	eText=false eText=true					
Proxy Ext	Nrio F	elay Output	Proxy Ext	»			
Status	false	(disabled,fau	lt,stale}				
In1	- {nu	}					
In2	- {nul	} »					
In3	- {nu	} »					
In4	- {nu	} »					
In5	- {nu	} »					
In6	- {nu	}					
In7	- {nu	} »					
In8	- {nu	l}					
In9	- {nu	} »					
In10	- {nu	} »					
In11	- {nu	} »					
In12	- {nu	l} »					
In13	- {nu	} »					
In14	- {nu	} ≫					
In15	- {null} »						
In16	- {nu	l} »					
Fallback	false	{ok} »					
Override Expira	ation 31 V	′ - Dec 🗸 - 🕇	1969 (	)7 🗸 : 0	0 🗸 PM 🗸 E	ST	
Min Active Time	+ 🗸	00000 h	00 m	00	S		
Min Inactive Ti	me + 🗸	00000 h	00 m	00	S		
Set Min Inactive Time On Start false 🗸							

You access this view from the Nrio Point Manager by clicking the Digital Points tab, followed by clicking the hyperlink on a Relay Output point.

Property	Value	Description
Facets	additional properties	Refer to Relay Out Facets, page 451.
Proxy Ext	additional properties	Refer to Relay out Proxy Ext properties, page 451.
Status	read-only	Indicates the condition of the network, device or component at the last check.
		$\{ \texttt{ok} \}$ indicates that the component is licensed and polling successfully.
		{down} indicates that the last check was unsuccessful, per- haps because of an incorrect property, or possibly loss of net- work connection.
		{disabled} indicates that the Enable property is set to false.
		<pre>{fault} indicates another problem. Refer to Fault Cause for more information.</pre>
In2-5, 7, and 9-16	true <b>or</b> false, <b>defaults to</b> false	Configures the amount of voltage coming from each of 16 inputs.
		When null is checked, the value displayed defaults to the in- coming value from the device. If you remove the check mark you can configure the In value.

Property	Value	Description
Fallback	true <b>or</b> false, <b>defaults to</b> false	Pre-defines and output value in case of a null input.
Override Expiration	Date and time drop-down lists.	Defines an expiration date and time.
Min Active Time	hours, minutes, seconds	Specifies a minimum amount of time that a device must run once it is started.
Min Inactive Time	hours, minutes, seconds	Specifies a minimum amount of time that a device must be idle once it is stopped.
Set Min Inactive Time On Start	true <b>or</b> false, <b>defaults to</b> false	Configures the system to set the minimum inactive time when the station starts.
		Minimum active and inactive times prevent short-cycling of equipment controlled by a point.

## **Relay Out Facets**

As a Boolean writable, these proxy points support two states, which default to true or false.

Figure 433 Relay Output Configuration Facets

Edit		
True Text brue ×		
False Text false		
Ok Cancel		

You use this window to configure different text (other than true and false) when the station writes this Boolean value.

## **Relay out Proxy Ext properties**

The proxy extension properties are the same as those documented for other Nrio proxy points.

Figure 434 Relay Out Proxy Ext properties

	Nrio Relay Output Proxy	/ Ext ≽	
	Status	{disabled,fault,stale}	
	Fault Cause		
	Enabled	true 🗸	
Proxy Fxt	Conversion	Default	$\sim$
TON LA	<b>Tuning Policy Name</b>	Default Policy 🗸	
	Read Value	false {ok}	
	Write Value	false {ok}	
	Poll Frequency	Normal 🗸	
	Instance	1	

In addition to the standard properties (Status, Fault Cause and Enabled), the relay out proxy extension provides these properties

Property	Value	Description
Conversion	drop-down list (de- faults to Default)	Defines how the system converts proxy extension units to pa- rent point units.
		Default automatically converts similar units (such as Fahrenheit to Celsius) within the proxy point.
		<b>NOTE: In most cases, the standard</b> Default <b>conversion is best</b> .
		Linear applies to voltage input, resistive input and voltage output writable points. Works with linear-acting devices. You use the Scale and Offset properties to convert the output val- ue to a unit other than that defined by device facets.
		Linear With Unit is an extension to the existing linear con- version property. This specifies whether the unit conversion should occur on "Device Value" or "Proxy Value". The new lin- ear with unit convertor, will have a property to indicate whether the unit conversion should take place before or after the scale/offset conversion.
		Reverse Polarity applies only to Boolean input and relay output writable points. Reverses the logic of the hardware bi- nary input or output.
		500 Ohm Shunt applies to voltage input points only. It reads a 4-to-20mA sensor, where the Ui input requires a 500 ohm resistor wired across (shunting) the input terminals.
		Tabular Thermistor applies to only a Thermistor input point and involves a custom resistance-to-temperature value response curve for Type 3 Thermistor temperature sensors.
		Thermistor Type 3 applies to an Thermistor Input point, where this selection provides a "built-in" input resistance-to- temperature value response curve for Type 3 Thermistor tem- perature sensors.
		Generic Tabular applies to non-linear support for devices other than for thermistor temperature sensors with units in temperature. Generic Tabular uses a lookup table method sim- ilar to the "Thermistor Tabular" conversion, but without prede- fined output units.
Tuning Policy Name	drop-down list (de- faults to Default Policy)	Defines the assigned tuning policy. During polling, the system uses the network driver's tuning policy to evaluate both write requests and the acceptability (freshness) of read requests.
Read Value	read-only	Displays the last value read from the device, expressed in device facets.
Write Value	read-only	Displays the last value written, using device facets.

Property	Value	Description
Poll Frequency	drop-down list	Selects among three rates (Fast, Normal and Slow) to deter- mine how often to query the component for its input value. The network's Poll Service defines these rates in hours, mi- nutes and seconds. For example:
		Fast may set polling frequency to every second.
		Normal may set poll frequency to every five seconds.
		Slow may set poll frequency to every 30 seconds.
Instance	number	Defines the point's I/O terminal address based on its hardware type.
		If duplicated (same instance as same hardware type, same board), the point reports a fault status.
		If an edit attempt is made to an instance already in use by an- other proxy point, the system discards the edit, and retains the previous instance value.

# Voltage Output points

This is a NumericWritable point that represents a 0-to-10Vdc analog output (AO).

Figure 435 Voltage Output tab

Voltage Output	Link To Link From			
Facets	Edit 1. max=10 2. min=0 3. precision=1 4. units=1/			
Proxy Ext	Nrio Voltage Output Proxy Ext »			
Out	0.0 V {disabled,fault,stale}			
In1	- {null}			
In2	- {null} »			
In3	- {null} »			
In4	- {null} »			
In5	- {null} »			
In6	- {null} »			
In7	- {null} »			
In8	- {null}			
In9	- {null} »			
In10	- {null} »			
In11	- {null} »			
In12	- {null} »			
In13	- {null} »			
In14	- {null} »			
In15	- {null} »			
In16	- {null} »			
Fallback	0.0 V {ok} »			
Override Expiratio	n 31 ∨ - Dec ∨ - 1969 07 ∨ : 00 ∨ PM ∨ EST			

You access it from the Nrio Point Manager, Analog Points tab by clicking the hyperlink on a Voltage Output point.

Property	Value	Description
Facets	additional properties	Refer to Voltage Output Facets properties, page 454.
Proxy Ext	additional properties	Refer to Voltage Output Proxy Ext properties, page 454.
Out	read-only	Reports the current value of the proxy point and its status.
In2-7 and 9-16	number of volts between 0.00 and 10.0, defaults to 0.0	Configures the number of output volts.
Fallback	number of volts between 0.00 and 10.0, defaults to 0.0	Creates a pre-defined output value in case of a null input.
Override Expiration	Date and time drop-down lists.	Defines when a waiting period is over and an action is auto- matically issued to a point.

## **Voltage Output Facets properties**

Facets determine how a point's value displays in the station. Voltage Output facets include voltage numbers and decimal precision.

Figure 436 Voltage Output facets and Edit facetw window

Edit		
Quantity 📴	lectric potential (m²·kg·s-3·A-1)	
Min	0.0	
Max	10.0	
Precision	1	
Ok Cancel		

Property	Value	Description
Quantity	drop-down lists, defaults to elec- tric potential.	Configures the formula.
Unit	defaults to Volts	Configures the default unit.
max	number, defaults to 0.0	Defines the maximum high speed counter value.
min	number, defaults to 10.0	Defines the minimum high speed counter value.
precision	number, defaults to 1	Defines the number of decimal places allowed.

## Voltage Output Proxy Ext properties

Nrio-capable controllers and external I/O modules typically have some number of relay-type digital outputs (DO) and/or 0-to-10Vdc analog output (AO) terminals.

The driver supports two writable points:

• RelayOutputWritable, which is a standard BooleanWritable point with an NrioRelayOutputWritable proxy extension.

This point defaults to normal logic, that is, an input value of true closes the contacts. A Conversion type of Reverse Polarity reverses the Boolean state going from input to output, thus opening the contacts.

• VoltageOutputWritable, which is a standard NumericWritable point with an NrioVoltageOutputWritable proxy extension.

This point represents a 0-to-10Vdc analog output with additional override properties.

Figure 437 Voltage Output Proxy Ext properties

	Nrio Voltage Input Proxy Ext ≽			
	Status	{disabled,fault,stale}		
	Fault Cause			
	Enabled	true 🗸		
	Conversion	Default 🗸		
Proxy Ext	Tuning Policy Name Default Policy 🗸			
	Read Value	0.00 V {ok}		
	Write Value	0.00 V {ok}		
	Poll Frequency	Normal 🗸		
	Instance	1		
	Ui Туре	Ai _Oto10 _vdc 🗸		

In addition to the standard properties (Status, Fault Cause, and Enabled), these properties support voltage output proxy extensions.

Property	Value	Description		
Conversion	drop-down list, de- faults to Default	Defines how the system converts proxy extension units to pa- rent point units.		
		Default automatically converts similar units (such as Fahren- heit to Celsius) within the proxy point.		
		<b>NOTE: In most cases, the standard</b> Default conversion is best.		
		Linear applies to voltage input, resistive input and voltage output writable points. Works with linear-acting devices. You use the Scale and Offset properties to convert the output val- ue to a unit other than that defined by device facets.		
		Linear With Unit is an extension to the existing linear con- version property. This specifies whether the unit conversion should occur on "Device Value" or "Proxy Value". The new lin- ear with unit convertor, will have a property to indicate whether the unit conversion should take place before or after the scale/offset conversion.		
		Reverse Polarity applies only to Boolean input and relay output writable points. Reverses the logic of the hardware bi- nary input or output.		
		500 Ohm Shunt applies to voltage input points only. It reads a 4-to-20mA sensor, where the Ui input requires a 500 ohm resistor wired across (shunting) the input terminals.		
		Tabular Thermistor applies to only a Thermistor input point and involves a custom resistance-to-temperature value response curve for Type 3 Thermistor temperature sensors.		
		Thermistor Type 3 applies to an Thermistor Input point, where this selection provides a "built-in" input resistance-to- temperature value response curve for Type 3 Thermistor tem- perature sensors.		
		Generic Tabular applies to non-linear support for devices other than for thermistor temperature sensors with units in temperature. Generic Tabular uses a lookup table method sim- ilar to the "Thermistor Tabular" conversion, but without prede- fined output units.		
Tuning Policy Name	drop-down list, de- faults to Default Policy.	Selects a network tuning policy by name. This policy defines stale time and minimum and maximum update times.		
	4	During polling, the system uses the tuning policy to evaluate both write requests and the acceptability (freshness) of read requests.		
Read Value	read-only	Displays the last value read from the device, expressed in device facets.		
Write Value	read-only	Displays the last value written, using device facets.		

Property	Value	Description
Poll Frequency	drop-down list (de- faults to Normal)	Selects among three rates (Fast, Normal and Slow) to deter- mine how often to query the component for its input value. The network's Poll Service defines these rates in hours, mi- nutes and seconds. For example:
		Fast may set polling frequency to every second.
		Normal may set poll frequency to every five seconds.
		Slow may set poll frequency to every 30 seconds.
Instance	number	Defines the point's I/O terminal address based on its hardware type.
		If duplicated (same instance as same hardware type, same board), the point reports a fault status.
		If an edit attempt is made to an instance already in use by an- other proxy point, the system discards the edit, and retains the previous instance value.

## Manage Extensions windows

These windows add extensions to the Point Manager views. Both analog and digital views support the addition of extensions. The extensions appear as additional tabs on the input and output views.

Figure 438 Add Extensions windows

Manage Point Ext	ensions	
How would you	like to Manage Point Extensions	2
Copy	Alarm Source Ext OBoolean Interval History Ext OBoolean Cov History Ext	Add Point Extension Point Extension Type Alarm Source Ext Name
O <mark>₩</mark> Cut	Ok Cancel	Ok Cancel

You can access this view from the Manage Extensions view by clicking the Manage Point Extensions tab, and following the wizard.

Following are the buttons in the Manage Point Extensions Window:

You can add Alarm Source extensions, History Extensions, and create links between appropriate points using standard assign Mode features.

Extension properties are sensitive to point types (digital, analog, output, input).

# **History Setup tab**

This tab configures one or more history extensions associated with a specific point. This history extension could go on any point. When added to a point it appears as a tab on the point's view.

Figure 439 History Setup tab

🔚 Save 💣 Manage Extensions 🔯 Point Manager 🥘 Go to Module						
Temperature Input History Setup Link To						
Numeric Interval History Ext Link to History						
Status	{disabled}					
Fault Cause						
Enabled	true 🗸 🗸	└─── [	Enable	History		

The system displays this tab when you click the **Manage Extensions** button at the top of a proxy point view and create a Numeric Interval or Numeric Cov History Extension. To start recording history records, you must enable the extension on this tab.

Once created, you access this tab from the Nrio Point Manager by clicking the hyperlink for one of the input, counter or output points.

In the History Setup tab, click on the point History Ext link to navigate to the History Extension tab, where you can refer to details about the history record.

#### Links

The links at the top of this tab provide these functions:

- Point Manager opens the Nrio Point Manager view.
- **Go To Module** opens the **Go to Module** window for navigating to another Nrio module under the controller's Nrio Network. The system populates this window only when there are two or more Nrio modules on the network.

## **Active Schedule tab**

This extension learns and assigns the active schedule to an output point. It may be used for multiple points.

Figure 440 Active Schedule tab



You access this view by clicking **Controller Setup Remote Devices Remote Drivers**, followed by double-clicking the NrioNetwork row in the table, double-clicking a module row in the Nrio Device Manager view, clicking the **Point Manager** button, clicking the **Digital Point** tab, clicking the link to an output point, and clicking the Active Schedule tab.

## Columns

Column	Description
Display Name	Displays the schedule name.
Usage	Displays the aspect of the system controlled by the schedule.
Status	Indicates the health of the schedule.
Out Source	Reports the current schedule's source, such as "Week: Monday," "Special Event: Christmas Break"
Out	Indicates the health of the output source.
Next Time	Indicates the next time an event is scheduled to occur.
Next Value	Indicates the expected value the next time the event occurs.
To Display Path String	Identifies the path in the station where the schedule is stored.

## Link to tab

These learn mode tabs link points to other discovered points. This tab is available on multiple point extensions.

