

Documentation

# PCSC RTU Guide

## Version 3.x

# **OSSI**

**W228 N727 Westmound Dr  
Waukesha WI 53186 USA  
TEL: 262-522-1870  
FAX: 262-522-1872  
Ossi-usa.com**

# **Intelli-Site**

## **Security Management Software**

### **PCSC RTU Guide**

PC Software RTU Interface Guide  
For Windows 7 SP1, 2008 R2 SP1, XP SP3 & 2003 SP2

Version 3.x  
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OSSI  
W228 N727 Westmound Dr  
Waukesha WI 53186  
TEL: 262-522-1870  
FAX: 262-522-1872

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## Section 1 – Introduction

This section describes the following:

- Overview
- Technical Support Assistance

### **Overview**

The PCSC RTU (Receiver/Transmitter Unit) is the Intelli-Site software representation of a PCSC IQ-series, Ultimate-series, MicroLPM-series or ELV-series access control panel. For purposes of this document, the term RTU is synonymous with access control panel.

The PCSC RTU provides for user configuration of all aspects of the access control panel network including:

- Access control panel general configuration
- Communications Settings (in conjunction with Driver Services)
- Input configuration
- Output configuration
- Doors (Readers) configuration
- Alarms configuration
- PCSC RTU-specific I/O types and Actions
- PCSC RTU-specific Database (Cardholder Management) functionality
- PCSC RTU-specific Reports and Documentation
- PCSC-Specific Access Control Node functionality
- PCSC-Specific Door Control functionality

## ***Technical Support Assistance***

### **OSSI Headquarters**

W228 N727 Westmound Dr.

Waukesha WI 53186 USA

Tel: 262-522-1870      Fax: 262-522-1872

### **Technical Support**


Technical support is available via Telephone, Fax or Email. Contact OSSI Technical Support 8:00 AM to 5:00 PM Central Standard time. If calling after hours, please leave a detailed voice mail message, and someone will return your call as soon as possible.

E-Mail: [support@ossi-usa.com](mailto:support@ossi-usa.com)

Fax: 262-522-1872 (Attention Technical Support)

Local: 262-522-1870

When calling, please be at the computer prepared to provide the following information:

- Product version number, found by selecting the **About**  button from the Intelli-Site Menu Application Bar.
- Product serial number used for registration.
- The type of computer being used including, operating system, processor type, speed, amount of memory, type of display, etc.
- Exact wording of any messages that appear on the screen.
- What was occurring when the problem was detected?
- What steps have been taken to reproduce the problem?

## Section 2 – PCSC RTU Configuration

This section describes the following Design Mode RTU activities in Intelli-Site.

- Adding a PCSC RTU to the Intelli-Site tree
- IQ, Ultimate and MicroLPM Configuration
- ELV Panel Configuration

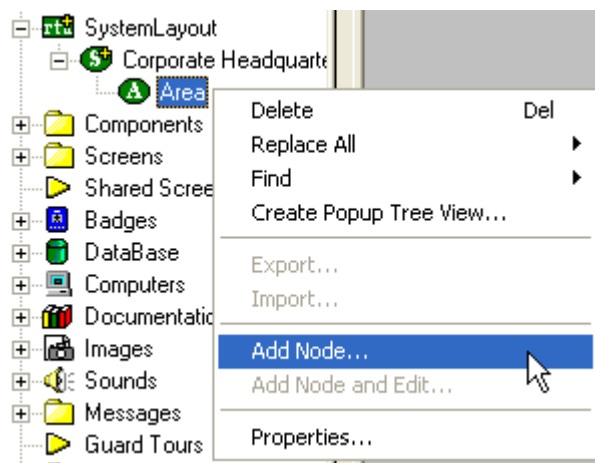
### ***Adding a PCSC RTU to the Intelli-Site Tree***



The following section will describe how to add one or more PCSC RTU nodes to the tree. All procedures described in this section are accomplished in Design Mode.

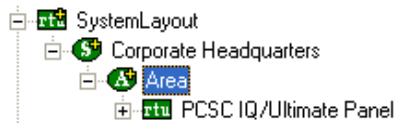
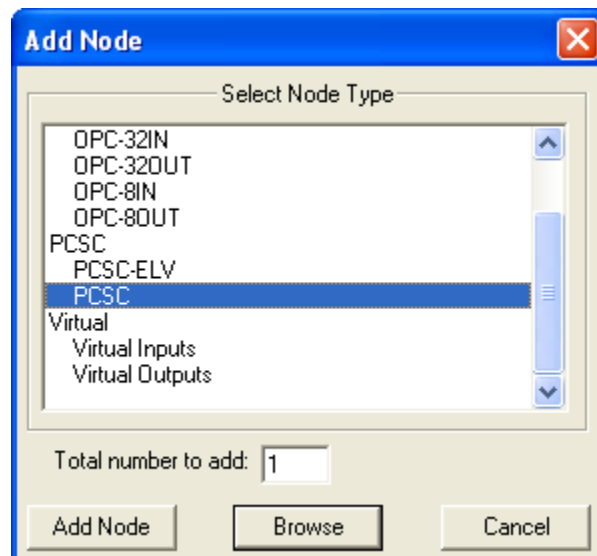
#### **Add an RTU – Procedure**

1. Expand the System Layout Node and Right-Click on an Area. Select **Add Node...** from the Shortcut Menu as shown below:



- Two basic PCSC RTU types can be selected from the **Add Node** dialog:  
**PCSC-ELV** – all ELV-type panels and  
**PCSC** – IQ-series, Ultimate-series and MicroLPM-series Panels. Select the RTU type then enter the number of panels you wish to add to the tree in the **Total number to add:** edit box. You may add multiple panels to an area.

**Note:** The total number of RTUs that may be added must not exceed 255 for a given domain.

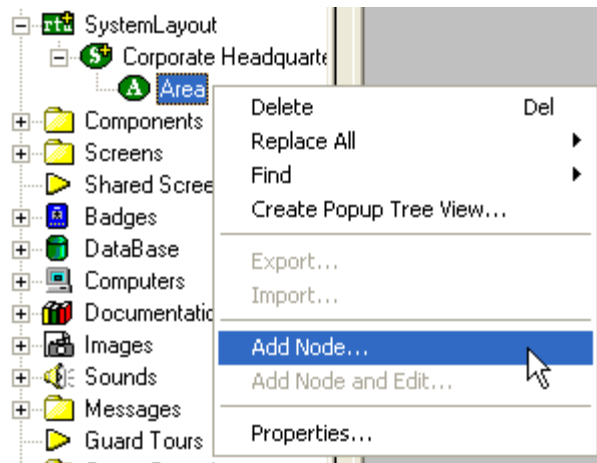


- The RTU(s) will be added to the tree and the system level Text-To-Speech message **"Node Added"** will sound.

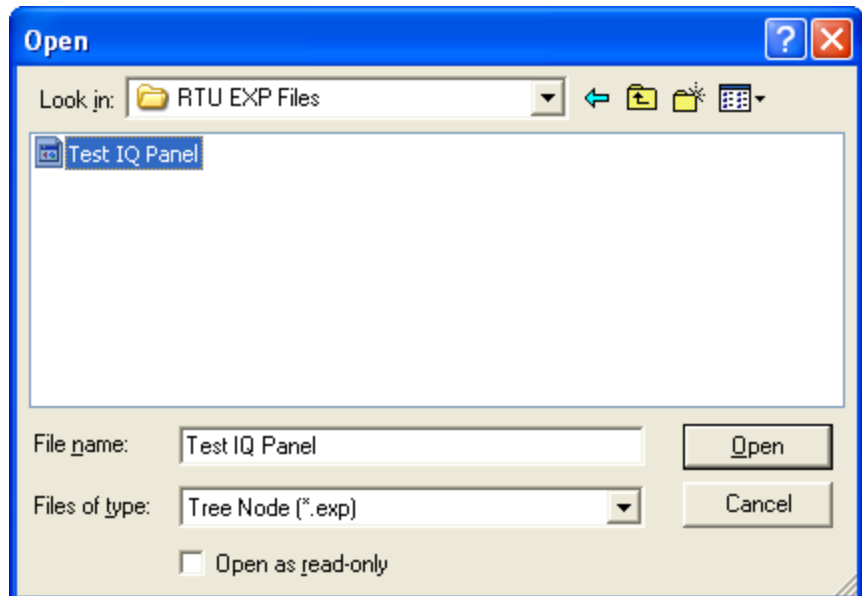
### Import an RTU – Procedure

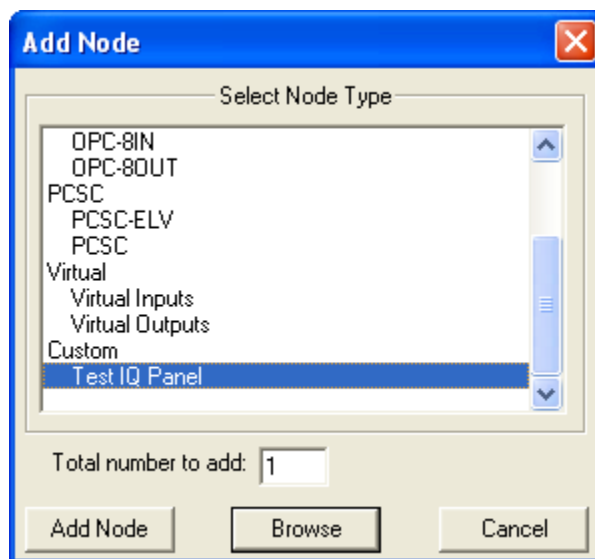
- Expand the System Layout Node and Right-Click on an Area. Select **Add Node...** from the Shortcut Menu as shown below:





2. Select the **Browse** button on the **Add Node** dialog: A browse window will open. Browse to the appropriate location then select the RTU .exp file you wish to import and select the **Open** button. A new type (**Custom**) will be automatically added to the **Add Node** dialog and the imported .exp will be listed below the **Custom** type.





3. Select the imported RTU then enter the number of panels you wish to add to the tree in the **Total number to add:** edit box. You may add multiple panels to an area.
4. The RTU(s) will be added to the tree and the system level Text-To-Speech message "**Node Added**" will sound.



## ***IQ, Ultimate and MicroLPM Configuration***

The following section describes configuration of the various elements of the non-elevator PCSC RTU.

The PCSC RTU consists of a parent (the basic panel node) and four children as follows:

- **Inputs** – a collection of all sense inputs.
- **Outputs** – a collection of all control counters.
- **Doors** – a collection of all readers.
- **Alarms** – the collection of all alarms.

### **RTU Node (Parent Node)**

The parent (PCSC IQ/Ultimate) node is configured by **Right-Clicking** on the RTU and selecting **Properties...**

### **RTU Setting Tab**

**Area - PCSC IQ/Ultimate Panel**

RTU | System Parameters | Features | Notes/Comments

Name:

Access Level:

**RTU Setup**

Domain:  Net:

☐ Virtual Point:

Event buffer delta (min.):

☐ Retain

☐ Auto download valid cards:

☐ Status Polling Enabled

☐ Card Status Polling Enabled

Upload

Password

Download

1. **Name:** - enter a descriptive name for the panel here. Example: First Floor Mechanical Room.
2. **Access Level** – this is the Access Level of the node object (RTU).
3. **RTU Setup** – this area is used to configure the Intelli-Site network parameters and basic functional characteristics of the node.

