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MPA2C3 Access Control Unit



User Manual

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WARNING Installation and servicing should be performed only by qualified and experienced technicians to conform to all local codes and to maintain your warranty.

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Waste Electrical and Electronic Equipment (WEEE)

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INSTALLATION

Install in accordance with the manufacturer's instructions.

Installation and servicing should be performed only by qualified and experienced technicians to conform to all local codes and to maintain your warranty.

POWER SOURCES - This product should be operated only from the type of power source indicated in the guide. If you are not sure of the type of power supplied to your facility, consult your product dealer or local power company.

MOUNTING SYSTEM - Use only with a mounting system recommended by the manufacturer, or sold with the product.

ATTACHMENTS/ACCESSORIES - Do not use attachments/accessories not recommended by the product manufacturer as they may result in the risk of fire, electric shock, or injury to persons.

SERVICING - Do not attempt to service this unit yourself. Refer all servicing to qualified service personnel.

REPLACEMENT PARTS - When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards. Using replacement parts or accessories other than the original manufacturers may invalidate the warranty.

11

Warranty and Service

Subject to the terms and conditions listed on the product warranty, during the warranty period Honeywell will repair or replace, at its sole option, free of charge, any defective products returned prepaid.

Be sure to have the model number, serial number, and the nature of the problem available for the technical service representative.

Prior authorization must be obtained for all returns, exchanges, or credits. Items shipped to Honeywell without a clearly identified Return Merchandise Authorization (RMA) number may be refused.

CHAPTER

1

GETTING STARTED

Overview

The MPA2C3 panel is a modular 2 and 4 Door access control system. An MPA2 access control site is configured with a host system and access control units. These units also communicate with each other and with a variety of input and output devices. Each access control unit, or panel, has up to four reader connection. Each connection can support one Wiegand reader and two readers for OSDP (Reader A (IN) and B (OUT)).

MPA2C3 supports up to 4 Wiegand readers. Any Wiegand reader without hold wire can be connected. In a MPA2C3 2 door panel both doors can be controlled with 2 Wiegand readers, configured as IN and OUT Reader. In a MPA2C3 4 door panel each door can be controlled with 1 Wiegand reader, only configured as IN Reader.

MPA2C3 can also support up to 8 OSDP readers. See for a list of compatible OSDP readers. In a MPA2C3 2 or 4 door panel each door can be controlled with 2 OSDP readers, configured as IN and OUT Reader.

Per door peripheral inputs (for Request-to-EXit (REX) and Doorcontacts (DrCnt)) and an output (Locking device) are available.

Additional 8 inputs and 4 outputs are available for internal logical connections (interlocking) or control via the user interfaces or host software. Per Panel a FACP (Fire Alarm Control Panel) input is available to override the controlled door outputs for people to allow to free egress the connected doors.

Panels can be connected in a (Primary/Gateway – Secondary/Downstream) RS485 loop or in a EVL (Ethernet Virtual Loop) configuration.

The User Interface with the MPA2 access control unit is either through a host software system or by connecting to the built in web server through an Ethernet or USB connection. This user manual describes the configuration, monitoring and control via the web server.

For hardware and wiring installation instructions, please see the Installation Guide supplied. The MPA2 is designed to work with most operating systems and browsers, but Honeywell recommends Chrome™ for the best performance.

Note: All information in this document (descriptions, technical specifications, pictures, illustrations etc) are indicative only, not binding and can be changed without notice. Nevertheless, this document remains valid.

Licensing

To obtain 4 Door access control system, user need to buy the specific license. Once the license file is applied on the panel then user can use the 4-Door controller. Please contact Honeywell Customer Support team for 4-door license.

Connecting to the Web Server

The MPA2 embedded web server is intended for supplementary and programming purposes only. It has not been evaluated by UL294 evaluation consist of the stand alone mode of this device for use as a monitoring station.

The embedded web server can be accessed through the following three connection types:

- USB (via USB2 WEB MODE)
- Ethernet (via Eth1/PoE+- HOST) through a direct connection
- Ethernet (via Eth1/PoE+- HOST) through a Switch/LAN connection

Note: 1) The panel that you are connecting to the computer is the Primary panel. DIP SW1 Bit 3 on a Primary panel must be set to ON for a successful connection.

2) When creating a user in MPA2 -> Web server, the administrator should obtain and maintain the consent.

Setting Up the USB Connection

Warning: Do NOT connect the USB cable to the panel until AFTER the drivers are installed.

Note: Honeywell recommends Chrome^{TM} for the best performance.

1. Register and log-in to https://myhoneywellbuildingsuniversity.com/training/support/ Click Download Center > Access Control > MPA > MPA2 Resources and USB Driver Media CD. Click on download link ("Click here to Download" or the Down-



load Icon).

Note: Please add the following to the list of trusted sites in Internet options and set your security level to Low for trusted sites."https://acshsgdownloadcenter.blob.core.windows.net https://buildings.honeywell.com/

If the file is blocked by the browser then:

- Navigate to the downloaded MPA2 Resources and USB Driver Media CD.zip file
- Right click on the file and select Properties. In the General Tab click "Unblock"

1. Locate and open the compressed ZIP file. Click on the Driver folder. Double-click on MPA-USB-setup.exe file to launch. Select Run and select Yes to allow the USB Driver to be installed.



2. Click **Next** to **display** the Ready to Install the Program screen.

Note: If confirmation dialog boxes pop up before or during the installation, click the appropriate boxes to allow or approve the installation.



3. Click **Install** to initiate the installation. When the installation is complete, the closing screen appears:



- 4. Click Finish.
- 5. Connect the computer to the MPA2C3 controller USB2 WEB MODE connector with a Type-C USB cable.
- 6. Supply power to the MPA2 controller. Login at https://192.168.2.150.

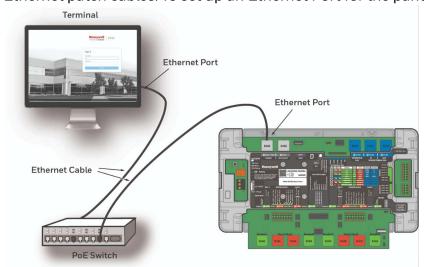
Setting Up an Ethernet Port

There are two options for connecting the panel to a PC via a web server via the Ethernet port Eth1 / PoE+ - HOST:

- Using a Switch /LAN connection
- Using a direct connection

To set up a new Ethernet Port for the panel powered by PoE+

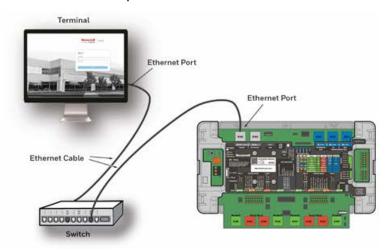
Ethernet switch connection: Connect both the computer's Ethernet port and the panel's Ethernet port (Eth1/PoE+ - HOST) to an Ethernet switch with standard Ethernet patch cables. To set up an Ethernet Port for the panel powered Power



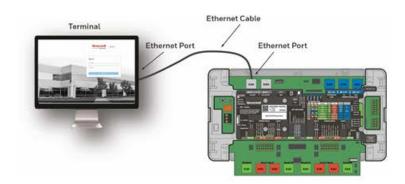
Supply Unit

To Set up an Ethernet Port for the Panel Powered by Power Supply Unit

- 1. Connect your computer's Ethernet port to the panel's Ethernet port using one of the following two methods:
 - a. Ethernet Switch connection: Connect both the computer's Ethernet port and the panel's Ethernet port (Eth1/PoE+ HOST) to an Ethernet switch with standard Ethernet patch cables.



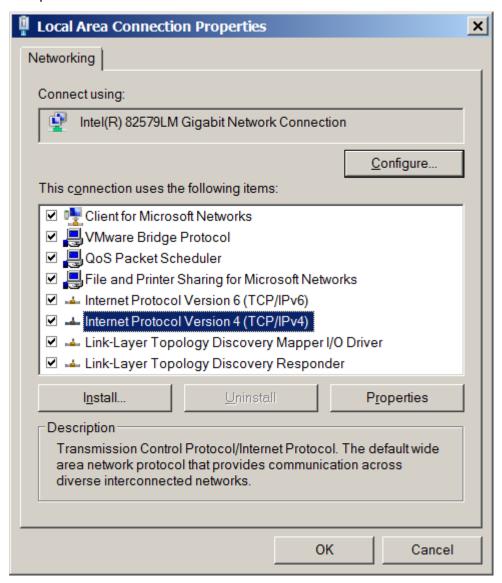
b. Web server direct connection: Connect the computer's Ethernet port directly to the panel's Ethernet port (Eth1/Poe+-HOST) with ether a crossover an Ethernet cable.



Tip: Turn ON DIP Switch 4 in SW1 to put the panel under default IP 192.168.1.150.

- 1. Configure the computer's network connection:
 - a. Select Start > Settings > Control Panel.
 - b. Click Network and Dial-up Connections.

c. Identify your local Ethernet connection (commonly labeled Local Area Connection), and right-click the icon to display the Local Area Connection Properties screen.

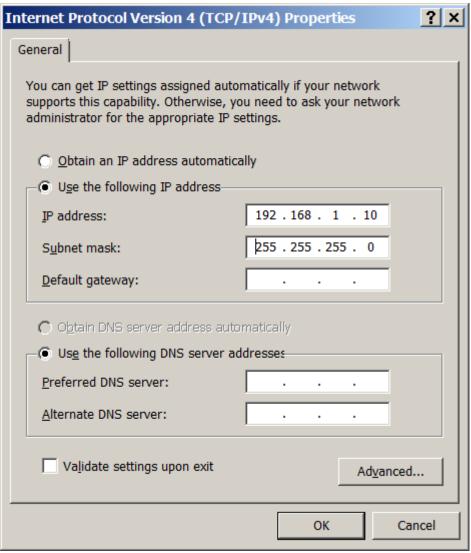


- d. Highlight the Internet Protocol (TCP/IP) connection.
- e. Click **Properties** to display your system's current Internet Protocol properties.

Tip: Keep a record of your computer's current network configuration as it appears in this screen. You will need to re-instate this configuration later. Select **Use the following IP address**.

f. Enter 192.168.1.10 in the IP address field.

g. Enter 255.255.255.0 in the Subnet mask field.



- h. Click **OK** to accept the entries.
- 1. Open your browser, and enter https://192.168.1.150 as the target address.

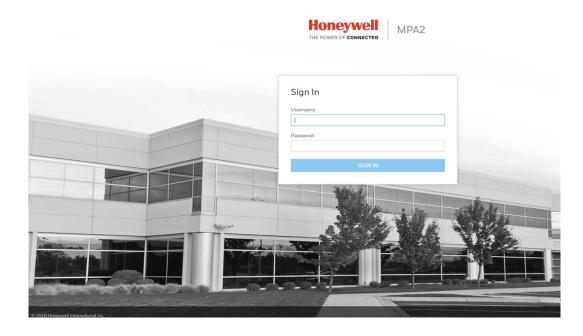


Caution: When connecting to the web using a browser, you must use https:// for a secure connection. The standard http:// that is the default in most browsers will not work.

2. Press the Enter key to display the Honeywell MPA2 login screen.

Note: If you are using Google Chrome and you receive a message "Your connection is not private", follow the below steps to get to the Sign In screen.

- a. Click **Advanced** to expand the popup window.
- b. Click **Proceed to <panel's> IP address (unsafe)**. The Sign In screen appears.



Note: For instructions on certificate errors see the Chapter 5, Caches and Certificates.

1. Enter admin in the **User Name** field, and enter admin in the **Password** field. Both the user name and password are case-sensitive.

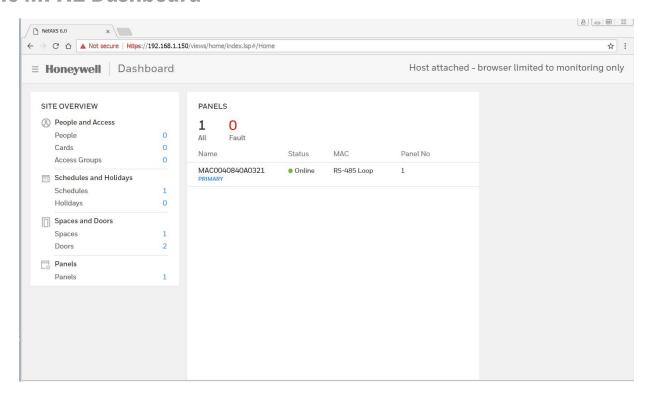
Note: If you fail to log in successfully 5 times, the Retry Limit will be exceeded, and the account locks for 30 minutes. Any attempt to log into a locked-out account, within the timeout period, restarts the 30 minute lock-out period.

Note: On initial signing in, you will be asked to change your password to a new password. For more information see Creating MPA2C3 Accounts section on page 123.

1. Click Sign In. By default, the MPA2 opens to the Dashboard.

Navigating through MPA

The MPA2 Dashboard



On the MPA2 Dashboard, you can see the following:

- A list of all the panels in the loop.
- Any offline panels.
- The number of currently existing entries in the database.
- Clicking on the links on the Dashboard will take you directly to the selected database page.

Accessing the Menu

Figure 1-1 In the upper left corner is the Menu button, allows you access to all of the MPA functions.

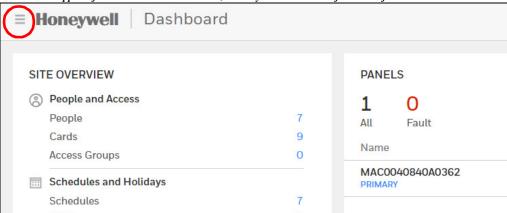


Figure 1-2 Main Menu

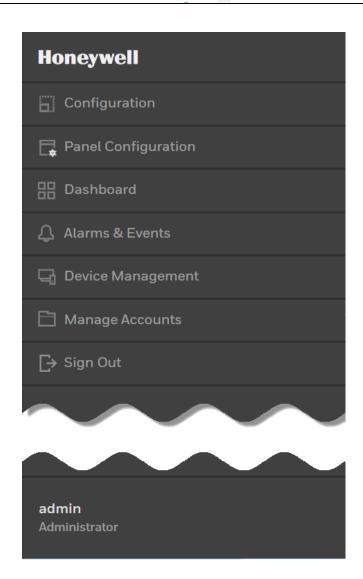


Table 1-1 Main Menu Selections

Icon	Description	For more information, see
Configuration	Access configuration options for Spaces, Schedules, Holiday, People and Cards, and Access.	Configuring Spaces on page 40; Configuring People and Cards section on page 60; Entering a Panel Name section on page 31
Panel Configuration	Access panel configuration options.	Configuring the EVL (Ethernet Virtual Group) section on page 18; Configuring the System Via RS-485 Loop section on page 22; Initial Panel Setup section on page 30
□□ Dashboard	View the Configuration Summary, and the status of all the panels in the loop.	Navigating through MPA section on page 23
🗘 Alarms & Events	View alarms and events	Monitoring Alarms and Events section on page 81; Table 3-6
Device Management	Manage Spaces, Doors, and Auxiliary Connections (such as Inputs, Outputs, and Output Groups)	Configuring Spaces on page 40; Configuring Doors on page 44; Configuring Panel I/O and Groups section on page 46
Manage Accounts	Specify that an account is Administrator, Service, or Operator. Select Language Preference.	Creating MPA2C3 Accounts section on page 123
[→ Sign Out	Sign out	
admin Administrator	The current user	

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2

BASIC SETTINGS

Basic Settings

Overview

This chapter explains the MPA2C3 configuration functions as accessed via the web server. These functions should be performed only by the system administrator or service personnel.

