

Documentation

PCSC FT RTU Guide

Version 3.x

OSSI

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Intelli-Site

Security Management Software

PCSC FT RTU Guide

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

Version 3.8
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Section 1 – Introduction

This section describes the following:

- Overview
- Technical Support Assistance

Overview

The PCSC FT RTUs (Receiver/Transmitter Unit) are the Intelli-Site software representation of PCSC Fault Tolerant Controllers (FTC), Dual Door Modules (DDM) and Single Door Modules (SDM). For purposes of this document, the term RTU is synonymous with access control panel.

The PCSC FT RTUs provide 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 FT RTU-specific I/O types and Actions
- PCSC FT RTU-specific Database (Cardholder Management) functionality
- PCSC FT RTU-specific Reports and Documentation
- PCSC FT-Specific Access Control Node functionality
- PCSC FT-Specific Door Control functionality

Technical Support Assistance

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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

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 FT RTU Configuration

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

- Adding a PCSC FT RTU to the Intelli-Site tree
- FTC, DDM and SDM Configuration

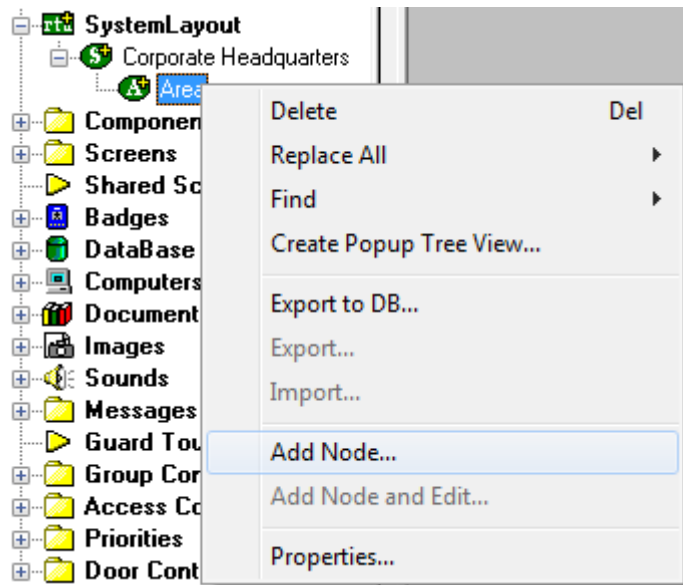
Adding a PCSC FT RTU to the Intelli-Site Tree



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

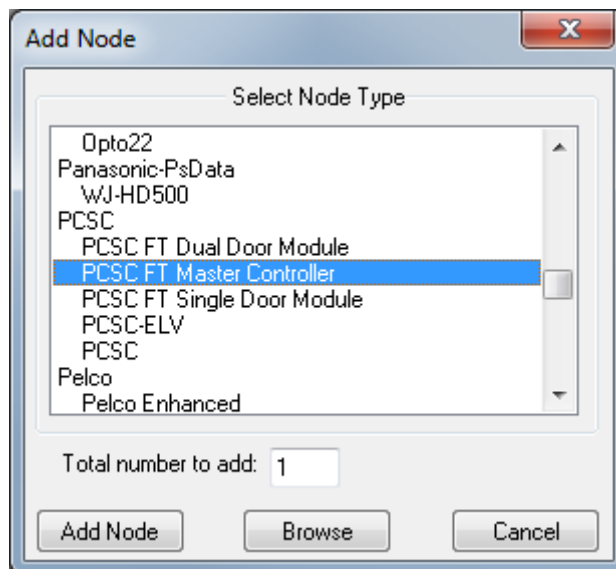
Add an RTU – Procedure

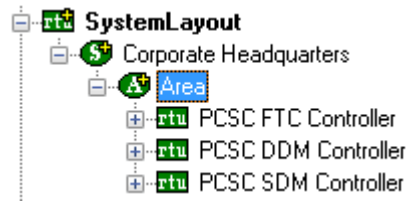
1. Expand the System Layout Node and Right-Click on an Area. Select **Add Node...** from the Shortcut Menu as shown below:



2. Three basic PCSC FT RTU types can be selected from the **Add Node** dialog: **PCSC FT Master Controller** (FTC), **PCSC FT Dual Door Module** (DDM), and **PCSC FT Single Door Module** (SDM) 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: There can be only one FTC node per domain (driver), even though the physical hardware may have up to four. This is because the driver only communicates with one FTC at a time, and this single FTC RTU contains all data necessary to show the status of all of the physical FTCs. The total number of SDMs DDMs that may be added must not exceed 128 for a given domain.