Figure 441 Nrio edit point view (showing Link To error)

Configuration Histor	y Setup Active Schedule Link To	Link From					
Newly Assigned							
0							
Display Name 🙏	Out			To Display Path String			
Beeper	false {ok} @ def	- {null}	- {null}	/Drivers/Access Network/Remote Reader Module1/points/Door 1/Reader 1/beeper			
Unassigned							
0 🙆 🕎 [	a l			Page 1 of 2			
Display Name	Out	In10	In16	To Display Path String			
Beeper	false {ok} @ def	- {null}	- {null}	/Drivers/Access Network/Remote Reader Module1/points/Door 1/Reader 1/beeper			
Beeper	false {ok} @ def	- {null}	- {null}	/Drivers/Access Network/Remote Reader Module1/points/Door 2/Reader 2/beeper			
Green	false {ok} @ def	- {null}	- {null}	/Drivers/Access Network/Remote Reader Module1/points/Door 2/Reader 2/green			
Green	false {ok} @ def	- {null}	- {null}	/Drivers/Access Network/Remote Reader Module1/points/Door 1/Reader 1/green			
Invalid Badge	false {ok} @ def	- {null}	- {null}	/Drivers/Access Network/Remote Reader Module1/points/Door 1/Reader 1/invalidBadge			
Invalid Badge	false {ok} @ def	- {null}	- {null}	/Drivers/Access Network/Remote Reader Module1/points/Door 2/Reader 2/invalidBadge			
Red	false {ok} @ def	- {null}	- {null}	/Drivers/Access Network/Remote Reader Module1/points/Door 1/Reader 1/red			
Red	false {ok} @ def	- {null}	- {null}	/Drivers/Access Network/Remote Reader Module1/points/Door 2/Reader 2/red			
Ro1	false {disabled,stale} @ def	- {null}	- {null}	/Drivers/Access Network/Remote Reader Module1/points/ro1			
Ro2	false {disabled,stale} @ def	- {null}	- {null}	/Drivers/Access Network/Remote Reader Module1/points/ro2			

You access this view from the Nrio Point Manager by clicking the hyperlink next to a point on the Analog Points or Digital Points tab, followed by clicking the Link To tab.

Table 90Link To columns

Column	Description
Display Name	Identifies the name of the point.
Out	Reports the Out value.

Column	Description		
In10	Reports the In10 value.		
In16	Reports the In16 value		
To Display Path String	Reports the path to the point.		

# Link From tab

These learn mode tabs link from points to other discovered points. This tab is available for analog voltage output, and digital relay output points only. This tab is available on multiple point extensions.

Figure 442 Link From tab

🔚 Save 🖉 Manage Extensions 📔 Point Manager 🔘 🔿 Manual Override	😡 Go to Module	
Configuration History Setup Active Schedule Link To Link From		
Assigned		
Display Name 🔥	Out	To Display Path String

You access this view from the Nrio Point Manager by clicking Digital Points tab, the hyperlink next to the Relay Output point, followed by clicking the Link From tab.

Table 91 Link From columns

Column	Description		
Display Name	Identifies the name of the point.		
Out	Reports the Out value.		
To Display Path String	Reports the path to the point.		

# **History Extension view**

This view configures each history extension.

Figure 443	Example	e of a Nun	neric Cov	History	Ext view
------------	---------	------------	-----------	---------	----------

🗾 Numeric Cov Histe	ory Ext (history:Nur	nericCovHistoryExt)			
🔘 Status					
Fault Cause					
Enabled					
Active Period					
Active					
History Name					
History Config	Interval: irregular, I	Record Type: numeric trend re	cord, Capacity: 500 records, F	ull Policy: Roll »	
Last Record	Interval: irregular, Record	Type: numeric trend record, Capacit	ty: 500 records, Full Policy: Roll ≽		
Change Tolerance	Id	7 7			
Precision	Time Zone	NULL (+0)	$\overline{}$		
Ø Min Rollover Value	Record Type	history:NumericTrendRecord			
Max Rollover Value	Capacity	Record Count 🗸 500	records		
	Full Policy	Roll 🗸			
	Interval	irregular 🗸		Refresh Save	
	System Tags				
		🖻 Edit	Edit		
	valueFacets	1. max=10 2. min=0			
		3. precision=1 4. units=V	Facet Key	Facet Value	
	minRolloverValue	✓null 0.00		10	O Add
	maxRolloverValue	✓null 0.00		1	O Delete
	precision	32 bit 🗸		volt (V) »	
				Ok Cancel	
	_	<u>k_</u>			

The screen capture uses the Numeric Cov History Ext as an example view. The other extensions support similar properties.

You access this view from the Nrio Point Manager by clicking the hyperlink next to a point on the Analog Points or Digital Points tab, followed by clicking the History Setup tab and the history name hyperlink.

#### **Properties**

In addition to the standard properties (Status, Fault Cause, and Enabled), these properties support the history extension.

Property	Value	Description
Active Period	read-only	Indicates when data are being collected.
Active	true <b>or</b> false	Indicates if data collection is currently active, as defined by the <b>Active Period</b> properties.
History Name	wild card (%), de- faults to % parent. name%	Names each history using a standardized formatting pattern. The default format automatically names histories with the name of the parent component and appends a sequential num- ber to additional names, as necessary.
History Config, ID	read-only	Displays the value configured in the history extension's His- tory Name property. An error string here indicates that the History Name property is incorrectly defined.

Property	Value	Description
History Config, Source	read-only ORD	Displays the ORD of the active history extension.
History Config, Time Zone	read-only text	Displays the time zone of the active history extension.
History Config, Re- cord Type	read-only text	Displays the data that the record holds in terms of: extension type (history) and data type (BooleanTrendRecord, numeric-TrendRecord, and so on).
History Config, Capacity	number, defaults to 500	Defines local storage capacity for histories.
History Config, Full Policy	drop-down list	Defines what happens when a history table reaches its maxi- mum record count.
History Config, Interval	read-only, defaults to 500	Reports the number of records the system stores in the local station. In general, 500 or less is adequate for a controller station because local records are exported to the Supervisor station. A large number, such as 250,000 is acceptable for Supervisor stations. Unlimited is not recommended even for a Supervisor station.
History Config, System Tags	read-only	Reports any additional metadata (the System Tag) included in a history extension. Tags are separated by semicolons. Tags can be used to filter the import and export of histories.
History Config, valueFacets	read-only	Defines the units to use when displaying the data.
History Config, minRolloverValue	read-only	Reports the smallest difference between timestamped values recorded.
History Config, maxRolloverValue	read-only	Reports the largest difference between timestamped values recorded.
History Config, precision	read-only	Reports the number of bits used for history data logging. The 64-bit option permits high precision, but consumes memory than 32-bit logging.
Last Record	read-only	Serves as a container for sub-properties that describe attrib- utes of the last recorded change. The properties reported in- clude date/time, time zone, the operation that generated the record, and the user who made the change.
Change Tolerance	Defaults to 0.00	Defines a value outside of which the system records a history record for each change of value. A change of value triggers a history record. To minimize the quantity of records created, you can configure the system to ignore changes that fall within the tolerance amount. If a change exceeds the Change Tol-erance value, the system records a history record.
Precision	Defaults to 32	Reports the number of bits used for history data logging. The 64-bit option permits high precision, but consumes memory than 32-bit logging.
Min Rollover Value	read-only	Reports the smallest difference between timestamped values recorded.
Max Rollover Value	read-only	Reports the largest difference between timestamped values recorded.

# Set COM Port window

This window configures the COM port used by Nrio devices.

Figure 444	Set COM Port for Nrio	devices
------------	-----------------------	---------

Set COM Port	
Port Name	COM2 ×
Trunk	1
	Ok Cancel

This window opens from the Nrio Device Manager when you click the Set COM Port button (

Property	Value	Description
Port Name	text	Defines the communication port to use: none, COM2 or COM3.
Trunk	number	Each RS-485 connection is called a trunk. If your network has multiple RS-485 trunks, a separate network and remote I/O module is required to support each. This property specifies which trunk the port is connected to.

# Upload window

The upload function reads transient (nvs) and persistent (ncis and cps) data from the device and writes them to the station database. This window selects the type of data to upload.





This window opens from the Nrio Device Manager when you click the Upload button (鱼).

Typically, you leave the upload properties at their default settings of true.

Property	Value	Description
Recursive	true <b>or</b> false	Recursive data are data that may contain other values of the same type. These data define dynamic structures, such as lists and trees. Such data can dynamically grow in response to run- time requirements. The uploading of recursive data is always recommended.
Upload Transient	true <b>or</b> false	Transient data typically store current session information, which the system clears when it resets the device.
Upload Persistent	true <b>or</b> false	Persistent data are frequently accessed and not likely to be modified.

# Download window

This window configures the Nrio download function, which writes data from the system database to the target device.

Figure 446 Download window



This window opens from the Nrio Device Manager when you click the Download button (🕭).

The single download property turns the download function off (false) and on (true).

Typically, you leave this property at its default setting of true.

## **Filter window**

This window defines search criteria for limiting the number of Nrio devices displayed in the Nrio Device Manager view.

Figure 447 Nrio Device Manager Filter window

Filter			
Display Name	%	Must Include	Case Sensitive
Enabled	false $\checkmark$		
Status	%	Must Include	Case Sensitive
Device Type			
🗌 Uid	%	Must Include	✓ ✓ Case Sensitive
Installed Version	%	Must Include	Case Sensitive
Available Version	%	Must Include	Case Sensitive
	Ok Cancel		

this window opens from the Nrio Device Manager view when you click the Filter button ( ).

Property	Value	Description
Display Name	wild card (%)	Searches based on the name of the device.
Enabled	true <b>or</b> false	Searches based on if the device is currently enabled (true) or disabled (false).
Status	wild card (%)	Searches based on the current state of the device.
Device Type	Enums chooser	Searches based on the type of device (None, Base Board Reader, Remote Reader, Remote Input Output, Io16, Io16 V1, Io34, Io34sec).
Uid	wild card (%)	Searches based on the device's Universal ID.
Installed Version	wild card (%)	Searches based on the software version installed in the device.
Available Version	wild card (%)	Searches based on the software version.

# Chapter 17 Obix Network view

#### Topics covered in this chapter

Obix links

The Obix Network view includes tabs for configuring the Obix Network and Obix clients.

Figure 448 Obix Network view

🚰 Home	60° Monitoring	A Persor	nnel 📄 Rep	orts 💣 System S	etup
📰 Schedu	iles 🛛 🚨 User Ma	anagement	1 Backups	Remote Devices	ð 4
Save	💹 Ping 🚺	Drivers			
Obix Netw	ork				
Status	{ok}				
Enabled	true 🗸				
Fault Cause					
/					1

You access this view from the Supervisor's main menu by clicking **System Setup→Remote Devices→Remote Drivers** followed by double-clicking the Obix Network row in the drivers table. If the

driver has not been added yet to the view, click the Manage Devices button () and add the Obix Network to the database.

# **Obix links**

The control links appear across the top of the view.

These links include the following:

- Save updates any configuration changes made in the view.
- Manage Clients opens the Manage Clients window for adding, deleting, renaming, duplicating, copying or cutting, and pasting clients in the view.
- **Ping** initiates a job that pings the Obix Network and any clients under the network. The system displays job results (success or failure).
- Drivers links to the Drivers view.

The standard properties (Status, Fault Cause, and Enabled) support this driver.

# Chapter 18 Photo ID management

#### Topics covered in this chapter

- Photo ID Network view
- Asure ID Client Device view
- ◆ Asure ID Device.[template] view
- Edit Photo ID Template Data view
- Photo ID Viewers view
- Photo ID Viewer (surveillance) view

These views manage the applications that together issue photo ID badges and monitor building entry.

**NOTE:** The Photo ID Network is available to run in the Supervisor station. It does not run in a controller station.

If you have not added the driver to the Supervisor station, click **System Setup→Remote Devices→ Remote** 

**Drivers**, click the Manage Devices button (^(C)) and add the Photo ID Network. This requires a station restart.

# Photo ID Network view

This view manages the applications that together issue photo ID badges and monitor building entry.



Assuming the Photo ID Network is set up and the station has restarted, you access this view from the Supervisor's main menu by clicking **Photo ID** 

#### Database pane

In addition to the standard control buttons (Hyperlink, Delete, Rename, Filter, Reports, and Export), the Photo ID Network pane contains these specific buttons:

- Discover opens the Discover window, which defines the database search. Based on this information, the discovery job interrogates the target location for data, such as historical and current point values as well as properties provided by the database.
- Manage Devices/Drivers opens the Manage Drivers or Manage Devices window, which is used to Add, Delete, Rename, Duplicate, Copy, and Cut system drivers or devices.
- Settings opens the Photo ID Settings window.
- E kearn Mode buttons open and close the Discovered pane in a manager view to show or hide the control buttons and any discovered items (devices, points, database properties, etc.).

#### **Discovered** pane

In addition to the standard control buttons (Filter and Export), the Photo ID Network pane contains these specific buttons:

- Add discovered item(s) moves one or more discovered items from the Discovered pane to the Database pane. It is available when items are selected (highlighted) in the Discovered pane. Before the item(s) are added, a window opens with properties to configure them.
- Call Match initiates an action to add a single item to the system database. It is available only when you select an item in both the Database pane and the Discovered pane of a manager view. This action associates the discovered item with the selected item that is already in the database—usually an item previously added off line. The added item assumes the properties defined for it in the database. You can edit properties after adding the item. (This button also synchronizes similar schedules (subordinate to supervisor) under a single name.)

# Photo ID Add device window

This window configures the properties of a new PhotoID device.

Figure 449 PhotoID Add Device wi
----------------------------------

Add Device	
Device Type	Asure ID Client Device
Name	Asure ID Client Device
Host Name	
Entsec AsureID Port	3001
	Ok Cancel

You access this view from the Supervisor's main menu by clicking **Photo ID** followed by clicking the Manage Devices button (), clicking Add, selecting the Asure Id Client Device, and clicking **Ok**.

Property	Value	Description
Device Туре	read-only	Identifies the type of device: server or client.
Name	text	Provides a unique name for the Asure ID Device.
Host Name	text	Defines the platform host name or the IP address of the com- puter that is running EntsecAsureID.
Entsec AsurelD Port	number (defaults to 3000)	Identifies the port used for the EntsecAsureId connector.

# Settings window

Use this window to establish the connection between the Obix Network and the EntsecAsureID running in the Photo ID workstation.


To open this window on the Photo ID workstation, right-click the EntsecAsureID icon () in the system tray, and select the Settings menu option.

Property	Value	Description
Host	<pre>https:// <frameworksta- tion=""> or http:// <frameworksta- tion=""></frameworksta-></frameworksta-></pre>	Defines the address of the PC or remote controller that is run- ning the <frameworkstation>, where <frameworksta- tion&gt; is an IP address or URL. You can use localhost if the Photo ID workstation shares the same platform as the frame- work Supervisor station.</frameworksta- </frameworkstation>
		Secure communication (https:) is the recommended approach. Http: is not secure. Using it exposes your system to being hacked.
User, Password	text	Define the login credentials for the Obix Network connection as configured in the station by the oBIX user and role.
EntsecAsureID Port	number	Defines the port number for oBIX host communication.
Run On Started	check box	When enabled, starts the applet when the host computer starts. This can also be set from the EntsecAsureID menu. You should enable this property.
Enable Legacy Obix Server	check box	Turns on and off support for legacy oBIX operations.

# **Configure window**

This window configures the photographs taken by the camera.

Configure	
Default Image Ratio	Ratio 💙 width: 3 height: 4
Default Image Format	JPG 🔽
Max Image File Size	5000 KB [1 - +inf]
PhotoID Timeout	000000 h 00 m 00 .000 s [0ms - +inf]
PhotoID Format	<pre>% lastPersonName% %validateTimestamp% %lastBadgeActivity%</pre>
Photo I D Font Size	17
	Ok Cancel

This window opens when you click the Settings button (P) on the Photo ID Network view.

Property	Value	Description
Default Image Ratio	drop-down list and numeric fields.	Controls the aspect ratio of the photograph: Ratio sets the default ratio for photos created to conform to the photo property defined by the Asure ID template. Free- hand allows the person taking the photo to use the freehand tool to crop the photo.
Default Image Format	drop-down list	Defines the default format: JPG or PNG. You can still use the other format for individual photos.
Max Image File Size	number (defaults to 5000 KB)	Defines the maximum size of the photo. Photos, especially those uploaded from another source, cause an error if the exceed this size.
PhotoID Timeout	hours, minutes, seconds	Controls how long a photo remains visible for surveillance pur- poses. The default is 0 (zero), which indicates no timeout. Set this value so that you are always monitoring current activity.
PhotoID Format	text	Controls the text that appears along with the photo. This fea- ture uses standard BFormat notation.
Photo Id Font Size	printer's points	Controls the size of the font used to display the text that appears along with the photo.

# Asure ID Client Device view

This view configures Asure ID as a client device of the Photo ID station (the server).