**RTU Setup**

Domain:  Net:

☐ Virtual Point:

Event buffer delta (min.):

☐ Retain

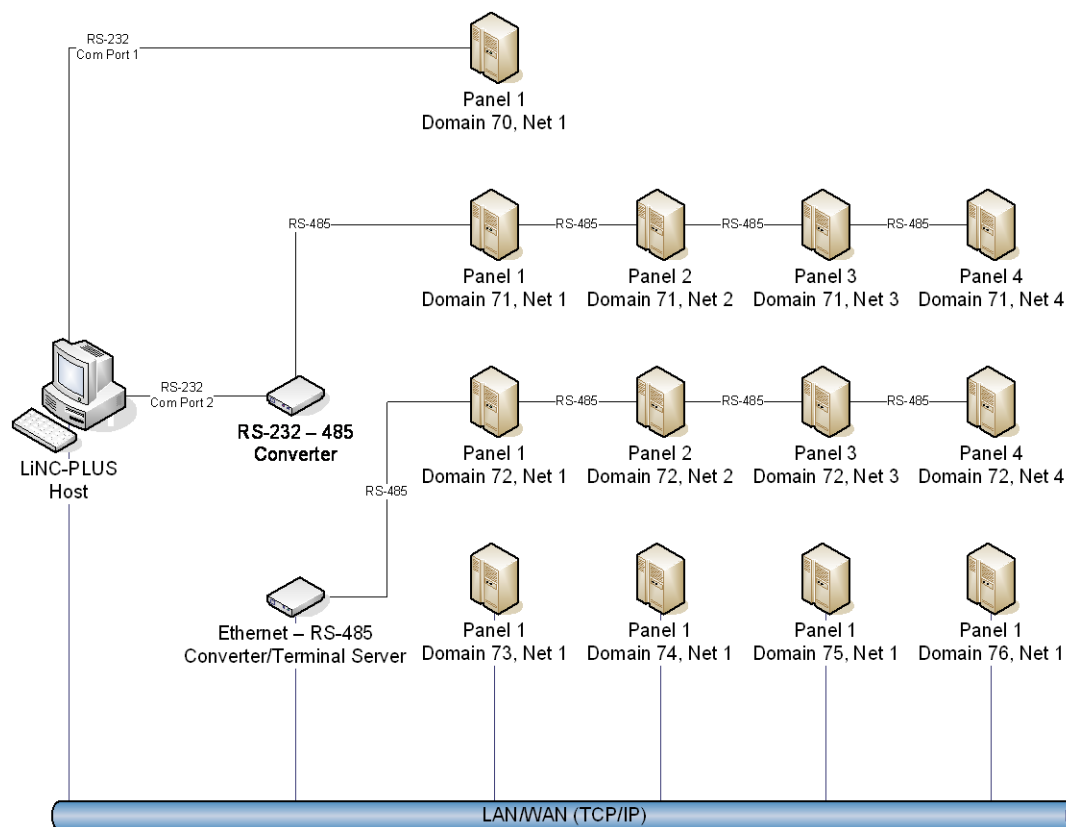
☐ Auto download valid cards:

☐ Status Polling Enabled

☐ Card Status Polling Enabled

- a. **Domain and Net** – the Domain identifies the panel chain (in an RS-232/RS-485 network) and the Net identifies the panel number. See the illustration below for various connection options and how they relate to Domain and Net settings.

**Note: The Domain of an Ethernet-based (TCP/IP) panel will be unique for each panel. It is recommended that the net (and panel number) for Ethernet panels be set to 1.**



**b. Event buffer delta (min):** - Enter a number (in minutes) that will determine if an event is outside of the buffered range for host action. For example: if this field is set to 5, any event received from the panel that has a time stamp that is 5-minutes or older (than the system time) will be logged as a "buffered" event. The host will take no action for this event.

**c. Retain** - Reserved - has no function at this time.

- d. Auto Download valid cards:** - When a card is presented to a reader on this panel the host will check to see if the card is valid in the host database. If the card is valid the host will download the card record to the panel immediately.
- e. Status Polling Enabled** – Will enable additional polling of the panel for Door Position Switch (DPS) and Request-to-Exit (REX) point status.
- f. Card Status Polling Enabled** – Enables additional polling (on demand from **Card Management Mode**) for card status as shown below:

The screenshot shows a 'Card Status' window. On the left, under 'Available Panels', 'PCSC IQ/Ultimate Panel' is selected. On the right, under 'Card Status Data', the following information is displayed: Parking: Out, Building: Out, Department: Out, Last Access Time:, Last Access Reader:, Invalid Pin Count: 0, First Usage: [checked], First Parking Usage: [checked], and Credit Balance: 0. At the bottom are buttons for Refresh, Save Changes, and Cancel.

- g. Virtual Point:** - Check this box to “virtualize” the panel. When an RTU has been virtualized all server-to-driver services communications stop and will not be reinitiated until the RTU has been un-virtualized. Drag-and-drop a virtual I/O point into the drop field. This I/O point will be set high whenever the panel is virtualized.

- 4. Upload** – Allows the user to upload data from the panel. The user may upload Settings only. Card information will not be included in the collected data.

**Note: Upload function is not supported on all panels (pre version 7.010 firmware). Confirm firmware version before attempting the upload.**

- 5. Password** – Allows the user to set the panel password (default is PYMTF).

**Note: Default password must be used for initial logon to any new panel.**

- 6. Download** – Allows the user to download data to the panel. The user may download **Settings, Time Zones, Cards, or Complete (Time Zones, Cards and Settings)**. Downloads to multiple panels can also be accomplished from the **Area** property page as shown below:

The screenshot shows a web-based interface titled "Corporate Headquarters - Area". It features a "Property Page" tab. The "Name" field contains "Area" and the "ID" field contains "210". The "Access Level" is set to "Level 1". Below this, there is a "Threat" section with a value of "0" and a "Set" button. At the bottom, there is a "Download" section with buttons for "Settings", "Set Time", "Time Zones", "Cards", "Complete", and "Clear All". The page has an "Ok" and "Cancel" button at the bottom right.

## System Parameters Tab

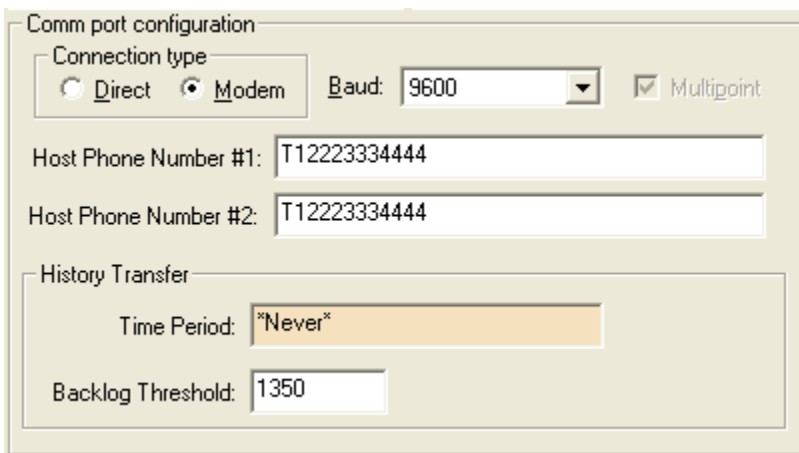
**1. Expansion Boards** – Allows the user to select the panel model and optional expansion boards.

**2. Facility Codes** – Allows the user to add facility codes for download to the panel.

**Note: Multiple facility codes are not supported on all panels (post version 7.10.00 firmware). Confirm firmware version before attempting to enter multiple facility codes.**

**3. Printer Baud** – Allows the user to select the baud rate of the optional event printer (attached to the panel).

**4. Comm port configuration** – Allows the user to set communication parameters between the panel and the Intelli-Site host.

A screenshot of a 'Comm port configuration' dialog box. It has a title bar and a close button. The 'Connection type' section has two radio buttons: 'Direct' (unselected) and 'Modem' (selected). To the right is a 'Baud:' dropdown menu showing '9600' and a checked 'Multipoint' checkbox. Below are two text boxes for 'Host Phone Number #1' and '#2', both containing 'T12223334444'. The 'History Transfer' section has a 'Time Period:' dropdown showing '\*Never\*' and a 'Backlog Threshold:' text box containing '1350'.

- a. **Connection type** – Direct or Modem
- b. **Baud:** - Select the baud rate for this connection.
- c. **Multipoint** – Reserved (Not supported at this time)
- d. **Host Phone Number #1:** - Enter the Intelli-Site host modem's primary telephone number. This is the first telephone number the panel will autodial to report events.
- e. **Host Phone Number #2:** - Enter the Intelli-Site host modem's secondary telephone number. This is the telephone number the panel autodials to report events in case the primary number is not in service (busy, disconnected, etc.).

**Note:** Since it is possible to install and run the Intelli-Site Driver Services application on a separate computer from the Server it is important that the numbers entered in this field are the modem numbers for the modems connected to the proper computer.



- f. History Transfer – Drag-and-drop** a time period into the drop field to program the panel to transfer off-line history events to the Intelli-Site host. Enter a number in the Backlog Threshold field in order to program the panel to automatically dial the host with an off-line history transfer when the number of buffered events reaches the threshold regardless of the current time.

## Features Tab

The screenshot shows the 'Area - PCSC IQ/Ultimate Panel' window with the 'Features' tab selected. The window contains several configuration sections:

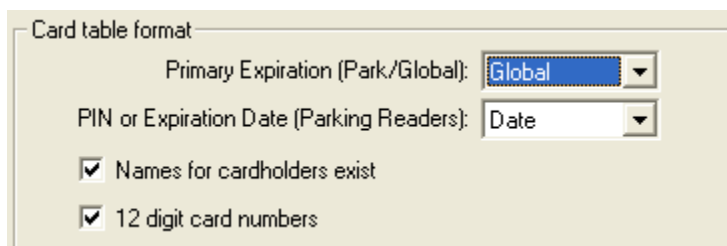
- Daylight savings:** Includes 'Enter' and 'Exit' date pickers. The 'Enter' date is set to 04/03/2005 and the 'Exit' date is set to 10/30/2005.
- Card table format:** Includes a 'Primary Expiration (Park/Global)' dropdown set to 'Global', a 'PIN or Expiration Date (Parking Readers)' dropdown set to 'Pin', and two checked checkboxes: 'Names for cardholders exist' and '12 digit card numbers'.
- Entry/Exit enforcement:** Includes three dropdowns for 'Parking', 'Department', and 'Building', all set to 'Off'.
- Duress event:** Includes a 'Control Output' dropdown set to 'None', a 'Preload' dropdown set to 'NoLoad', a 'T' checkbox, and an 'Operation' dropdown set to 'None'.

At the bottom right of the window are 'Ok' and 'Cancel' buttons.

- 1. Daylight savings – Enter:** Enter the date of the official start of Daylight Savings. In the US it is the first Sunday in April. Enter the date that daylight savings begins in month, day, year format (e.g., 04/01/2001). **Exit:** Enter the date of the official end of Daylight Savings. In the US it is the last Sunday in

October. Enter the ending date in the same format (e.g. 10/04/2001).