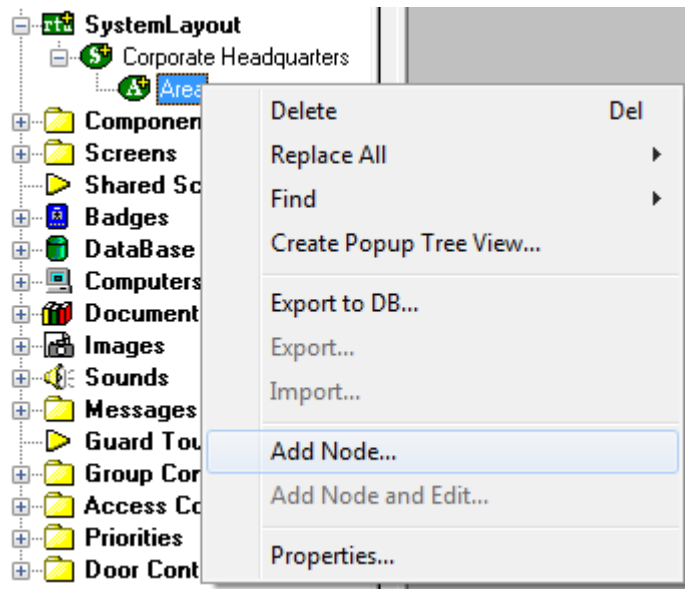




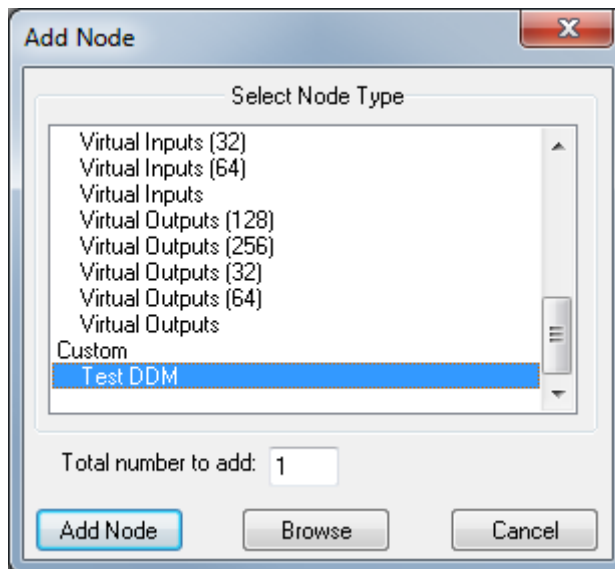
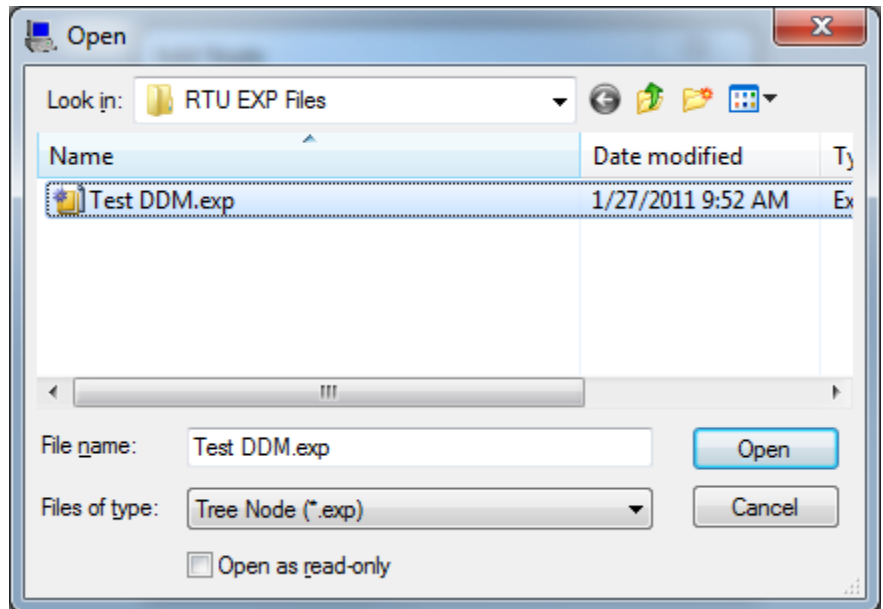
3. The RTU(s) will be added to the tree and the system level Text-To-Speech message **"Node Added"** will sound.

Import an RTU – Procedure

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

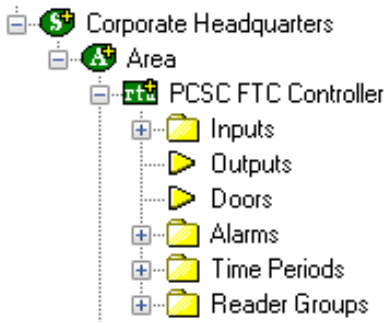


2. Select the **Browse** button on the **Add Node** dialog: A browse window will open. Browse to the appropriate location then select the RTU .exp file you wish to import and select the **Open** button. A new type (**Custom**) will be automatically added to the **Add Node** dialog and the imported .exp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

FTC Configuration



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

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

- **Inputs** – a collection of the physical inputs on the FTC panel.
- **Outputs** – reserved.
- **Doors** – reserved.
- **Alarms** – the collection of all alarms.
- **Time Periods** – the collection of time periods for this panel group
- **Reader Groups** – the collection of reader groups for this panel group

RTU Node (Parent Node)

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

RTU Setting Tab

Area - PCSC FTC Controller

RTU Features Notes/Comments

Name:

Access Level:

RTU Setup

Domain: Net:

Event buffer delta (min.):

☐ Retain

☐ Auto download valid cards:

☐ Virtual Point:

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: 80 Net: 1

Event buffer delta (min.): 0

☐ Retain

☐ Auto download valid cards:

☐ Virtual Point: *None*

- a. **Domain and Net** – the Domain identifies the panel group and the Net identifies the panel number.