Figure 450 Asure ID Client Device tab

🚰 Home 🛛 ốơ Moni	toring Personnel Reports System Setup Photo
🔚 Save 🔣 Ping	Photo ID Network
Asure ID Client Dev	Templates
Status	{down,alarm,unackedAl
Enabled	true 🗸
Fault Cause	
Health	Fail [07-Sep-18 1:15 PM EDT] AsureIDClient has not been identified
Alarm Source Info	Alarm Source Info »
Кеу	
Host Name	
Entsec AsureID Port	3001
Timeout	+ V 00000 h 01 m 00 s
<	

You access this view from the Supervisor's main menu by clicking **Photo ID** followed by double-clicking the Asure ID Client Device row in the Photo ID Network table.

#### Links

In addition to the Save link, these links support the Asure ID client device.

- **Ping** sends a message to the device to confirm that it is on line.
- Photo ID Network returns to the Photo ID Network view.

#### Properties

In addition to the standard properties (Status, Enabled, Fault Cause, Health, and Alarm Source Info), these properties support an Asure ID client device.

Property	Value	Description
Кеу	read-only	Displays a unique identifier for a particular EntsecAsureID (non-legacy) device and is provided automatically during dis- covery. After manually adding the EntsecAsureID device, you match with the discovered device in order to populate this property.
Host Name	text	Defines the platform host name or the IP address of the computer that is running EntsecAsureID.
EntsecAsureID Port	text	Identifies the port used for the EntsecAsureId connector.
Timeout	hours minutes seconds	Defines how long to wait for network communication to begin before returning a fault.

#### Templates tab

This view opens the Photo ID Template Manager - Database view. This discovery view locates Asure ID templates to add to the database.

Figure 451 Templates tab

🚰 Home 🛛 🖧 Monitoring 🛛 웥 Personnel 📄 Reports	System Setup Photo ID
Save Ming Photo ID Network	
Asure ID Client Device Templates	
Photo ID Template Manager - Database	
Display Name \Lambda	Tenants
1	<b>`</b>
	/

You access this view from the Supervisor's main menu by clicking **Photo ID**, double-clicking the Asure ID Client Device row in the table and clicking the **Templates** tab.

Use this tab to discover the template(s) created using the Asure ID software.

**NOTE:** Once a template is found and associated with a tenant, do not change the name of the template file. Renaming a template removes the associated tenant.

#### Links

In addition to the Save link, these links support the Asure ID client device.

- **Ping** sends a message to the device to confirm that it is on line.
- Photo ID Network returns to the Photo ID Network view.

#### **Buttons**

In addition to the standard buttons (Discover, Delete, Filter, Refresh, and Export), these buttons support Asure ID templates in the Database pane.

- legislation of the Badge view for the selected template.
- Discovered pane in a manager view to show or hide the control buttons and any discovered items (devices, points, database properties, etc.).

In addition to the standard buttons (Add, Filter, and Export), the Match button (¹) in the Discovered pane associates a discovered template with one that is already in the database.

#### Columns

Column	Description
Display Name	Identifies the template.
Tenants	Indicates the tenants to which it applies.

# Asure ID Device.[template] view

This view opens a set of tabs for configuring badge templates. It opens to the **Template Data** tab.

You access this view from the Supervisor's main menu by clicking **Photo ID** followed by double-clicking the Asure ID Client Device row in the Photo ID Network table, and clicking the Templates tab.

The **Template Data** tab is a discovery view. You use it to discover new properties to add to the selected template. To edit a property, double-click its row in the table.

## Tenants tab

This tab on the Photo ID badge view lists the tenants assigned to the selected template.

You access this tab from the main menu by clicking **Photo ID** followed by double-clicking the Asure ID Client Device row in the Photo ID Network table, clicking the Templates tab, double-clicking a template row in the table, and clicking the **Tenants** tab.

#### **Buttons**

In addition to the standard buttons in the **Database** pane (Unassign, Filter, and Export), these buttons support associating tenants with Asure ID templates.

- 🕒 Summary displays the tenant details as entered in using the Personnel views.
- Byperlink opens the tenant information for editing.
- E Assign Mode buttons open and close the Unassigned pane.

#### Badges tab

This tab lists the badges to which the selected template has already been assigned. This is a discovery view. Use it to discover unassigned badges and assign them to this template.

You access this tab from the main menu by clicking **Photo ID**followed by double-clicking the Asure ID Client Device row in the Photo ID Network table, clicking the Templates tab, double-clicking a template row in the table, and clicking the **Badges** tab.

#### **Buttons**

In addition to the standard buttons in the **Database** pane (Unassign, Filter, and Export), these buttons support associating tenants with Asure ID templates.

• 🕒 Summary displays the badge details as entered in using the Personnel views.

- legitlesign of the second se
- E Assign Mode buttons open and close the Unassigned pane.

# Edit Photo ID Template Data view

This view edits the data that is bound to a template.

You access this view from the Supervisor's main menu by clicking **Photo ID** followed by double-clicking the Asure ID Client Device row in the Photo ID Network table, clicking the **Templates** tab, and double-clicking a template row in the **Template Data** view table.

The title of the view is the name of the data item (property) you are editing. For example, the data item may be "First Name," "Last Name," or "Department." The properties in this view vary depending on the data item. Some properties include:

Property	Value	Description
Data Type	read-only	Identifies the type of data.
Data Binding	drop-down list	Provides related options. The first property you select pro- vides appropriate options for the second property.
Image Ratio	drop-down list, width and height	Configures the aspect ratio for a photograph.
Image Format	drop-down list	Identifies the file type for the photograph.

# Photo ID Viewers view

This view associates a viewer with a camera and reader.

Home 60° Monito	ring 💊 Personnel [	Reports	💣 System Setup	📧 Photo ID
💼 Photo ID Network	Photo ID Viewers			
0 @ 0 -	<b>H</b>			
Display Name 🔥	Ca	meras	Readers	
PhotoIDViewer	-		-	
PhotoIDViewer1	-		-	

You access this view from the main Supervisor menu by clicking Photo ID→Photo ID Viewers.

#### Buttons

In addition to the standard buttons (Delete, Rename, Column Chooser, Filter, Manage Reports, and Export), these buttons support Photo ID viewers.

- O Add adds a new Photo ID viewer.
- legent Hyperlink opens the viewer.

#### Columns

Column	Description
Display Name	Identifies the viewer.
Cameras	Shows the cameras whose feeds are visible from the viewer.
Readers	Shows the readers associated with the viewer.

# Photo ID Viewer (surveillance) view

This view provides a pre-connfigured grid with various layout options for displaying all available video cameras and readers. The layout options display up to nine devices on a single view.

A Home 60' Monitoring	Personnel Deports	System Setup	97 Photo ID	A Threat Levels	<u>niagara</u> **
📽 Photo ID Network 👖 Phot	o ID Viewers				
PhotoIDViewer					
Drag a Device into a Grid					
Leyout					

Cameras show video. If Photo ID badges are enabled, readers show the photo ID of the person who used the reader. Using video and reader views together an operator can verify that the person entering (as seen by the video camera) is the same person who scanned the Photo ID badge.

#### Camera, reader list pane

The top left corner lists the cameras and readers connected to the station. Supervisor stations show all readers in the Supervisor database. You drag cameras and readers from this list to the camera-layout pane. The list pane contains these controls:

- The Layout drop-down list determines the layout pane configuration.
- The Reader button opens the Add Reader window, which provides a list of all available readers. The system adds the readers you select to the list pane.
- The Camera button opens the Add Camera window, which provides a list of all available cameras. The system adds the camera(s) you select to the list pane.

#### Right-click menu options in the list pane

- To remove a camera or reader form the list, right-click the device name in the list and click **Remove**.
- To remove a device from the layout pane, right-click the device name in the list and click **Remove from View**. The device name continues to appear in the list.

#### Camera layout pane

This pane shows a grid for displaying video views. This pane changes according to the option you select using the Layout property.

# Chapter 19 Workbench components in the entsec module

#### Topics covered in this chapter

- entsec-SecurityActivityMonitor (AX Alarm Console)
- entsec-SecurityAlarmConsoleOptions
- entsec-EnterpriseSecurityService
- entsec-AccessControlService (AX Property Sheet)
- entsec-ReplicationService (AX Property Sheet)

Components include services, folders and other model building blocks. You may drag them onto a property or Wire Sheet from a palette. These components configure system stations using Workbench.

The descriptions included in the following topics appear as headings in documentation. They also appear as context-sensitive help topics when accessed by:

- Right-clicking on the component and selecting Views-Guide Help
- Clicking Help→Guide On Target.

# entsec-SecurityActivityMonitor (AX Alarm Console)

This view can show all the types of system activity recorded at the designated controller or you can customize it to show only specific activities.

Figure 452	Security Alarm Monitor properties
------------	-----------------------------------

	: Config : Services + : E	nterpriseSecurityService : Activity Monitor	/	AX Property Sheet
Р	roperty Sheet Services			
1	Activity Monitor (Activity Mo	onitor)		
Þ	📔 Time Range	12:00 AM - 12:00 AM		
	Days Of Week	🖌 Sun 🖌 Mon 🖌 Tue 🖌 Wed 🖌 Thu 🖌 Fri 🖌 Sat		
	Transitions	🗹 toOffnormal 🗹 toFault 🗹 toAlert		
	📔 Route Acks	true		
	🗎 Status	{ok}		
	📔 Fault Cause			
	📔 Default Time Range	Time Range 🗸 ? to ? 🕓		
	History Consolidation	local: station: slot:/Services/EnterpriseSecurityService/auditHistory local: station: slot:/Services/EnterpriseSecurityService/logHistory local: station: slot:/Services/AccessControlService/accessHistory local: station: slot:/Services/AccessControlService/attendanceHistory local: station: slot:/Services/IntrusionService/intrusionHistory	⊕ <b>×</b>	:

You can access these property by double-clicking the **Services→EnterpriseSecurityService** in Nav tree. In addition to the standard properties (Status and Fault Cause). This property is unique to this service:

Property	Value	Description
Time Range	Start Time and End Time	Start Time sets the time of day to begin the function (for example, trigger schedule, alarm event)
Days of Week	check mark	Specifies the days of the week.

Property	Value	Description
Transitions	toOffnormal, toFault,toNor- mal,toAlert	Allows selection of specific alarm transitions to display in the console. Only those transitions that are selected will be dis- played in the console - even though the alarms are still saved into the alarm history.
Route Acks	true <b>(default) or</b> false	Enables and disables the routing of alarm acknowledgements to the recipient. Enable this property by selecting "true". Trap acknowledgements are not routed if "false" is selected.
Default Time Range	drop-down	Allows selection of Time Range for ActivityMonitor.
History Consolidation	text	

# entsec-SecurityAlarmConsoleOptions

This component configures the alarm console assigned to a specific user.

Figure 453	Security Alarm	Console Options	properties
------------	----------------	-----------------	------------

Droper	rty Sheet		
Fibper	ity sheet		
Alarr 🗎	mConsoleOptions (Security Alarm Co	onsole Options)	
L 🗍 🖬 🖬	Notes Required On Ack	🔵 true 🔍	
Q 1	Use Source Timezone	🛑 false 🔍	
) 🗐 (	Default Alarm Console	null	🖬 - 🕨
E E	Enable Video Settings	🔵 true 🔽	
) 🗎 I	Layout	Console and Playback	
<b>)</b>	Alarm Console Popup	Off 👻	
<b>)</b>	Action On New Alarm	Load Newest Alarm	
) 📄 /	Action On Video Acknowledgement	Load Newest Alarm 👻	
			• •
		💭 Refresh 🔲 Save	

You access these properties by double-clicking the Video Alarm Console Options node under Service- $s \rightarrow UserService \rightarrow admin$  (or other user name) in the Nav tree.

Property	Value	Description
Notes Required On Acktrue (default) or falseConfigures the requirement to acknowledges an alarm.		Configures the requirement to add a note when the operator acknowledges an alarm.
		true opens the Notes window when the operator initiates an alarm acknowledgment from the alarm console.
		false <b>does not require a note.</b>
Use Source Timezone	true <b>or</b> false ( <b>default</b> )	For time reporting, configures the console to report the time zone at the source of the alarm rather than at the location of the Supervisor station.

Property	Value	Description		
Default Alarm Console	Ord selector	In cases where you have more than one Alarm Console, this property selects the console that displays initially when an alarm console view opens.		
Enable Video Settings	true <b>(default) or</b> false	Displays and hides the video setting properties. When set to false, the following properties do not display in the view: Layout, Alarm Console Popup, Action on New Alarm, and Action On Video Acknowledgment.		
Layout	drop-down list	Lists the display options that are available for the Alarm Con- sole - Live view. The options determine what information the live console view displays. Some layouts include one or more video feeds.		
Alarm Console Popup		Enables and disables the alarm console popup feature. When enabled (on), new alarms open an alarm popup window.		
Action On New Alarm	drop-down list (de- faults to Load Newest Alarm)	For video alarms, determines alarm console behavior when a new alarm (with video) occurs.		
		Load Newest Alarm automatically displays video associated with the latest alarm.		
		Manual Alarm Selection displays no video until you select an alarm in the console.		
Action on Video Acknowledgment	drop-down list (de- faults to Load	Determines the video alarm console behavior when a video alarm is acknowledged from the video alarm controls.		
	Video)	Load Newest Alarm automatically displays the video associ- ated with the acknowledged alarm.		
		Manual Alarm Selection displays no video until you select the alarm in the console.		

# entsec-EnterpriseSecurityService

This component serves as the parent for a long list of components

Figure 151	Entor	nricoSaci	uritySa	rvica	properties
Figure 434	Enter	priseseci	unityse	IVICE	properties

EnterpriseSecurityService		🖍 🖌 AX Property Sheet
Property Sheet		
EnterpriseSecurityService (Enter	rprise Security Service)	A
📔 Status	{ok}	
📔 Fault Cause		
🗎 Enabled	🔵 true 🔽	
Db Ord	null	· · · ·
Antition Sys Def Security	Monitor Sys Def Security	
🕨 🛦 Activity Monitor	AlarmRecipient	
Alarm Classes	Alarm Classes	
Alarm Consoles	Alarm Consoles	
Email Recipients	Email Recipients	
Station Recipients	Station Recipients	
🕨 📣 Alarm History	Alarm History	
Alarm Source Exts	Alarm Source Exts	
Alarm Instructions	Alarm Ext Instructions	
🕨 🔍 Alarm Count Relays	Alarm Class Relay Links	
PDF Styles	Pdf Styles	
ninto	Points	

You access this **Property Sheet** by double-clicking the **EnterpriseSecurityService** under the **Services** folder in the Nav tree.

In addition to the standard properties (Status, Fault Cause and Enabled). this property is unique to this service:

Property	Value	Description
Db Ord	ORD	Identifies the location of the Orion database in the station.

#### entsec-MonitorSysDefSecurity (AX Property Sheet)

This component defines the role of Niagara station, Whether it will work as a Supervisor or Controller.

Figure 455	Security Monitor Sys Def Security

+ : Config : Services : EnterpriseSecurityService : Monitor Sys Def Security	1	AX Property Sheet 👻
Property Sheet		
Monitor Sys Def Security (Monitor Sys Def Security)		
Has Security Supervisor end false		
Has Security Subordinate 🛑 false		

Property	Value	Description
Has Security Supervisor	true <b>or</b> false	When it displays true then station works as a Security Super- visor. It does not work when displays false.
Has Security Subordinate	true <b>or</b> false	When it displays true then station works as a Security Subor- dinate. It does not work when displays false.

# entsec-AlarmClasses (Wb Query Table View)

This component may route alarms to one or more alarm recipients. The routing process involves notifying the recipient of the alarm and receiving back from the recipient an alarm acknowledgement

Figure 456 Security Alarm Classes properties

- : Config : Service	s : EnterpriseSecurityService : Alarm Classes	🖌 🛛 AX Property Sheet 🚽
Property Sheet		
🕼 Alarm Classes (Ala	rm Classes)	
💌 🗎 Extent 🛛 Sin	gle Extent	
📔 Base Extent	alarm 🗸 AlarmClass	- O -
Base se	rvice:alarm:AlarmService	
🔻 🗎 predicate 🛛 Pre	edicate	
🔻 🗎 Binary 🛛 Bir	hary	
🕨 🍞 Left	Field	
Dperator 🕞	=	
💌 🗎 Right	Simple Expr	
🗎 Simpl	e alarm:AlarmClass	

You can access these property by double-clicking the **Services**→**EnterpriseSecurityService** in Nav tree.