## 2. Card Table Format



Card table format

Primary Expiration (Park./Global): Global

PIN or Expiration Date (Parking Readers): Date

☒ Names for cardholders exist

☒ 12 digit card numbers

- a. Primary Expiration (Park./Global):** - If you select Global, the system automatically selects the Primary expiration date for all types of readers. You must select Global, if user-select PIN is to be used. If you select Park-Only (Secondary Expiration), each cardholder has 2 card expiration dates
- b. PIN or Expiration Date (Parking Readers):** -, with the parking expiration date automatically set to Date. One date controls the access privilege for "parking" type readers and the other for all other types of readers. This unique function allows the system administrator to automatically deny access to cardholders at parking readers, yet allow them to pass through facility related readers.
- c. Names for cardholders exist** – Cardholder names will be downloaded to the panel.
- d. 12 digit card numbers** – The panel will accept 12-digit card numbers.

## 3. Entry/Exit Enforcement

Each panel supports three separate entry/exit enforcement levels: **Strict**, **Lenient**, and **Soft**. Each enforcement level can be individually assigned to **Parking**, **Building**, or **Department** readers, but is enforced (under normal circumstances) when the Entry function and the corresponding Exit function readers are on the same panel. In order to broaden the use of Entry/Exit enforcement, an administrator can use **Global Anti-Passback**. For more information, see the **Intelli-Site Reference Guide**.

**NOTE** Entry/Exit enforcement cannot be done (at any of the 3 levels) if the entry readers are on one panel and the corresponding exit readers are on a different panel.

**NOTE** These panel firmware versions require the door to be opened before changing the card status. Repeated accesses will be granted (regardless of the anti-passback level of enforcement) if the door is not opened:

Standard MicroLPM- Version 1.9.7 and above

Plus 2 MicroLPM- Version 3.9.7 and above

Plus 4 MicroLPM- Version 7.9.7

**NOTE** All IQ and SIM panels require that the door be opened prior to updating the card status.

### ***Strict Entry/Exit***

The cardholder's entry/exit status must be synchronized with the system, otherwise an

entry/exit error will be announced. In other words, the cardholder must have the proper status (building, department, or parking) before he uses an entry/exit reader. The card status must be as follows:

If the cardholder's Building Status is **IN** then Department Status can be **IN** or **OUT**.

If the cardholder's Building Status is **OUT**, the Department Status must be **OUT**.

If the cardholder's Department Status is **IN** then Building Status must be **IN**.

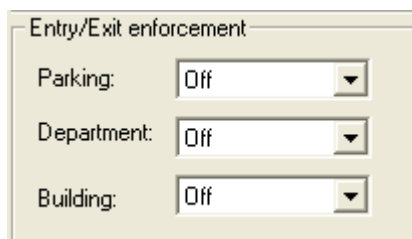
If the cardholder's status does not comply with the reader's entry/exit definition, then the system will deny access. In other words, when a cardholder attempts to enter a building **IN** reader, the cardholder's building and department status must be **OUT**.

### ***Lenient Entry/Exit***

This level is the same as **Strict** except on the first use of the card, in which case the system will automatically reset the building and department status to proper synchronization. The cardholder's second attempt at the reader will then grant him access.

### ***Soft Entry/Exit***

This level follows the same rules as **Strict** except that an error transaction is recorded, all status levels are synchronized, and access is **GRANTED**.



Entry/Exit enforcement

Parking: Off

Department: Off

Building: Off

- a. **Parking:** - May be set to **Off**, **Lenient**, **Soft** or **Strict**.

- b. **Department:** - May be set to **Off**, **Lenient**, **Soft** or **Strict**.
- c. **Building:** - May be set to Off, Lenient, Soft or Strict.

**4. Renewable Shunt:** - The Renewable Shunt renews the access time if a second card swipe occurs before the previous completed transaction. The access time must be set equal to, or longer, than the shunt time. (See Reader Configuration).

**5. Duress Event** - A control counter can be activated when a duress code is entered by the cardholder. Once a sense input has been selected, an output must be assigned for an alarm.

Control Output	Preload	T	Operation
*None*	NoLoad	<input type="checkbox"/>	None

a. **Control Output** - Drag-and-drop a Control Counter (CC) that will enable an output for duress into the drop field (CC1-CC40).

b. **Preload** - Select the Preload action from the following options:

**NoLoad** - No preload action (CC value is unchanged)

**LoadZero** - Load CC with zero

**LoadLow** - Load CC with low threshold value

**LoadHigh** - Load CC with high threshold value

**LoadMax** - Load CC with maximum value

**AddPreset** - Add preset value to CC

**FlipOutput** - Load CC with zero or high threshold to flip output

c. **T - O**verrides any other CC action and gives priority to the time period's control operations. To do so, you must define whether or not time period has priority.

---

**NOTE      Duress can only be initiated from a card reader WITH PIN pad, NOT from a PIN pad only terminal.**

---

**d. Operation** – Select the operation to be performed on the control counter from the following list:

**None** - No Operation

**Decrement** - Decrement CC

**DecrementSec** - Start auto-decrement on second

**DecrementMin** - Start auto-decrement on minute

**Clear** - Clear auto increment/decrement

**Increment** - Increment CC

**IncrementSec** - Start auto-increment on second

**IncrementMin** - Start auto-increment on minute

**OverrideTp** - Override time period control

**TpSuspend** - Suspend time period control (one ON cycle restore)

**TpResume** - Resume time period control

---

**Note: The duress code is the Normal PIN code, except that the first and second digits are incremented by one. If the first or second Regular PIN digit is 9, the duress code digit is calculated as a 0.**

---

**Example of Duress PIN code Assignment:**

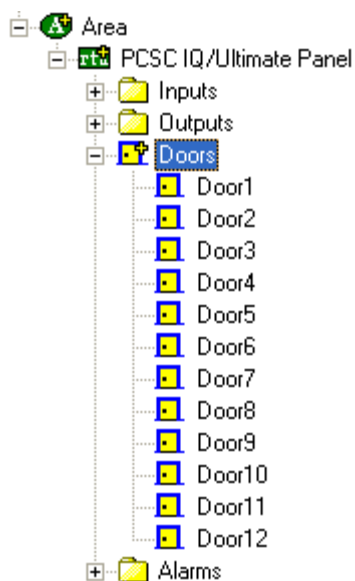
Regular	DURESS
3129	4229
1999	2099

Do NOT assign user-defined PIN codes 0000, 0911 and 9811, as they are reserved by the system.

---

**NOTE      User-defined pin codes are programmed in Card Management Mode.**

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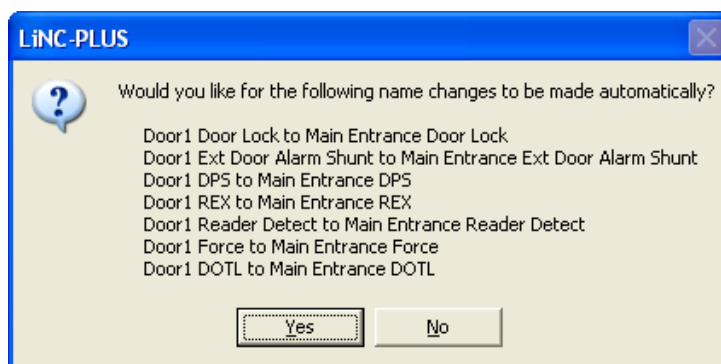


## Doors (Readers)

A Door (Reader) node is configured by expanding the **Doors** folder then **Right-Clicking** on the Door and selecting **Properties...**

### Rename Door (Properties Tab)

When a Door node name is changed a rename dialog function appears. The rename function automatically changes the names of all reader-associated inputs, outputs and alarms if accepted by the user.



### Main Tab

The main tab allows the user to modify reader-related properties such as: Name (panel-stored), Connections parameters, Time Duration parameters, Access Lockout parameters and Access cost parameters.

**PCSC IQ/Ultimate Panel - Doors Door1**

Property Page | Operation | Actions | Commands | Main | Access actions | Notes/Comments

Name:

Connections

Function:  Type:

Door lock:

Time duration (seconds)

Standard access:  Time period for PIN pad disable:

Long access:

Access lockout

Event lockout Output:

☐ Two person minimum occupancy, Output:

Access cost for card group

None:  A:  B:  AB:

Ok Cancel

1. **Name:** - enter the reader name here.  
This name may, or may not, match the name entered on the 1<sup>st</sup> properties tab.
2. **Connections** – this area allows the user to set reader function, reader type and assign door lock output point.

Connections

Function:  Type:

Door lock:

- a. **Function** – select the reader function from the following list:



### Reader Function Options

	<b>AccessIn</b>	Access IN only	<b>BldgIn</b>	
		Building IN only		
only	<b>AccessOut</b>	Access OUT only	<b>BldgOut</b>	Building OUT
	<b>Access</b>	Standard Access	<b>BldgInOut</b>	
		Building IN and OUT		
	<b>ParkIn</b>	Parking IN Only	<b>DeptIn</b>	
		Department IN only		
only	<b>ParkOut</b>	Parking OUT Only	<b>DeptOut</b>	Department OUT
OUT	<b>ParkInOut</b>	Parking IN and OUT	<b>DeptInOut</b>	Department IN and
			<b>Elevator</b>	Elevator Access

**b. Type** – Type refers to the card data format that will be accepted by the reader. Only one format per reader is available. Select the card data format that will be accepted by the reader from the following list:

### Reader Type Options

<b>PIN_PAD</b>	BP250 or BP270
<b>ProTech (Hughes ID)</b>	BR350, BR370, VR670 (40-bit), PCSC Protech, All Hughes ID Proximity readers (except 26-bit cards)
<b>ProTech (I)</b>	PCSC ProTech Insert readers: BR371, BR351, and BR352
<b>ProTech/PIN_PAD</b> readers)	ProTech readers with PIN_Pad (swipe)
<b>ProTech/PIN_PAD (I)</b> PIN_Pad	ProTech Insert readers with
<b>MagStripe</b>	BR450, BR470
<b>MagStripe (I)</b>	BR451, BR452, BR47
<b>Magstripe/PIN_PAD</b>	BR450/BP250, BR470/BR270
<b>Magstripe/PIN_PAD (I)</b>	BR450/BP250, BR450/BP250
<b>Watermark</b> format	Any Watermark card with the 12-digit
<b>Watermark (I)</b>	Custom Watermark card
<b>Watermark/PIN_PAD</b>	Custom Watermark card
<b>Watermark/PIN_PAD (I)</b>	Custom Watermark card
<b>PCSC Wiegand</b> Sensor Proximity	34-bit PCSC Wiegand format. All
<b>Wiegand/PIN_PAD</b> PIN_PAD	readers 34-bit PCSC Wiegand format with BP270
<b>Indala</b>	All Indala readers (32-bit)
<b>Indala/PIN_PAD</b>	All Indala readers w/PIN Pad
<b>12-Digit</b> BR450, BR470	NO Site code; Magnetic stripe,