Note: The Net of the FTC Panel must match the address of one of the FTC nodes in the group

- 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. 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. 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.

5. 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)**.

Features Tab

Area - PCSC FTC Controller

RTU Features Notes/Comments

Card table format

Expiration Dates ☐ Parking Only Primay / Secondary
☒ Global Primary / PIN

☒ Names for cardholders exist
☐ 24 digit card numbers ☐ Card activation date

Duress event

Control Output Preload T Operation
 None NoLoad ☐ None

Entry/Exit enforcement

Parking:
 Department:
 Building:

Site Codes

255 (Always)

Site Code:
 Reader Group:

Add Delete

Ok Cancel Apply

1. Card Table Format

Card table format

Expiration Dates ☐ Parking Only Primay / Secondary
☒ Global Primary / PIN

☒ Names for cardholders exist
☐ 24 digit card numbers ☐ Card activation date

- a. Expiration Dates:** - If you select Global Primary/PIN, the system automatically selects the Primary expiration date for all types of readers. You must select Global Primary/PIN, if user-select PIN is to be used. If you select Parking Only Primary/Secondary, each cardholder has 2 card expiration dates

b. Names for cardholders exist –

Cardholder names will be downloaded to the panel.

c. 24 digit card numbers – The panel will accept 24-digit card numbers.**d. Card activation date –** The panel will enforce the activation date for cardholders

2. 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 group (domain).

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**.

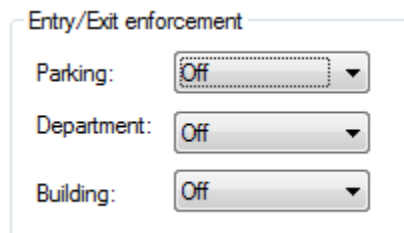
If the cardholder's status does not comply with the reader's entry/exit definition, then the system will deny access. In other words, when a cardholder attempts to enter a building **IN** reader, the cardholder's building and department status must be **OUT**.

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**.

3. 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.

- 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** - 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.

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:

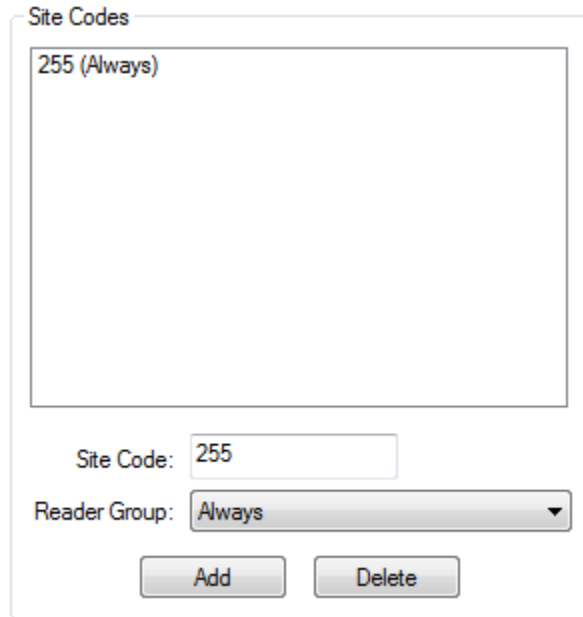
Regular	DURESS
3129	4229
1999	2099

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.

4. Site Codes

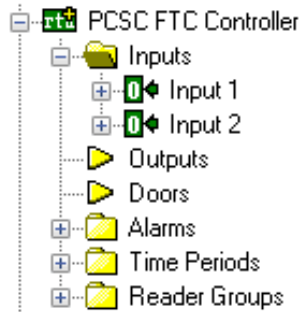
The site codes for a FTC panel group must be configured on a per Reader Group basis. This configuration tells the panel which site codes of cards to accept for each separate Reader Group. There may be multiple entries (site codes) for each Reader Group.



The 'Site Codes' dialog box contains a list box with the entry '255 (Always)'. Below the list box, there is a 'Site Code:' label followed by a text input field containing '255'. To the right of this is a 'Reader Group:' label followed by a dropdown menu currently showing 'Always'. At the bottom of the dialog are two buttons: 'Add' and 'Delete'.

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).

PCSC FTC Controller - Inputs Input 1

Property Page | Operation | Actions | Commands | Hardware | Notes/Comments

Name: Type: ☐ Inverted input polarity

Door

Output action

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

Alarm/Ajar-Shunted by Time period

Output	Use Class	Output Class
<input type="text" value="*Never*"/>	<input type="checkbox"/>	<input type="text" value="A"/>

☐ Supervised

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

- Tamper Detect
- Reader Detect
- Not In Use
- Alarm
- Event
- Input Switch
- DPS
- REX
- REX, No Energize

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	NoLoad	<input type="checkbox"/>	None
...Trouble/Force:	*None*	<input type="checkbox"/>	A	NoLoad	<input type="checkbox"/>	None
...Alarm/Ajar:	*None*	<input type="checkbox"/>	A	NoLoad	<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)

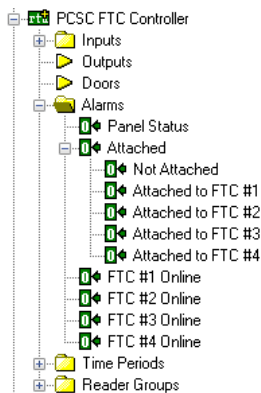
TpResume - Resume time period control

- 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.