Caution: The sequence of MPA2C3 configuration tasks is critical. If you do not follow the sequence described in Table 2-1, the system cannot be successfully configured.

Table 2-1 Configuration Task Sequence

То	Go here
Configure the System via EVL (Ethernet Virtual Loop)	Configuring the EVL (Ethernet Virtual Group) section on page 28
OR	
Configure the system via RS485	Configuring the System Via RS-485 Loop on page 22
Initial panel setup	Initial Panel Setup section on page 41
Configuring schedules	Configuring Schedules section on page 45
Configuring spaces	2-Door Inputs Configuration Interface section on page 61
Configuring people and cards	Configuring People and Cards section on page 82
Configuring access groups	Configuring Access Groups section on page 89

Note: Screen captures taken on a **Windows 7** platform. If you use another OS, then the GUI might be different.

Configuring the EVL (Ethernet Virtual Group)

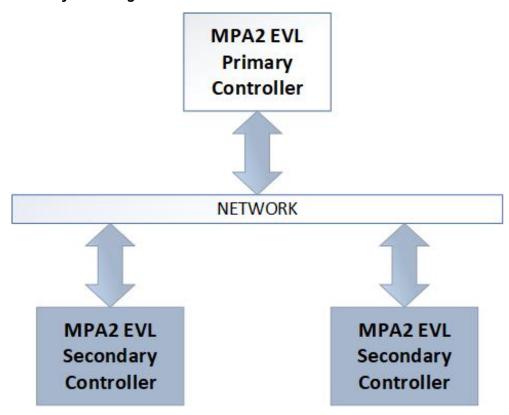
What is an EVL?

An Ethernet Virtual Loop (EVL) allows a group of IP network connected MPA2C3 controllers to be managed as a group, through an embedded Web Server residing on one of the controllers.

Up to 16 controllers may be grouped into an Ethernet Virtual Loop.

The grouping is known as a Virtual Loop since the administration paradigm is similar to an RS-485 loop.

Figure 2-1 EVL System Diagram



Network Requirements

The controllers **must** be connected to a common IP sub-network that provides dynamic address assignment through DHCP.

DIP Switch Settings (EVL Mode)

When a MPA2C3 panel is used in EVL mode, DIP (dual in-line package) SW1 Bit 5-Bit 9 are NOT used to identify the panel. The panel is identified by its MAC address

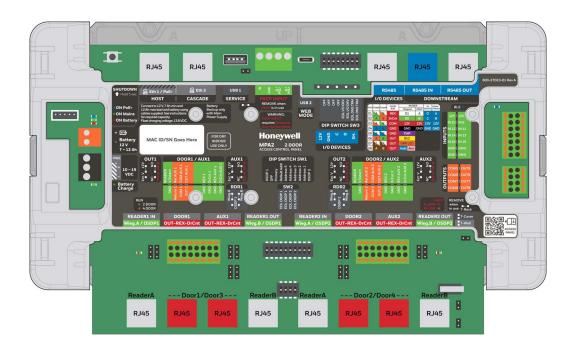
Tip: When setting up an EVL loop, create a list of MAC addresses for all Panels, and what doors they control. This will be useful later when the panels are configured. Example list below.

	List of MPA2 EVL system								
Panel	Address	IP Address	MAC Address	Primary / Secondary	2/4 door	Door1	Door2	Door3	Door4
1	1	.92.168.1.150	xx:xx:xx:xx:xx	Master	2	Lobby	Office 1		
2	1	DHCP	yy:yy:yy:yy:yy	Secondary	4	Warehouse	Corridor West	Corridor East	Office 2
3	1	DHCP	ZZ:ZZ:ZZ:ZZ:ZZ	Secondary	2	Office 3	Back door		

DIP switches 5 through 9 should be set to factory defaults:

- DIP switches 5 through 8: OFF.
- DIP switch 9: ON.

One of the controllers must be set as the Primary controller by setting DIP Switch 3 to ON.



	RS485 Loop Mode								
MPA2C3	DIP Switch SW1							Panel Function	
	Bit3	Address	Bit5	Bit6	Bit7	Bit7 Bit8 Bit9			
Primary	ON	1	OFF	OFF	OFF	OFF	ON	Master	
		2	OFF	OFF	OFF	ON	OFF		
		3	OFF	OFF	OFF	ON	ON		
		4	OFF	OFF	ON	OFF	OFF		
		5	OFF	OFF	ON	OFF	ON		
		6	OFF	OFF	ON	ON	OFF		
		7	OFF	OFF	ON	ON	ON		
		8	OFF	ON	OFF	OFF	OFF		
		9	OFF	ON	OFF	OFF	ON		
		10	OFF	ON	OFF	ON	OFF		
		11	OFF	ON	OFF	ON	ON		
		12	OFF	ON	ON	OFF	OFF		
		13	OFF	ON	ON	OFF	ON		
		14	OFF	ON	ON	ON	OFF		
		15	OFF	ON	ON	ON	ON		
Cocondany	OFF	16	ON	OFF	OFF	OFF	OFF	Downstream	
Secondary		17	ON	OFF	OFF	OFF	ON	Downstream	
		18	ON	OFF	OFF	ON	OFF		
		19	ON	OFF	OFF	ON	ON		
		20	ON	OFF	ON	OFF	OFF		
		21	ON	OFF	ON	OFF	OFF		
		22	ON	OFF	ON	ON	OFF		
		23	ON	OFF	ON	ON	ON		
	24	ON	ON	OFF	OFF	OFF			
		25	ON	ON	OFF	OFF	ON		
		26	ON	ON	OFF	ON	OFF		
		27	ON	ON	OFF	ON	ON		
		28	ON	ON	ON	OFF	OFF		
		29	ON	ON	ON	OFF	ON		
		30	ON	ON	ON	ON	OFF		
		31	ON	ON	ON	ON	ON		

Creating an EVL

Configure other controllers as Secondary controllers by setting DIP switch 3 to OFF. and Creating an EVL

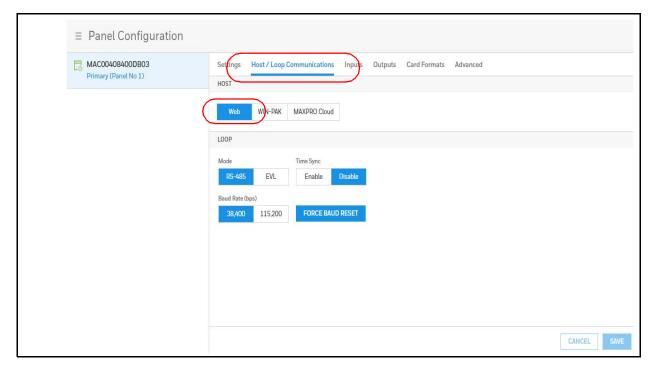
Connect all Controllers to a common IP network. The Secondary IP controllers must have DIP switch 3 set to OFF. and will be configured using the Primary controller.

1. Log into MPA2C3 Primary panel from a browser through the USB2 -WEB MODE (https://192.168.2.150) or Ethernet connection Eth1 / PoE+ - HOST (https://192.168.1.150 - SW1- Bit4 ON).

See Setting Up the USB Connection section on page 6 for instructions.

- 2. Navigate to Host/Loop Communications Screen:
- Menu > Panel Configuration > Host/Loop Communications, or
- Click on **Panels** > **Host/Loop Communications** on the Dashboard.

Figure 2-2 Selecting Host/Loop Communication Tab



- 1. Set up Communication attributes (see figure 2-2):
 - a. Select **Web** as Host Connection Type.
 - b. Select **Ethernet Virtual Loop** as Mode.
 - c. Click **Save**. The panel automatically reboots.
- 2. Log into the MPA2C3 panel.

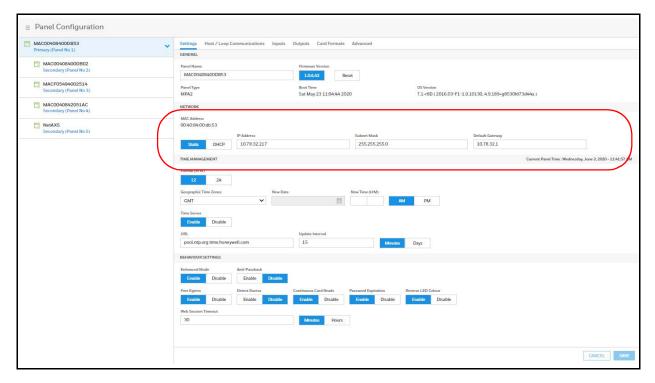
See Setting Up an Ethernet Port section on page 8.

- 3. Set up Network Configuration (see figure 2-3):
 - d. Navigate to the **Network** field on the **Settings** tab.
 - e. Select **DHCP** or enter **Static IP** address assigned to Primary panel.
 - f. Click **Save**. The panel automatically reboots.

Note: It is recommended to set the Primary panel as a static IP address that is different than the default address (192.168.1.150) such as 192.168.1.100.

The Primary panel must be set to the same subnet as the Secondary panels in order for the EVL to work properly (i.e., if DHCP server is assigning Secondary panels to 129.17.27.XXX, then Primary needs to also be set to 129.17.27.XXX).

Figure 2-3 Network Configuration for EVL



1. Log into the Primary controller from a browser.

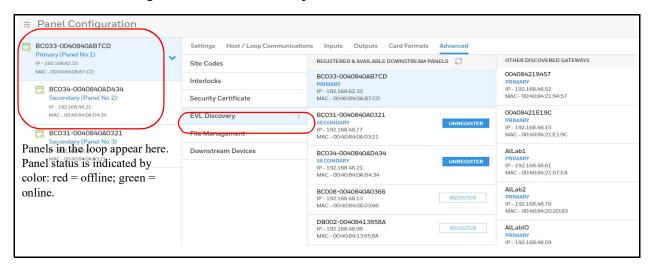
See Setting Up an Ethernet Port section on page 8.

2. Register Secondary EVL controllers (see figure 2-4):

Note: Only secondary panels can be Registered and Unregistered.

c. Navigate to the EVL tab: **Menu > Panel Configuration > Advanced > EVL Discovery**.

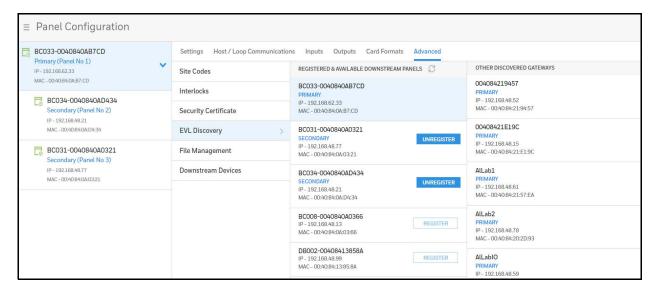
Figure 2-4 EVL Discovery Panel



Discovered panels appear automatically.

d. Click **REGISTER** to register a panel. The REGISTER buttons changes to UNREGISTER when the registration is successful.

Figure 2-5 Registered Secondary Controllers



You have now finished creating an Ethernet Virtual Loop.

Configuring the System Via RS-485 Loop

By default, the Loop Mode is set to RS-485. If it was set EVL and the user set it back to RS-485, the panel will automatically reboot. Panels in a RS-485 loop are wired together in daisy chain fashion Up to 31 controllers may be wired together in a RS-485 loop; that is one primary and up to 30 secondary controllers.

DIP Switch Settings (RS485 Mode)

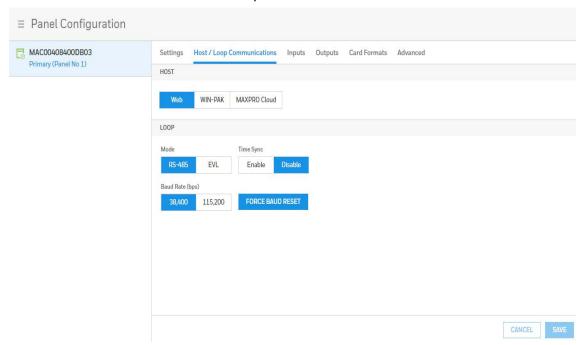
IMPORTANT: Only 1 Primary controller may be in a RS-485 loop. All of the Secondary controllers must have DIP SW1, Bit 3 set to the OFF position. The secondary controllers also need to be addressed with unique addresses by DIP SW1, Bit 5 to Bit 9 in the correct positions in the below table.

DIP SW Settings Master Slave Mode RS485

1. Log into MPA2C3 Primary panel from a browser through Ethernet (Eth1 / PoE+ - HOST: default 192.168.1.150), or USB (USB2 - WEB MODE: 192.168.2.150).

See Setting Up the USB Connection on page 6. See Setting Up an Ethernet Port on page 8.

- 2. Navigate to Host/Loop Communications Screen:
- Menu > Panel Configuration > Host/Loop Communications, or
- Click on Panels > Host/Loop Communications on the Dashboard.



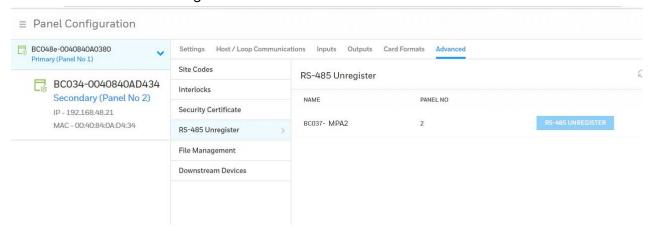
- 3. Set up Communication attributes
 - a. Select Web as Host Connection Type.
 - b. Select RS-485 as Mode.
 - c. Click Save. The panel automatically reboots.
- 4. Log into the MPA2C3 panel.

RS-485 Unregister

RS-485 Unregister page will list all of the secondary panels that are physically wired together in a RS-485 communication loop.

Note: Note RS-485 Unregister feature is only available on the primary panel of the RS-485 loop.