<b>12-Digit (I)</b>	BR451, BR452, BR470, BR471
<b>12-Digit/PIN_PAD</b>	BR470/BR270, BR450/BP250
<b>12-Digit/PIN_PAD (I)</b>	BR451/BP270, BR471/BP270, BR452/BP250, BR472,/BP270
<b>Sensor-26</b>	Standard Sensor 26-bit format, VR670 26-bit, HID 26-bit, BR700 BARCODE
<b>Sensor-26/PIN_PAD</b>	BR200/BP270, BR202,/BP270, PRK234, PR235/BP270, PR232/BP270, PR234/BP270
<b>Sensor-34</b>	Standard Sensor 34-bit format, BR200, BR202
<b>Sensor-34/PIN_PAD</b>	BR-200/BP270, BR202/BP270
<b>Special</b>	Proprietary
<b>Special/PIN_PAD</b>	Proprietary
<b>PCSC-26, 37, 40</b>	37-bit format (PCSC), Sensor 26, PCSC 40-bit Protech (HID Prox Reader)
<b>PCSC-26, 37, 40/PIN_PAD</b>	PCSC 37-bit Prox/BP270, Protech 40-bit/BR270 (HID Prox Reader)
<b>Corp-1000</b>	Fortune 500 format, PR732, PR733, PR735, PR736
<b>Corp-1000/PIN_PAD</b>	Fortune 500 format w/PIN Pad, HID Prox Reader/BP270
<b>Motorola-32</b>	Corporate Secure format, Motorola Prox Readers
<b>Motorola-32/PIN_PAD</b>	Corporate Secure format w/PIN Pad, Motorola Prox Readers w/Bulletin PIN_PAD

---

**NOTE      A letter or additional reference description that describes the reader type can follow the card technology: PIN-PAD indicates a PIN Pad with reader. (I) indicates Insert Reader. Not all reader/card interfaces are current. Check card data sheet for compatibility options**

---

**c. Door Lock – Drag-and-drop** field identifies the assigned door lock output (CC) point.

**3. Time Duration** – This area allows the user to set time durations for standard access and long access. Time duration is the length of time that the door lock is to be energized. The actual length of time is 1/2 second less than

the number of seconds specified. For example, access time value of 1 denotes 1/2 second of access and time value of 5 denotes 4 1/2 seconds. Value of 1 is generally used for turnstiles.

- a. **Standard Access** is the normal door lock energize time. Select an access time from 1-253 seconds (2-253 seconds for elevator readers).
- b. **Long Access** is the door lock energize time for cardholders that require a longer access time (i.e. an individual with a disability). Select an access time from 2-254 seconds (3-254 seconds for elevator readers).

**4. Time Period for PIN Pad Disable** - The PIN Pad may be automatically disabled during these periods by defining the Time Period to disable the use of the PIN Pad. The user will only be required to use the card reader during this time period. To select the **Time Period for PIN Pad disable, Drag-and-Drop** the desired **Time Zone** (from the **Access Control** node) into the drop field.

**5. Access Lockout** – This area allows the user to set lockout parameters for **Event Lockout** and **Two-Person-Minimum-Occupancy Rule (TPMOR)**.

- a. **Event Lockout - Event Lockout** is a feature that automatically denies access upon an event condition. If **Event**

**Lockout** is in effect, a cardholder that normally would be able to gain access is denied. A reader can be set into Event Lockout automatically through a card access, sense input, or by time of day. These conditions adjust the **Event Lockout** counter value and when the value is equal to or greater than the **High Threshold**, the reader is in **Event Lockout**. Drag-and-drop an output into this drop field. This output, however it is set to its high threshold, will initiate the **Event Lockout** condition.

---

**NOTE: Event Lockout only affects readers. Egress operations are not defeated during an event lockout condition**

---

**b. Two person minimum**

**occupancy, Output:** - The panel can restrict access to a secured area by monitoring the number of people within that area. If no one is in the monitored area, the two-person minimum occupancy rule (**TPMOR**) feature requires two valid cardholders in order to gain access to that area.

Once the area has the required two people, other valid cardholders will gain access without the need to enter or exit in pairs.

The last two people are also required to exit together. This feature requires an **IN** and an **OUT** reader. When no one is in the area, and the first card is presented, the card reader LED will flash red/green for up to 6 seconds. During this time, the second card must be presented for **TPMOR** processing to be lifted.

The user must check the **TPMOR** box and assign a **TPMOR** output to the drop field by **Drag-and Drop**. This option is used to count the number of people or cars within a room, area, or parking lot. If **TPMOR** is selected, the control counter number must be entered. When using the **Room Occupancy** counter, be sure to have at least one reader counting entries and another counting exits. This control counter should **NOT** be used for any other functions.

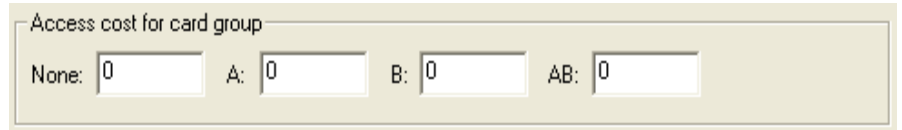
---

**Note: Outputs used by the TPMOR system must be configured with Low = 0 and High = 2.**

---

- 6. Access Cost for Card Group** – This feature debits units from a cardholder's record. Debit can be determined by a reader and by a card group. Enter the number of units (0-999) to debit for each card group at this reader. Depending upon the number of credits issued to a card group; the Access cost for a card group will be subtracted from that balance. The system will subtract the value that was assigned for the card group as access cost for every valid transaction at a specified reader or readers (only designated readers) debits the card (account) status. The **Card Status** dialog in **Card Management Mode** is used to

allocate credits to a card account on a panel-by-panel basis.



The screenshot shows a software interface with a title bar that reads "Access cost for card group". Below the title bar, there are four input fields labeled "None:", "A:", "B:", and "AB:". Each field contains the number "0". The interface has a light beige background and a thin border.

---

**Note: Card Status Polling must be enabled on the RTU node.**

---

### **Access Actions Tab**

Intelli-Site provides output control via a card access or denial. Up to four outputs (control counters) may be operated by a card transaction: three for Access Granted and one for Access Denied.

Card Group assignments (this is done in Card Management Mode) determines the action performed when the card transaction takes place.

For each possible card group, control may be determined by whether the card transaction occurs during an active or inactive time period schedule.

The output operation is determined by the card being authorized (access granted) or unauthorized (access denied) when presented to the reader. In the case of Access Granted actions the card group (A, B, All, or Escorted) will determine the output that is affected. In the case of Access Denied actions all Card Groups are affected.

PCSC IQ/Ultimate Panel - Doors Door1

Property Page | Operation | **Actions** | Commands | Main | Access actions | Notes/Comments

Action: **Access Denied**

Output: "None"

Use Class: ☐ A

Time period control:

Time period	When time period:	Preload	T	Operation
"Never"	Active	NoLoad	<input type="checkbox"/>	None
	Not active	NoLoad	<input type="checkbox"/>	None

Ok Cancel

**7. Action:** - allows the user to select the **Access Action** from a combo box:

- a. **Access Granted 1<sup>st</sup> Action**
- b. **Access Granted 2<sup>nd</sup> Action**
- c. **Access Granted 3<sup>rd</sup> Action**
- d. **Access Denied**

**8. Card Group** – allows the user to select which **Card Groups** are to be affected by the **Access Action** selected from the **Access Action** combo box:

- a. **All**
- b. **A**
- c. **B**
- d. **Escorted (Visitor cards)**



---

**Note: Access Denied Access Actions apply to all Card Groups.**

---

- 9. Output: - Drag-and-drop** an output (control counter) into this drop field. A different output can be assigned to each **Access Action**.
- 10. Use Class:** - if selected this will set all outputs of a certain class for this **Access Action**.
- 11. Output Class:** - allows the user to select the output class (in conjunction with the **Use Class:** checkbox) to set for this **Access Action**. The user may select A, B, C, D or H-class control counters.
- 12. Time Period Control** – The user must assign a valid time zone for **Access Actions** to take effect.

Time period	When time period:	Preload	T	Operation
*Never*	Active	NoLoad	<input type="checkbox"/>	None
	Not active	NoLoad	<input type="checkbox"/>	None

- a. Time Period – Drag-and-drop a Time Zone** into the drop field.
- b. When time period:** - select the control counter activities associated with **Active** and **Not Active** time period (**Time Zone**).
- c. Preload** – Select the Preload action from the following options:

**NoLoad** - No preload action (CC value is unchanged)

**LoadZero** - Load CC with zero

**LoadLow** - Load CC with low threshold value

**LoadHigh** - Load CC with high threshold value

**LoadMax** - Load CC with maximum value

**AddPreset** - Add preset value to CC

**FlipOutput** - Load CC with zero or high threshold to flip output

**d. T - Overrides** any other CC action and gives priority to the time period's control operations. To do so, you must define whether or not time period has priority.