Alarms

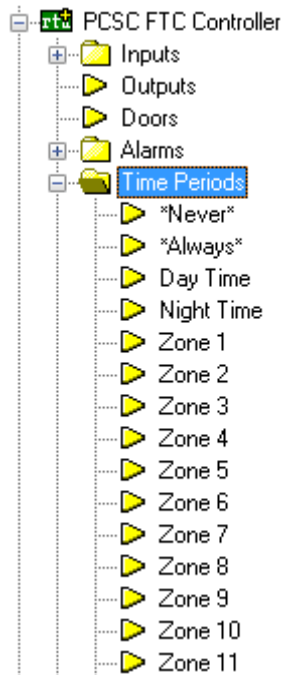
An Alarm node is configured by expanding the **Alarms** folder then **Right-Clicking** on the Output and selecting **Properties...**. Alarms do not have PCSC-specific properties pages. For property page configuration, refer to the Intelli-Site Reference Guide Section 2.

Alarm Types

There are the following alarm types:

1. **Panel Status** – The Panel Status point is high when the panel is online with the Intelli-Site host.
2. **Attached** – The attached point will be high for DDMs/SDMs that are currently attached to an FTC. The substates of the attached point will indicate which FTC the DDM/SDM is attached to.
3. **FTC #1 Online** – This point will be high if the first FTC is online.
4. **FTC #2 Online** – This point will be high if the second FTC is online.
5. **FTC #3 Online** – This point will be high if the third (optional) FTC is online.
6. **FTC #4 Online** – This point will be high if the fourth (optional) FTC is online.

Time Periods



The Time periods for this panel group are configured from here. The first four Time Periods are fixed in the panel: Never, Always, Day Time and Night Time. The remaining 124 Time Periods can be configured on a per panel group basis. Each time period can be configured to have different times for normal days and holiday days.

Time Periods - Zone 1

Property Page | **Time Zone** | Holiday Time Zone | Notes/Comments

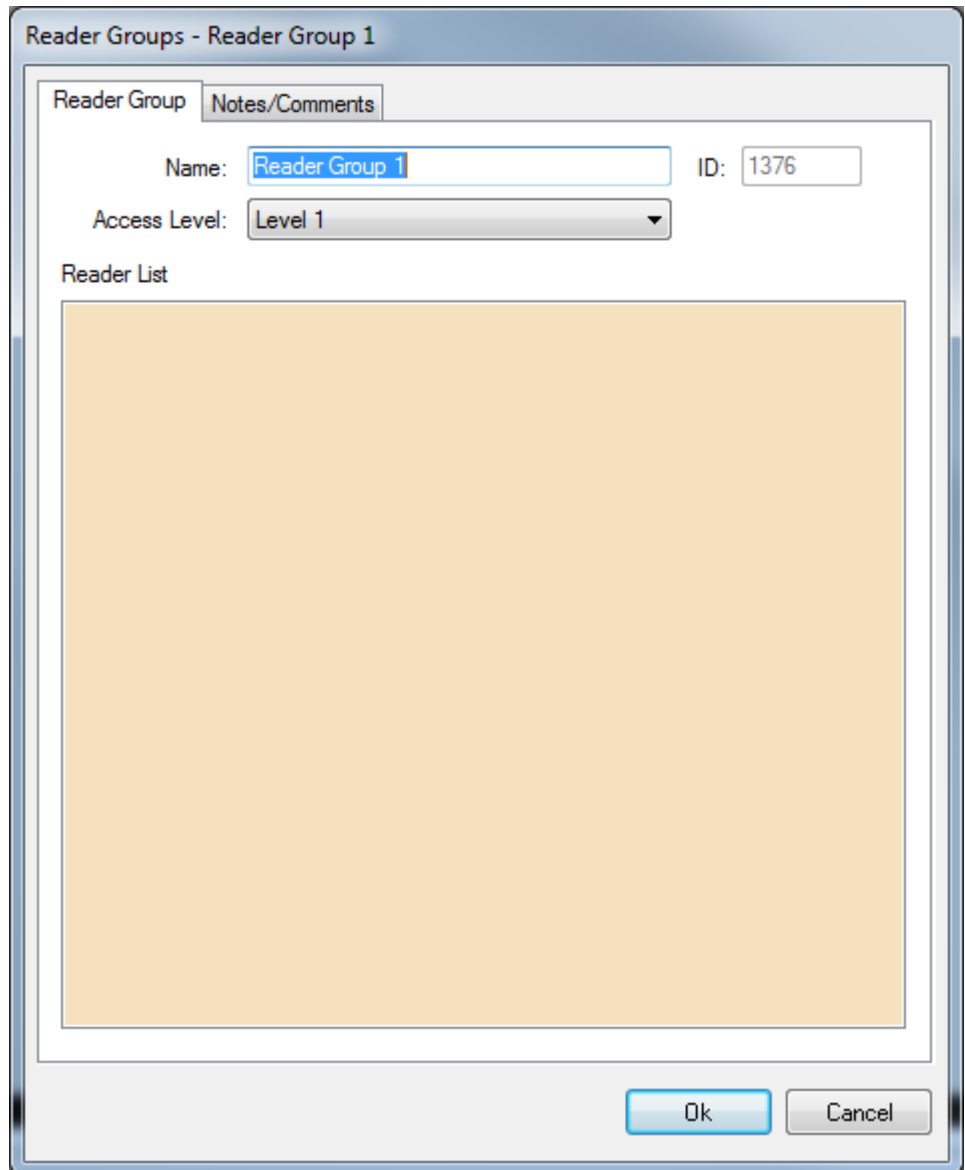
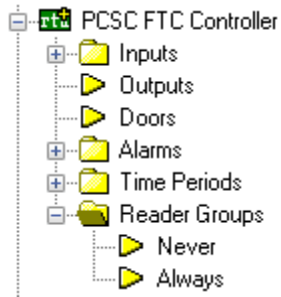
Name:

	Start Time	Stop Time
<input type="checkbox"/>	Monday 00:00	Monday 00:00
<input type="checkbox"/>	Monday 00:00	Monday 00:00
<input type="checkbox"/>	Monday 00:00	Monday 00:00
<input type="checkbox"/>	Monday 00:00	Monday 00:00
<input type="checkbox"/>	Monday 00:00	Monday 00:00
<input type="checkbox"/>	Monday 00:00	Monday 00:00
<input type="checkbox"/>	Monday 00:00	Monday 00:00
<input type="checkbox"/>	Monday 00:00	Monday 00:00
<input type="checkbox"/>	Monday 00:00	Monday 00:00
<input type="checkbox"/>	Monday 00:00	Monday 00:00
<input type="checkbox"/>	Monday 00:00	Monday 00:00
<input type="checkbox"/>	Monday 00:00	Monday 00:00
<input type="checkbox"/>	Monday 00:00	Monday 00:00
<input type="checkbox"/>	Monday 00:00	Monday 00:00
<input type="checkbox"/>	Monday 00:00	Monday 00:00

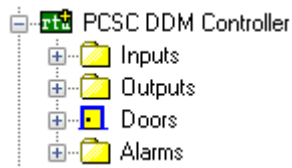
Ok Cancel

Reader Groups

The Reader Groups for this panel group are configured from here. Reader Groups are assigned to Access Groups as part of assigning access to cardholders. There are two fixed Reader Groups, Never and Always.



Readers are assigned to a Reader Group via drag & drop. The Readers in the Reader List must come from a DDM or SDM on the same domain as the FTC. For more information about configuring access for cardholders, see the section on Access Control in the **Intelli-Site Reference Guide**.



DDM/SDM Configuration

The following section describes configuration of the various elements of the PCSC DDM and SDM RTUs. Because the SDM RTU is simply a single door version of the DDM RTU, this guide will show how to configure a DDM RTU.

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

- **Inputs** – a collection of the physical inputs on the FTC panel.
- **Outputs** – reserved.
- **Doors** – reserved.
- **Alarms** – the collection of all alarms.

RTU Node (Parent Node)

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

RTU Setting Tab

Area - PCSC DDM Controller

RTU Notes/Comments

Name: PCSC DDM Controller 1155

Access Level: Level 1

RTU Setup

Domain: 80 Net: 2

Event buffer delta (min.): 0

☐ Retain

☐ Auto download valid cards:

☐ Virtual Point: *None*

Ok Cancel Apply

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: 80 Net: 1

Event buffer delta (min.): 0

☐ Retain

☐ Auto download valid cards:

☐ Virtual Point: *None*

- a. **Domain and Net** – the Domain identifies the panel group and the Net identifies the panel number.

Note: The Net of the FTC Panel must match the address of one of the FTC nodes in the group

- 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. 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.

Inputs

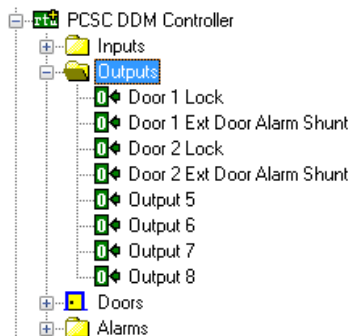
Configuration of a DDM’s Inputs is the same as the configuration of the Inputs for a FTC. Please refer to the Inputs section for the FTC for more information for configuring the Inputs of a DDM

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.



PCSC DDM Controller - Outputs Door 1 Lock

Property Page | Operation | Actions | Commands | Hardware | Notes/Comments

Name: ☐ Inverted (deenergize upon activation) ☐ Maglock

Class:

Class A	Class H	Class O	Class V
Class B	Class I	Class P	Class W
Class C	Class J	Class Q	Class X
Class D	Class K	Class R	Class Y
Class E	Class L	Class S	Class Z
Class F	Class M	Class T	
Class G	Class N	Class U	

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 checked="" type="checkbox"/>	<input type="text" value="Clear"/>
At segment stop:	<input type="text" value="LoadZero"/>	<input checked="" type="checkbox"/>	<input type="text" value="Clear"/>

Output static values

Long Shunt Time: Egress Time:

Max: Standard Shunt Time:

Ok Cancel

1. **Name:** - enter the input name here. This name may, or may not, match the name entered on the 1st properties tab.
2. **Inverted (de-energize upon activation)** – select this checkbox if you want the output (control counter) to set off upon activation.