Property	Value	Description
Extent	Single Extent	
Base	drop-down	
Predicate	Predicate	
Binary	Binary	
Left	Field	
Field path	text	
Operator		Its a user name who is going to operate.
Right	Simple Expr	
Simple	text	

In addition to the standard properties (Enabled). This property is unique to this service:

## entsec-AlarmConsoles (WB Query Table View)

This component links the AlarmClass components into whatever alarm recipient objects are needed.

Figure 457 Security Alarm Consoles properties

: Services : AlarmService : alarmConsoles	1	AX Property Sheet
Property Sheet		
alarmConsoles (Alarm Consoles)		
💌 🎬 Extent 🛛 Single Extent		
🗑 Base Extent alarm 🗸 ConsoleRecipient 🗸 🕐 🗸		
🗑 Base service:alarm:AlarmService 👘 🔹 🕨		

Property	Value	Description
Extent	Single Extent	
Base	Path	User can select a file location.

#### entsec-EmailRecipients (WB Query Table View)

This component is used to route the alarms to get the notification by E-mail.

```
Figure 458 Security Email Recipients properties
```

: Config : Servi	ces : EnterpriseSec	urityService : Email Recipients	🖍 🛛 AX Property Sheet 🔸
Property Sheet			
🔯 Email Recipients	(Email Recipients)		
💌 🎬 Extent 🛛 Sing	le Extent		
🗎 Base Exten	email	<ul> <li>EmailRecipient</li> </ul>	· (9 ·
Base ser	vice:alarm:AlarmSe	rvice	iii • →

You can access these property by double-clicking the Services→EnterpriseSecurityService in Nav tree.

Property	Value	Description
Extent	Single Extent	
Base Extent	drop-down	
Base		

## entsec-StationRecipients (WB Query Table View)

This component is used to route the alarms to get the notification.

Figure 459 Security Station Recipients properties

: Config :	Services : EnterpriseSecurityService : Station Recipients	1	AX Property Sheet
Property Shee	t		
🛃 Station Recip	ients (Station Recipients)		
🕨 🗎 Extent	Single Extent		
🗎 Base	service:alarm:AlarmService	i≡ - →	

You can access these property by double-clicking the Services→EnterpriseSecurityService in Nav tree.

Property	Value	Description
Extent	Single Extent	
Base	text	

#### entsec-AlarmHistory (Wb Query Table View)

This component gives the information of routed AlarmClass to AlarmConsole.

#### Figure 460 Security Alarm History properties

: Config :	Services + : EnterpriseSecurityService : Alarm History		1	AX Property Sheet 🔸
Property Shee	Services			
\land Alarm History	(Alarm History)			
🗎 Base	alarm:	-	•	
🔻 🗎 extent	Empty Extent			
🗎 Base B	Extent alarm V AlarmRecord		•	

You can access these property by double-clicking the Services→EnterpriseSecurityService in Nav tree.

Property	Value	Description
Base	text	
Extent	drop-down	

#### entsec-AlarmSourceExts (Wb Query Table View)

#### This component

Figure 461	Security Alarm	n Source Exte	properties
------------	----------------	---------------	------------

	Config : Services	: EnterpriseSecurityS	ervice :	Alarm Source Exts		/	AX Property Sheet
Pr	operty Sheet						
<i>□</i> ,	Alarm Source Exts (Alar	rm Source Exts)					
-	Extent	Dou	ble Extent				
	🗎 Base Extent	alarm	-	AlarmSourceExt	<b>•</b>	Э	•
	Second Extent	alarm	-	AlarmSourceInfo	•	(5	•
₽	Consolidated Columns Provider Alarm Source Ext Columns Provider						

You can access these property by double-clicking the Services→EnterpriseSecurityService in Nav tree.

Property	Value	Description
Extent, Base Extent	drop-down	
Extent, Second Extent	drop-down	
Consolidated Col- umns Provider	separate slot	A separate topic documents this property.

#### entsec-AlarmExtInstructions (Wb Query Table View)

Each alarm can have customized instructions assigned to it so that any time an alarm is generated, the instructions are presented with the alarm notification (in the Alarm Record window). Alarm instructions provide information for the system operator. Instructions are created, assigned, and edited from the Instructions view.



	Config : Services	: EnterpriseSecurityService	: Alarm	Instructions		/ /	AX Property Sheet 🔹
Pr	roperty Sheet						
<b>V</b>	Alarm Instructions (Ala	arm Ext Instructions)					
	🗎 Extent	Double Ext	ent				
	📔 Base Extent	alarm	- Alarm	SourceExt	-	•	
	Second Extent	alarm	- Alarm	SourceInfo		•	
₽	Consolidated Columns Provider Alarm Ext Instructions Columns Provider						

You can access these property by double-clicking the Services→EnterpriseSecurityService in Nav tree.

Property	Value	Description
Extent	Single Extent	
Base Extent	drop-down	
Second Extent	drop-down	
Consolidate Col- umns Provider	Alarm Ext Instruc- tions Columns Provider	

# entsec-AlarmClassRelayLinks (Wb Query Table View)

This component allows you to link from an Alarm Class component to monitor alarm count and send an associated boolean output to a relay whenever there is an increase in the alarm count.

Figure 463 Security Alarm Count Relays properties

: Config : Services : EnterpriseSecurityService : Alarm Count Relays	🖌 🛛 AX Property Sheet 👻				
Property Sheet					
🕵 Alarm Count Relays (Alarm Class Relay Links)					
🔻 🎬 Extent 🛛 Single Extent					
Base Extent kitControl AlarmCountToRelay	<b>•</b> •				
Base service:alarm:AlarmService 🚞 🗸	<u>۲</u>				

You can access these property by double-clicking the Services→EnterpriseSecurityService in Nav tree.

Property	Value	Description
Extent	Single Extent	
Base Extent		
Base	Path	

#### entsec-BacnetPoints (WB Query Table View)

The BacnetPoints component

- : Config : Services	: EnterpriseSe	ecurityService	: Bacnet Points		1	AX Property Sheet
Property Sheet						
Bacnet Points (Bacnet)	Points)					
ConsolidatedColum	nnsProvider	Consolidated	Columns Provider			
📄 base		service:bac	net:BacnetNetwor)	k		
💌 뒡 extent		Single Extent				
Base Extent	bacnet	-	BacnetPointDescript	or	-	<u></u> .
predicate		Predicate				
💌 ႃ Binary Binary	<ul> <li>Binary Binary</li> </ul>					
🔻 🏹 Left	Function					
Function	ents	ec:BacnetPoir	nts.isAccessExpor	rt		
🔻 뒡 Paramete	er List 🛛 List E	xpression				
Distinct	🔴 fa	alse 🗸				
Dperator	=			]		
🔻 뒡 Right	Simple Expr					
Simple Simple	true					

Figure 464 Security Bacnet Points properties

You can access these property by double-clicking the **Services→EnterpriseSecurityService** in Nav tree.

Property	Value	Description
base	path	
extent	Single Extent	
Base Extent	drop-down	
Predicate	Predicate	
Function	path	
Parameter List	List Expression	
Distinct	true <b>or</b> false	
Operator		
Simple	true <b>or</b> false	

# entsec-NiagaraStationQuery (WB Query Table View)

The NiagaraStationQuery component



: Config : Services	EnterpriseSecurityService : Stations Query	🖍 🛛 AX Property Sheet 🗸			
Property Sheet					
Stations Query (Niagara	Station Query)				
💌 证 Extent	Single Extent				
Base Extent 📄	agaraDriver ViagaraStation 🗸	© -			
📔 Base	<pre>service:niagaraDriver:NiagaraNetwork</pre>	iii - →			
<ul> <li>The standaloneStations</li> </ul>	uery Niagara Station Query				
🔻 🏹 Extent 🛛 Single B	💌 🎬 Extent 🛛 Single Extent				
Base Extent	niagaraDriver 🗸 NiagaraStation	- © -			
Base servic	e:niagaraDriver:NiagaraNetwork				

You can access these property by double-clicking the Services→EnterpriseSecurityService in Nav tree.

Property	Value	Description
Extent	Single Extent	
Base Extent	text	
Base	drop-down	
StandAloneStation- Query	Niagara Station Query	
Extent	Single Extent	
Base	drop-down	

# entsec-SecurityAuditHistory (Orion History View)

This Service keeps a history of the changes that are made by users. When service starts it is register itself as the auditor for the system.

: Config : Services : EnterpriseSecurityService : Audit History 💉 🖍 AX Property Sheet 🗸					
Property Sheet					
Audit History (Security History Cons	olidator)				
📔 Report Type	Optimized 👻				
Enabled	e false				
History Record Type	history AuditRecord 🕓 👻				
Device Pattern	*				
📔 History Name Pattern	*				
📔 Include Local Histories	🔵 true 🔽				
📔 Include Remote History Exports	🔵 true 💌				
Data Expiration	365d 00h 00m 00s al [0ms-+inf]				
Auto Purge	2:00 AM {Sun Mon Tue Wed Thu Fri Sat}				
) Min Local Consolidate Time	00000h 00m 05s 🚆 [0ms-+inf]				
📔 Last Success	null				
Last Failure Config Flags	null				
Last Fault Cause					
Consolidation Disabled	false				
Default Local History	/ ^ / AuditHistory				
🕨 َ Audit History	Local History Query				

#### Figure 466 Security Audit History properties

You can access these property by double-clicking the **Services→AuditHistoryService** in Nav tree.

Property	Value	Description
Report Type	drop-down	Selects how much data to report.
		Optimized limits the amount of data on the report.
		Full Report outputs all data.
History Record Type	read-only	Reports the type of record.
Device pattern	text (defaults to *)	String matching to device names, meaning name of station(s) that are exporting histories Default value is a wildcard ("*"), meaning all station names are matched.
History Name Pattern	text (defaults to *)	String matching to history names of histories being exported. Again, default value is a wildcard ("*"),
		meaning all named histories are matched.
		<b>NOTE:</b> Both Device Pattern and History Name Pattern must apply for the rule to be used—otherwise the next rule down (in order) in History Policies is evaluated.
Include Local Histories	true <b>(defaults) or</b> false	
Include Remote History Exports	true ( <b>defaults) or</b> false	
Data Expiration	days, hrs, mins, seconds	

In addition to the standard properties (Enabled). this property is unique to this service:

r

Property	Value	Description
Auto Purge	all days of week	Specifies the days of the week.
Min Local Consoli- date Time		
Last Success	null	
Last Failure	null	
Last Fault Cause	text	
Consolidation Disabled	true <b>(defaults) or</b> false	
Default Local History	text	
Audit History	default	

#### entsec-SecurityLogHistory (Orion History View)

This Service keeps a history of framework log records when it is enabled. This service maintains a buffered history ("LogHistory") of some of the messages seen in the station's standard output. This can be very help-ful when you are troubleshooting problems with a station. If a station has Log History Service enabled, you can check the log history for recent error messages.

Figure 467 Security Log History properties

: Config : Services : EnterpriseSec	curityService : Log History 🖍 AX Property Sheet
Property Sheet	
Log History (Security History Consolid	lator)
📔 Report Type	Optimized 🗸
🗎 Enabled	false
History Record Type	history LogRecord 🕒 👻
Device Pattern	*
📔 History Name Pattern	*
📔 Include Local Histories	🔵 true 🔍
📔 Include Remote History Exports	🔵 true 🔽
Data Expiration	365d 00h 00m 00s 🖬 [0ms-+inf]
Auto Purge	2:00 AM {Sun Mon Tue Wed Thu Fri Sat}
) Min Local Consolidate Time	00000h 00m 05s 🚆 [0ms-+inf]
Last Success	null
📔 Last Failure	null
📔 Last Fault Cause	
Consolidation Disabled	true
Default Local History	/ ^ / LogHistory
Log History	Local History Query

You can access these property by double-clicking the **Services→LogHistoryService** in Nav tree. In addition to the standard properties (Enabled). This property is unique to this service:

Property	Value	Description	
Report Type	drop-down	Selects how much data to report.	
		Optimized limits the amount of data on the report.	
		Full Report outputs all data.	
History Record Type	read-only	Reports the type of record.	
Device pattern	text (defaults to *)	String matching to device names, meaning name of station(s) that are exporting histories Default value is a wildcard ("*"), meaning all station names are matched	
History Name Pattern	text (defaults to *)	String matching to history names of histories being exported. Again, default value is a wildcard ("*"),	
		meaning all named histories are matched.	
		<b>NOTE:</b> Both Device Pattern and History Name Pattern must apply for the rule to be used—otherwise the next rule down (in order) in History Policies is evaluated.	
Include Local Histories	true <b>(defaults) or</b> false		
Include Remote History Exports	true <b>(defaults) or</b> false		
Data Expiration	days, hrs, mins, seconds		
Auto Purge	all days of week	Specifies the days of the week.	
Min Local Consoli- date Time			
Last Success	null		
Last Failure	null		
Last Fault Cause	text		
Consolidation Disabled	true <b>(defaults) or</b> false		
Default Local History	text		
Log History	default		

# entsec-SecurityHistoryConsolidator (Oriaon History View)

The SecurityHistoryConsolidator component

Figure 468	Security History Consolidator properties

: Config : Services : EnterpriseSe	ecurityService : LDAP Audit History 🖌 AX Property Sheet
Property Sheet	
🚡 LDAP Audit History (Security History	Consolidator)
🗎 Report Type	Optimized 👻
📔 Enabled	false
📔 History Record Type	entsec LDAPAuditRecord 🕓 👻
Device Pattern	X
📔 History Name Pattern	*
📔 Include Local Histories	true 🗸
📄 Include Remote History Exports	🕒 true 🗸
Data Expiration	365d 00h 00m 00s 💐 [0ms-+inf]
Auto Purge	2:00 AM {Sun Mon Tue Wed Thu Fri Sat}
📔 Min Local Consolidate Time	00000h 00m 05s 🚆 [0ms-+inf]
📄 Last Success	null
📔 Last Failure	03-Apr-2020 04:27 PM IST
📔 Last Fault Cause	Cannot determine Orion History Record Typ
Consolidation Disabled	true
Default Local History	/ ^ / LDAPAuditRecord
LDAP Audit History	Local History Query

You can access these property by double-clicking the Services→EnterpriseSecurityService in Nav tree.

Property	Value	Description
Report Type	drop-down list	Selects how much data to report.
		Optimized limits the amount of data on the report.
		Full Report outputs all data.
History Record Type	read-only	Reports the type of record.
Device Pattern	text (defaults to *)	
History Name Pattern	text (defaults to *)	
Include Local Histories	true <b>or</b> false	
Include Remote History Exports	true <b>or</b> false	
Data Expiration	days, hrs, mins	
Auto Purge		
Min Local Consoli- date Time		
Last Success	null	
Last Failure		
Last Fault Cause	text	

In addition to the standard properties (Enabled). This property is unique to this service: Т

Property	Value	Description
Consolidation Disabled	true or false	
Default Local History		
LDAP Audit History	Local History Query	

# entsec-ScheduleRecs (App Table View)

Figure 469 Security Schedule properties

: Config : Services +	: EnterpriseSecurityService : Schedules	1	🖊 🛛 AX Property Sheet 👻
Property Sheet Services			
III Schedules (Schedule Re	ecs)		
lcon	<pre>lcon module://icons/x16/schedule.png</pre>		-
📄 Row Type	entsec:ScheduleRec		
Report Type	Optimized 👻		
🕨 📔 Columns Provider	Schedule Rec Columns Provider		

You can access these property by double-clicking the **Services**→**EnterpriseSecurityService** in Nav tree.