**e. Operation** – Select the operation to be performed on the control counter from the following list:

**None** - No Operation

**Decrement** - Decrement CC

**DecrementSec** - Start auto-decrement on second

**DecrementMin** - Start auto-decrement on minute

**Clear** - Clear auto increment/decrement

**Increment** - Increment CC

**IncrementSec** - Start auto-increment on second

**IncrementMin** - Start auto-increment on minute

**OverrideTp** - Override time period control

**TpSuspend** - Suspend time period control (one ON cycle) restore)

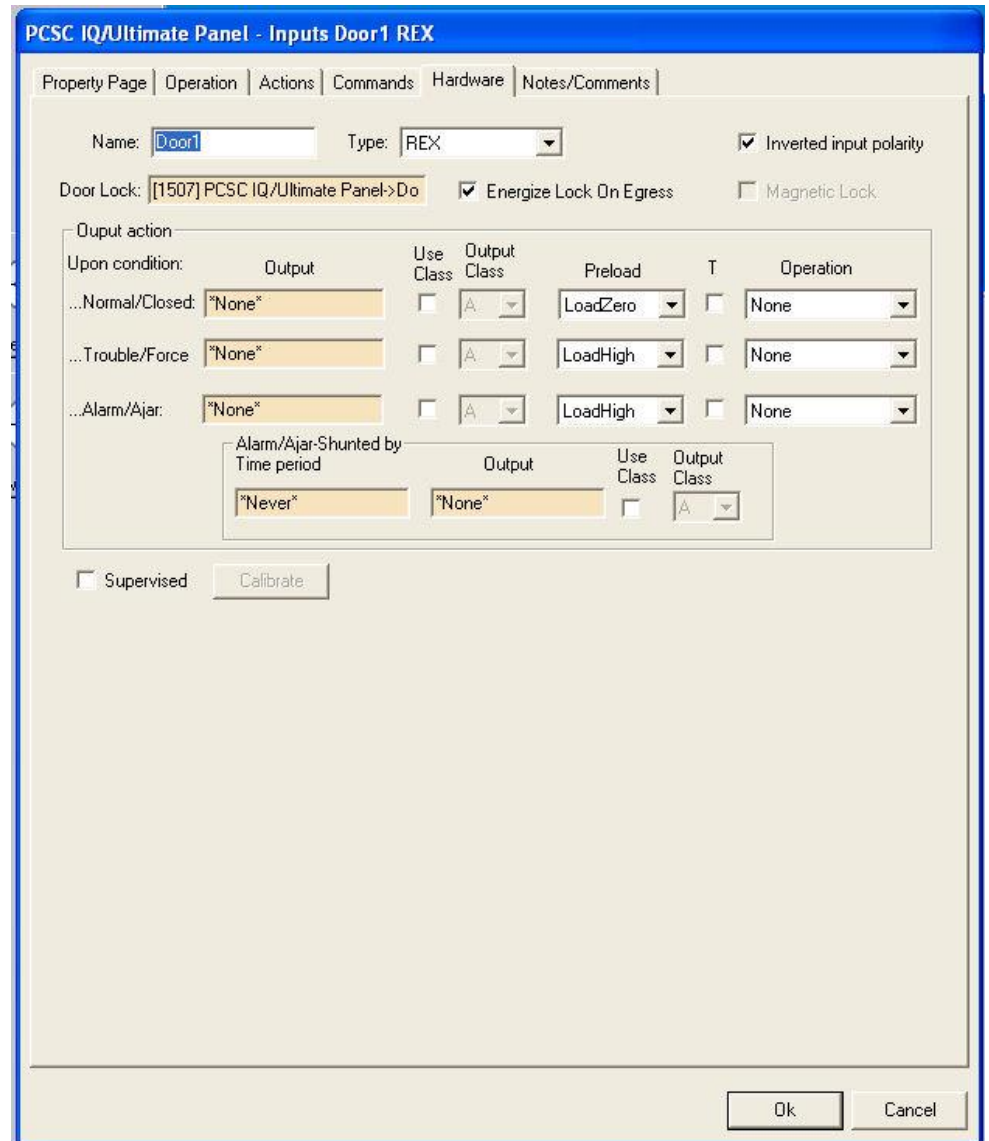
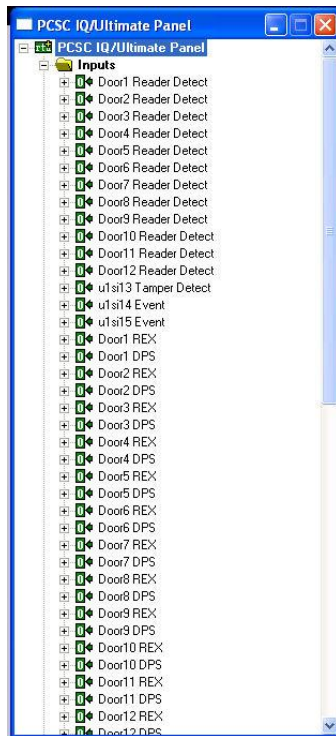
**TpResume** - Resume time period control

## Inputs

An Input node is configured by expanding the **Inputs** folder then **Right-Clicking** on the Input and selecting **Properties...**

### Hardware Tab

The hardware tab allows the user to modify reader-related properties such as: Name (panel-stored), Polarity parameters, Door lock associations (if applicable), Output action parameters and Supervision parameters (if applicable).



1. **Name:** - enter the input name here.  
This name may, or may not, match the name entered on the 1<sup>st</sup> properties tab.
2. **Type** – this area allows the user to select input type from a combo box.  
Types available and their purposes are:

<b>Sense Inputs 1-12</b>	reader detect points for Doors (Readers) 1 – 12
<b>Sense Input 13</b>	Tamper Detect for the panel other purposes
<b>Sense Inputs 14 and 15</b>	(In the IQ series panel, Sense Input 14 is used as an alarm point). (default) Request-to-exit (REX) and door position switch (DPS) for Doors (Readers) 1-12
<b>Sense Inputs 16-39</b>	position switch (DPS) for Doors (Readers) 1-12
<b>Sense Inputs 40-71</b>	other purposes
<b>-Not in Use</b>	Not being used
<b>-DPS</b>	Door position switch (associated with a Door [Reader])
<b>-REX</b>	Request-to-exit switch (associated with a Door [Reader])
<b>-Alarm</b>	Used to generate alarms
<b>-Events</b>	Egress Sense
<b>-Input Switch</b>	Used when counting or using the input to trigger outputs without generating an alarm or real time transaction.
<b>-Elevator Control</b>	The card will be able to access floors defined by the floor groups during the corresponding Time Periods.

Enter the time period (0-999) which will enable the cardholder to access the corresponding floor group.

**NOTE: In the elevator series panels, sense inputs 72-119 are setup as Button Sense Inputs.**

3. **Inverted input polarity** – allows the user to switch from normally open (N.O.) to normally closed (N.C.) sense
4. **Door Lock** – When the **Type** is set to **DPS** or **REX**, the user may **Drag-and-Drop** a door lock output into this drop field.

---

**Note: Door Lock outputs are assigned to these points by default if the Type is set to DPS or REX. If the user deletes the Door Lock point in this field, the Type automatically reverts to Not In Use. Deleting the Door Lock point also removes the input's association to any Door (Reader).**

---

5. **Energize Lock On Egress** – This checkbox is only available if the **Type** is set to **REX**. If checked, the **REX** will energize the Door Lock (for the long access duration as configured in the Door properties) when active.
6. **Magnetic Lock** – This checkbox is only available if the **Type** is set to **DPS**. If checked, the lock point will remain de-energized for a short time-delay when the door is sensed open following a card read. This prevents the door from immediately relocking when magnetic locks are used.
7. **Output Action** – allows the user to define control counter actions to be initiated upon up to three sense input conditions. The user may either **Drag-and-Drop** an output (control

counter) into the drop field(s), or (by checking **Use Class**), activate all outputs of a particular class for each of three sense input conditions:

Output action						
Upon condition:	Output	Use Class	Output Class	Preload	T	Operation
...Normal/Closed:	*None*	<input type="checkbox"/>	A	LoadZero	<input type="checkbox"/>	None
...Trouble/Force	*None*	<input type="checkbox"/>	A	LoadHigh	<input type="checkbox"/>	None
...Alarm/Ajar:	*None*	<input type="checkbox"/>	A	LoadHigh	<input type="checkbox"/>	None

Alarm/Ajar-Shunted by			
Time period	Output	Use Class	Output Class
*Never*	*None*	<input type="checkbox"/>	A

### ...Normal/Closed

If defined as a dry contact alarm point, supervisory alarm point, or event. Control counter action will be performed upon going into normal status after an alarm condition. If defined as a door sense, control counter action will be executed upon detecting a door closure after a door alarm.

### ...Alarm/Ajar

If defined as an alarm point, event, or egress, the control counter action will be performed upon an alarm. If defined as a door sense, control counter action will be performed when the door is left open longer than shunt time. This action may be itself be shunted by either an active time period (Time Zone) or by another active output (control counter).

### ...Trouble/Forced

If defined as a supervisory alarm, the control counter action will be performed upon detecting a short or open circuit trouble. If defined as a door sense, the control counter action will be performed upon an illegal entry through a doorway without first using an exit

button or a card reader (Door forced open).

- a. Preload** – Select the Preload action from the following options:

**NoLoad** - No preload action (CC value is unchanged)

**LoadZero** - Load CC with zero

**LoadLow** - Load CC with low threshold value

**LoadHigh** - Load CC with high threshold value

**LoadMax** - Load CC with maximum value

**AddPreset** - Add preset value to CC

**FlipOutput** - Load CC with zero or high threshold to flip output

- b. T** - Overrides any other CC action and gives priority to the time period's control operations. To do so, you must define whether or not time period has priority.

- c. Operation** – Select the operation to be performed on the control counter from the following list:

**None** - No Operation

**Decrement** - Decrement CC

**DecrementSec** - Start auto-decrement on second

**DecrementMin** - Start auto-decrement on minute

**Clear** - Clear auto increment/decrement

**Increment** - Increment CC

**IncrementSec** - Start auto-increment on second

**IncrementMin** - Start auto-increment on minute

**OverrideTp** - Override time period control

**TpSuspend** - Suspend time period control (one ON cycle) restore)

**TpResume** - Resume time period control

- d. Alarm/Ajar Shunted by:** - allows the user to assign either a time period (**Time Zone**) or another output (control counter) or output class to shunt the output action.

Alarm/Ajar-Shunted by Time period	Output	Use Class	Output Class
*Never*	*None*	<input type="checkbox"/>	A ▾

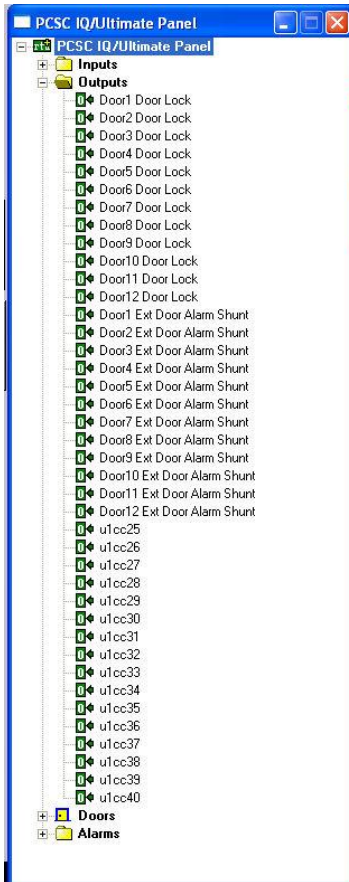
8. **Supervised** – allows the user to select whether the Input is supervised or not.
9. **Calibrate** – if an Input is supervised this button allows the user to perform calibration. Panel settings must first be downloaded in order to perform calibration.

☒ Supervised

Intelli-Site

Make sure the input is in the normal state, and press OK to continue.