Navigate to the RS-485 Unregister tab: Menu > Panel Configuration > Advanced > RS-485 Unregister.



If a secondary panel is offline, it will display as red in the status list. None of its devices (readers, inputs, outputs, etc.) will be accessible until the panel comes back online. Once the panel is back online, its status will change to green and its devices will be accessible.

If the user want to remove the offline secondary panel from the list, the user can unregister it, which will remove it from the panel status list.

Note: Only secondary panels can be Unregistered.

The RS-485 Unregister button does not become available until the panel goes offline. While the panel is online, the button is grayed out, unavailable.

Managing Configuration Data

Configuration data is managed on a system of panels interconnected in a loop.

Configuration data is either common (shared and stored on all online panels when the data is entered) or panel specific (unique to each panel).

Common data includes:

- Schedules
- Cards
- Card Formats

- Holidays
- Access Group Name (access group details are panel-specific)
- Configuration (Site Codes)

Panel-specific data includes:

- Access Group Schedule Reader Assignments
- Space/Door/Reader Configuration
- Panel Configuration (General)
- Panel Configuration (Firmware Version)
- Panel Configuration (Network) (IP addresses apply only to primary panel)
- Panel Configuration (Host/Loop Communications) (applies only to primary panel)
- Panel Configuration (FACP input)
- Web Users (applies only to primary panel)

Configuring Host/Loop Communications

To maintain your MPA2C3 system configuration or to monitor its status, you must connect to the panel using one of three modes:

- **Host mode** (monitor only) a host software system, such as WIN-PAK™ or MAXPRO Cloud, connects to the panel (through the primary panel, which has an on-board PCI communications adapter). It enables you to monitor the system status.
- **Web mode** (configure and monitor) the web server connects to the panel and enables you to configure the panel and monitor system status.

Setting Communication Parameters for WIN-PAK

- 1. Navigate to Host/Loop Communications:
 - Dashboard > Panels > Host/Loop Communications, or
 - Menu > Panel Configuration > Host/Loop Communications.
- 2. Click to select WIN-PAK.

Panel Configuration

MPA-4-PANEL-TLS
Primary (Panel No 1)

MACO040840A8771
Secondary (Panel No 3)

WWN-PAK
TLS Secondary (Panel No 3)

WWN-PAK
TLS Secondary (Panel No 3)

WWN-PAK
TLS Secondary
Disabled
Connection (TCPIP)
Direct Romers
10 22.92.15.1

WMPAKTLS Certificate.perm
Insured By Insured To Valid Date

United To

Receive Time Sync.
Time Sin mind

LOOP
Connection Time Sync.
Time Sync.
Time Sin mind

Receive Time Sync.
Time S

Figure 2-6 Selecting WIN-PAK on the Host/Loop Communications Tab

3. Configure the following host settings:

Table 2-2 WIN-PAK Host/Loop Communications Mode Settings

Host/ Loop	Setting	Description
Host	Connection Type	Specifies the type of physical connection between the host and the Primary panel.
		If you are connecting from a host software system such as WIN-PAK, select one of the following two connection options:
		Direct via TCP/IP – Host initiates connection to panel.
		Reverse TCP/IP – Panel connects directly to the host system using the TCP/IP protocol. You must enter the host IP address in the Host IP Address field. Panel initiates connection to host.
	Host IP Address	Enter the host system (or WIN-PAK server) IP address here if you selected Reverse TCP/IP in the Connection Type field on this screen.
	Port Number	Specifies the port number for the Ethernet port. Port 2101 is Encrypted (default). Port 3001 is Direct TCIP/IP. Reverse TCP/IP port starts at Port 5001 and must be unique in a WIN-PAK system for each primary panel.
	TLS Security	By default enabled to establish TLS encrypted communication between MPA2C3 Primary / Gateway panel and WIN-PAK Host.
		TLS encryption is available from WIN-PAK 4.9 and higher. After enabling the TLS Security a TLS certificate must be uploaded to the panel. To create the TLS certificate file, browse on the WIN-PAK Server to C:\Program Files (x86)\WINPAKPRO\Honeywell.Winpak.SSLConfigUtility.exe.
		In the WIN-PAK SSL Configuration Utility dialog box, select Create Self-Signed WIN-PAK Certificate. For more informa- tion refer to the WIN-PAK User guide.
		Disabling encryption creates a vulnerable system for IT attacks and is not recommended.
	TLS File upload	Click Browse select the desired TLS certificate and then click Save and upload the TLS certificate to the panel.

Table 2-2 WIN-PAK Host/Loop Communications Mode Settings

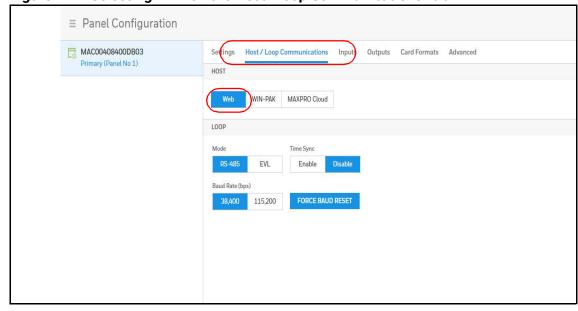
Host/ Loop	Setting	Description
Loop	Connection Type	RS-485 -If Primary provides access to RS-485 Loop, to downstream secondary panels .
	Time Sync	Synchronizes the primary's time with the secondary panels.
		Enabled – Time-synchronizes the loop by automatically broadcasting the primary's time to secondary panels. Select from 60-32767 minutes.
	Baud Rate	Specifies the transmission rate (bits per second) among the secondary panels on the loop.
		Force Baud Reset – Tells all secondary panels to change to the selected loop baud rate. This saves the user from having to go to each panel individually.

4. Click Save.

Setting the Communication Mode to Web

- 1. Navigate to Host/Loop Communications:
 - Dashboard > Panels > Host/Loop Communications, or
 - Menu > Panel Configuration > Host/Loop Communications.
- 2. Click to select Web.

Figure 2-7 Selecting WEB on the Host/Loop Communications Tab



3. Configure the host settings.

Table 2-3 Web Host Communication Mode Settings

Host	Setting	Description
	Mode	RS-485 - If Primary provides access to RS-485 Loop. EVL - If Primary provides access to Ethernet Virtual Loop.
	Time Sync	Synchronizes the primary's time with the secondary panels. Enabled – Time-synchronizes the loop by automatically broadcasting the primary's time to secondary panels. Select from 60-32767 minutes.
	Baud Rate	Specifies the transmission rate (bits per second) among the secondary panels on the loop.
		Force Baud Rese t – Tells all secondary panels to change to the selected loop baud rate. This saves the user from having to go to each panel individually.

4. Click Save.

Note: When switching from EVL back to RS-485 mode, all EVL Secondary (DS) controllers are automatically unregistered from the primary so that they may be used again as RS-485 DS controllers.

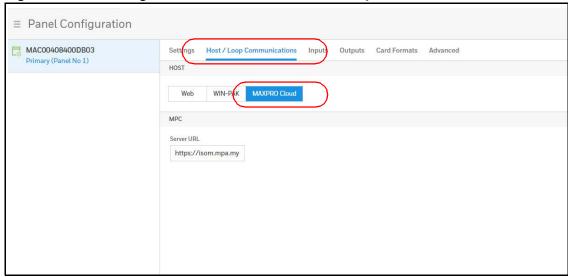
Note: When switching from EVL to RS-485 mode, if the EVL primary can not communicate with the DS controller, then the DS controller remains an EVL controller until it is set back to factory defaults.

Note: Switching to RS-485 mode causes deregistration of EVL Secondary controllers from the primary. Suggestion: Save the configuration database if you might later switch back to EVL mode.

Configuring for MAXPRO Cloud

- 1. Navigate to Host/Loop Communications:
- Dashboard > Panels > Host/Loop Communications, or
- Menu > Panel Configuration > Host/Loop Communications.
- 2. Click to select MAXPRO Cloud.

Figure 2-8 Selecting MAXPRO Cloud on the Host/Loop Communications Tab



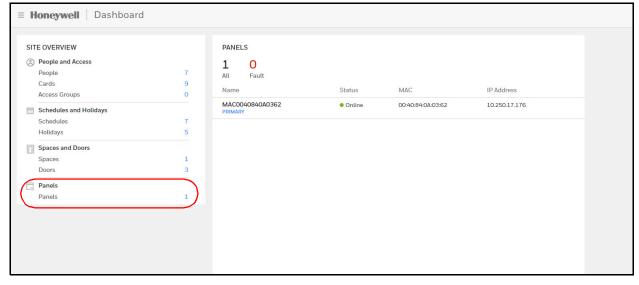
- 3. Enter the Server URL.
- 4. Click Save.

Initial Panel Setup

You can access Panel configuration in two ways:

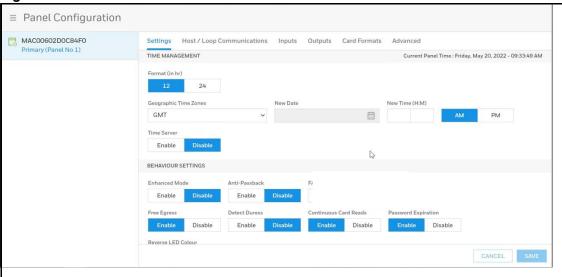
Click Panels in the Dashboard to access the Panels interface, or

Figure 2-9 Navigating to the Panels Interface



• Click Panel Configuration in the Menu.

Figure 2-10 Panels Interface

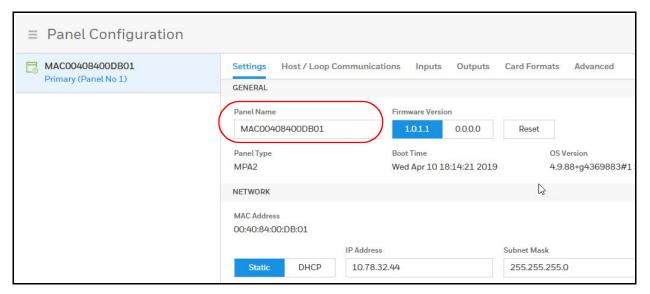


Entering a Panel Name

Note: Panels can be configured only if the Host Communications is set to **Web**.

- 1. Navigate to the **Settings** panel:
- Dashboard > Panels > Settings, or
- Menu > Panel Configuration > Settings

Figure 2-11 Settings Panel



- 2. Click the **Panel Name** field, and then enter a panel name.
- 3. Click Save.

Configuring the Network Settings

In the Panel Configuration page, you can configure the following network-related settings:

- View the panels MAC Address
- · Set network settings to Static or DHCP
- Configure the IP address of the panel
- Configure the Subnet Mask
- Configure the Default Gateway

Scroll down to the Network section.



Note: Only the primary panel will display network information.

The General section allows the user to:

- Configure the panel's name
- View the active and inactive firmware version
- Toggle the firmware version set
- Reset the panel
- View the panel type
- View the last boot time of the panel

Other fields in the Panel Configuration > Settings > General section are Firmware Version, Reset, Panel Type, and Boot Time.

Configuring Time Management

In the **Panel Configuration** page, you can configure the following time-related settings:

Set the current time.

Scroll down to the **Time Management** section.

Figure 2-1 Time Management Section

Configuring the Current Panel Time

Between the Settings tab and the Host/Loop Communications tab, you can configure the following for the current panel time:

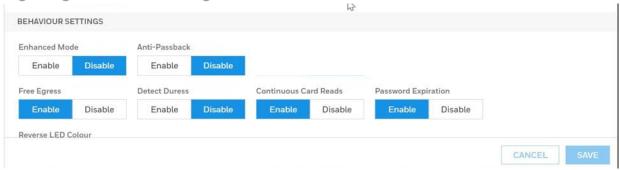
Settings Tab

- Specify the time format (12 hour/24 hour).
- Set a new date.
- Set a new time.
- Set the geographic time zone.
- Enable a time server, and then specify the IP address of the time server being used.
- Specify the update interval.
- Force a time synchronization between the panel and the time server.

Host/Loop Communications Tab

- Synchronizes the primary panel's time with the secondary panels.
- In the Behavior Settings section of Panel Configuration, you can enable/disable the following:
- nted at an OUT reader must then be presented at an IN reader.

Configuring Behavior Settings



• Enhanced Mode: When enabled, it tracks whether the card holder has actually entered/used the door after presenting the card at IN/OUT sequence. If the card holder did not used the door after presenting then in Alarms and Events page,"Card Found Door Not Used" and "Card Found Door Used" events are generated accordingly. If the user opens the door initially then "Card Found Door Used" events are generated accordingly. If the user opens the door initentionally then "Card Found Door Used" event is reported in Alams page for all the vaild cards.

- Anti -Passback-When enabled, a valid card is required for entry and exit. The
 card holder must use the card in the proper IN/OUT sequence-that is, a card
 presented at an IN reader must then be presented at an OUT reader, or vice
 versa.
- Free Egress–Configures the panel for free egress. When enabled (Default), the
 panel automatically configures inputs REX1-4 to act as egress inputs for Doors
 1 to 4, respectively. If disabled, those inputs REX1-4 can be used as general
 inputs.
- A duress PIN is the PIN a user enters at a keypad when being forced (for example, during a robbery) to open a door. The card holder enters a PIN that is either one number higher or lower than the correct PIN. This PIN opens the door, but it also triggers the designated duress output and produces an alarm event.
- For example, if the PIN is 2222, entering either 2221 or 2223 opens the door, but triggers a duress pulse and generates an alarm. In this way, the card holder notifies others without detection by the unauthorized person.

Note: A PIN ending in 0 (for example, 2320) will only trip a duress output when a 1 is used in place of the 0 (for example, 2321).

Note: The duress output feature requires the following configurations:

Note: Duress must be enabled on the Panel Configuration > Settings > Behaviour Settings tab. See figure 2-10 on page 30.

Note: A schedule/schedule must be selected for Card and PIN in the Doors configuration.

- Continuous Card Reads Enables continuous card reading while the output is being energized. t caused by the previous card read. This parameter is set to Enabled by default.
- Password Expiration When enabled, password expiration will be based on the last time a user's password was updated. The password is good for 180 days.
 When disabled, the system does not check for password expiration. This is not recommended. Enabled by default. After 180 days when a user logs in, then the system will prompt you to change the password.
- Reverse LED Color Identifies the color of a reader LED when a grant is authorized. When this parameter is enabled, the LED should be solid red and then turn green after two seconds (by default). Enabled by default. Web Session Timeout – Activates a web session timeout after the specified time period has elapsed. Define the time period either in minutes or in hours. Enter the number in the box, then select either minutes (3-59) or hours (1-12).