Property	Value	Description	
lcon			
Row Туре	Text		
Report Type	drop-down	Selects how much data to report.	
		Optimized limits the amount of data on the report.	
		Full Report outputs all data.	
Columns Provider			

#### entsec-CalendarSchedules (WB Query Table View)

The CalendarSchedule component provides a calendar for scheduling holidays or other schedule overrides.

Figure 470 Security Calendar Schedules properties

: Config : Services	: EnterpriseSecurityService	e : Calendar Schedules	1	AX Property Sheet 🔸
Property Sheet				
🖽 Calendar Schedules	(Calendar Schedules)			
💌 🏢 Extent 💦 Single	e Extent			
📔 Base Extent	schedule	<ul> <li>CalendarSchedule</li> </ul>	· • •	

Property	Value	Description
Base	drop-down	

# entsec-Tenants (App Table View)

Assigning a tenant to each personnel record allows the facility manager to demarcate a facility or an enterprise in a way that provides privacy, clarity, and flexibility for the user, tenant and owner. You may assign only one tenant to a person, whereas you may assign more than one tenant to a system user. Assigning a tenant to a user can limit the user's access to certain areas of a system.

#### Figure 471 Security Tenants properties

	es 🕶 : EnterpriseSecurityService : Tenants	/	AX Property Sheet
Property Sheet			
🌖 Tenants (Tenants	)		
lcon	module://entsec/rc/tenant.png		
Row Type	entsec:Tenant		
📔 Report Type	Optimized 👻		

You can access these property by double-clicking the Services→EnterpriseSecurityService in Nav tree.

Property	Value	Description
lcon	path	User can select the path
Row Type	text	
Report Type	drop-down	Selects how much data to report.
		Optimized limits the amount of data on the report.
		Full Report outputs all data.

## entsec-ThreatLevelGroupRecs (Ac Table View)

The

Figure 472 Security Threat Level Groups properties

Config : Servi	ces : EnterpriseSecurityService : Threat Level Groups	1	AX Property Sheet
Property Sheet			
A Threat Level Grou	ps (Threat Level Group Recs)		
lcon 👔	module://icons/x16/warning.png		
Row Type	entsec:ThreatLevelGroupRec		
📔 Report Type	Optimized 💌		

Property	Value	Description	
lcon	text		
Row Type	text		
Report Type	drop-down	Selects how much data to report.	
		Optimized limits the amount of data on the report.	
		Full Report outputs all data.	

# entsec-ThreatLevelSetup (AX Property Sheet)

Figure 473 Security Threat Level Setup properties

: Config : Services : Enter	oriseSecurityService : Threat Level Setup	🖍 🛛 AX Property Sheet 👻
Property Sheet		
🛕 Threat Level Setup (Threat Lev	el Setup)	
Activation Initiated Alert	Alarm Source Info	
Activation Failure Alert	Alarm Source Info	
Activation Complete Alert	Alarm Source Info	
Activation Mismatch Alert	Alarm Source Info	
Threat Level Range	>	

You can access these property by double-clicking the **Services→EnterpriseSecurityService** in Nav tree.

Property	Value	Description

#### entsec-PxGraphics (WB Query Table View)

Figure 474 Security Graphics properties

: Config : Services : EnterpriseSecurityService : Graphics	/	AX Property Sheet 🔹
Property Sheet		
🖻 Graphics (Px Graphics)		
💌 🚰 Extent 🛛 Single Extent		
Base Extent baja 🗸 PxView		· • •

You can access these property by double-clicking the Services→EnterpriseSecurityService in Nav tree.

Property	Value	Description
Extent	Single Extent	
Base	text	

#### entsec-EntsecNavGroupQuery (Wb Query Table View)

Figure 475 Security Navigation Groups properties

: Config : Services <del>+</del> : Ente	erpriseSecurityService : Navigation Groups	🖍 🕺 AX Property Sheet
Property Sheet		
Mavigation Groups (Entsec Na	v Group Query)	
Extent Single Extent		
Base Extent entsec	EntsecNavGroup	· () ·

Property	Value	Description
Base Extent	text	

# entsec-ChangePassword (AX Property Sheet)

Figure 476

You can access these property by double-clicking the **Services**→**EnterpriseSecurityService** in Nav tree.

Property	Value	Description

#### entsec-ChangePasskey (AX Property Sheet)

Figure 477

You can access these property by double-clicking the Services→EnterpriseSecurityService in Nav tree.

Property	Value	Description

#### entsec-UserQuery (Wb Query Table View)

Figure 478 Security User Query properties

: Config : Se	vices : EnterpriseSecurityService : Users		/	AX Property Sheet 👻
Property Sheet				
🌡 Users (User Qu	ery)			
🕨 🎬 Extent	Single Extent			
📔 Base	service:baja:UserService	-		
🔻 🗎 predicate	Predicate			
🕨 ゙ Binary	Binary			_

You can access these property by double-clicking the Services→EnterpriseSecurityService in Nav tree.

Property	Value	Description
Extent	Single Extent	
predicate	predicte	

#### query-SingleExtent (AX Property Sheet)

Figure 479 Security query Single Extent properties

Property Sheet			
Extent (Single Ext	ent)		
🗎 Base Extent	baja	▼ User	· © ·

Property	Value	Description
Extent	Single Extent	
Base	text	

# query-Predicate (AX Property Sheet)

Figure 480	Security	Predicate	properties
------------	----------	-----------	------------

Config : Services : EnterpriseSecurityService : Users : predicate	/	AX Property Sheet 👻
Property Sheet		
👕 predicate (Predicate)		
🔻 📜 Binary 🛛 Binary		
🔻 🗎 Left 🛛 Field		
Field Path parent.name		
Dperator !=		
🔻 🗎 Right Simple Expr		
Simple userPrototypes		

You can access these property by double-clicking the Services→EnterpriseSecurityService in Nav tree.

Property	Value	Description
Field Path	parent name	
Operator		
simple	text	

#### entsec-EntsecRoleQuery (Wb Query Table View)

Figure 481 Security Entsec Role Query

: Config :	Services - : EnterpriseSecurityService : Roles	/	AX Property Sheet
Property Shee	Services St		
🚇 Roles (Entse	c Role Query)		
🕨 🍞 Extent	Single Extent		
🗎 Base	service:baja:RoleService	•	

You can access these property by double-clicking the Services→MonitorSysDefSecurity in Nav tree.

Property	Value	Description
Base	text	

# entsec-SystemBackups (AX Property Sheet)

Figure 482 Security System Backups properties

	curityService : System Backups	🖍 🕺 AX Property Sheet
Property Sheet		
System Backups (System Backups)		
<ul> <li>System Backup Schedule</li> </ul>	- {null}	Ŧ
<ul> <li>Local Backup Schedule</li> </ul>	- {null}	Ŧ
📔 Scheduled System Backup Limit	10 [1-max]	
📔 Scheduled Local Backup Limit	10 [1-max]	
Alarm Info	Alarm Source Info	

Property	Value	Description
System Backup Schedule	null <b>or</b> true <b>or</b> false	
Local Backup Schedule	null <b>or</b> true <b>or</b> false	
Schedule System Backup Limit	number	As per requirement can select the value $1 - \max$ .
Schedule Local Backup Limit	number	As per requirement can select the value $1 - \max$ .

## entsec-PlatformSetup (AX Property Sheet)

Figure 483 Security Platform Setup properties

: Config : Services : EnterpriseSecurityService : Platform Setup	/	AX Property Sheet 👻
Property Sheet		
Platform Setup (Platform Setup)		

You can access these property by double-clicking the Services→EnterpriseSecurityService in Nav tree.

Property	Value	Description

#### entsec-VideoSubsystem (AX Property Sheet)

 Figure 484
 Security Video Subsystem properties

: Config : Serv	ces : EnterpriseSecurityService : Video Subsystem	🖍 🖌 AX Property Sheet 🗸
Property Sheet		
🛄 Video Subsystem	(Video Subsystem)	
Surveillance	/iewer Video Playback Multistream	

You can access these property by double-clicking the Services→EnterpriseSecurityService in Nav tree.

Property	Value	Description

# entsec-EndUserLicenseAgreement (AX Property Sheet)

Figure 485 Security End User License Agreement properties

Property	Value	Description

# entsec-ThirdPartyLicenses (AX Property Sheet)

Figure 486 Security Third Party Licenses properties

You can access these property by double-clicking the Services→EnterpriseSecurityService in Nav tree.

In addition to the standard properties (Enabled). This property is unique to this service:

Property	Value	Description

# entsec-AccessControlService (AX Property Sheet)

Figure 487 Security Access Control Service proper	ties
---------------------------------------------------	------

: Config : Services : AccessControlSer	vice 🖌 AX Property She	eet 🝷
Property Sheet		
AccessControlService (Access Control Ser	vice)	A .
📄 Status	{ok}	
📔 Fault Cause		
Enabled	🔵 true 🔍	ы
Db Ord	<pre>slot:/Drivers/RdbmsNetwork/MySQLDatabase</pre>	ы
📔 Display Unknown Wiegand Formats	🔴 false 🔍	ы
📔 Has Pin Duress	🛑 false 🔽	ы
🃔 Pin Duress Offset	1	
Remote Validation	🛑 false 🔽	ы
📔 Software Version	4.9.0.28	
Cache Status	Inactive	
A Dashboard	Dashboard	
🕨 🚇 People	Personnel	
I Badges	Badges	
Access Rights	Access Rights	
Access Zones	Access Zones	
Doors	Doors	
Modules	polulos	

You can access these property by double-clicking the **Services**→**AccessControlService** in Nav tree.

In addition to the standard properties (Enabled). this property is unique to this service:

Property	Value	Description
Db Ord	ORD	Identifies the location of the Orion database in the station.
Display Unknown Wiegand Formats	true <b>or</b> false	
Has pin Duress	true <b>or</b> false	
Pin Duress Offset	number	
Remote Validation	true <b>or</b> false	
Software Version	4.9.0.28	
Cache Status	Inactive	

# entsec-Dashboard (AX Property Sheet)

Figure 488 Security Access Control Service properties

You can access these property by double-clicking the **Services**→**AccessControlService** in Nav tree.