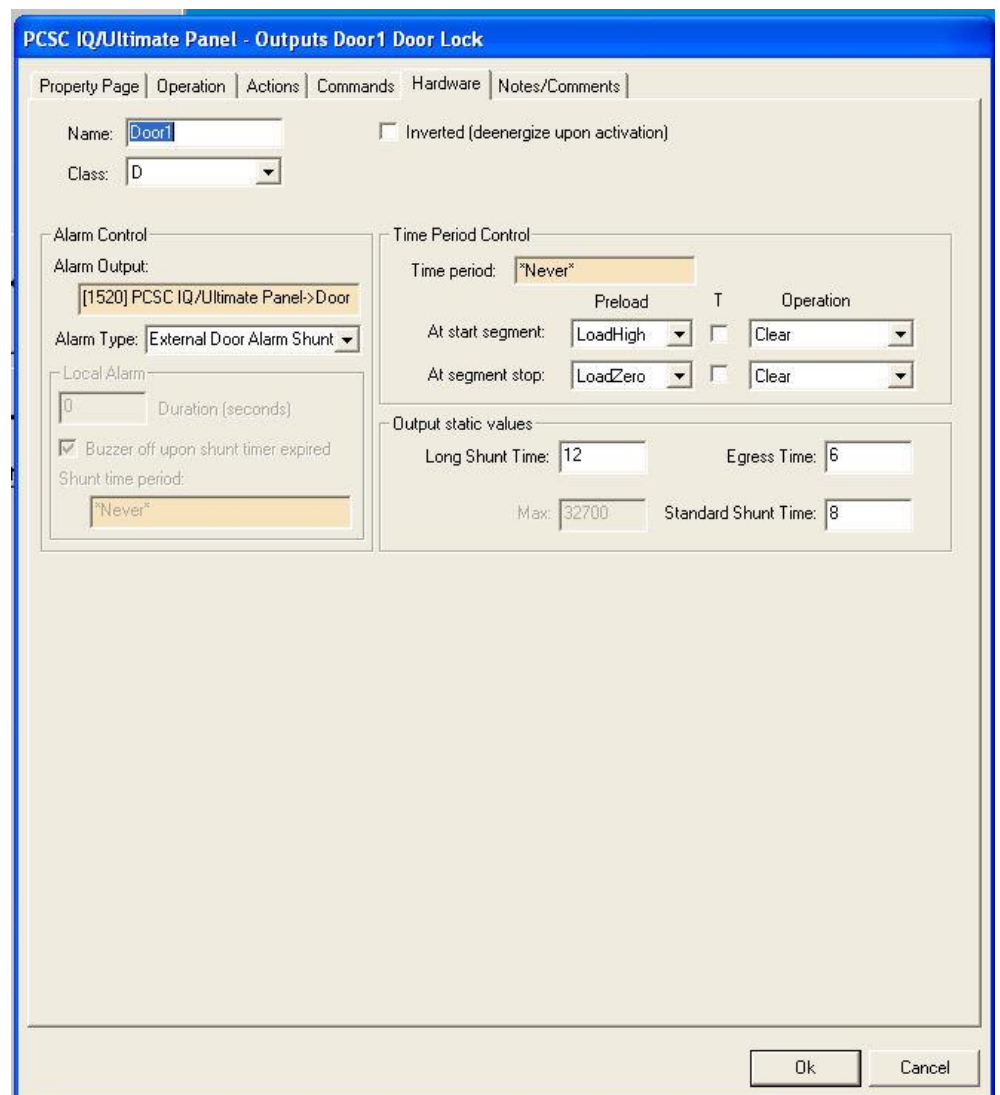


## Outputs

An Output node is configured by expanding the **Outputs** folder then **Right-Clicking** on the Output and selecting **Properties...**

### Hardware Tab

The hardware tab allows the user to modify reader-related properties such as: Name (panel-stored), Polarity parameters, Class, Alarm Control action parameters, Time Period Control parameters and Output static values.



1. **Name:** - enter the input name here. This name may, or may not, match the name entered on the 1<sup>st</sup> properties tab.
2. **Inverted (de-energize upon activation)** – select this checkbox if you want the output (control counter) to set off upon activation.
3. **Class** – allows the user to select the output (control counter) class from a list.

Control counters can be classified A through E. Class D and E are defined for door lock and external shunt, respectively. Counters are programmed as Class D and E from within the Door Overview hardware screen, Door Lock and Alarm Control output fields respectively. CLASSES A through C is user-assigned. They permit a single occurrence (sense-input violation or time period control) to actuate more than one counter at a time. Assign from the following options:

<b>For Non-Door Outputs</b>	<b>For Door Outputs</b>
-----------------------------	-------------------------

None	D
A	AD
B	BD
AB	ABD
C	CD
AC	ACD
BC	BCD
ABC	ABCD

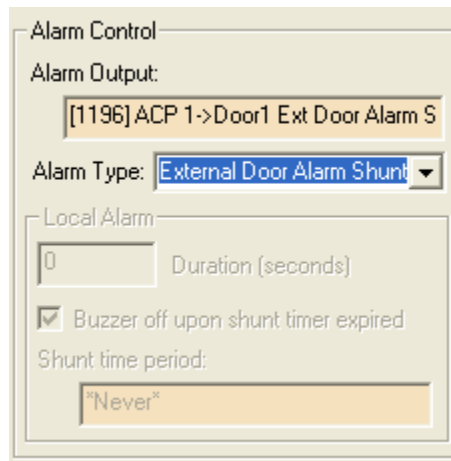
---

**Note: Outputs 1 through 12 are assigned, by default, as Door Locks 1 through 12. Outputs 13 through 24 are assigned, by default, as External Door Alarm Shunts 1 through 12. These may be re-assigned by the user; however, Outputs 1 through 12 may only be classed as shown (above) for Door Outputs.**

---

4. **Alarm Control** – allows the user to assign an Output as an External Door Alarm Shunt or a Local Alarm. Local Alarm time duration and other parameters are set here as well.

- a. **External Door Alarm Shunt** – point will go active whenever the Door Lock point is energized and will stay active for the duration of the access time as configured for the Door (reader).



The screenshot shows a configuration window titled "Alarm Control". It contains the following fields and options:

- Alarm Output:** A text box containing "[1196] ACP 1->Door1 Ext Door Alarm S".
- Alarm Type:** A dropdown menu currently set to "External Door Alarm Shunt".
- Local Alarm:** A section with a collapsed arrow icon on the left.
  - Duration (seconds):** A text box containing "0".
  - Buzzer off upon shunt timer expired:** A checked checkbox.
  - Shunt time period:** A text box containing "\*Never\*".

- b. **Local Alarm** – point will go high during door ajar (at the expiration of shunt time). Local alarm timer determines the duration of the alarm. Shunt time period is a time period (Time Zone) during which the local alarm will be shunted.

Alarm Control

Alarm Output:  
[1196] ACP 1->Door1 Ext Door Alarm S

Alarm Type: Local Alarm

Local Alarm

5 Duration (seconds)

☒ Buzzer off upon shunt timer expired

Shunt time period:  
\*Never\*

5. **Time Period Control** – allows the user to set up parameters that govern output point activation as it may relate to a given time period (Time Zone).

Time Period Control

Time period: \*Never\*

	Preload	T	Operation
At start segment:	LoadHigh	<input type="checkbox"/>	Clear
At segment stop:	LoadZero	<input type="checkbox"/>	Clear

- a. **Time Period – Drag-and-drop** a time period (Time Zone) into the drop field to determine when the Output will be energized.
- b. **At start/stop segment:** - these fields are used to determine the behavior of the Output.
  - i. **Preload** – Select the Preload action from the following options:

**NoLoad** - No preload action (CC value is unchanged)

**LoadZero** - Load CC with zero

**LoadLow** - Load CC with low threshold value

**LoadHigh** - Load CC with high threshold value

**LoadMax** - Load CC with maximum value

**AddPreset** - Add preset value to CC

**FlipOutput** - Load CC with zero or high threshold to flip output

- ii. **T - Overrides** any other CC action and gives priority to the time period's control operations. To do so, you must define whether or not time period has priority.
- iii. **Operation** – Select the operation to be performed on the control counter from the following list:

**None** - No Operation

**Decrement** - Decrement CC

**DecrementSec** - Start auto-decrement on second

**DecrementMin** - Start auto-decrement on minute

**Clear** - Clear auto increment/decrement

**Increment** - Increment CC

**IncrementSec** - Start auto-increment on second

**IncrementMin** - Start auto-increment on minute

**OverrideTp** - Override time period control

**TpSuspend** - Suspend time period control (one ON cycle) restore)

**TpResume** - Resume time period control

- 6. **Output Static Values** – The configuration parameters available to the user in this are vary depending on whether the Output is a Door Lock or not:

#### a. Door Lock Output Static Values

Output static values

Long Shunt Time:	12	Egress Time:	6
Max:	32700	Standard Shunt Time:	8

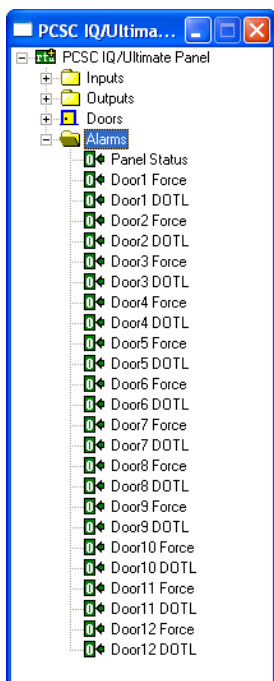
- i. **Long Shunt Time:** - The length of time to disable the door status when a cardholder with the Long Access feature presents a card is the long shunt time. The default time is 12 seconds. Enter a different amount of time if necessary.
- ii. **Egress Time:** - (Request to Exit) time has a range of 1-253 seconds. Enter the time length desired

- iii. **Max:** - For display only – user cannot change.
- iv. **Standard Shunt Time:** - The length of time to disable the door status alarm during normal egress is the standard shunt time. The default time is 8 seconds. Enter a different amount of time if necessary. Shunt time is always at least 1 second longer than the corresponding access time.

b. **Non-Door Output Static Values**

Output static values	
Low: <input type="text" value="12"/>	High: <input type="text" value="18"/>
Max: <input type="text" value="32700"/>	Preset: <input type="text" value="8"/>

- i. **Low:** - sets the low threshold of the control counter (default is 12).
- ii. **High:** - sets the high threshold of the control counter (default is 18).
- iii. **Max:** - sets the maximum value of the control counter (default is 32700).
- iv. **Preset:** - sets the preset value of the control counter (default is 8).



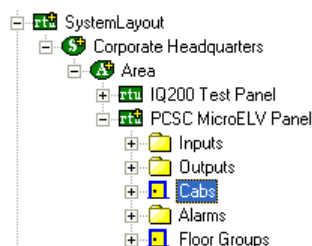
## Alarms

An Alarm node is configured by expanding the **Alarms** folder then **Right-Clicking** on the Output and selecting **Properties...** Alarms do not have PCSC-specific properties pages. For property page configuration, refer to the Intelli-Site Reference Guide Section 2.

### Alarm Types

There are three alarm types:

1. **Panel Status** – The Panel Status point is high when the panel is online with the Intelli-Site host.
2. **Force** – Door Force alarms occur when a door has been opened without an authorizing card action or request-to-exit (REX).
3. **DOTL** – Door Open Too Long (DOTL) alarms occur when a door has been left open after an authorizing card action or request-to-exit (REX), in excess of the door's configured access time duration.



## ELV Panel Configuration

The following section describes configuration of the various elements of the Elevator PCSC RTU.

Elevator control is defined as restricting access to specific floors in a building. The typical floor select panel interfaces to the elevator panel through a common ground system. Each push-button has a wire connected to the panel that carries the signal alerting the panel which floor was selected. The purpose of the ELV is to interrupt the signal from the push-button and the panel. When an authorized cardholder uses the system, the ELV allows the signal from the push-button to be received by the panel. The ELV restricts access by limiting a cardholder's choice of floors in the elevator cab. The ELV is placed between the floor selection panel (push-button) in the elevator cab and the elevator panel. The ELV allows the elevator panel to receive only those floor selections from the floor selection panel which the cardholder is authorized to access.

Typical operation of an ELV system is as follows:

1. The cardholder swipes/presents a card to the system via a card reader (and/or PIN Pad).
2. The system determines which floors that the cardholder can access.
3. If the cardholder is authorized, the ELV allows the signals from the push-button to be processed.
4. The cardholder then selects the floor.
5. The elevator panel receives the message, controlling the cab to the desired (and authorized) floor.

---

**NOTE** The cardholder is responsible for selecting only one floor. In addition, the panel can only monitor which floors a cardholder may select. It is not able to determine what floor was



**selected. Single floor latching with destination reporting is under development. This will prohibit multiple floors from being selected by a single card presentation.**

---

An ELV system will activate all associated relays on command from the Intelli-Site host computer. A predefined access time may be specified with a command. Relays are automatically deactivated after the access time has elapsed.