Configuring Schedules

The MPA2C3 panel controls access by using schedules, or time schedules. Inputs, outputs, groups, readers, access groups, and cards through access groups are all configured with schedules by which they will be energized or de-energized, enabled or disabled.

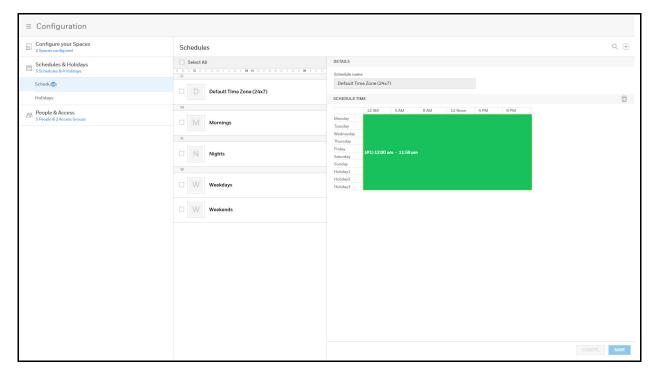
For example, you might assign a group of outputs to be energized from 12:00 AM to 6:00 AM. every day. The 12:00 AM to 6:00 AM, Sunday through Saturday, time period is called a schedule.

The Schedules configuration interface enables you to:

- Create schedules by which the panel controls the operation of the inputs, outputs, groups, readers, access groups, and cards through access groups.
- Modify a schedule.
- Delete a schedule.
- Define the holiday schedule.

Click **Configuration** > **Schedules & Holidays** > **Schedules** to display the Schedules interface:

Figure 2-12 Time Management - Schedules



Creating a schedule

- 1. Click (+) in the Schedules interface to add a new schedule.
- 2. Enter a schedule name.
- 3. Click and drag to define the parameters of the schedule, including days of the week and hours.
- 4. Click Save.

Modifying a Schedule

- 1. In the **Schedules** alphabetical list, click the letter that begins the name for the schedule, and then click to select the name.
- 2. Click to select the desired schedule.
- 3. Click to select the rectangle that defines the schedule.
- 4. Drag to change the shape, and therefore the days and the time of the schedule.
- 5. Click Save to accept the changes.

Deleting a Schedule

Caution: Do not delete a schedule that is currently in use.

- 1. Click to select the schedule. A delete icon appears $\bar{\mathbf{m}}$.
- 1. Click the delete icon. A Delete Confirmation message appears.
- 1. Click **OK**. A Successfully Deleted message appears to indicate the deletion was successful.

Configuring Holidays

Holidays are special days of a week. They are similar, but override standard week-days. If a day programmed as a Holiday occurs in the panel, the panel treats that day as the Holiday type, regardless of the actual day of the week (Monday-Sunday).

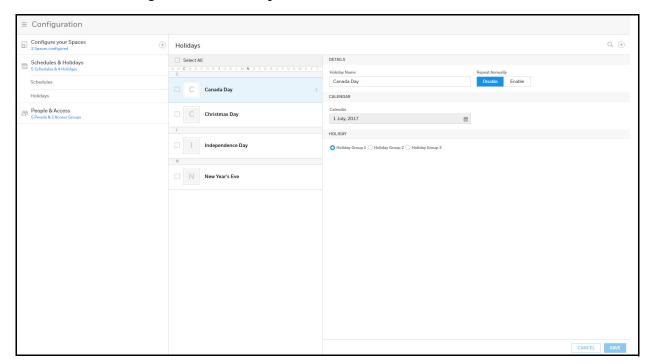
During this Holiday, only Schedules that contain that specific Holiday type work. The Holidays window enables you to further customize how the panel works. For example, you can block access to a building on that day, or grant special access during that day.

In the Holidays configuration window, you can:

- Create a holiday
- Modify a holiday
- Delete a holiday

Click **Configuration > Schedules & Holidays > Holidays** to display the Holidays window:

Figure 2-13 Holidays Window



Creating a Holiday

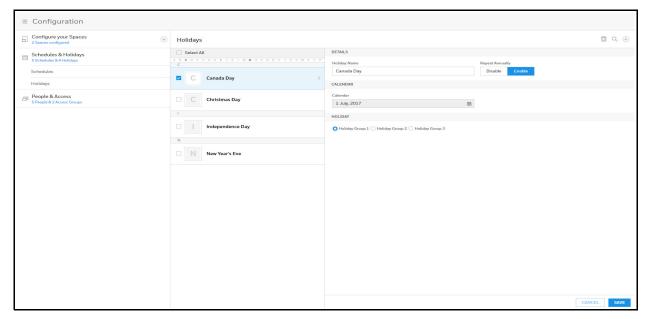
- 1. Click (+) in the **Holidays** window to add a new holiday.
- 2. Enter a new Holiday Name.
- 3. Click to enable/disable annual repetition.
- 4. Click the calendar icon, then select a day on the calendar.
- 5. Click to assign the new holiday to a **Holiday Group**. There are 3 holiday groups.
- 6. Assigning a holiday to a Holiday Group maps that holiday to a schedule configuration. The holiday then follows the rules of that schedule. (See Configuring Schedules section on page 45).
- 7. Click **Save**. A message appears to confirm that the new holiday was saved.

Note: Each Holiday added is considered a full day, extending from midnight to midnight.

Modifying a Holiday

1. Click to select the holiday in the Holidays list.

Figure 2-14 Modifying a Holiday

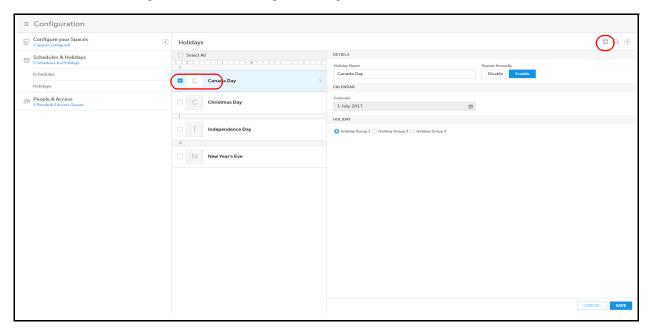


- 2. Modify the holiday.
- 3. Click **Save**. A message appears to confirm that the charges were saved.

Deleting a Holiday

1. Click to select the holiday.

Figure 2-15 Deleting a Holiday



A delete icon appears 🗓 .

- 2. Click the delete icon. A Delete Confirmation message appears.
- 3. Click **OK**. A Successfully Deleted message appears to indicate the deletion was successful.

Configuring Spaces

Before you can configure doors, you must assign doors to a space.

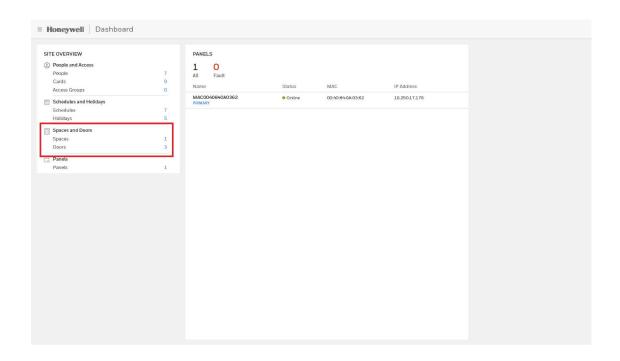
Examples for a space are "Ground Floor", "Lobby" or "West Wing"

- 1. Navigating to the **Spaces** interface.
- Click **Spaces** in the **Dashboard** to access the Spaces interface.

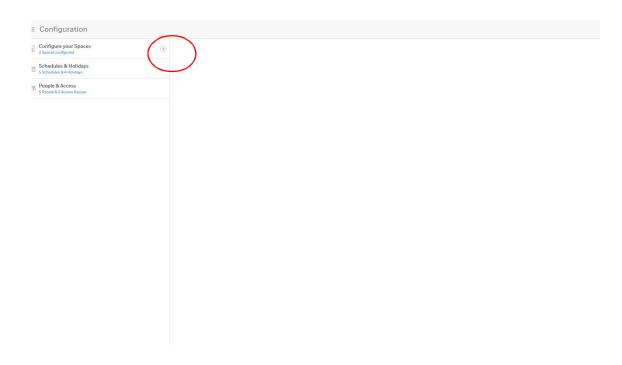
Figure 2-16 Navigating to the Spaces Interface

- Or click Configuration in the Menu.
- 2. Click to create a new space.

Figure 2-17 Creating a New Space



The **ASSIGN DOORS TO SPACE** window opens.



Note: If all of your doors are already assigned to space, then you receive a message explaining that **You don't have any doors available**. Therefore, you cannot create a new space.

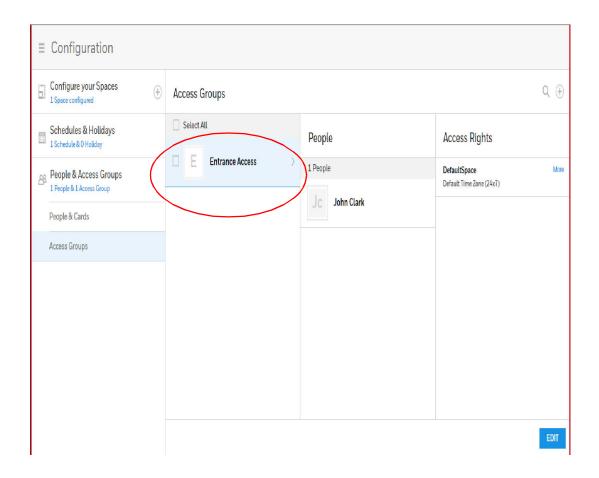
- 3. Figure 2-19 ASSIGN DOORS TO A SPACE window
- 4. Enter a space name in the Name your Space field.
- 5. Click in the **AVAILABLE DOORS** pane to select the door. The door appears in the **ADDED DOORS** pane.
- 6. Click **Save**. A message appears confirming the new Space.

Note: You cannot delete a door that is assigned to an access group. You must first remove that door from the access group.

Removing a Door from an Access Group

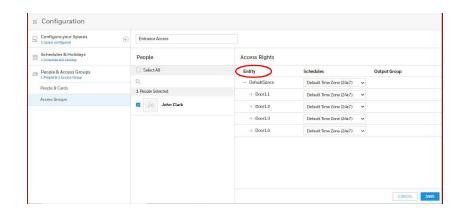
1. Click People & Access > Access Group > Access.

Figure 2-18 Figure 2-20 Access Groups Interface



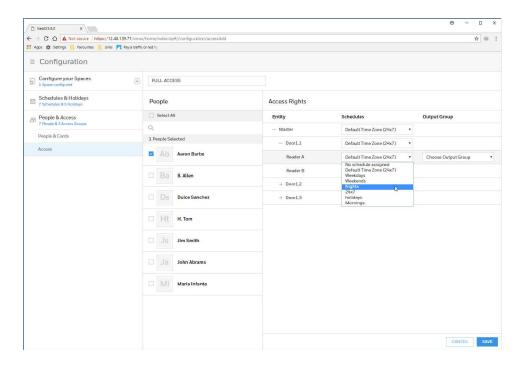
2. Click to select an Access Group, then click EDIT.

Figure 2-19 Figure 2-21 Editing an Access Group



- 3. Click + under **Entity** to expand a space and reveal the doors that belong to that space.
- 4. Click to select a door, then select No schedule assigned from the Schedules.

Figure 2-20



5. Click Save

Configuring Doors

Each panel supports from 1-4 doors depending on the license applied on the panel. For each door, you must configure the readers, inputs, and outputs. MPA2C3 supports:

- 2 Door Controller: Each door can be controlled by 2 Wiegand readers (Reader A: IN / READER
 B: OUT) or by 2 OSDP readers (IN and OUT). Door Controller
- 4 Door Controller: Each door can be controlled by 1 Wiegand reader (Reader A: IN) or by 2 OSDP readers (IN and OUT)

Note: You must assign doors to a Space before you can configure the doors. See *Configuring Spaces on pageXXXXXX*

Accessing the Doors Configurations

- 1. Navigate to the **Configure your Spaces** tab by doing one of the following:
- Click Menu > Configuration, or
- Click Spaces in the Dashboard.

Figure 2-21 Configure your Spaces Tab

2. Click **Configure your Spaces** to expand the configured spaces, then click a **Space** to open it, then click on a door in that space to select it.

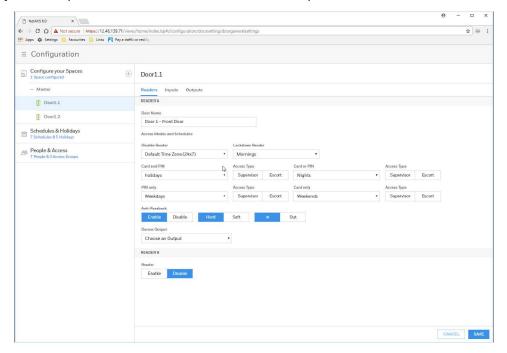


Figure 2-22 Door Configuration - OSDP Mode Enabled

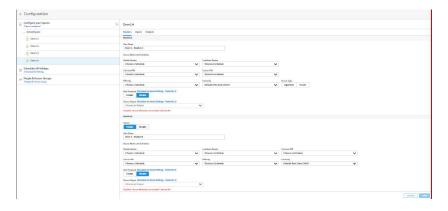
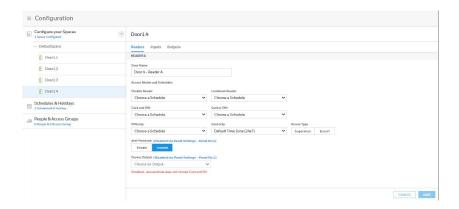


Figure 2-23 Door Configuration - Wiegand Mode Enabled



Configuring Door Reader Settings

The Reader settings tab allows you to configure the following settings for both Readers A and B for each door in a 2 door panel. In a 4 door system you can configure settings in Wiegand mode only for Reader A (IN) and in OSDP mode for both Reader A and B.