Property	Value	Description

# entsec-Personnel (Ac Table View)

Figure 489 Security Personnel properties

: Config : Service	es : AccessControlService : People	1	AX Property Sheet 👻
Property Sheet			
People (Personnel	)		
lcon	module://entsec/rc/access/people.png		
📄 Row Type	entsec:Person		
Report Type	Optimized 🗸		
🕨 📔 Last Name	Last Name (entsec:Person.lastName)		
🕨 🍞 First Name	First Name (entsec:Person.firstName)		
🕨 隌 Department	Department (entsec:Person.department)		
🕨 阳 Person Type	Person Type (entsec:Person.personType)		
🕨 隌 Tenant Name	Tenant Name (entsec:Tenant.tenantNam		
🕨 🎬 Employee Id	Employee Id (entsec:Person.employeeId)		
🕨 🎦 Person Id	Person Id (entsec:Person.personId)		
	~~~~~		$\sim$

Property	Value	Description
lcon	path	
Row Type	entsec:Person	
Report Type	drop-down	Selects how much data to report.
		Optimized limits the amount of data on the report.
		Full Report outputs all data.

# orion-DynamicTableColumn (AX Property Sheet)

Figure 490 Security Access Control Service properties

: Config : Services :	AccessControlService : People : Last Name	💉 🖌 AX Property Sheet 🗸
Property Sheet		
🗎 Last Name (Dynamic Tabl	le Column)	
📔 Column Name	lastName	
Alias	Last Name	0
From Type	entsec:Person	
From Property	lastName	
Dependency	null	
📔 Linked Dependency	null	
📔 Hidden Key	🛑 false 🔍	
💌 🗎 Default Filter	Null Filter	

You can access these property by double-clicking the **Services**→**AccessControlService** in Nav tree.

Property	Value	Description
Column Name	Last Name	
Alias	Last Name	
From Type	entsec:Person	
From Property	lastName	
Dependency	null	
Linked Dependency	null	
Hidden Key	true <b>or</b> false	
Default Filter	Nill Filter	

## entsec-Badges (Badges View)

Figure 491 Security Personnel properties

← : Config : Servic	es : AccessControlService : Badges	1	AX Property Sheet
Property Sheet			
🛱 Badges (Badges)			
lcon	module://icons/x16/card.png		
📄 Row Type	entsec:Badge		
📄 Report Type	Optimized 🗸		

Property	Value	Description
lcon	path	
Row Туре	entsec:Badge	
Report Type	drop-down	Selects how much data to report.
		Optimized limits the amount of data on the report.
		Full Report outputs all data.

# entsec-AccessRights (AC Table View)

Figure 492 Security Access Rights properties

: Config : Service	es : AccessControlService : Access Rights	🖌 AX Property Sheet 👻
Property Sheet		
🖪 Access Rights (Acc	ess Rights)	
lcon	module://entsec/rc/access/accessRight.png	
Row Type	entsec:AccessRight	
📔 Report Type	Optimized 🔽	
Access	Access Rights	

You can access these property by double-clicking the **Services→AccessControlService** in Nav tree.

Property	Value	Description
lcon	path	
Row Туре	entsec:AccessRight	
Report Type	drop-down	Selects how much data to report.
		Optimized limits the amount of data on the report.
		Full Report outputs all data.

# entsec-EntsecNav (AX Property Sheet)

Figure 493 Security Entsec Nav properties

: Config : Services	: AccessControlService	: Access Rights	: access	: EntsecNav	/	AX Property Sheet 🔸
Property Sheet						
EntsecNav (Entsec Na	av)					
🗎 Nav Name						
lcon Override	null					
Display Name	access		0			
Nav View	null				-	•
🃔 Parent Path	/reports					
Child Types						
📄 Index	0					
📄 Is Group	🛑 false 🗸 🗸					
📔 Is Default Child	🛑 false 🔽					

You can access these property by double-clicking the  $Services \rightarrow AccessControlService \rightarrow AccessRight$  in Nav tree.

Property	Value	Description
Nav Name	text	
Icon Override	null	
Display Name	access	
Nav View		
Parent Path		
Child Types		
Index		
Is Group	true <b>or</b> false	
Is Default Child	true <b>or</b> false	

#### entsec-AccessZones (AC Table View)

Figure 494 Security Access Zones properties

: Config : Servio	es : AccessControlService : Access Zones	/	AX Property Sheet 👻
Property Sheet			
🔏 Access Zones (Acc	cess Zones)		
lcon	module://entsec/rc/access/accessZone.png		
📄 Row Type	entsec:AccessZoneRec		
Report Type	Optimized 🗸		

You can access these property by double-clicking the **Services→AccessControlService** in Nav tree.

Property	Value	Description
lcon	path	
Row Туре	entsec: AccessZonesRec	
Report Type	drop-down	Selects how much data to report.
		Optimized limits the amount of data on the report.
		Full Report outputs all data.

# entsec-Doors (Wb Query Table View)

Property	Value	Description

#### entsec-ConsolidatedColumnsProvider (AX Property Sheet)

Figure 495 Security Consolidated Columns Provider properties

- : Config : Serv	ices : AccessControlService	: Doors	: consolidatedColumnsProvider	1	AX Property Sheet 👻
Property Sheet					
) consolidatedColu	ımnsProvider (Consolidated	Columns Pro	ovider)		

You can access these property by double-clicking the **Services→AccessControlService→entsec-Doors** in Nav tree.

Property	Value	Description

#### query-SingleExtent (AX Property Sheet)

Figure 496 Security Single Extent properties

	eet 🝷
Property Sheet	
📔 extent (Single Extent)	
Base Extent accessDriver	

You can access these property by double-clicking the **Services→AccessControlService→entsec-Doors** in Nav tree.

Property	Value	Description
Base Extent	drop-down	

#### entsec-SecurityHistoryConsolidator (Orion History View)

Figure 497 Security History Consolidator properties

: Config : Services : AccessContr	olService : Access History	💉 🛛 AX Property Sheet 🔸
Property Sheet		
🛦 Access History (Security History Cons	olidator)	A
📄 Report Type	Optimized 👻	
📄 Enabled	false	
📔 History Record Type	entsec BadgeSwipeRecord 🕓 👻	
Device Pattern	*	
History Name Pattern	*	
Include Local Histories	true 🗸	
📔 Include Remote History Exports	true 🗸	
Data Expiration	365d 00h 00m 00s 🚆 [0ms-+inf]	

Property	Value	Description
Report Type	drop-down	Selects how much data to report.
		Optimized limits the amount of data on the report.
		Full Report outputs all data.
History Record Type		
Device Pattern		
History Name Pattern	true <b>or</b> false	
Include Local Histories	true <b>or</b> false	
Include Remote History Exports		
Data Expiration	day, hr, min, sec	

## entsec-LocalHistoryQuery (Wb Query Table View)

Figure 498 Security Local History Query properties

: Config :	Services : AccessControlSe	rvice : Access History : Acces	is History 📝	AX Property Sheet 👻
Property She	et			
Access Histor	ry (Local History Query)			
) base	history:^BadgeSwipeReco	rd	iii · →	
🔻 🗎 extent	Empty Extent			
) 🗎 Base	Extent entsec	<ul> <li>BadgeSwipeRecord</li> </ul>	· () ·	,

Property	Value	Description
base		
Base Extent	drop-down	

# entsec-AttendanceHistoryConsolidator (Orion History View)

Figure 499 Security Attendance History properties

: Config : Services : AccessContr	olService : Attendance History 🖌 AX Property Sheet •
Property Sheet	
Attendance History (Attendance Hist	ory Consolidator)
📔 Report Type	Optimized 🔹
📔 Enabled	false
📔 History Record Type	entsec AttendanceRecord 🕓 👻
Device Pattern	*
📔 History Name Pattern	*
📔 Include Local Histories	🕒 true 🔍
📔 Include Remote History Exports	🕒 true 🔍
Data Expiration	365d 00h 00m 00s 🗃 [0ms-+inf]
Auto Purge	2:00 AM {Sun Mon Tue Wed Thu Fri Sat}
) Min Local Consolidate Time	00000h 00m 05s 🚔 [0ms-+inf]
Last Success	null
📔 Last Failure	null
📔 Last Fault Cause	
Consolidation Disabled	false
Default Local History	^AttendanceRecord
Attendance History	Attendance History Query

Property	Value	Description
Report Type	drop-down	Selects how much data to report.
		Optimized limits the amount of data on the report.
		Full Report outputs all data.
History Record Type		
Device Pattern		
History Name Pattern	true <b>or</b> false	
Include Local Histories	true <b>or</b> false	
Include Remote History Exports		
Data Expiration	day, hr, min, sec	
Min Local Consoli- date Time	hr, min, sec	
Last Success	null	
Last Failure	null	
Last Fault Cause		

Property	Value	Description
Consolidation Disabled	true <b>or</b> false	
Default Local History	AttendanceRecord	

#### entsec-WiegandFormats (Ac Table View)

Figure 500 Security Wiegand Formats properties

: Config : Service	es : AccessControlService : Card Formats	1	AX Property Sheet 👻
Property Sheet			
Card Formats (Wie	gand Formats)		
lcon	module://icons/x16/views/hexFileEditor.png		
📄 Row Type	entsec:WiegandFormat		
📔 Report Type	Optimized 👻		

You can access these property by double-clicking the **Services→AccessControlService** in Nav tree.

Property	Value	Description
lcon	path	
Row Туре	entsec: WiegandFormat	
Report Type	drop-down	Selects how much data to report.
		Optimized limits the amount of data on the report.
		Full Report outputs all data.

## entsec-KeypadFormats (Ac Table View)

Figure 501 Security Keypad Formats properties

: Config 🕶 : Servi	ces : AccessControlService : Keypad Formats	/	AX Property Sheet 👻
Property Sheet			
Keypad Formats	(Keypad Formats)		
lcon	module://icons/x16/keyboardKey.png		
Row Type	entsec:KeypadFormat		
Report Type	Optimized 👻		

Property	Value	Description	
lcon	path		
Row Type	entsec:AccessRight		
Report Type	drop-down	Selects how much data to report.	
		Optimized limits the amount of data on the report.	
		Full Report outputs all data.	

# entsec-InfoTemplates (Ac Table View)

Figure 502 Security InfoTemplates properties

: Config : Servi	ces : AccessControlService : Additional Personnel Data	/	AX Property Sheet 👻	
Property Sheet				
Ndditional Personnel Data (Info Templates)				
lcon	module://icons/x16/theme.png			
Row Type	entsec:InfoTemplate			
Report Type	Optimized 👻			

You can access these property by double-clicking the **Services**→**AccessControlService** in Nav tree.

Property	Value	Description
lcon	path	
Row Туре	entsec: InfoTemplate	
Report Type	drop-down	Selects how much data to report.
		Optimized limits the amount of data on the report.
		Full Report outputs all data.

#### entsec-NiagaraIntegrationIDs (Ac Table View)

Figure 503 Security Niagara Integration IDs properties

← : Config : Service	s : AccessControlService : Niagara Integration IDs	1	AX Property Sheet	
Property Sheet				
Tiagara Integration I Ds (Niagara Integration I Ds)				
lcon	module://entsec/rc/access/compass.png			
📄 Row Type	entsec:NiagaraIntegrationID			
🗎 Report Type	Optimized -			

Property	Value	Description
lcon	path	
Row Туре	entsec:entsec-Ni- agaraIntegratio- nIDs	
Report Type	drop-down	Selects how much data to report.
		Optimized limits the amount of data on the report.
		Full Report outputs all data.
### entsec-PersonAccessRightReport (App Table View)

Figure 504 Security Person Access Right Report properties

: Config : Services	: AccessControlService : Person Access Right Report	1	AX Property Sheet 👻
Property Sheet			
Person Access Right Rep	ort (Person Access Right Report)		
lcon	module://entsec/rc/access/accessRight.png		
🗎 Row Type	entsec:AccessRight		
Report Type	Optimized 👻		
Columns Provider	Person Access Right Report Columns Prc		

You can access these property by double-clicking the **Services→AccessControlService** in Nav tree.

Property	Value	Description
lcon	path	
Row Type	entsec:AccessRight	
Report Type	drop-down	Selects how much data to report.
		Optimized limits the amount of data on the report.
		Full Report outputs all data.

#### entsec-PersonReaderReport (App Table View)

Figure 505 Security Person Reader Report properties

: Config : Services	: AccessControlService : Person Reader Report	1	AX Property Sheet 👻
Property Sheet			
Person Reader Report (F	Person Reader Report)		
lcon	module://entsec/rc/access/accessRight.png		
📄 Row Type	entsec:AccessRight		
Report Type	Optimized 🗸		
Columns Provider	Person Reader Report Columns Provider		

You can access these property by double-clicking the **Services→AccessControlService** in Nav tree.

Property	Value	Description
lcon	path	
Row Туре	entsec:AccessRight	
Report Type	drop-down	Selects how much data to report.
		Optimized limits the amount of data on the report.
		Full Report outputs all data.

# entsec-AccessRightReaderReport (App Table View)

Figure 506 Security Access Right Reader Report properties

- : Config : Services	: AccessControlService : Access Right Reader Report	1	AX Property Sheet
Property Sheet			
Access Right Reader Rep	ort (Access Right Reader Report)		
lcon	module://entsec/rc/access/accessRight.png		
📔 Row Type	entsec:AccessRight		
📔 Report Type	Optimized 🗸		
🕨 📔 Columns Provider	Access Right Reader Report Columns Pro		

You can access these property by double-clicking the **Services**→**AccessControlService** in Nav tree.

Property	Value	Description
lcon	path	
Row Type	entsec:AccessRight	
Report Type	drop-down	Selects how much data to report.
		Optimized limits the amount of data on the report.
		Full Report outputs all data.

# entsec-PersonnelChanges (Orion History View)

Figure 507	Security	Personnel	Changes	properties
			<u> </u>	

: Config : Services : AccessContr	olService : Personnel Changes	💉 🖌 AX Property Sheet 🗸
Property Sheet		
👍 Personnel Changes (Personnel Chang	ges)	
📔 Report Type	Optimized 🗸	
Enabled	🔴 false	
History Record Type	history AuditRecord 🕓 👻	
Device Pattern	*	
📔 History Name Pattern	*	
📔 Include Local Histories	🔵 true 🔽	
📔 Include Remote History Exports	🔵 true 🔽	
Data Expiration	365d 00h 00m 00s al [0ms-+inf]	
Auto Purge	Manual	
🎬 Min Local Consolidate Time	00000h 00m 05s 🚔 [0ms-+inf]	
🗎 Last Success	null	
🗎 Last Failure	null	
📔 Last Fault Cause		
Consolidation Disabled	false	
Default Local History	/ ^ / AuditHistory	

You can access these property by double-clicking the **Services**→**AccessControlService** in Nav tree.

Property	Value	Description
Report Type	drop-down	Selects how much data to report.
		Optimized limits the amount of data on the report.
		Full Report outputs all data.
History Record Type		
Device Pattern		
History Name Pattern	true <b>or</b> false	
Include Local Histories	true <b>or</b> false	
Include Remote History Exports		
Data Expiration	day, hr, min, sec	
Min Local Consoli- date Time	hr, min, sec	
Last Success	null	
Last Failure	null	
Last Fault Cause		
Consolidation Disabled	true <b>or</b> false	
Default Local History	AttendanceRecord	

# entsec-ReplicationService (AX Property Sheet)

Figure 508 Replication Service properties

			1	AX Property Sheet 👻
Property Sheet				
ReplicationServic	e (Replication Service)			
🗎 Status	{ok}			
Fault Cause				
Enabled	🔵 true			
📄 State	Idle			

You can access these property by double-clicking the **Services**→**ReplicationService** in Nav tree.

Property	Value	Description
State	read-only	

# Chapter 20 Workbench components in the accessDriver module

#### Topics covered in this chapter

- ♦ accessDriver-AccessAlarmSourceExt
- ♦ accessDriver-AccessDoor
- accessDriver-AccessElevator
- ♦ accessDriver-AccessFloor
- accessDriver-AccessInputOutputModule
- accessDriver-AccessNetwork
- accessDriver-AccessProxyExt
- accessDriver-AccessReader
- ♦ accessDriver-AccessRex
- ♦ accessDriver-AccessSdi
- ♦ accessDriver-AccessStrike
- ◆ accessDriver-Remote2ReaderModule
- ♦ accessDriver-Remote2ReaderPoints
- ♦ accessDriver-ActivityAlertExt

Components include services, folders and other model building blocks. You may drag them onto a property or wire sheet from a palette. These components configure system stations using Workbench.

The descriptions included in the following topics appear as headings in documentation. They also appear as context-sensitive help topics when accessed by:

- Right-clicking on the component and selecting Views-Guide Help
- Clicking Help→Guide On Target.

#### accessDriver-AccessAlarmSourceExt

This component provides alarm configuration properties for the accessDriver.

The properties you can configure are the same as those for other drivers and components. Refer to the Alarms Guide.

#### accessDriver-AccessDoor

This component represents the security configuration for a single door.

Figure 509 Door properties



To access this component, expand the AccessNetwork→Remote2ReaderModule→Points container, rightclick a Door node in the Nav tree and click Views→AX Property Sheet.

Each door has three Boolean digital inputs: Exit Request, Sensor and Strike, and a Reader. Each digital input and reader is a component in its own right with associated properties.

# accessDriver-AccessElevator

This component configures elevator properties.

Figure 510 Elevator properties

(Ent	secSup) : Config : Drive	rs : AccessNetwork	: Acce 💉 🛛 AX Property Sheet	•
	Property Sheet			
6	AccessElevator (Elevator)			1
1	🗎 Status	{fault}		1
	📔 Floor Enabled Time	00000h 00m 05.000s	[0 ms - 59 minutes]	1
	Floor Selected Input	Inactive {ok}	Ŧ	1
l	0	Refresh Save		6

You add this component to the **AccessNetwork** node in the station from the **accessDriver** palette. Once in the station, double-click this node to view its properties.

Property	Value	Description
Floor Enabled Time	hours minutes sec- onds (defaults to 5 seconds in a range from 0 ms to 59 minutes)	Sets the amount of time that the elevator floor button is active after access is granted to the floor.
Floor Selected Input	null, Inactive (default) or Active	A check-marked null value defaults to the incoming value from the device. If you remove the check mark you can configure this value.

In addition to the standard properties (Status) these properties configure this component:

#### accessDriver-AccessFloor

This component configures floor properties.

Figure 511 Access Floor properties

	AX Property	Sheet
Property Sheet		
AccessFloor (Floor)		
- Out Inactive {ok}		Ŧ
Enabled Schedule false {ok}		Ŧ
📔 Log Schedule Activity 🛛 🛑 false 🕞		
C Refresh Save		

You add this component to the **AccessNetwork** node in the station from the **accessDriver** palette. Once in the station, double-click this node to view its properties.

Property	Value	Description