The ELV operates in a fail-safe mode. The "secure" state of the relay is energized. If the ELV malfunctions or loses power, the relays de-energize and control is reverted to the push-button panel.

The PCSC-ELV RTU consists of a parent (the basic panel node) and five children as follows:

- **Inputs** – a collection of all sense inputs.
- **Outputs** – a collection of all control counters.
- **Cabs** – a collection of all Cabs (in-car-readers).
- **Alarms** – the collection of all alarms.
- **Floor Groups** – the collection of all floor group relays.

## **RTU Node (Parent Node)**

The parent (PCSC MicroELV Panel) node is configured by **Right-Clicking** on the RTU and selecting **Properties...**

### **RTU Tab**

Configuration of this tab is identical to that of the non-elevator panel.

### **System Parameters Tab**

Configuration of this tab is identical to that of the non-elevator panel. The ELV expansion board selections will be available for configuration.

**Area - PCSC MicroELV Panel**

RTU | System Parameters | **Features** | Notes/Comments

Expansion boards

Model: **MicroELV4**

☐ 1st cluster    ☒ ELV  
☐ 2nd cluster    ☒ Out #1  
☐ 1st SAM    ☐ Out #2  
☐ 2nd SAM    ☐ Out #3  
☒ Out #1/ALM    ☐ Out #4

Facility Codes

255    New Code: 255

Add    Delete

Note: Multiple facility codes require firmware version 7.010 and newer.

Printer Baud

Baud: 4800

Comm port configuration

Connection type

☒ Direct    ☐ Modem    Baud: 9600    ☒ Multipoint

Host Phone Number #1:

Host Phone Number #2:

History Transfer

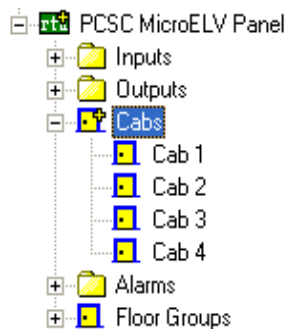
Time Period: [1590] "Always"

Backlog Threshold: 1396

Ok    Cancel

### Features Tab

Configuration of this tab is similar to that of the non-elevator panel. The only exception is that **Elevator Destination Reporting** may be selected.

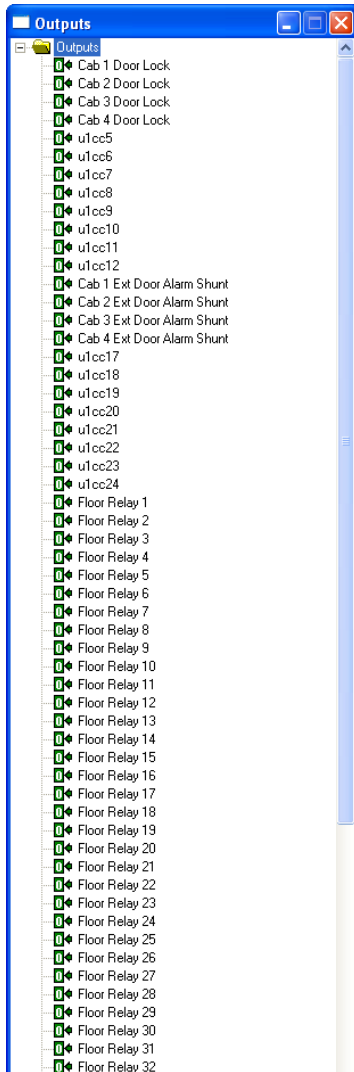


## Cabs (Readers)

A Cab (Reader) node is configured by expanding the **Cabs** folder then **Right-Clicking** on the Cab and selecting **Properties...**

Cab configuration is identical to the configuration of a non-elevator-type **Door** node. The ELV-type panel supports a maximum of four (4) elevator cabs.

The reader type: **Elevator** must be selected on the Main Tab. This is the default selection when an ELV-type panel is added to the tree.



## Outputs

An Output node is configured by expanding the **Outputs** folder then **Right-Clicking** on the Input and selecting **Properties...**

Output configuration is identical to non-elevator Outputs configuration with the exception of the **Floor Relays**.

### Hardware Tab

The **Floor Relay** hardware tab differs from other outputs as shown below.

**NOTE** When using Elevator Control, the Low counter value is always set to 0 and the High counter is always set to 2. These values cannot be modified in an elevator panel

PCSC MicroELV Panel - Outputs Floor Relay 1

Property Page | Operation | Actions | Commands | Hardware

Name:  ☒ Inverted (deenergize upon activation)

Class:

Alarm Control

Alarm Output:

Alarm Type:

Local Alarm

Duration (seconds)

☒ Buzzer off upon shunt timer expired

Shunt time period:

Time Period Control

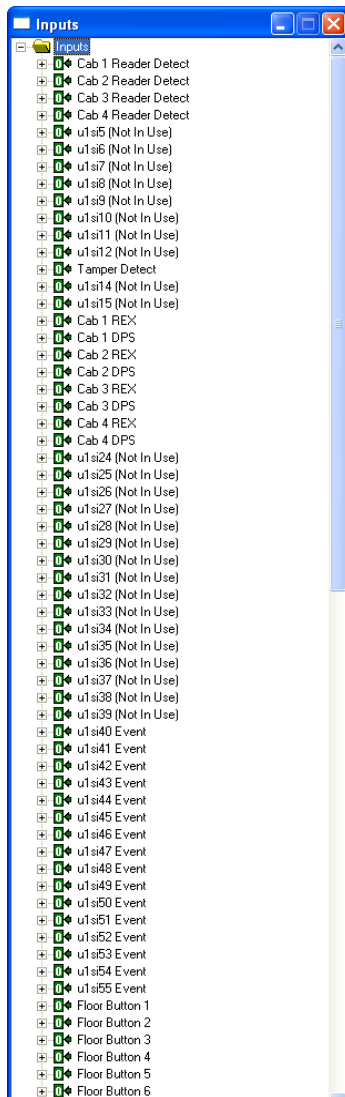
Time period:

	Preload	T	Operation
At start segment:	<input type="text" value="LoadHigh"/>	<input type="checkbox"/>	<input type="text" value="Clear"/>
At segment stop:	<input type="text" value="LoadZero"/>	<input type="checkbox"/>	<input type="text" value="Clear"/>

Output static values

Low:	<input type="text" value="0"/>	High:	<input type="text" value="2"/>
Max:	<input type="text" value="32700"/>	Preset:	<input type="text" value="8"/>

Ok Cancel



## Inputs

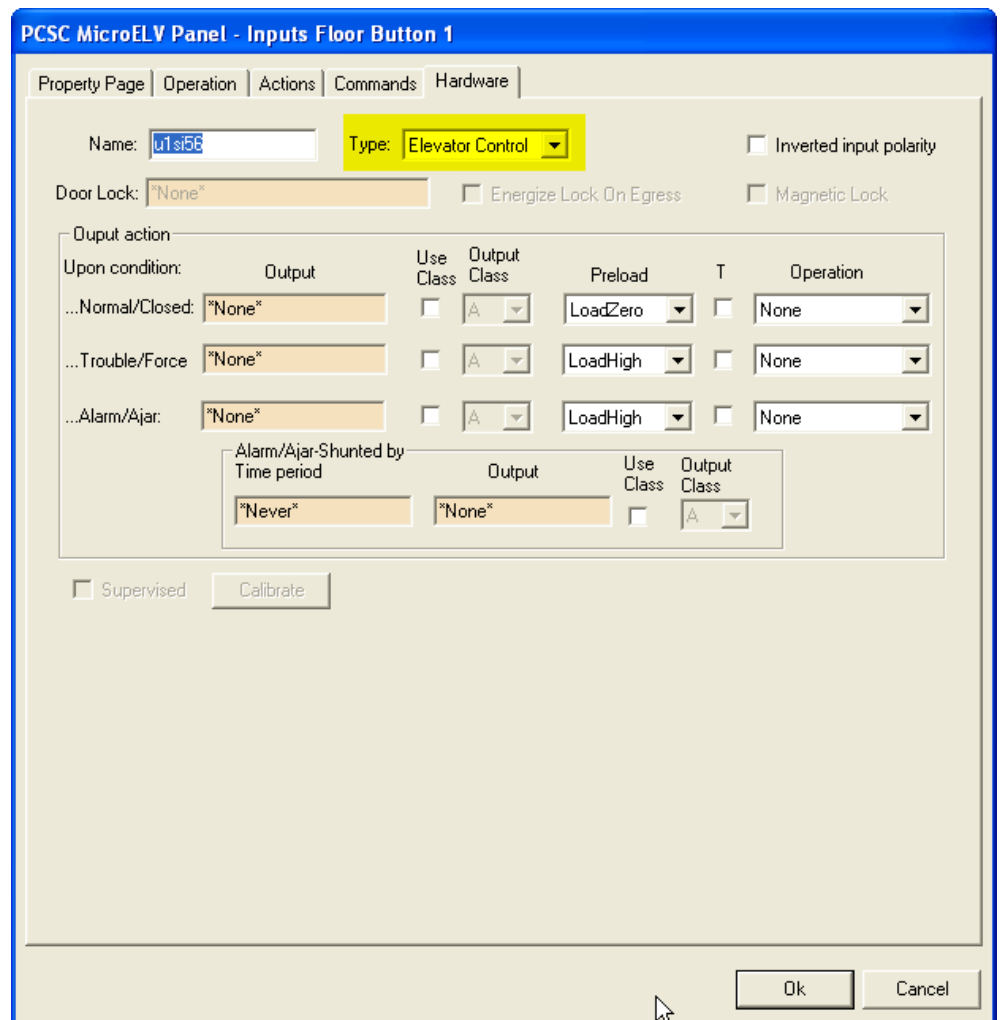
An Input node is configured by expanding the **Inputs** folder then **Right-Clicking** on the Input and selecting **Properties...**

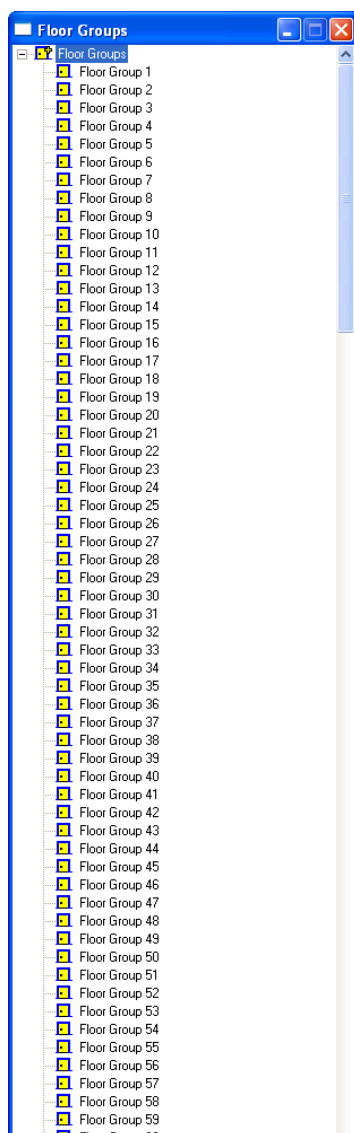
Input configuration is identical to non-elevator Inputs configuration with the exception of the **Floor Buttons** (beginning with sense input 56).