- Door Name
- Access Modes and Schedules
- Anti-Passback (enable/disable)
- Duress Output

Below table explains the limitation on Reader type supported for 4 Door Controller **Table 2-4 Table 2-8 Limitations for 4 Door Controller**

Table 1:

Reader Type Readers Supported for Door	Reader Type Readers Supported for Door
OSDP	Reader A and B can be used for all the 4 Door
Wiegand	Only Reader A is available and Reader B is disabled

Figure 2-24 Door Configurations

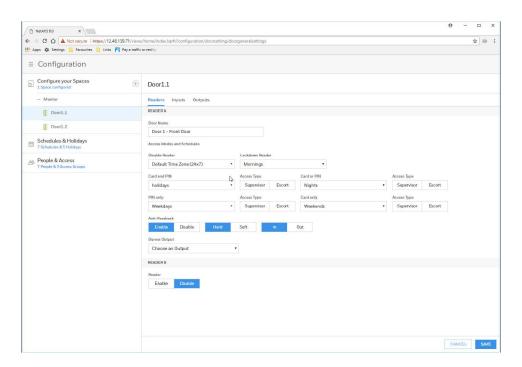


Figure 2-25 Door Configurations - OSDP Mode

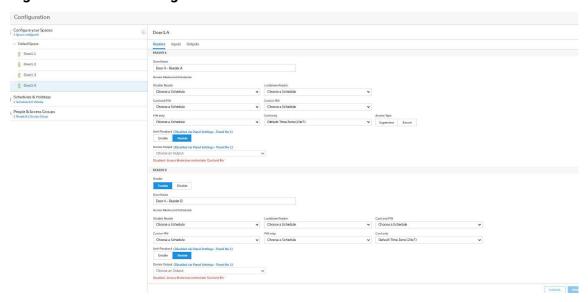
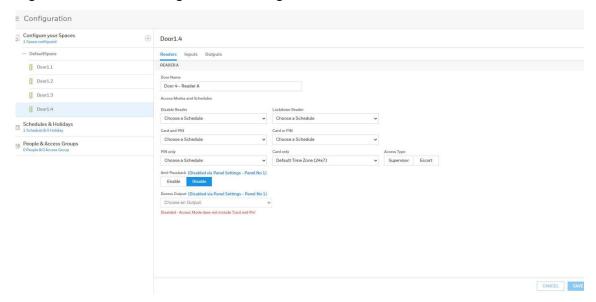


Figure 2-26 Door Configurations - Wiegand Mode



- 1. Enter a Door Name.
- 2. Select a schedule for the following settings:
- Disable Reader
- Lockdown Reader
- Card and PIN
- Card or PIN
- PIN only
- Card Only

Note: The order of the above list is the priority order.

3. Select an **Access Type**, if desired, either SUPERVISOR or ESCORT, for Card and PIN, Card or PIN, PIN only, and Card only.

Note: Access Type selection is optional.

About Supervisor Mode

Supervisor mode enables a supervisor to enter without allowing general access. When this mode is enabled, the reader LED changes color four times per second (usually red then green).

About Escort Mode

Escort mode requires a supervisor escort to allow entry by an employee card holder. In Escort mode, the reader LED changes color four times per second (usually red then green).

Table 2-5 Escort Mode LED Color Cycle

Table 2:

Action	LED Cycle	Reaction
Supervisor swipes card	LED goes solid Red for 10 seconds	System waits for the swipe of an employee credential
Employee credential presented within 10 seconds of Supervisor card swipe	LED returns to rapid flashing	Door opens
No employee swipes a card within the 10 seconds	LED returns to rapid flashing	Reader returns to Escort mode
Supervisor swipes card twice	LED turns red after first swipe and turns to rapid flashing after second swipe	Door opens for supervisor (Supervisor gains entry)

Note: Unlike Supervisor mode, the Escort mode when active cannot be disabled during its schedule; a supervisor is required for all employee access during Escort mode schedule.

Note: VIP cards do not need a supervisor card to gain access.

4. Enable or Disable Anti-Passback.

Note: You must enable Anti-Passback in Panel Configuration before you can enable it here. See the Behaviour Settings section in *Figure 2-10* on *page 31*.

Anti-Passback: When enabled, a valid card is required for entry and exit. The card holder must use the card in the proper IN/OUT sequence—that is, a card presented at an IN reader must then be presented at an OUT reader, or vice versa—a card presented at an OUT reader must then be presented at an IN reader.

Anti-Passback Violation: If the user's IN/OUT sequence is invalid, then an anti-passback violation event is generated for the type of anti-passback chosen (Hard or Soft) and the card holder is either denied access (Hard) or allowed access (Soft).

Enabled - Enables the anti-passback feature.

Note: The Hard/Soft and In/Out Anti-Passback options appear only after enabling Anti-Passback.

Hard - Validates IN/OUT status before allowing entry. A second swipe of the card at the same type of reader (IN/OUT) causes a

Hard anti passback violation notification and the user is denied entry.

Soft - Validates IN/OUT status before allowing entry. A second swipe of a card at the

same type of reader (IN/OUT) causes a Soft anti-passback violation notification but the user is allowed entry.

Out - Applies to readers located inside the anti-passback-controlled area. Cardholders use these readers when attempting to exit the anti-passback-controlled area.

Note: With anti-passback, limited use and trace cards do not apply. **In** - Applies to readers located outside the anti-passback-controlled area. Card holders use these readers when attempting to enter the anti-passback-controlled area.

5. Select a **Duress Output** value

Configures the output that triggers when a card holder enters a duress PIN at a key-pad/card reader. A duress PIN is the PIN a user enters at a keypad when being forced (for example, during a robbery) to open a door. The card holder enters a PIN that is either one number higher or lower than the correct PIN. This PIN opens the door, but it also triggers the designated duress output and produces an alarm event.

For example, if the PIN is 2222, entering either 2221 or 2223 opens the door, but triggers a duress pulse and generates an alarm. In this way, the card holder notifies others without detection by the unauthorized person.

Note: A PIN ending in 0 (for example, 2320) will only trip a duress output when a 1 is used in place of the 0 (for example, 2321).

Note: The duress output feature requires the following configurations:

- Duress must be enabled on the Panel Configuration > Settings >mBehaviour
 Settings tab. See Figure 2-10 on page 31.
- A schedule/schedule must be selected for Card and PIN in the Doors configuration.
- 6. Enable or Disable **Reader B**. The default setting is Disabled. A confirmation message appears. Click **OK** to enable Reader B. Use an Reader B if a door has readers on both sides (inside and outside).
- 7. Click Save.

Note: Should a conflict arise among the schedules set in the Access Modes and Schedules section, priority is given in the following order:

- Disable Reader
- Lockdown Reader
- Card and PIN
- Card or PIN

- PIN only
- Card only

Therefore, the Disabled schedule has highest priority, and the Card Only schedule has lowest priority.

Note: Readers must be enabled in two places, in **Panel Configuration** and here. Go **Panel Configuration** > **Settings** > **Behaviour Settings** tab. See *Figure 2-10* on page 31.

Note: The access mode defined here for the door can be overridden by a card assigned with a VIP card type. (See <u>Configuring People on page 69</u> for information about assigning a VIP card type.)

Configuring Door Inputs

The Inputs tab allows you to configure the following settings:

- Input Name
- Input Modes
- · Shunt and Debounce
- Scheduling

Four inputs are associated with each of the doors on a MPA2C3 panel:

- **Status** Provides door status information (Doorent).
- Egress Allows the door to open or close normally without generating an alarm (REX).
- Tamper A Reports abnormal handling of the reader device or wiring for Reader A.
- Tamper B Reports abnormal handling of the reader device or wiring for Reader B.

The Inputs tab allows you to configure the following settings for each door:

- Define the Status, Egress, and Tamper input modes.
- Specify the Status, Egress, and Tamper shunt time, or the period of time the door's normal state will be ignored.
- Specify the Status, Egress, and Tamper debounce time, or the period of time the input
- must remain in its new state before it is recognized as being in the new state.
- Specify the schedules for the Status, Egress, and Tamper inputs.

Note: For 2-Door and 4-Door, the input configuration is same.

• Enable or disable Auto-Relock for the Status inputs.

1. Click **Inputs** on the **Doors** configuration window to open the Inputs configuration pane.

Figure 2-27 2-Door Inputs Configuration Interface

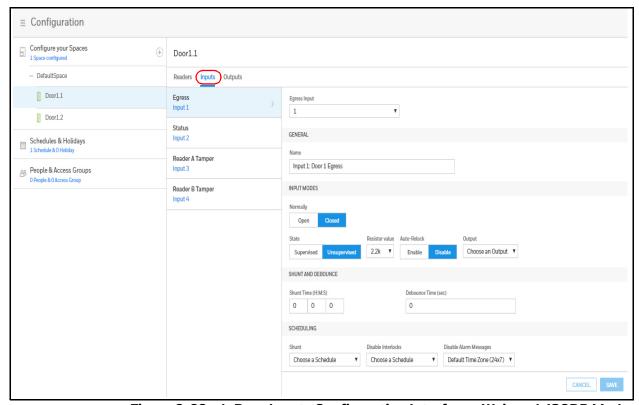
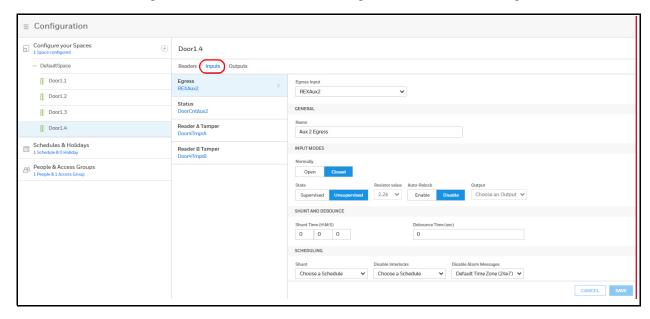


Figure 2-28 4-Door Inputs Configuration Interface - Weigand /OSDP Mode



2. Enter an Input Name.

3. Select Input Modes.

Table 2-6

Configura- tion	Description
Normally	Normally Closed means that the input's normal state is closed. (Default setting).
	Normally Open means that the input's normal state is open.
State	Unsupervised means that the input's electrical circuit is wired in one path without alternative paths supervised by resistors. (Default setting)
	Supervised means that the input's electrical circuit is wired in one path with alternative paths supervised by resistors. If you select Supervised, then you must select a Resistor value.
Resistor Value	Specifies the resistor values being used in the supervised modes. Select from: 1K ohms, 2.2K ohms, 4.7K ohms, or 10K ohms. The default is 2.2K Ohm.
	Note: when using MPA2S5 Door connection cable, the State for Door contact (DrCnt) must be set to Supervised with 2.2K ohms. The State for Request to Exit button must be set to Unsupervised
Auto-Relock	Causes the door to re-lock immediately when the door status switch closes after entry. The output relay that controls the door strike de-energizes when the associated input returns to normal state instead of remaining energized for the duration of the pulse time. To enable Auto-Relock, de-select the Disable check box, and select the associated output from the drop-down list.
Output	Select an Output value for Auto-Relock.

4. Configure Shunt and Debounce times.

Table 2-7

Configura- tion	Description
Shunt Time (h:m:s)	Specifies the amount of time for which the inputs are shunted, or de-activated. The maximum length of time is 1 hour, 45 minutes, 59 seconds. You can express seconds in tenths of a second.
Debounce Time (h:m:s)	Specifies the period of time (MIN = 0 second, MAX = 6553.5 seconds) the input must remain in a new state before generating an alarm. For example, with a 5-second debounce time selected, if a Normal state is changed to Alarm, the state must remain in Alarm for five consecutive seconds before an alarm is generated.

5. Configure Scheduling.

Table 2-1

Configuration	Description
Shunt	Specifies the time period during which the input will be ignored.
Disable Interlocks	Specifies the time period during which the programmed action on this input from another point will be disabled.
Disable Alarm Mes- sages	Specifies the time period during which Alarm and Normal will not be reported, but Short and Cut will be reported. Short alarms are triggered when a short occurs in the input cable. Cut alarms are triggered when a wire is cut.

6. Click Save.

Configuring Door Outputs

The Outputs tab allows you to configure the following settings:

- 1. Discrete or Group selection
- 2. Output Name and Pulse Duration
- 3. Latch and Interlocks
- 4. Special output modes controlled by cards

63

- 5. Lock operation definition.
- 6. Scheduling.

Two outputs are associated with a door on a MPA2C3 panel

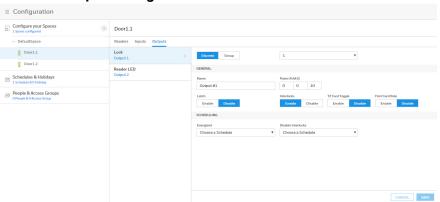
- a. Lock- Controls the lock in an electronic state to open or close the door
- b. **Reader LED**-Controls the LED of the Reader(s) in Green state (via LED wire to Wiegand reader, or OSDP command)

The Outputs tab allows you to configure the following settings for the door

- 1. Select Discrete Output or Output Group and number
- 2. Define Output Name
- 3. Specify Pulse duration
- 4. Disable or Enable Latched output after valid card (instead of pulse)
- 5. Disable or Enable Interlocks.
- 6. Disable or Enable Card activity outputs mode such as Time Zone Card Toggle and First Card Rule
- 7. Specify Lock Operation as Fail Safe or Fail Secure
- 8. Specify Schedules for Energized output and for Disable Interlocks

Click Outputs in the Doors configuration window to open the outputs configuration pane

Figure 2-29 Door Output Configuration Interface



- 1. Select Discrete or Group and specify the available number
- 2. Select General Setting

Configuring Discription

Name	Enter a unique name to identify the lock output
Pulse Time	Configure how long a device assume to be normal status such as a hours, minutes and seconds, Maximum time is 1:45:59
Latch	Toggle the start of the outputs between energized and de-energized upon every activation (code use, interlock, or manual pulse) Interlocks Disable/enable interlocks. See Interlock Configuration, page 77 for more information about Interlocks
TZ Card Toggles	Requires like the First Card Rule, a valid card read within the time zone to enable the time zone (periods in which the doors are unlocked) to take effect. Unlike the First Card Rule, however the user can swipe the card a second time to return the doors to a locked
	Note: Effective only if the output has a valid schedule for Energized in the Section Scheduling. Both TZ Card Toggle and First Card Rule cannot be enabled at the same time
First Card Rule	First Card Rule requires a valid card read within the time zone to enable the time zone (period in which the doors are unlocked) to take effect. Note: Effective only if the output has a valid schedule for Energized in the section Scheduling. Both TZ Card Toggle and First Card Rule cannot be enabled at the same time.

3. Select Scheduling

Configuration	Description
Energized	Specifies the period during which the output relay is automatically in the state where the door is unlocked (Energized or Deenergized-when FACP is in use). Select the Schedule (that you created in Configuring Schedules, page 45from the drop down list. The Energized state of the output can be affected by the Enabled setting for the TZ Card Toggle or First Card R
Disable Interlocks	Specifies the period during which the Interlock that controls the output will be disabled, Select a Schedule (that you created in Configuring Schedules, page 45from the dropdownlist.

4. Click Save.

Configuring Panel I/O and Groups

To view a configuration of a group of outputs, click **Group** and select the group number from the drop-down list. The group configuration screen appears. **Note** that you can only *view* the group configuration from this screen.

The edit the Group configuration, go to Panel Configuration > Outputs > Groups.