3. **Maglock** – If this is a Class D (door lock) output, this checkbox is enabled that allows the user to configure whether the door log is a maglock or not.
4. **Class** – allows the user to select the output (control counter) classes from a list. Multiple classes can be selected.

Control counters can be classified A through Z. 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.

5. **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).

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.

6. 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 checked="" type="checkbox"/>	Clear
At segment stop:	LoadZero	<input checked="" 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

7. **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:	<input type="text" value="12"/>	Egress Time:	<input type="text" value="18"/>
Max:	<input type="text" value="65535"/>	Standard Shunt Time:	<input type="text" value="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

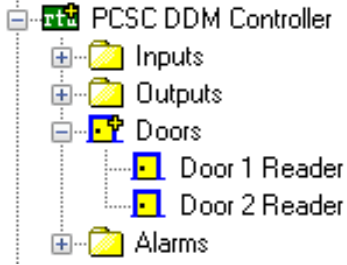
shunt time. The default time is 8 seconds. Enter a different amount of time if necessary. Shunt time is always at least 1 second longer than the corresponding access time.

b. Non-Door Output Static Values

Output static values

Low:	<input type="text" value="10"/>	High:	<input type="text" value="20"/>
Max:	<input type="text" value="65535"/>	Preset:	<input type="text" value="1"/>

- i. Low:** - sets the low threshold of the control counter (default is 10).
- ii. High:** - sets the high threshold of the control counter (default is 20).
- iii. Max:** - sets the maximum value of the control counter (default is 65535).
- iv. Preset:** - sets the preset value of the control counter (default is 1).

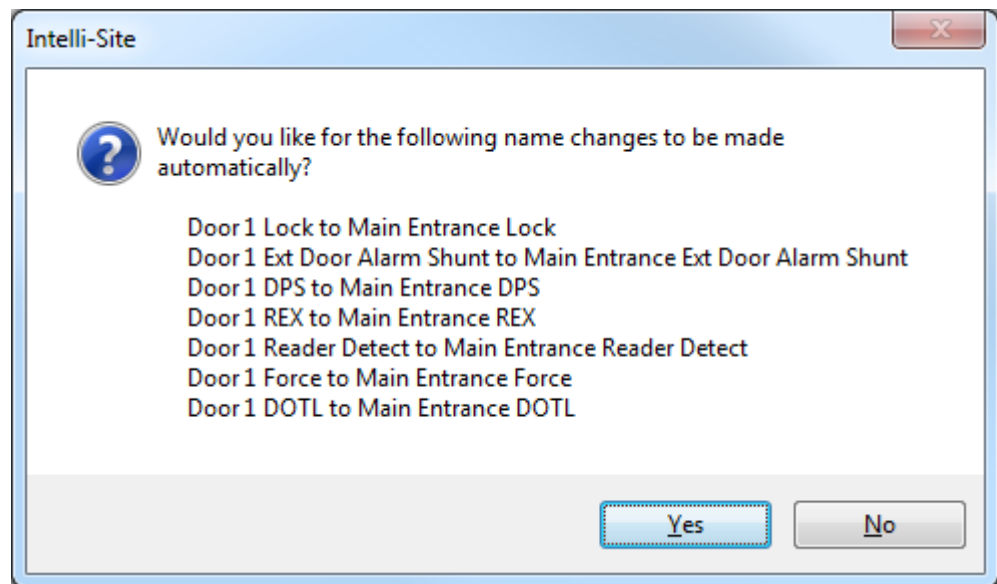


Doors (Readers)

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 DDM Controller - Doors Main Entrance Reader

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

Name:

Connections

Function: Type:

Door lock: ☐ Muster Reader

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 1st properties tab.

2. Connections – this area allows the user to set reader function, reader type and assign door lock output point.

Connections

Function: Access Type: PCSC-26,37,40

Door lock: [1254] PCSC DDM Controller->Main Entrance Loc ☐ Muster Reader

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

Reader Function Options

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

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

PIN_PAD	BP250 or BP270
ProTech (Hughes ID)	BR350, BR370, VR670 (40-bit), PCSC Protech, All Hughes ID Proximity readers (except 26-bit cards)
ProTech (I)	PCSC ProTech Insert readers: BR371, BR351, and BR352
ProTech/PIN_PAD	ProTech readers with PIN_Pad (swipe readers)
ProTech/PIN_PAD (I)	ProTech Insert readers with PIN_Pad
MagStripe	BR450, BR470
MagStripe (I)	BR451, BR452, BR47
Magstripe/PIN_PAD	BR450/BP250, BR470/BR270
Magstripe/PIN_PAD (I)	BR450/BP250, BR450/BP250
Watermark	Any Watermark card with the 12-digit format
Watermark (I)	Custom Watermark card
Watermark/PIN_PAD	Custom Watermark card
Watermark/PIN_PAD (I)	Custom Watermark card