Out	null, Inactive (default) or Active	A check-marked null value defaults to the incoming value from the device. If you remove the check mark you can configure this value.
Enabled Schedule	<b>null</b> , true <b>or</b> false <b>(default)</b>	A check-marked null value defaults to the incoming value from the device. If you remove the check mark you can configure this value.
Log Schedule Activity	true <b>or</b> false ( <b>default)</b>	Determines the creation a log record when a schedule controls activity at the elevator.
		true creates a record in the Access History report when a schedule controls activity the elevator.
		false does not record the scheduled activity.

# accessDriver-AccessInputOutputModule

This component configures an I/O module.

Figure 512	Input/Output Module properties
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You add this component to the **AccessNetwork** node in the station from the **accessDriver** palette. Once in the station, double-click this node to view its properties.

In addition to the standard properties (Status, Enabled, Fault Cause, Health and Alarm Source Info), these properties support this component:

Property	Value	Description	
Address	read-only	Reports the unique integer value automatically assigned to each physical I/O module during discovery.	
Device Type	read-only	Identifies the type of remote device.	
Uid	read-only	Reports a six-byte number that is globally unique to this specif- ic I/O hardware device. Discovery automatically obtains this Unique ID (Uid) from each device.	
Installed Version	read-only	Reports the firmware version installed in the I/O module or device.	
Available Version	read-only	Reports the firmware version available for the installed mod- ule. If this number is more recent (higher) than the installed version, you can initiate an I/O firmware upgrade from the De- vice Manager.	
Wink Output	number (defaults to 1)	(Writable) Specifies which digital output (relay output) is cycled On and Off when a Wink Device action is invoked on the mod- ule. Although the range is from 1 to 8, the I/O hardware may have fewer outputs.	
Wink Duration	hours minutes sec- onds (defaults to	(Writable) Specifies how long the wink output cycles on and off at a constant rate of 1 second on followed by 1 second off.	
	10 seconds)	<b>NOTE:</b> Wink is typically used only in the early stages of station configuration. After configuring, you may hide the Wink Device action to prevent inadvertent and unintended cycling of loads.	
Points	points container	Documented elsewhere.	
lo Status	additional properties	Contains a concatenated summary of current IO values in hex- adecimal coded format, and numerous component children with individual hexadecimal values.	
		These are the last values received by the actrld process run- ning on the controller. This information is usually used for ad- vanced debughing only.	
Initial Doors drop-down list		Defines the number of doors.	
	faults to Two Doors)	No Doors	
		One Door	
		Two Doors	

# accessDriver-AccessNetwork

This component manages and configures the access network.

Figure 513	AccessNetwork properties
------------	--------------------------

: AccessNetwork	🖍 🛛 AX Property Sheet 🚽		
Property Sheet			
AccessNetwork (Access Network)			
Status	{ok}		
Enabled	🔵 true 🔽		
Fault Cause			
Health	Fail [null]		
Alarm Source Info	Alarm Source Info		
Monitor	Ping Monitor		
X Tuning Policies	Tuning Policy Map		
Poll Scheduler	Basic Poll Scheduler		
Retry Count	1		
📔 Response Timeout	+00000h 00m 00.500s		
Dort Name	COM2		
Trunk	1		
📔 Baud Rate	Baud115200		
🔻 뒡 Sdi Value Config	Sdi Value Config		
Cut Value 3412			
Open Value 2047			
Closed Value 682			
Push To Points	🔵 true 🔽		
🔻 📔 Output Failsafe Config	Output Failsafe Config		
Comm Loss Timeout 8	s [8 - 900]		
Startup Timeout 180	s [8 - 900]		
Unsolicited Msg Count	0		
📔 Unsolicited Process Time	0		
📔 Unsolicited Message Rate	0.00		
Pushed Unsolicited Message Rate	0.00		
🚡 Keypad Entry Time	00000h 00m 10.000s 🚆 [0ms-59minutes]		
Show Results Time	00000h 00m 02s 🛒 [1 second - 10 minutes]		
Validation Timeout	00000h 00m 10s 🚆 [1 second - 59 minutes]		
Base Board Avail Version			
Remote Reader Avail Version			
Image: Remote Io Avail Version			
Network Version	1.1		
$igsideoine {igsideoine}{C}$ Refr	esh 🔄 Save		

To open this Property Sheet, right-cick the AccessNetwork node in the Nav tree and click **Views→AX Property Sheet**.

In addition to the standard properties (Status, Enabled, Fault Cause, Health, Alarm Source Info, Monitor, Tuning Policies and Poll Scheduler), these properties configure this component:

Property	Value	Description
Retry Count	number	Configures how many times to repeat a network read request, if no response is received before the response timeout interval elapses.
Response Timeout	hours minutes sec- onds (defaults to .500 seconds)	Configures the length of time before the system times out when interrogating a device on the network. Start by setting this value to a large number, such as 40 seconds. Then, reduce it depending on the number of devices and on the discovery performance.

Property	Value	Description	
		<b>NOTE:</b> Baud rate also impacts performance especially if each device has a different baud rate.	
Port Name	COM2, COM3	Defines the communication port to use: none, COM2 or COM3.	
Trunk	number	Each RS-485 connection is called a trunk. If your network has multiple RS-485 trunks, a separate network and remote I/O module is required to support each. This property specifies which trunk the port is connected to.	
Baud Rate	read-only	Defines communication speed in bits per second.	
Sdi Value Config	additional properties	Sdi (Sensor Digital Interface) configures input from the sensor. Refer to Sdi Value Config, page 515.	
Push To Points	true <b>(default) or</b> false	Enables (true) and disables (false) the sending of data to points.	
Output Failsafe Config	read-only seconds (defaults to 8)	Configures timeout values. Refer to Output Failsafe Config, page 515.	
Unsolicited Msg Count	read-only	Reports the number of unexpected messages.	
Unsolicited Process Time	read-only	Reports the amount of unexpected process time.	
Unsolicited Mes- sage Rate	read-only	Reports the rate at which unexpected messages are being received.	
Pushed Unsolicited Message Rate	read-only	Reports the rate at which unexpected messages are being sent.	
Keypad Entry Time	hours minutes sec- onds (defaults to 10 seconds)	Configures an amount of time.	
Show Results Time	hours minutes sec- onds (defaults to 2 seconds)	Configures an amount of time.	
Validation Timeout	hours minutes sec- onds (defaults to 10 seconds)	Configures an amount of time.	
Base Board Avail Version	read-only	Reports a version number.	
Remote Reader Avail Version	read-only	Reports a version number.	
Remote lo Avail Version	read-only	Reports a version number.	
Network version	read-only	Reports a version number.	

#### Sdi Value Config

Figure 514 Sdi Value Config properties

💌 🗎 Sdi Value C	onfig	Sdi Value Config
Cut Val	ue 3412	
📄 Open V	alue 2047	
Closed 📔	Value 682	

Property	Value	Description
Cut Value	number (defaults to 3412)	Defines a value for the cut voltage parameter on the network.
Open Value	number (defaults to 2047)	Defines a value for the open voltage parameter on the network.
Closed Value	number (defaults to 682)	Defines a value for the close voltage parameter on the network.

#### **Output Failsafe Config**

Figure 515	Output Failsafe	Config properties
------------	-----------------	-------------------

🔻 뒡 Output Failsafe Config	Output Failsafe Config	
🏹 Comm Loss Timeout	8	s [8 - 900]
🗎 Startup Timeout	600	s [8 - 900]

Property	Value	Description
Comm Loss TImeout	seconds (defaults to 8 seconds)	Defines a number of seconds after which the station stops sending data, thereby indicating a loss of communication signal.
Startup Timeout	seconds (defaults to 180 seconds)	Defines a number of seconds after which the startup times out.

# accessDriver-AccessProxyExt

This component configures the request-to-exit input associated with a specific door. This proxy extension serves the Request-to-Exit, Sensor and Strike components.

Figure 516 Example of accessDriver proxy extension properties

: Poi : Doo : Exi	: Request-to-Exit Input 💉 AX Property Sheet 👻
Property Sheet	
🛛 Request-to-Exit Input (Acc	ess Proxy Ext)
🗎 Status	{fault,stale}
Fault Cause	
Enabled	🔵 true 🗸
Device Facets	» • ·
Thactive State	Default
🗎 Tuning Policy Name	Default Policy 🔽
Read Value	false {ok}
- Write Value	false {ok}
Poll Frequency	Normal
Instance	2
0	Refresh Save
	0

To access one of these components, expand the AccessNetwork→Remote2ReaderModule→Points in the Nav tree, then expand any of the Boolean points that have a Proxy Ext and double-click the node. Each door component's Exit Request has a similar component: Request-to-Exit Input. Each Sensor's Sensor Input component is also a proxy extension.

In addition to the standard properties (Status, Fault Cause, Enabled, Device Facets, Tuning Policy Name and Poll Frequency), these unique properties support this component:

Property	Value	Description
Inactive State or Closed State (Sen- sory Input) In In R P	drop-down list (de-	Configures the type of facet conversion for a specific point.
	faults to Default for most compo- nents; for Sensory Input defaults to Reverse Polarity)	500 Ohm Shunt (nrio) applies only to a voltage input point used to read a 4-to-20mA sensor where the UI input requires a 500 ohm resistor wired across (shunting) the input terminals. The input signal is 2 to 10V. Compared to a linear or generic tabular conversion, the 500-Ohm-Shunt conversion provides better resolution near the upper (20mA/10V) input range. This compensates for input clamping protection and the circuitry automatically applies when input voltage rises above 3.9V.
		Default automatically converts between similar units.
		Linear applies to voltage input, resistive input and voltage output writable points, which, typically, need point output val- ues in some units other than device facets (voltage or resistance).
		Linear With Unit
		Reverse Polarity applies only to a Boolean input point or relay output writable. It reverses the logic of the hardware bi- nary input or output.
		Tabular Thermistor (nrio) provides an edit button ( ) that opens a window for editing the current ohms-to-degrees Celsius curve used by the proxy point, importing another ther- mistor curve (.xml file) or exporting (saving) the current ther- mistor curve as an .xml file.
		Thermistor Type 3 (nrio) applies only to a thermistor in- put point, where it provides a built-in input resistance-to-tem- perature value response curve for Type 3 Thermistor temperature sensors.
Read Value	read-only	Reports the value read from the access point.
Write Value	read-only	Reports the value written to the access point.
Instance	number (defaults to 2)	Corresponds to the point's I/O terminal address. It is recommended to leave this property at the default.

# accessDriver-AccessReader

This component configures an access reader.

#### Figure 517 Access Reader properties

roperty Sheet	
AccessReader (Reader)	
🗎 Status	{ok}
📔 Fault Cause	
Enabled	🔵 true 🔽
📔 Reader Config	Cannot load plugin.
📔 Threat Level Group	-1
📔 Elevated Threat Level	-1 -1
📔 Elevated Threat Reader Config	Cannot load plugin.
📔 Current Badge Read	
📔 Last Badge Read	
📔 Last Badge Activity	Unknown
Last Person Name	
Last Person Id	0000000-0000-0000-00000000000000
🔃 Last Location Id	0.0 {ok} @ def
- Validate Time	0.000 s {ok}
📔 Validate Timestamp	null
Valid Badge Latched	false {ok}
B Valid Badge	false {ok} @ def
Invalid Badge	false {ok} @ def
📔 Time Attend	None 🗸
B Green	- {null} @ def
Red	- {null} @ def
B Beeper	- {null} @ def
Instance	0
📔 Alarm On Failed Validation	🔵 true 🔽
🗎 Assignment	
Diagnostic Mode	🛑 false 🔽
Diagnostic Mode Interval	+00000h 20m 00s
🚺 Alarm Info	Alarm Source Info
📔 Badge Does Not Exist Alert	Activity Alert Ext
📔 Unknown Wiegand Format Alert	Activity Alert Ext
Badge Is Lost Alert	Activity Alert Ext
📔 Badge Is Disabled Alert	Activity Alert Ext

You add this component to the **AccessNetwork** node in the station from the **accessDriver** palette. Once in the station, double-click this **AccessReader** node to view its properties.

In addition to the standard properties (Status, Fault Cause, and Enabled), these properties support this component:

Property	Value	Description
Reader Config	additional properties	Sets up the required hardware to validate an entry request, as well as a request to arm or disarm an intrusion zone.
Threat Level Group	read-only	Reports the currently-assigned threat level group.
Elevated Threat Level	drop-down list	Defines a threat level for changing the reader configuration. The default ignores any active threat level changes.

Property	Value	Description
Elevated Threat Reader Config	drop-down list	Specifies a reader configuration to enable when the active threat level matches or exceeds the Elevated Threat Level.
Current Badge Read	read-only	Reports the number of the badge being processed now.
Last Badge Read	read-only	Reports the number of the last-read badge.
Last Badge Activity	read-only	Reports the last read or write using a badge.
Last Person Name	read-only	Reports the owner of the last badge read.
Last Person Id	read-only	Reports the ID of the owner of the last badge read.
Last Location Id	proxy extension	This is a standard Numeric Writable proxy extension.
Validate Time	read-only seconds	Reports the time taken to validate the badge.
Validate Timestamp	read-only	Reports when the system validated the badge.
Valid Badge Latched	read-only true or false	Indicates if the badge successfully latched the door.
Valid Badge	additional properties	This is a standard Boolean Writable component.
Invalid Badge	additional properties	This is a standard Boolean Writable component.
Time Attend	drop-down list	None
		Clock In
		Clock Out
Green	additional properties	This is a standard Boolean Writable component.
Red	additional properties	This is a standard Boolean Writable component.
Beeper	additional properties	This is a standard Boolean Writable component.
Instance	read-only	Reports the current number.
Alarm On Failed Validation	true <b>(default) or</b> false	Configures the driver to generate an alarm if account valida- tion fails.
Assignment	read-only	
Diagnostic Mode	true <b>or</b> false	Enables and disables the ability to see the keypad PIN.
		${\tt true}$ displays the PIN so that the super user, who is configuring the reader, can confirm that the correct PIN was entered during testing.
		false hides the PIN. This is the obvious setting for normal operations.

Property	Value	Description
Alarm Info	additional properties	Standard alarm-AlarmSourceInfo component.
Activity alert extensions	additional properties	Standard accessDriver-ActivityAlertExt. Each has the same set of alarm source info.

# accessDriver-AccessRex

Figure 518 Exit Request properties

Remote2ReaderModule : Points : Door	1 : Exit Request 🖌 AX Property Sheet 🗸
Property Sheet	1
B Exit Request (REX)	
Facets	trueText=Active,falseText=Inactive 📎 🕓 🔹
Request-to-Exit Input	Access Proxy Ext
- Status	Inactive {fault, stale}
Inhibit Sensor	false {ok}
Enabled Schedule	true {ok} 🗸
📔 Unlock On Exit Request	No 🗸
📔 Exit Request Timeout	♦ None ♦ 00000h 00m 30s 🚽 [0 ms-59 minutes]
📔 Exit Request Timeout Relock	Yes 🗸
🕨 🜄 Exit Request Timeout Alarm Ext	Access Alarm Source Ext
Supervisor\$20Fault\$20Settings	Access Alarm Source Ext
OutOfServiceExt	Out Of Service Ext
⊖ Re	fresh Save
	0

To access this component, expand the  $AccessNetwork \rightarrow Remote2ReaderModule \rightarrow Points \rightarrow Door$ , and double-click the Exit Request node in the Nav tree.

Property	Value	Description
Request-to-Exit Input	additional properties	This proxy extension component is documented in a separate topic.
Status	read-only	Indicates the current state of the sensor (Active or Inac- tive), and its status {ok}, or other possibilities.
Inhibit Sensor	<b>read-only</b> true <b>or</b> false	Indicates what happens to a door-forced-open alarm during an exit request.
		true indicates that the door-forced-open alarm stays inhibited during an exit request. This is only possible if Status is Ac- tive and Enabled Schedule is true. If either changes, In- hibit Sensor changes from true to false after a time that is equal to the Access Unlock Time.
		false indicates the door-forced-open alarm manifests during an exit request.
Enabled Schedule	null, true (default) or false	Indicates if a schedule exists.

In addition to the standard properties (Facets), these unique properties support this component:

r

Property	Value	Description
		A check-marked null value defaults to the incoming value from the device. If you remove the check mark you can configure this value.
Unlock on Exit Request	yes <b>or</b> no <b>(default)</b>	Allows an exit request to unlock a door.
Exit Request Timeout	None or hours mi- nutes seconds (de- faults to 30 seconds)	Configures an amount of time for the person who requested an exit to pass through the door before the door locks again. This component is documented in a separate topic.
Exit Request Time- out Relock	true <b>(default) or</b> false	Configures whether or not the door locks after the exit request timeout.
Exit Request Time- out Alarm Ext	additional properties	This alarm-source-extension component is documented in a separate topic.
Supervisor Fault Settings	additional properties	This alarm-source-extension component is documented in a separate topic.
outOfSericeExt	BACnet extension	This out-of-service component is documented in a separate topic.

# accessDriver-AccessSdi

This component configures a Sensor Digital Input (Sdi).