Figure 2-30 2-Door Output Group

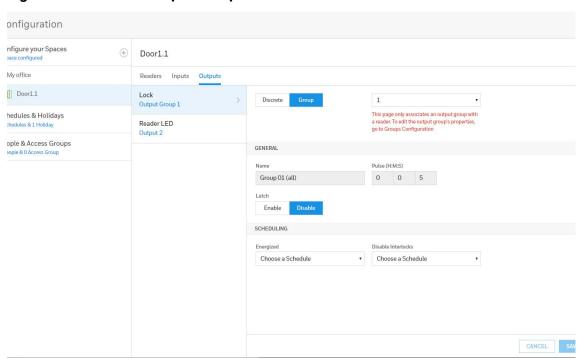
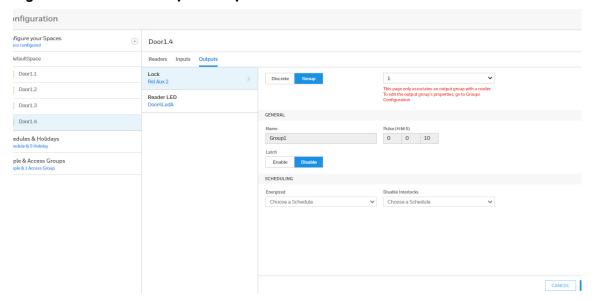


Figure 2-31 4-Door Output Group

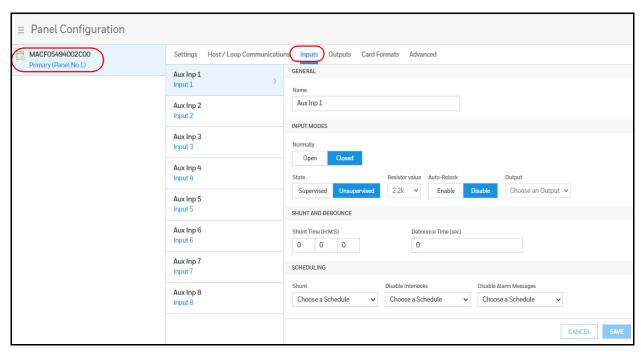


Configuring Inputs

The Inputs tab enables you to:

- Enter a name for the input.
- Configure input modes, including the state.
- · Configure shunt and debounce settings.
- Configure input schedules.
- 1. Navigate to the Input tab:
- Click Panel Configuration > Inputs, or
- Click Panels in the Dashboard.

Figure 2-32 Configuring Panel Inputs



- 4. Click to select an input.
- 5. Select Input Modes.

Table 2-8

Configuration	Description
Normally	Normally Closed means that the input's normal state is closed. (Default setting). Normally Open means that the input's normal state is open.

Table 2-8

Configuration	Description
State	Unsupervised means that the input's electrical circuit is wired in one path without alternative paths supervised by resistors. (Default setting) Supervised means that the input's electrical circuit is wired in one path with alternative paths supervised by resistors.
Resistor Value	Specifies the resistor values being used in the supervised modes. Select from: 1K ohms, 2.2K ohms, 4.7K ohms, or 10K ohms. The default is 2.2K Ohm. Note:when using MPA2S5 Door connection cable, the State for Door contact (DrCnt) must be set to Supervised with 2.2K ohms. The State for Request to Exit button must be set to Unsupervised.
Auto-Relock	Causes the door to re-lock immediately when the door status switch closes after entry. The output relay that controls the door strike deenergizes when the associated input returns to normal state instead of remaining energized for the duration of the pulse time. To enable Auto-Relock, de-select the Disable check box, and select the associated output from the drop-down list.
Output	Select an Output value for Auto-Relock,

6. Configure **Shunt** and **Debounce** times.

Table 2-9

Configuration	Description
Shunt Time (h:m:s)	Specifies the amount of time for which the inputs are shunted, or de-activated. The maximum length of time is 1 hour, 45 minutes, 59 seconds. You can express seconds in tenths of a second.
Debounce Time (h:m:s)	Specifies the period of time (MIN = 0 second, MAX = 6553.5 seconds) the input must remain in a new state before generating an alarm. For example, with a 5-second debounce time selected, if a Normal state is changed to Alarm, the state must remain in Alarm for five consecutive seconds before an alarm is generated.

7. Configure **Scheduling**.

Table 2-10

Configuration	Description
Shunt Schedule	Specifies the time period during which the input will be ignored.
Disable Interlocks	Specifies the time period during which the programmed action on this input from another point will be disabled.

Table 2-10

Configuration	Description
Disable Alarm Messages	Specifies the time period during which Alarm and Normal will not be reported, but Short and Cut will be reported. Short alarms are triggered when a short occurs in the system. Cut alarms are triggered when a wire is cut.

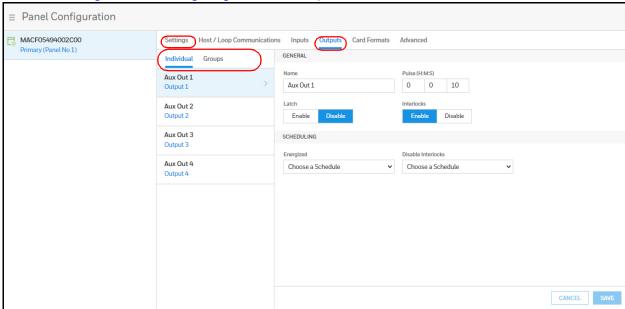
Click Save.

Configuring Outputs

In the Individual Outputs tab, you can configure the following for each output:

- Pulse time
- Disable/Enable Latch and Interlocks
- Energized and Disable Interlocks schedules
- 1. Navigate to the Outputs tab: Click Panel Configuration > Outputs > Individual.

Figure 2-2 Configuring Individual Outputs



- 2. Click to select an individual output from the list.
- 3. Configure the following for each output:

Table 2-11

Setting	Description
Name	Enter a unique name for the output

Table 2-11

Setting	Description
Pulse Time	Configure how long a device assumes abnormal status, such as a horn sounding or a released door strike. In hours:minutes:seconds. Maximum time is 1:45:59.
Latch	Toggles the state of the outputs between energized and de- energized status upon every activation (code use, interlock, or manual pulse).
Interlocks	Disable/enable interlocks. See <i>Configuring Interlocks on page 53</i> for more about Interlocks.
Energized	Specifies the period during which the output relay is automatically energized. Select a schedule (that you created in Entering a Panel Name section on page 42) from the drop-down list.
Disable Interlocks	Specifies the period during which the interlocks that control the output will be disabled. Select a schedule (that you created in Entering a Panel Name section on page 42) from the dropdown list.

8. Click Save.

Configuring Output Groups

Note: You must select at least one output before you can create a group.

The Output Groups tab allows you to configure the following:

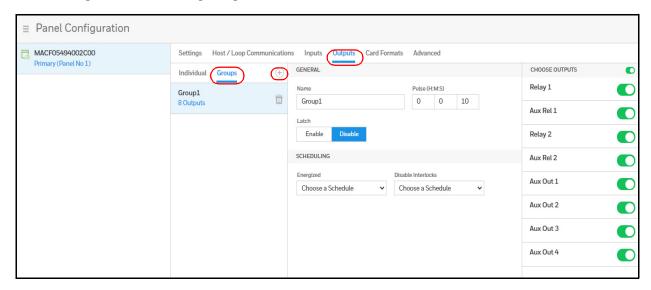
- A group of horns to sound for a set time during a set period
- Energize or de-energize a group of doors during a set period

In the Output Groups tab, you can configure the following for one or more groups:

- Pulse time
- Disable/Enable Latch
- Energized (schedule selection)
- Disable Interlock (schedule selection)

1. Navigate to the **Output Groups** tab: Click **Panel Configuration > Outputs > Groups**.

Figure 2-33 Configuring Output Groups



- 2. Click to add a new group.
- 3. Configure the following for each output group:

Table 2-12

Setting	Description
Name	Enter a unique name for the group
Pulse Time	Configure how long a device assumes abnormal status, such as a horn sounding or a released door strike. In hours:minutes:seconds. Maximum time is 1:45:59.
Latch	Toggles the state of the outputs between energized and de- energized status upon every activation (code use, interlock, or manual pulse).
Energized	Specifies the period during which the group of output relays are automatically energized. Select a schedule (that you created in Entering a Panel Name section on page 42) from the drop-down list.
Disable Interlocks	Specifies the period during which the interlocks that control the group's outputs will be disabled. Select a schedule (that you created in Entering a Panel Name section on page 42) from the drop-down list.

- 4. Click toggle(s) to select outputs. Click the **Choose Outputs** toggle to select all outputs.
- 5. Click Save.

Configuring Card Formats

A card format tells the panel how the card number will be read. The panel supplies the format to the card readers. Then, the card readers can correctly read the card.

Navigate to Card Formats:

- Dashboard > Panels > Card Formats
- Menu > Panel Configuration > Card Formats

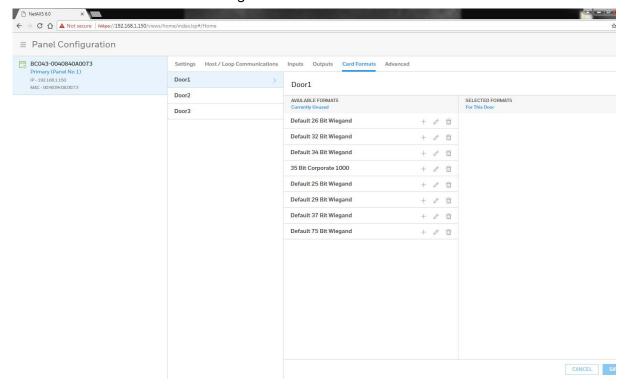


Table 2-13 Card Format Settings

Settings	Description	
Available Formats	Lists all the formats in the panel. All formats, new ones as well as the eight default formats, are listed under Available Formats. This information allows all readers by default to use all formats to try and decipher card reads. The reader will then use every Available Format(s) to decipher incoming card reads. Any cards presented with formats that do not match the Available Format(s) are then reported as an Invalid Format event.	
Selected Formats	Lists specific formats selected by the user from the Available Formats list that the reader should use to decipher card reads. As soon as a single format is placed in the Selected Formats column, the reader begins to use only the selected format, ignoring any unselected formats in the Available Formats list. Cards presented with formats that do not match the Selected Format(s) are then reported as an Invalid Format event, even if the format is in the Available list. This selection is on a per reader basisthat is, each reader can have its own selected formats. Selections at one reader do not affect another reader.	

Note: The user should never add in more than one format using the same total number of bits. If you need more information, please contact Technical Support.

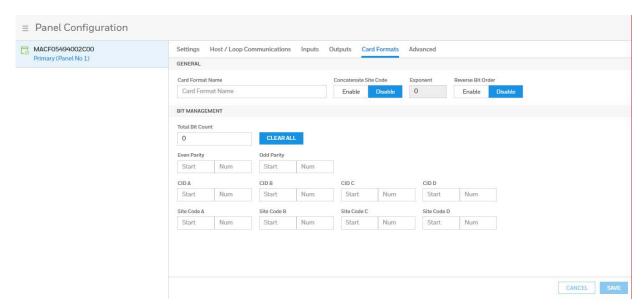
1. Click the Add icon (+) of each desired card format under the Available Formats list, and to move the format(s) into the Selected Formats list.

Note: If you select no formats, the reader will use all available formats (up to 128 per pane) as described for the Available Formats setting in Table 2-13 If you select a subset of formats for a given reader, the reader will interpret only those formats and ignore formats that are not selected, as described for the Selected Formats setting in Table 2-13.

2. Click Save.

If you want to create a new card format, click Circled Add icon \bigoplus to display an empty Card Format data layout screen.

:



Use the field descriptions in Table 2-14 to define the layout and click Save.

Table 2-14 Panel Configuration > Card Formats

Settings Description		
Card Format Name	Displays the name by which the format will be listed in the Card Formats tab. The name is user-defined.	
Concatenate Site Code	When enabled, it is used with the Exponent field to combine the site code and Card ID into a new unique number. Mainly used when a site requires the use of more than 8 different site codes.	
Exponent	Concatenate Site Code box is checked. To generate a card's new ID, use this box to insert the desired number of zeroes to be added to the right-hand side of the Site Code value. Then add the card ID to calculate the card's new ID. For example, a 26-bit card has a site code of 123 and the card ID is 637. When the Concatenate Site Code is enabled with an exponent of 4, 4 zeroes are added to the right-hand side of the site code. The result is a final value of 1230000. This newly modified site code value is then added to the number that the panel has read as the card's ID-that is, 1230000 + 637 = 1230637. The newly combined number becomes the card's new ID value.	
Reverse Bit Order	Returns the message from the reader in reverse bit order (least significant bit first and most significant bit last).	
Total Bit Count	Lists the total number of bits on the card.	
Even Parity	Lists where on the card that even parity is being observed. Start - First bit in the card where even parity begins. Num - Number of bits to the right of the start bit, including the start bit, to include in the even parity check.	

Table 2-14 Panel Configuration > Card Formats (Continued)

Settings	Description	
Odd Parity	Lists where on the card that odd parity is being observed. Start - First bit in the card where odd parity begins. Num - Number of bits to the right of the start bit, including the start bit, to include in the odd parity check.	
CID A CID B CID C CID D	Lists where on the card the Card ID A is listed. Start - First bit in the card where card ID begins. Num - Number of bits to the right of the start bit, including the start bit, that comprise the card ID. Most formats require only CID A, and not CID B, C, or D. If the Card ID of the card format has multiple parts, CIDs B, C, and D may be used to specify which parts are to be concatenated to form the Card ID.	
Site Code A Site Code B Site Code C Site Code D Lists where on the card the Site Code A is listed. Const card manufacturer for detail on the card detail. Start - First bit in the card where the card's Site Code Num - Number of bits to the right of the start bit, inclute the start bit that comprise the Site Code. Most card formats require only Site Code A.		

If you want to change an existing card format's data layout, click the **Edit icon** (pencil) of the desired format in the list of existing formats to display the Card Format data layout screen. Use the descriptions in the table above to edit the layout's fields. Then, click Save to save the edited format.

To Delete a Card Format, select the desired card format than click on the **Delete icon** (trash can). A confirmation popup will appear. Click OK to the popup.

Note: Note: Only user added card formats can be deleted. The default card formats cannot be deleted.

Managing Site Codes

Site codes (also called facility codes) identify an enterprise's site with unique numbers for each site. You can create a maximum of eight site codes to serve as secondary IDs (in addition to the card number) on the card for additional validation.