PCSC Wiegand	34-bit PCSC Wiegand format. All Sensor Proximity readers
Wiegand/PIN_PAD	34-bit PCSC Wiegand format with BP270 PIN_PAD
Indala	All Indala readers (32-bit)
Indala/PIN_PAD	All Indala readers w/PIN Pad
12-Digit	NO Site code; Magnetic stripe, BR450, BR470
12-Digit (I)	BR451, BR452, BR470, BR471
12-Digit/PIN_PAD	BR470/BR270, BR450/BP250
12-Digit/PIN_PAD (I)	BR451/BP270, BR471/BP270, BR452/BP250, BR472,/BP270
Sensor-26	Standard Sensor 26-bit format, VR670 26-bit, HID 26-bit, BR700 BARCODE
Sensor-26/PIN_PAD	BR200/BP270, BR202,/BP270, PRK234, PR235/BP270, PR232/BP270, PR234/BP270
Sensor-34	Standard Sensor 34-bit format, BR200, BR202
Sensor-34/PIN_PAD	BR-200/BP270, BR202/BP270
Special	Proprietary
Special/PIN_PAD	Proprietary
PCSC-26, 37, 40	37-bit format (PCSC), Sensor 26, PCSC 40-bit Protech (HID Prox Reader)
PCSC-26, 37, 40/PIN_PAD	PCSC 37-bit Prox/BP270, Protech 40-bit/BR270 (HID Prox Reader)
Corp-1000	Fortune 500 format, PR732, PR733, PR735, PR736
Corp-1000/PIN_PAD	Fortune 500 format w/PIN Pad, HID Prox Reader/BP270
Motorola-32	Corporate Secure format, Motorola Prox Readers
Motorola-32/PIN_PAD	Corporate Secure format w/PIN Pad, Motorola Prox Readers w/Bulletin PIN_PAD
Smart 40	Smart 40 Cards
Smart 40/PIN_PAD	Smart 40 Cards with PIN Pad

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

d. Muster Reader – Not yet implemented.

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.

Time duration (seconds)

Standard access: 5

Long access: 10

- 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.

Time period for PIN pad disable: *Never*

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

Access lockout

Event lockout Output: *None*

☐ Two person minimum occupancy, Output: *None*

- 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.

Access cost for card group

None:	<input type="text" value="0"/>	A:	<input type="text" value="0"/>	B:	<input type="text" value="0"/>	AB:	<input type="text" value="0"/>
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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 DDM Controller - Doors Main Entrance Reader

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

Action: Access Granted- 1st Action Card group: All

Output Use Output
Class Class

None ☐ 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:
- Access Granted 1st Action**
 - Access Granted 2nd Action**
 - Access Granted 3rd Action**
 - 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:
- All**
 - A**
 - B**
 - 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 control

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

- Time Period – Drag-and-drop a Time Zone** into the drop field.
- 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

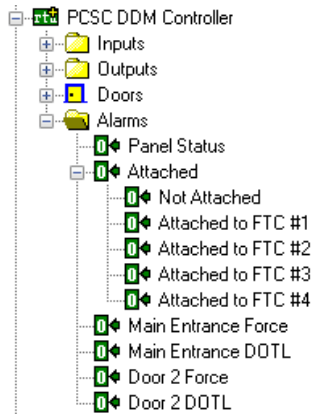
IncrementSec - Start auto-increment on second

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



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 four alarm types:

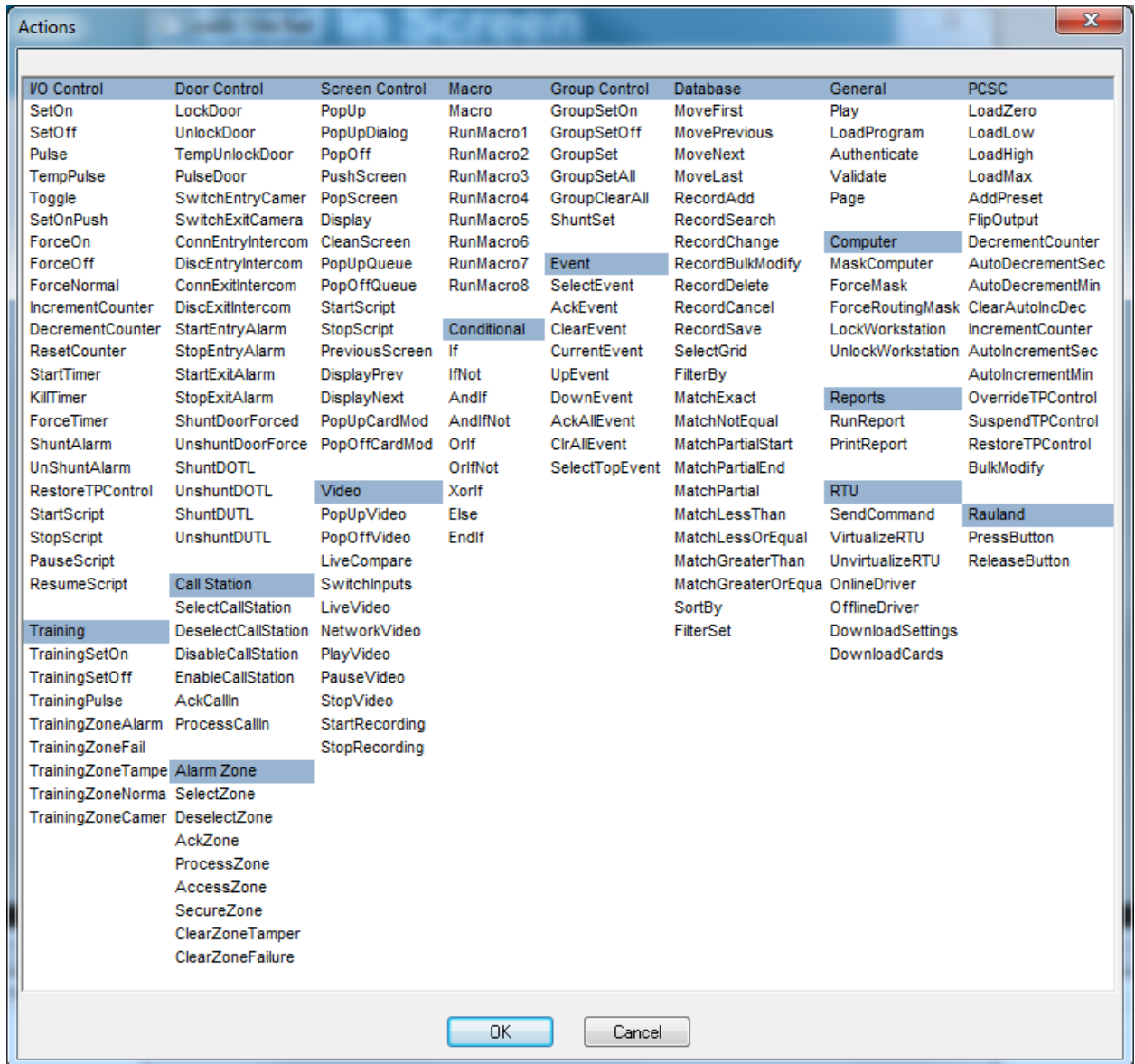
1. **Panel Status** – The Panel Status point is high when the panel is online with the Intelli-Site host.
2. **Attached** – When the DDM is attached to an FTC this point will be high. The substate of this alarm will signify which FTC the DDM is attached to.
3. **Force** – Door Force alarms occur when a door has been opened without an authorizing card action or request-to-exit (REX).
4. **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.

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.



- **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		--	--	
2		--	--	
3		--	--	
4		--	--	
5		--	--	
6		--	--	
7		--	--	
8		--	--	
9		--	--	
10		--	--	
11		--	--	
12		--	--	
13		--	--	
14		--	--	
15		--	--	
16		--	--	
17		--	--	
18		--	--	
19		--	--	

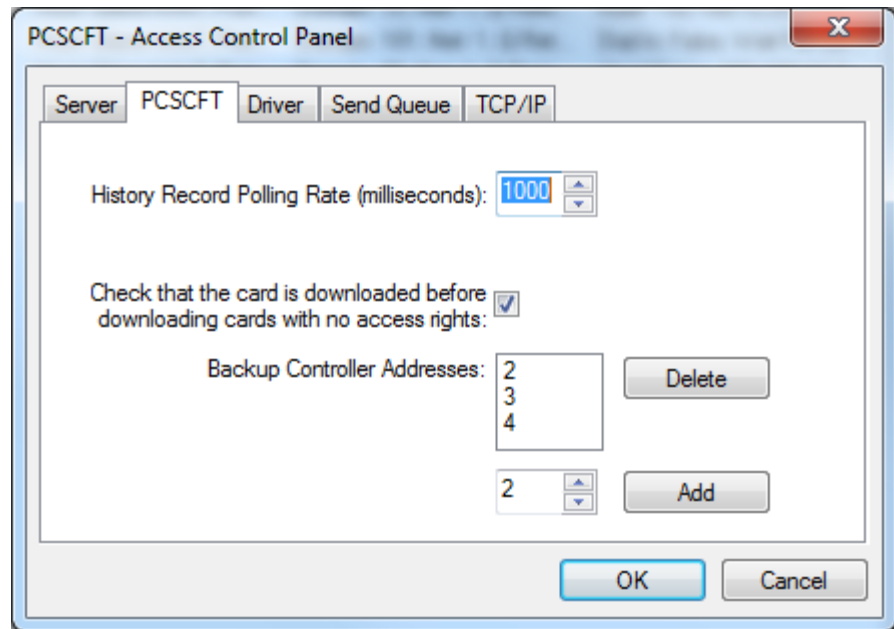
Ok Cancel

NOTE: The targeted panel needs to be both online for BulkModify to function correctly.

Section 4 – PCSC FT Driver Configuration

Backup FTC Panel Addresses

In order for the PCSC FT driver to be able to communicate with the FTCs other than the first one, the user must configure the driver with the addresses of the other FTCs attached to the panel group. This is done from the PCSCFT tab of the driver screen.



TCP/IP addresses

The IP addresses of all the FTCs must be configured on the TCP/IP tab of the driver