```
Figure 519 Sensor properties
```



To access this component, expand the  $AccessNetwork \rightarrow Remote2ReaderModule \rightarrow Points \rightarrow Door$ , and double-click the Sensor node in the Nav tree.

In addition to the standard properties (Facets), these unique properties support this component:

Property	Value	Description
Sensor Input	additional properties	This proxy-extension component is documented in a separate topic.
Status	read-only	Indicates the current state of the sensor (Active or Inac- tive), and its status {ok}, or other possibilities.
Door Held Open Limit	hours minutes sec- onds (defaults to 30 seconds)	Configures how long the door may be held open before an alarm condition manifests.
Unlock Schedule	null, true or	Indicates if an unlock schedule exists.
	fa⊥se ( <b>default)</b>	A check-marked null value defaults to the incoming value from the device. If you remove the check mark you can configure this value.
Unlock Override	null, true or false (default)	Indicates if an override exists.
		A check-marked null value defaults to the incoming value from the device. If you remove the check mark you can configure this value.
Unlock Rex	null, true or	Indicates if an override exists.
Override	false ( <b>default</b> )	A check-marked null value defaults to the incoming value from the device. If you remove the check mark you can configure this value.
Debounce Time		
DoorForcedExt	additional properties	This alarm-source-extension component is documented in a separate topic.
DoorHeldOpenExt	additional properties	This alarm-source-extension component is documented in a separate topic.
IntrusionTimeou- tExt	additional properties	This alarm-source-extension component is documented in a separate topic.
Supervisor Fault Settings	additional properties	This alarm-source-extension component is documented in a separate topic.
outOfServiceExt	BACnet extension	This out-of-service component is documented in a separate topic.

# accessDriver-AccessStrike

This component configures the door strike.

#### Figure 520 Door strike properties

emote2ReaderModule : Points : Door 1	: Strike 💉 🕺 AX Prop	erty She
Property Sheet		
B Strike (Strike)		
Facets	trueText=Unlocked,falseText=Locked 📎 🕓 🔹	
Door Lock Output	Access Proxy Ext	
- Status	Locked {fault} 0 def	
<b>—</b> In1	- {null}	
<b>—</b> In2	- {null}	Ŧ
<b>—</b> In3	- {null}	Ŧ
In4	- {null}	Ŧ
- In5	- {null}	Ŧ
In6	- {null}	
— In7	- {null}	Ŧ
- In8	- {null}	
<b>—</b> In9	- {null}	Ŧ
<b>—</b> In10	- {null}	Ŧ
- In11	- {null}	Ŧ
<b>—</b> In12	- {null}	Ŧ
- In13	- {null}	Ŧ
<b>—</b> In14	- {null}	Ŧ
- In15	- {null}	Ŧ
- In16	- {null}	Ŧ
- Fallback	Locked {ok}	Ŧ
Override Expiration	null	
Min Active Time	+00000h 00m 00s	
in Inactive Time	+00000h 00m 00s	
) Set Min Inactive Time On Start	🛑 false 🗸	- 1
📔 Auto Relock	Relock On Door Open 🗸	
📔 Schedule Operation	Normal	- 1
- Follow Strike	- {null}	Ŧ
- Unlock Schedule	- {null}	Ŧ
<ul> <li>Override Schedule</li> </ul>	- {null}	Ŧ
Schedule Out	- {null}	
Sensor Input	true {fault, stale}	Ŧ
- Unlock Input	false {ok}	Ŧ
📔 Access Unlock Time	00000h 00m 05s 💐 [1 second - 59 minutes]	
Log Exit Requests	None	
C Ref	resh Save	

To access this component, expand the **AccessNetwork→Remote2ReaderModule→Points→Door**, and double-click the **Strike** node in the Nav tree.

In addition to the standard properties (Facets and Status), these unique properties support this component:

Properties	Value	Description
Door Lock Output	heading	Serves as a heading for the read-only values that follow.
In1–In16	true <b>or</b> false, <b>defaults to</b> false	Report the door lock inputs. Each writable point uses a 16-level priority scheme, with corre- sponding inputs In1—In16, plus a Fallback property. Level 1 is the highest priority, and level 16 is the lowest.

Properties	Value	Description
		When null is checked, the value displayed defaults to the in- coming value from the device. If you remove the check mark you can configure the In value.
Fallback	true <b>or</b> false, <b>defaults to</b> false	Pre-defines and output value in case of a null input.
Override Expiration	read-only	Reports when a waiting period is over and the driver issues an automatic action to the point.
Min Active Time	hours minutes seconds	Specifies that once opened, how long the door just remain open.
Min Inactive time	hours minutes seconds	Specifies that once closed, the door must remain closed for this amount of time.
Set Min Inactive Time On Start	true <b>or</b> false (default)	Ensures the minimum inactive time when the station starts.
Auto Relock	drop-down list	Defines what should happen with a door that has just been unlocked.
		Unlock Time permits the door to remain unlocked for the amount of time defined by Access Unlock Time.
		Relock On Door Open locks the door as soon at it unlocks.
		Relock On Door Close locks the door either after the Ac- cess Unlock Time expires (if the door has been unlocked, but not opened) or when the door closes.
Schedule Operation	drop-down list	Specifies when to set the strike status. All options work with the selected unlock schedule. If no schedule is selected, (prop- erty set to none), none of the options are available for specify- ing how to set the strike status.
		Normal follows the schedule defined by the Unlock Sched- ule property.
		Unlock on first validation causes the strike to unlock (if access is granted) and remain unlocked after the first time access is granted within the scheduled open time. If access is granted outside of the scheduled open time, an unlock-on-first-validation is not performed.
		Unlock and Relock alternately unlocks and re-locks with each card swipe.
		Follow Another Strike opens a Ref Chooser used to select a module and door strike to follow. Door status reflects the status of the strike to follow. Choosing this option, when the schedule is true, inhibits the door force alarm without waiting for the door to follow to have its strike enabled.
Follow Strike	null (default), true or false	A check-marked null value defaults to the incoming value from the device. If you remove the check mark you can configure this value.
Unlock Schedule	null (default), true or false	Selects a schedule to indicate when a door should be un- locked. None disables all strike properties. If no schedules ap- pear in the Ref Chooser, none may have been created yet.

Properties	Value	Description			
		A check-marked null value defaults to the incoming value from the device. If you remove the check mark you can configure this value.			
Override Schedule	null (default), true or false	A check-marked null value defaults to the incoming value from the device. If you remove the check mark you can configure this value.			
Schedule Out	null (default), true or false	A check-marked null value defaults to the incoming value from the device. If you remove the check mark you can configure this value.			
Sensor Input	null, true (default) or false	A check-marked null value defaults to the incoming value from the device. If you remove the check mark you can configure this value.			
Unlock Input	<b>null</b> , true <b>or</b> false <b>(default)</b>	A check-marked null value defaults to the incoming value from the device. If you remove the check mark you can configure this value.			
Access Unlock Time	hours minutes sec- onds (defaults to 5 seconds)	Defines the length of time that a door may remain unlocked after access is granted. Values are only used when Auto Re- lock is set to Unlock Time.			
Log Exit Requests	drop-down list (de-	None			
	faults to None)	Unloaked			
		Opened			
		Unlocked Or Opened			
Log Schedule	true (default) or	Manages the log for a scheduled activity.			
Activity	false	true creates a record any time a schedule controls activity at this door. The record may be displayed in the Access History report.			
		false disables the recording of scheduled activity.			
Threat Level Group	read-only	Reports the threat level group.			
Schedule Lock- down Threat Level	drop-down list (de- faults to -1)	Specifies a threat level that keeps the door locked no matter what the state of the associated schedule is. The default sets the door to follow the associated schedule without regard to the active threat level. A value other than the default (Low, Normal or High) keeps the door locked as long as the active threat level is at or above that specified here. This value must be greater threat than the value specified in the Unlock Threat Level. If not, the system displays a warning message next to the property when you try to save.			

Properties	Value	Description
Unlock Threat drop-down list (de- Level faults to -1)		Specifies a threat level that keeps the door unlocked, no mat- ter what the state of the associated schedule is.
		The default follows the associated schedule without regard to the active threat level. A value other than the default (that is, Low, Normal or High) keeps the door unlocked as long as the active threat level is at or below the level specified here. The value of the Schedule Lockdown Threat Level must be a greater threat level than the value specified by this property, otherwise, a warning message displays when you try to save changes.
outOfServiceExt	BACnet extension	This out-of-service component is documented in a separate topic.

# accessDriver-Remote2ReaderModule

This component configures a Remote 2 Reader module.

Figure 521	Remote2ReaderModule properties
------------	--------------------------------

Pr	ope	erty Sheet	
Ŷ	Ren	note2ReaderModule	(Remote Reader Module)
	Ð	Status	{fault}
	Ð	Enabled	🔵 true 🔍
	Ð	Fault Cause	Invalid UID: Do Discover and Match.
Þ.	₽	Health	Fail [null]
•	0	Alarm Source Info	Sec Alarm Source Info
	Ð	Address	0 [0 - 16]
	Ð	Device Type	Remote Reader
	Ð	Uid	0000000000
	Ð	Installed Version	
	Ð	Available Version	1.34
	Ð	Wink Output	1 [1-8]
	Ð	Wink Duration	00000h 00m 10s 🛔 [5 seconds - 1 minute]
•	⊕	Points	Remote2 Reader Points
•	Ð	Io Status	lo Status
	Ð	Initial Doors	Two Doors 🗸
		_	

You add this component to the **AccessNetwork** node in the station from the **accessDriver** palette. Once in the station, double-click this node to view its properties.

In addition to the standard properties (Status, Enabled, Fault Cause, Health and Alarm Source Info) these properties configure this component:

Property	Value	Description
Address	read-only	Reports the unique integer value automatically assigned to each physical I/O module during discovery.
Device Type	read-only	Identifies the type of remote device.

Property	Value	Description
Uid	read-only	Reports a six-byte number that is globally unique to this specif- ic I/O hardware device. Discovery automatically obtains this Unique ID (Uid) from each device.
Installed Version	read-only	Reports the firmware version installed in the I/O module or device.
Available Version	read-only	Reports the firmware version available for the installed mod- ule. If this number is more recent (higher) than the installed version, you can initiate an I/O firmware upgrade from the De- vice Manager.
Wink Output 1–8 (defaults to 1)		(Writable) Specifies which digital output (relay output) is cycled On and Off when a Wink Device action is invoked on the mod- ule. Although the range is from 1 to 8, the I/O hardware may have fewer outputs.
Wink Duration hours minutes sec- onds (defaults to		(Writable) Specifies how long the wink output cycles on and off at a constant rate of 1 second on followed by 1 second off.
	10 seconds) 5–60 seconds	<b>NOTE:</b> Wink is typically used only in the early stages of station configuration. After configuring, you may hide the Wink Device action to prevent inadvertent and unintended cycling of loads.
Points	points container	Documented elsewhere.
lo Status additional properties		Contains a concatenated summary of current IO values in hex- adecimal coded format, and numerous component children with individual hexadecimal values.
		These are the last values received by the actrld process run- ning on the controller. This information is usually used for ad- vanced debughing only.
Initial Doors	drop-down list (de-	Defines the number of doors.
	faults to Two Doors)	No Doors
		One Door
		Two Doors

# accessDriver-Remote2ReaderPoints

This component (default name Points) is the container for Remote 2 Reader devices. Each device controls two Boolean Digital Inputs (Di1 and Di2) as well as two doors (Door 1 and Door 2)





You add this component to the AccessNetwork node in the station from the accessDriver palette. Once in the station, double-click this node to view the points it contains. To view the Property Sheet, right-click the Remote2Reader node in the Nav tree and click Views→AX Property Sheet.

Each digital input and door is a component in its own right with associated properties and additional devices.

The default and primary view for this component is the R2 R Point Manager.

# accessDriver-ActivityAlertExt

This component servers multiple uses to track access activity.

Figure 523	Example	of an	activity	alert	extensior
			/		



Property	Value	Description
Activity Type	read-only	Identifies the type of activity.
Inactive Threat Level Group Alert (example)	additional properties	This is a standard alarm-AlarmSourceInfo component.
Enable logging	true <b>(default) or</b> false	Turns activity logging on and off.

# Chapter 21 Workbench plugins

#### Topics covered in this chapter

- ♦ Access Device Manager
- ♦ R2 R Point Manager

There are many ways to view plugins (views). One way is directly in the tree. In addition, you can right-click on an item and select one of its views. Plugins provide views of components.

In Workbench, access the following summary descriptions on any plugin by selecting **Help→ On View** (F1) from the menu, or pressing F1 while the view is open.

# **Access Device Manager**

This view shows the access devices connected to the AccessNetwork.

Figure 524 Access Device Manager

s	tation (EntsecSup) : Co	onfig : Drivers :	AccessNet	work			Access Device Man	nager -
[	Database						2 obje	ects
L	Name	Device Type	Status	Address	Uid	Installed Version	Available Version	t₽
Ŀ	🖀 Remote2ReaderModule	Remote Reader	{fault}	0	00000000000		1.34	
	AccessInputOutputMod	ule Remote Input Output	{fault}	0	00000000000		1.34	
L								
Ŀ								
Ŀ								
L								
L								
			-					
L	🖋 Edit 🛛 📩 Disco	ver 🔳 Cancel	+ Add	>>>> Ma	tch _{≩3} Up	grade Firmware	🕀 Add Offline	Ha
								(

To open this view, navigate to **Config**→**Drivers** and double-click the **AccessNetwork** node in the Nav tree.

Column	Description
Name	Provides descriptive text that reflects the identity of the entity or logical grouping.
Device Type	Identifies the type of remote device.
Status	Indicates the condition of the network, device or component at the last check.
	$\{ok\}$ indicates that the component is licensed and polling successfully.
	$\{\tt down\}$ indicates that the last check was unsuccessful, perhaps because of an incorrect property, or possibly loss of network connection.
	{disabled} indicates that the Enable property is set to false.
	{fault} indicates another problem. Refer to Fault Cause for more information.
Enabled	Activates (true) and deactivates (false) use of the network, device, point and component.
Health	Reports the status of the network, device or component. This advisory information, including a time stamp, can help you recognize and troubleshoot problems but it provides no direct management controls.

Table 92 Columns

Column	Description
Address	Reports the unique integer value automatically assigned to each physical I/O module during discovery.
Uid	Reports a six-byte number that is globally unique to this specific I/O hardware device. Discovery auto- matically obtains this Unique ID (Uid) from each device.
Installed Version	Reports the firmware version installed in the I/O module or device.
Available Version	Reports the firmware version available for the installed module. If this number is more recent (higher) than the installed version, you can initiate an I/O firmware upgrade from the Device Manager.
Initial Doors	Defines the number of doors.
	No Doors
	One Door
	Two Doors

# **R2 R Point Manager**

This view lists the R2 R points in the database and provides point discovery.

Figure 525 R2 R Point Manager

Accessivetwork	. Kemotezkead	icimodule.		K2 K1 Olife Manager
Database				19 objects
lame	Туре	Instance	Value	<b>9</b>
B Di1	Boolean Point	1	inactive {fault,stale}	<u>^</u>
B Di2	Boolean Point	2	inactive {fault,stale}	
B Exit Request	REX	2	Inactive {fault,stale}	
B) Sensor	Sensor	1	Opened {fault,stale}	
B) Strike	Strike	1	Locked {fault} @ def	
Reader 1	Reader		Reader	
B Green	Access Aux Output	5	Off {fault} @ def	
B Red	Access Aux Output	6	Off {fault} @ def	
Beeper	Access Aux Output	7	Off {fault} @ def	
B) Exit Request	REX	4	Inactive {fault,stale}	
B) Sensor	Sensor	3	Opened {fault,stale}	
B Strike	Strike	2	Locked {fault} @ def	
Reader 2	Reader		Reader	
B Green	Access Aux Output	8	Off {fault} @ def	<b>.</b>
💉 Ed	it 📩 Discove	r (+) A	dd ≽ Match 🕅	🖏 Tagit

To access this view, expand the **Config** $\rightarrow$ **Drivers** $\rightarrow$ **AccessNetwork** $\rightarrow$ **Remote2ReaderModule** node in the Nav tree and double-click the **Points** node.

Column	Description
Name	Provides descriptive text that reflects the identity of the entity or logical grouping.
Туре	Indicates the type of component.
Instance	Defines the point's I/O terminal address based on its hardware type. If duplicated (same instance as same hardware type, same board), the point reports a fault status.

#### Table 93 Columns

Column	Description
	If an edit attempt is made to an instance already in use by another proxy point, the system discards the edit, and retains the previous instance value.
ls Sdi	Supervised Digital Input (Sdi)
Conversion	Specifies the units used between the read value (as defined in Device Facets) and the parent point's out- put (in selected point facets).
Value	Reports the current point datum (data item).
Facets	Indicates the text used to describe true and false device states.

#### **Buttons**

•

# Chapter 22 Windows

#### Topics covered in this chapter

Edit remote reader module window

Windows create and edit database records or collect information when accessing a component. You access them by dragging a component from a palette to a nav tree node or by clicking a button.

Windows do not support **On View (F1)** and **Guide on Target** help. To learn about the information each contains, search the help system for key words.

# Edit remote reader module window

This window configures a remote reader module record in the database.

Figure 526 Edit remote module window

Name		Device Type	Enabled	Address	Uid	Initial Doors
Remote2Reade	rModule	Remote Reader	true	0	00000000000	Two Doors
Name	Remote	2ReaderModule	:			
Device Type	Remote	Remote Reader				
Enabled	🔵 true	<b>•</b>				
Address	0	[0 - 1	6]			
[™] Uid	000000	000000				

To open this window, expand **Config→Drivers**, double-click **AccessNetwork**, select a module and click the **Edit** button.

Property	Value	Description
Name	text	Provides descriptive text that reflects the identity of the entity or logical grouping.
Device Type	read-only	Identifies the type of remote device.
Enabled	true <b>(default) or</b> false	Activates (true) and deactivates (false) use of the network, device, point and component.
Address	read-only	Reports the unique integer value automatically assigned to each physical I/O module during discovery.

Property	Value	Description
Uid	read-only	Reports a six-byte number that is globally unique to this specif- ic I/O hardware device. Discovery automatically obtains this Unique ID (Uid) from each device.
Initial Doors drop-down list (de-		Defines the number of doors.
faults to Two Doors)	No Doors	
		One Door
		Two Doors

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