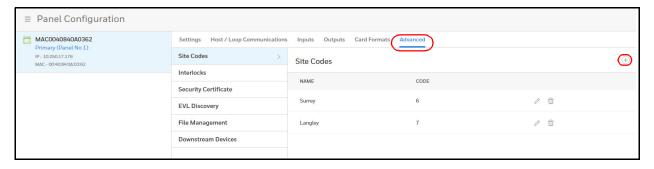
The Site Codes panel enables you to:

- Create one or more site codes.
- View existing site codes.
- Modify an existing site code.
- Delete a selected site code.

Navigate to the Settings panel:

- Dashboard > Panels > Advanced, or
- Menu > Panel Configuration > Advanced

Figure 2-34 Settings Panel

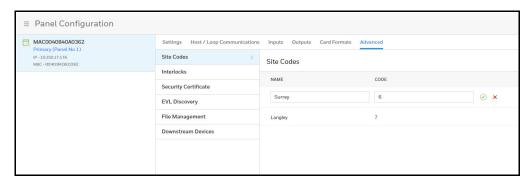


Creating a Site Code

- 1. Click (+) to enter a new site name.
- 2. Editable fields appear in the Name and Code columns.
- 3. Enter a unique name for the site code in the **Site code name** field. You can used letters, numbers, and some special characters.
- 4. Enter a unique number (up to five digits, numbers only) for the site code in the **Code** field. Valid site codes are between 1 and 65535.
- 5. Click on the check mark to the creation of the site code.
- 6. A message appears confirming that the new site has been Successfully Saved.

Modifying a Site Code

1. Click / to modify a site code.



The Name and Code fields become active.

2. Make your modifications, then click the green check mark to save.

A message appears confirming that the new site has been Successfully Updated.

Deleting a Site Code

Click in to delete a site code.

Please refer to Chapter 4

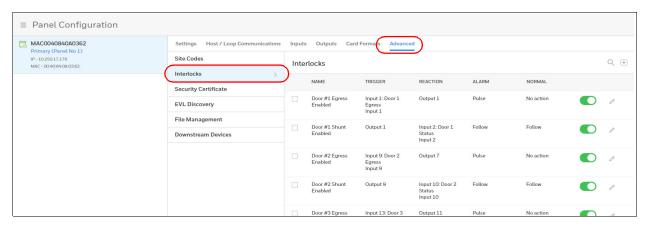
Interlock Configuration

An interlock is a programmed connection between two points. The interlock causes an input point, output point, or group of output points to act in a specified manner when another input point, output point, or group of output points changes its state. An action on the trigger point causes a reaction on the reacting component. For example, when a motion detector (input) detects movement, it causes a horn (output) to sound.

On the Interlocks pane, you can:

- Create and delete interlocks.
- Enable or disable existing interlocks.
- 1. Navigating to the Interlocks interface.
- Click Panel Configuration > Advanced > Interlocks.

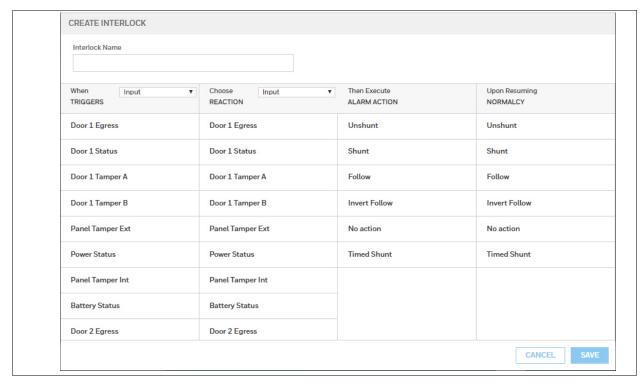
Figure 2-35 Interlocks Configuration Tab



Creating Interlocks

1. Click (+) to open the Create Interlock window.

Figure 2-36 Create Interlocks Interface



- 2. Enter a name for the new Interlock.
- 3. Select configurations for the **Triggers** (Input, Output, or Group), **Reaction** (Input, Output, or Group), **Alarm Action**, and **Normalcy** (the state to which the trigger returns).

Table 2-15

Configuration	Description	
Triggers	Specifies the input, output, or output group for which a change of state will cause a reaction from another input, output, or group.	
	If Trigger = Inputs , then triggers 1-88* will have an interlock link (Int Lnk) number from 1-96.	
	If Trigger = Outputs , then outputs 1-80* will have an interlock link (Int Lnk) number from 97-184.	
	If Trigger = Group s, then groups 1-64* will have an interlock link (Int Lnk) number from 185-250.	
	Use the drop-down list to specify the number of the input or output.	
	Additional Input/Output/Group points are achieved with the addition of NX4IN and NX4OUT secondary devices.	

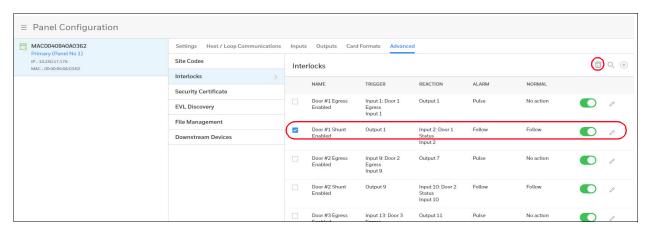
Table 2-15

Reaction Specifies the input, output, or output group that will react to a change of state from the trigger point. Use the drop-down list to specify the number of the input or output. Then Execute (Alarm Action) – Specifies the reacting component's action when the trigger's change of state occurs. Select the action from the available options. Upon Resuming (Normalcy) – Specifies the reacting component's action when the trigger returns to the normal state. Select the action from the available options. Following are the available Input Reactor actions in the drop-down lists: Unshunt – Reactivates the input point. Shunt – Ignores alarms from the input point. Follow – The reacting point (second point) takes on the same state as the triggering point (first point).	Configuration	Description	
when the trigger's change of state occurs. Select the action from the available options. Upon Resuming (Normalcy) – Specifies the reacting component's action when the trigger returns to the normal state. Select the action from the available options. Following are the available Input Reactor actions in the drop-down lists: Unshunt – Reactivates the input point. Shunt – Ignores alarms from the input point. Follow – The reacting point (second point) takes on the same state as the triggering point (first point).	Reaction	from the trigger point. Use the drop-down list to specify the number of the input	
as the triggering point (first point). No action – The reacting point (second point) does nothing in response to the state change of the triggering point (first point). No change of state.	Interlock Actions	Then Execute (Alarm Action) – Specifies the reacting component's action when the trigger's change of state occurs. Select the action from the available options. Upon Resuming (Normalcy) – Specifies the reacting component's action when the trigger returns to the normal state. Select the action from the available options. Following are the available Input Reactor actions in the drop-down lists: Unshunt – Reactivates the input point. Shunt – Ignores alarms from the input point. Follow – The reacting point (second point) takes on the same state as the triggering point (first point). Invert Follow – The reacting point (second point) does nothing in response to the state change of the triggering point (first point). No change of state. Timed Shunt – Ignores alarms from the input point for a specified amount of time. Following are the available Output Reactor actions in the drop-down lists: De-energize – Remove energy from an output point or group. On a system, the normal state of an output point or group. Output points and groups are in a normal state when they are "de-energized". An energized state means that the output or group is active. Follow – The reacting point (second point) takes on the same state as the triggering point (first point). Invert Follow – The reacting point (second point) takes on the opposite state as the triggering point (first point). No action – The reacting point (second point) does nothing in response to the state change of the triggering point (first point). No action – The reacting point (second point) does nothing in response to the state change of the triggering point (first point). No action – The reacting point (second point) does nothing in response to the state change of the triggering point (first point). No action – The reacting point (second point) does nothing in response to the state change of the triggering point (first point).	

Deleting Interlocks

1. Click to select an Interlock.

Figure 2-37 Deleting an Interlock



- 2. Click the **Delete** button . A message appears asking for confirmation.
- 3. Click OK.

Enabling/Disabling Interlocks

Downstream Devices

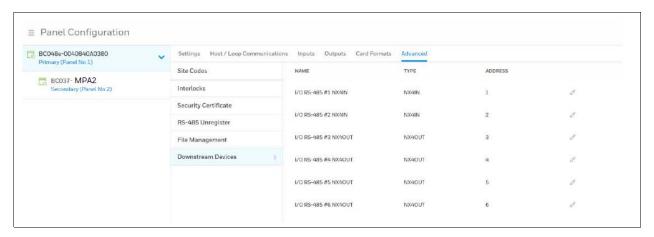
The NETAXS® I/O devices provide the MPA2C3 panels with additional inputs and outputs. The MPA2C3 panels supports two Interface types:

- NX4IN Provides 32 supervised, four-state inputs that are limited to 2.2K ohms resistance. The NX4IN must be assigned network addresses 1 and 2.
- NX4OUT Provides 2 supervised inputs and 16 SPDT relay outputs; each input is limited to 2.2K ohms resistance. The NX4OUT must be assigned network addresses 3-6.

Note: The NX4IN and NX4OUT network addresses are set by the DIP switches on each board. Refer to the NETAXS® NX4IN/NX4OUT Input/Output Configuration Guide for more information about configuring the NX4IN and NX4OUT boards.

Note: MPA2C3 panel supports a maximum of six daisy-chained Interface boards - two NX4IN and four NX4OUT boards. The boards connect to the MPA2C3 panel's RS-485 Interface Bus (J16).

Figure 2-38 Menu > Panel Configuration > Advanced > Downstream Devices



The **Downstream Devices** tab enables you to:

- View and modify the names of the devices that communicate with the panel.
- View the types and addresses of the devices that communicate with the panel.

Configuring People and Cards

Configuring People

The People tab on the People & Cards interface allows you to do the following:

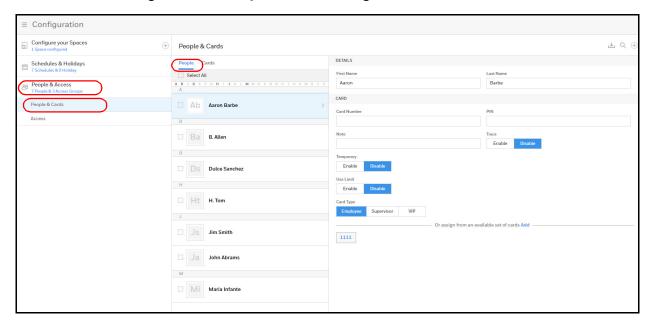
- Create a person, including assigning/adding a card.
- Modify a person.
- Delete a person.

You can configure people to have one of the following card types, with the appropriate available functionality. Select from **Supervisor**, **Employee**, and **VIP**.

Navigate to the People tab on the People & Cards window:

- Click People in the Dashboard to access the People & Cards interface, or
- Click Configuration in the Menu, then click People & Access > People & Cards.

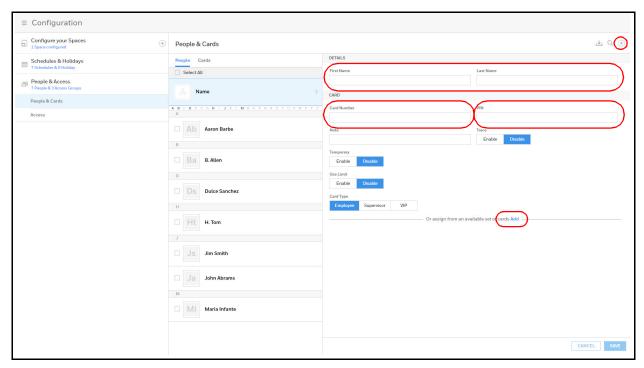
Figure 2-39 People & Cards Configuration Interface



Creating a Person

1. Click to (+) on the **People** tab to create a new user.

Figure 2-40 Creating a New Person



- 2. Enter a first and last name.
- 3. Enter a card Number.

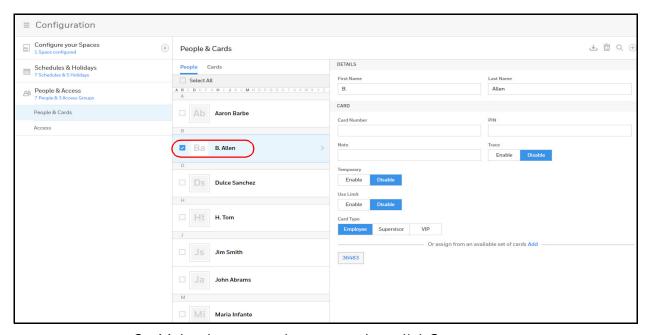
- 4. Or click **Add** near the bottom of the window to assign a card from an available set of cards.
- 5. Enter a PIN (numbers only).
- 6. Optional: Enter a note, such as Department number, phone extension, or a birthday, for example. Notes can be up to 20 characters.
- 7. Turn **Trace** on or off.
- 8. Trace provides a record of the card holder's path through the facility by sending an alarm message to the alarm monitor whenever a card with trace enabled is presented at a reader.
- 9. Select a type of Usage.
- 10. If you select **Temporary**, then you must select an end date on the calendar.
- 11. If you select **Limited**, then you must select the maximum number of times the card can be presented.
- 12. Select an **Access Type**: Employee, Supervisor, or VIP. See User Access Types and Functionality section on page 123 for more about Access Types.
- 13. Click Save.

Tip: You can assign attributes from an existing set of cards. At the bottom of the **People & Cards** window, click **Add** to open a list of available cards, then select a card to assign to this person.

Modifying a Person

1. Click the box next to the person's name.

Figure 2-41 Modifying a Person

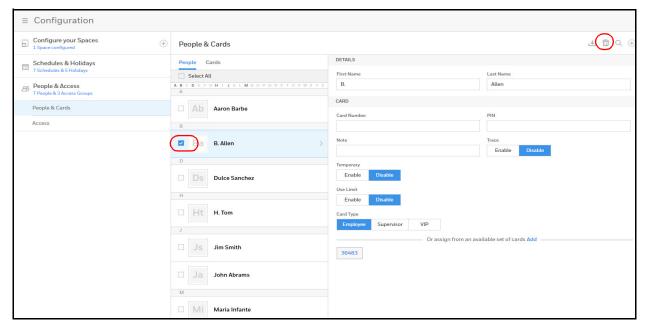


2. Make changes to the person, then click **Save**.

Deleting a Person

1. Click the box next to the person's name. A delete icon appears 👘 .

Figure 2-42 Deleting a Person



- 2. Click the delete icon. A confirmation message appears.
- 3. Click **OK** to confirm the deletion.

Configuring Cards

A card is encoded with a unique number and the person's access group grants rights to access system resources. For example, in addition to its unique number, a card allows the person access to certain doors during a certain time of day.