## Hardware Tab

The **Floor Button** hardware tab differs from other inputs in that the type must be set to **Elevator Control**.

**Note: Floor Buttons 19 and above are not configurable.**



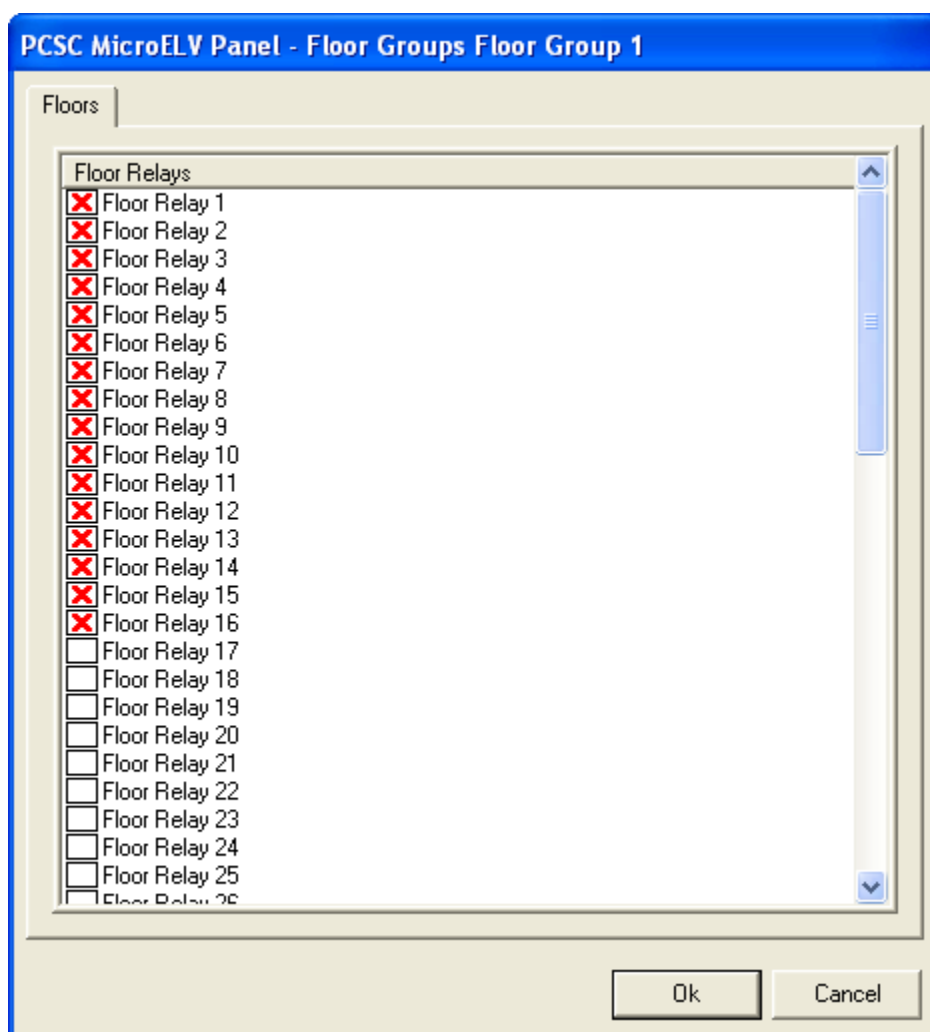


## Floor Groups

A Floor Group node is configured by expanding the **Floor Groups** folder then **Right-Clicking** on the Floor Group and selecting **Properties...**

### Floors Tab

Select the Floor Relays assigned to the **Floor Group**. This controls the destination of an elevator cab based on a card's authorization attributes. When a card is swiped at a reader inside a cab, the time period/floor group pairs assigned to the card are evaluated to determine which relays the card can activate at the current time. Of those relays, the ones that are assigned to the reader engage the floor buttons from which the cardholder can make a selection.





## Section 3 – Action PopUp Grid

This section describes the following **Design Mode** RTU specific software support functions in Intelli-Site.

The Action Popup Grid is a list of available actions that can be performed by Intelli-Site. Actions are triggered either through screen object control when operating in Run Mode or when the state of I/O Points change. The actions performed on any given event are completely customizable, though the focus of this discussion is the Actions themselves.

Many actions require a target, though some do not. Each action as defined below will identify expected targets.

Actions									
IO Control	Door Control	Screen Control	Video	Macro	Group Control	Database	General	Event	PCSC
SetOn	LockDoor	PopUp	PopUpVideo	Macro	GroupSetOn	MoveFirst	Play	SelectEvent	LoadZero
SetOff	UnlockDoor	PopUpDialog	PopOffVideo	RunMacro1	GroupSetOff	MovePrevious	LoadProgram	AckEvent	LoadLow
Pulse	TempUnlockDoor	PopOff	LiveCompare	RunMacro2	GroupSet	MoveNext	MaskComputer	ClearEvent	LoadHigh
TempPulse	PulseDoor	PushScreen	SwitchInputs	RunMacro3	GroupSetAll	MoveLast	ForceMask	CurrentEvent	LoadMax
Toggle	SwitchEntryCamera	PopScreen	LiveVideo	RunMacro4	GroupClearAll	RecordAdd	PressButton	UpEvent	AddPreset
SetOnPush	SwitchExitCamera	Display	NetworkVideo	RunMacro5	ShuntSet	RecordChange	ReleaseButton	DownEvent	FlipOutput
ForceOn	ConnEntryIntercom	CleanScreen	PlayVideo	RunMacro6		RecordBulkModify	IntercomCall	AckAllEvent	DecrementCounter
ForceOff	DiscEntryIntercom	PopUpQueue	PauseVideo	RunMacro7		RecordDelete	IntercomSet	ClrAllEvent	AutoDecrementSec
ForceNormal	ConnExitIntercom	PopOffQueue	StopVideo	RunMacro8		RecordCancel	SendCommand		AutoDecrementMin
IncrementCounter	DiscExitIntercom		StartRecording			RecordSave	VirtualizeRTU		ClearAutoIncDec
DecrementCounter	StartEntryAlarm		StopRecording			SelectGrid	UnvirtualizeRTU		IncrementCounter
ResetCounter	StopEntryAlarm					FilterBy	OnlineDriver		AutoIncrementSec
StartTimer	StartExitAlarm					MatchExact	OfflineDriver		AutoIncrementMin
KillTimer	StopExitAlarm					MatchNotEqual	DownloadSettings		OverrideTPControl
ForceTimer	ShuntDoorForced					MatchPartialStart	DownloadCards		SuspendTPControl
ShuntAlarm	UnshuntDoorForced					MatchPartialEnd	ForceRoutingMask		RestoreTPControl
UnShuntAlarm	ShuntDOTL					MatchPartial	LockWorkstation		BulkModify
RestoreTPControl	UnshuntDOTL					MatchLessThan	UnlockWorkstation		
	ShuntDUTL					MatchLessOrEqual	ZoneReport		
	UnshuntDUTL					MatchGreaterThan	MusterReport		
	SelectCallStation					MatchGreaterOrEqual	StartMustering		
	DeselectCallStation					SortBy	StopMustering		
	DisableCallStation					FilterSet	Page		
	EnableCallStation						RunReport		
	AckCallIn						PrintReport		
	ProcessCallIn						Authenticate		

- **LoadZero** – loads the Control Counter (cc output) to 0. The target of this action must be a Control Counter (output).
- **LoadLow** – loads the Control Counter (cc output) to its low threshold value. The target of this action must be a Control Counter (output).



- **LoadHigh** – loads the Control Counter (cc output) to its high threshold value (default is 18). The target of this action must be a Control Counter (output).
- **LoadMax** – loads the Control Counter (cc output) to its maximum value (default is 32700). The target of this action must be a Control Counter (output).
- **AddPreset** – loads the Control Counter (cc output) with its preset value (default is 8). The target of this action must be a Control Counter (output).
- **FlipOutput** – high or max-loaded Control Counters (cc outputs) will flip to low threshold value. Low-loaded Control Counters will flip to high threshold values. The target of this action must be a Control Counter (output).
- **DecrementCounter** – decrements a Control Counter (cc output) with any value other than 0 by a step value of 1 for each instance of this action. The target of this action must be a Control Counter (output).
- **AutoDecrementSec** – automatically decrements a Control Counter (cc output) with any value other than 0 by a step value of 1 (per second) until the Control Counter value reaches 0 or until cleared by a **ClearAutoIncDec** action. The target of this action must be a Control Counter (output).
- **AutoDecrementMin** – automatically decrements a Control Counter (cc output) with any value other than 0 by a step value of 1 (per minute) until the Control Counter value reaches 0 or until cleared by a **ClearAutoIncDec** action. The target of this action must be a Control Counter (output).
- **ClearAutoIncDec** – stops an **AutoIncrementSec/Min** or **AutoDecrementSec/Min** action. The target of this action must be a Control Counter (output).

- **IncrementCounter** – increments a Control Counter (cc output) with any value other than max (default is 32700) by a step value of 1 for each instance of this action. The target of this action must be a Control Counter (output).
- **AutoIncrementSec** – automatically increments a Control Counter (cc output) by a step value of 1 (per second) until the Control Counter value reaches either: max (default is 32700) or high threshold (default is 18), or until cleared by a **ClearAutoIncDec** action. The target of this action must be a Control Counter (output).
- **AutoIncrementMin** – automatically increments a Control Counter (cc output) by a step value of 1 (per minute) until the Control Counter value reaches either: max (default is 32700) or high threshold (default is 18), or until cleared by a **ClearAutoIncDec** action. The target of this action must be a Control Counter (output).
- **OverrideTPControl** – overrides any actions to be executed based upon a time period control (for one cycle). The target of this action must be a Control Counter (output).
- **SuspendTPControl** – cancels any actions to be executed based upon a time period control until restored by a **RestoreTPControl** action. The target of this action must be a Control Counter (output).
- **BulkModify** – downloads parking account information for cardholders defined in the targeted CardGroup.

**CardGroups - Card Group**

Property Page | Card to Card Group Assignment | Bulk Card Update | Notes/Comments

Drop a panel into the panel column.  
Set the values that you want to be downloaded to the panel for all cardholders in the Card Group.  
Use the BulkModify action with this Card Group as the target to update the listed changes.

	Panel	First Time	First Time Parking	Credit Count
1	[1056] PCSC IQ/Ultimate Panel	Yes	Yes	1000
2		xxx	xxx	-1
3		xxx	xxx	-1
4		xxx	xxx	-1
5		xxx	xxx	-1
6		xxx	xxx	-1
7		xxx	xxx	-1
8		xxx	xxx	-1
9		xxx	xxx	-1
10		xxx	xxx	-1
11		xxx	xxx	-1
12		xxx	xxx	-1
13		xxx	xxx	-1
14		xxx	xxx	-1
15		xxx	xxx	-1
16		xxx	xxx	-1
17		xxx	xxx	-1
18		xxx	xxx	-1

Ok Cancel

**NOTE: The targeted panel needs to be both online and set up for 'Card Status Polling Enabled for BulkModify to function correctly.**