The Cards configuration interface allows you to:

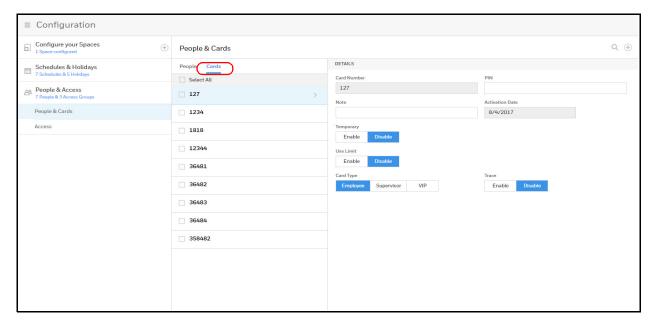
- Create cards encoded with the following information:
- Card Number(s)
- Card Type
- Personal Identification Number (PIN)
- Trace
- Expiration Date
- Use Limit
- Note

Note: People can have more than one card associated to them.

Navigate to the Cards tab on the People & Cards window:

- Click Cards in the Dashboard to access the People & Cards interface, or
- Click Configuration in the Menu, then click People & Access > People & Cards
 Cards.

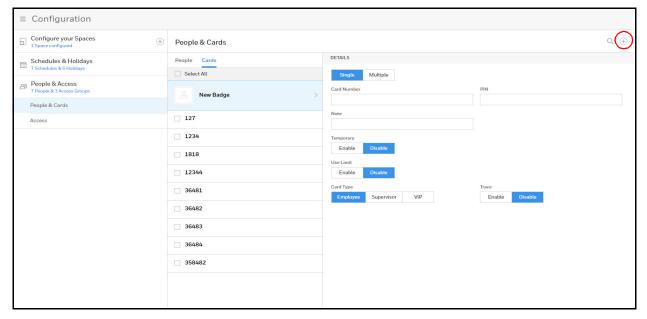
Figure 2-43 Cards Configuration Interface



Adding a New Card

1. Click in the Cards tab of the **People & Cards** window to open the configuration options.

Figure 2-44 Adding New Cards



- 2. Enter either a card number (if adding a single card) or a range (if adding multiple cards).
- 3. Enter a **PIN** if you're adding a single card. See the note on page 83 for PIN number rules.

Note: A PIN is optional; however, if the door reader is configured to require PIN identification (see Configuring Door Reader Settings on page 47), then you must create a PIN for the card holder here. The PIN has a maximum of six digits.

Note: If you are adding multiple cards, then you cannot enter a PIN/Password.

4. Turn Trace on or off.

Trace provides a record of the person's path through the facility by sending an alarm message to the **Alarm & Events screen** whenever a card with trace enabled is presented at a reader.

- 5. Select a type of **Usage**.
 - a. If you select **Temporary**, then you must select from the calendar an end date for the temporary card.
 - b. If you select **Limited**, then you must enter the maximum number of accesses granted to the temporary card, between 1 to 255.

6. Select an Card Type: Employee, Supervisor, or VIP.

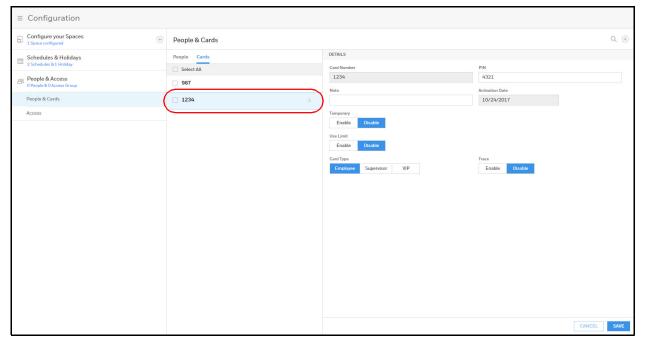
Note: Once a VIP card is added to the database, it can gain access to any door regardless of the access level. VIP card can also bypass Duress, Anti-Passback, Disabled Reader Mode, Duress, Limited Use, Lockdown Reader Mode, Site Code, and Temporary Use.

7. Click Save.

Modifying Cards

1. Click to select a card.

Figure 2-45 Modifying a Card

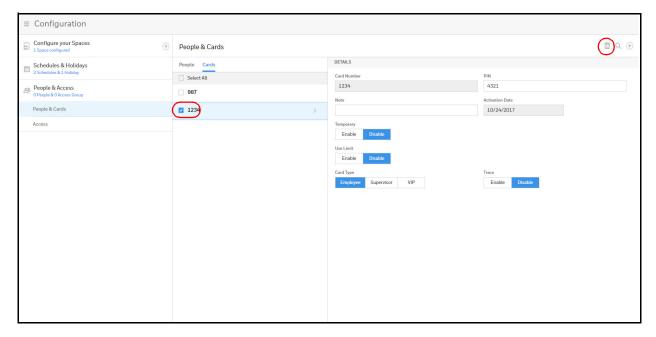


2. Make the changes to the card, then click Save.

Deleting Cards

1. Click the box next to the card. A delete icon appears 🝵.

Figure 2-46 Deleting a Card



- 2. Click the delete icon 🝵 . A confirmation message appears.
- 3. Click **OK** to confirm the deletion.

Configuring Access Groups

Every card is assigned an access group, which specifies the schedule, or time schedule, during which the card holder can be granted access at a specific door. For example, an access group embedded in an employee's card might allow the employee to enter the facility only through door 2 from 6:00 AM to 6:00 PM, Monday through Friday.

On the Access Groups panel, you can:

- Select Reader A and/or Reader B for each door. Note that if a reader is disabled, then the schedule drop down list for that reader will not be accessible.
- Create an access group.
- Modify an access group.
- Delete an access group.
- Set a Schedule for each door.

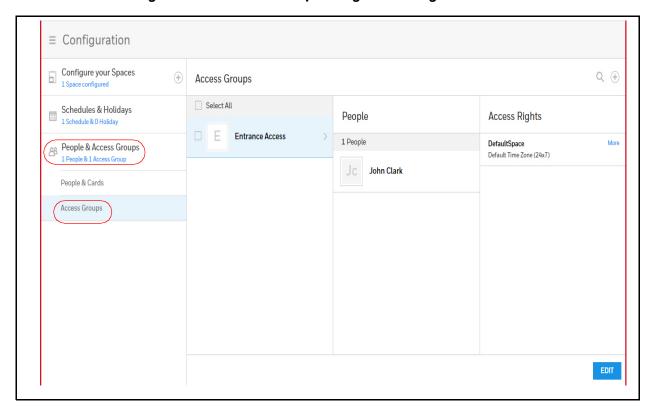
View other panels with readers in this access group.

Note: Since an access group is defined by door and schedule configurations, you must configure the door (see Configuring Doors on page 44), people (see Configuring People section on page 82), and the schedule (see Entering a Panel Name section on page 42) before configuring an access group.

To navigate to the Access Configuration page, click:

- Menu > Configuration > People & Access > Access > Create an Access Group, or
- Access Groups in the Dashboard, then Create an Access Group.

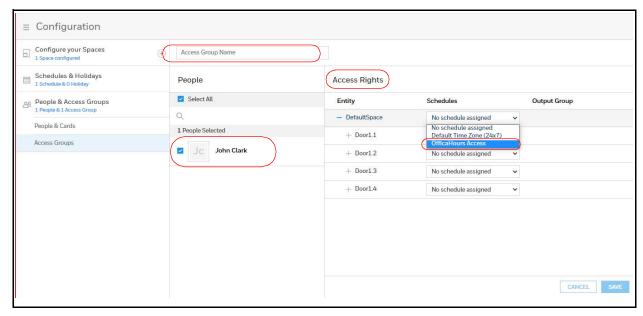
Figure 2-47 Access Group Configuration Page



Creating a New Access Group

1. Click (+) to open the new access group configuration panel.

Figure 2-48 Access Group Configuration Page



- 2. Enter a name in the Access Group name field.
- 3. Click to select **People** for this access group.
- 4. Click to expand a space/entity to show the doors and readers assigned to that space.
- 5. Click the drop-down menu to assign a schedule to that door and/or reader.
- 6. Click **Save** to save the new access group.

3

MONITORING AND REPORTING

Monitoring and Reporting

MPA2C3 allows you to monitor the following:

Alarms

Alarms are events, or system transactions, that are assigned alarm status, including invalid card reads or forced doors.

Events

Events are the recorded system transactions. For example, door statuses, database changes, invalid cards, valid cards.

Doors

Doors are a collection of inputs and outputs connected on the panel that are associated to reader(s).

Inputs

Inputs are terminals located on the panel; the inputs are wired to input devices, such as door-position switches that monitor status of a door.

Outputs

Output relays are relays located on the panel that are connected to output devices, such as a door lock or a siren.

Reports

Future release:Download a CSV file of the People and Cards Report and Alarms &(Web) Events Report. Download a Diagnostic Report as a bin file.

Note: MPA2C3 has been evaluated for standalone use only. Monitoring features are supplementary only and have not been evaluated by UL.

Monitoring

Monitoring Alarms and Events

Note: MPA2C3 is listed for access control only. No burglary applications have been investigated.

Alarms

Alarms are system-generated messages that might indicate the need for user attention. To view alarms and events, you have to navigate to the Alarms & Events window.

Events

Events are both panel- and web-generated events. Panel events include the recording of a card read by a reader. Web events include the recording of a user login.

Navigating to the Alarms & Events tab:

○ 09/01/2020 11:03:53 1

O9/01/2020 11:03:52 1

Click to open the menu, then click **Alarms & Events**. NOTE: Alarms & Events display transactions from all panels in the loop on the same page. The users do not have to go to each panel to see their individual transactions.+

 ■ Alarms & Events Showing 46 out of 46 Alarms & Events CLEAR ALL FILTERS DOWNLOAD ALARMS/EVENTS PN Cred-PIN/Site Date/Time ≡↑

Panel Number Card Holder Name 7 Device Name O9/01/2020 14:06:23 1 Time Zone Table Door1.1 Q 09/01/2020 13:32:46 1 Card Table 0 Door1.2 Door1.3 O9/01/2020 13:32:33 1 Card Table 0 admin Database update Door1.4 ○ 09/01/2020 13:32:32 1 Card Table 0 admin Access Level Device Panel Database ○ 09/01/2020 13:32:04 1 0 RESET APPLY O9/01/2020 13:32:03 1 Access Level Table Panel Database ○ 09/01/2020 13:23:19 1 Output Group Table

Panel Database

0 0 7-3

Figure 1-1 2/4-Door Alarms & Events Window

Output Table

Output Table

Table 3-1 Alarms & Events Fields

Field	Description			
Д	Event/Alarm indicator:			
-	Grey = Event			
	Gold = Alarm			
Date/Time	Indicates the date and time of the event.			
	Time sort : You can sort the events by most recent or most distant by			
	clicking the up arrow next it to Date/Time in the header			
	Date filter: You can filter by date (the last seven days, the last 30 days,			
	or custom) by clicking the filter icon \(\sqrt{n} \) next to Date/Time in the header			
Panel Number	Indicates the Panel ID if you have more than one panel in a loop.			
Device Name	Displays the name of the device that generated the alarm.			
Space	Displays the name of the space where the alarm occurred for both 2 Door and 4 Door controllers.			
	Filter by Space: You can filter alarms and events by the space by			
	clicking the filter icon prext to Space in the header.			
Severity	Indicates the importance of the event: Normal, Major, or Critical.			
	Normal : Indicates that the panel or device is back online, valid card transactions, the input is back to the normal state, or an output has been used.			
	Major : Indicates an invalid card transaction, such as card not found, invalid format, anti-passback violation, site code violation, time-zone violation.			
	Critical : Indicates that the panel or a device is offline, or that an input is in an alarm state.			
	Filter by Severity: You can filter alarms and events by the severity by			
	clicking the filter icon \(\text{\text{\text{\text{\text{\text{Severity}}}}} \) in the header.			

Table 3-1 Alarms & Events Fields

Field	Description		
Туре	Indicates the type of alarm/event, such as: Normal State Alarm State Ajar State Card Found Card Not Found Card Not Found Door Not Used Card Found Door Used Input Alarm FACP Input Alarm		
	Filter by Type : You can filter alarms and events by the type by clicking the filter icon γ next to Type in the header. There are 61 event types from which to choose.		
LN (Logical Device Number)	A unique number starting at 1 that is assigned to an alarm generating point. This number is never duplicated on a Controller. There is one exception to this: Door Readers.		
PN (Physical Device Number)	A number at the board level that is assigned to a specific alarm generating point. MPA2C3 Controller starts at 1 and goes to 8, 1-Door I/O board as a new board goes from 1 to 4, and 2-door I/O board goes from 1 to 8. System alarms, such as a reset, which are not board-specific, will report a value of 0. There is one exception to this: Door Readers.		
Cred-PIN/Site	Identifies the card number, and either the PIN or site code number of the card. Reports only events that have an invalid Card Number, invalid Site Code, or invalid PIN. Invalid Cards are reported by themselves. Invalid Site Codes and invalid PINs are reported with the card number that was presented along with them. Filter by Cred-PIN/Site: You can filter alarms and events by the Cred-PIN/Site by clicking the filter icon next to Cred-PIN/Site in the header, and then entering a card holder number.		
Card Holder Name	Reports a Card Holder name on events where the Card Number is an actual card in the system. Filter by Card Holder Name: You can filter alarms and events by the Card Holder Name by clicking the filter icon part to Card Holder Name in the header, and then entering a card holder name.		
Clear All Filters	Click to clear all display filters (Date/Time; Space; Severity; Type; Cred-PIN/Site; Card Holder Name).		
Download Alarms/Events	For generating reports. See Reporting section on page 102.		
Download Web Events	For generating reports. See Reporting section on page 102. Web Events include logins with invalid passwords and logging in/out, for example.		

Monitoring/Managing Doors

The panel supports 2 and 4 doors. The door status screen provides status for each door's egress, status, and tamper and also status of the door lock relay.

The Door Status screen enables you to:

- View the current status of each input (Normal, Alarm, Cut, Short, Unshunt/ Shunt).
- Shunt or un-shunt any input. Shunt means that the input's change of state is ignored. This way you can allow a door to be held open without signaling an alarm. The default state of an input point is "unshunted."
- Restore the input to its schedule. A schedule is a specified time period during
 which the input will be shunted and the alarm deactivated (for schedule
 management, see Configuring Time Management section on page 33).
- View the current status of each output (Engergized, De-energized).
- Pulse, energize, or de-energize the Door Lock relay.
- Restore the Door Lock to its schedule.

Monitoring Inputs

The panel supports door, panel, and auxiliary inputs. The door inputs provide egress, status, and tamper monitoring. The auxiliary inputs support any monitoring devices connected.

The Input Status screen enables you to:

- View the current status of each input (Normal, Alarm, Cut, Short, Shunt).
- Shunt or unshunt any input. Shunt an input to ignore a change of state. This way you can allow a door to be held open without falsely signaling an alarm. The default state of an input point is "unshunted."
- Restore the input to its schedule. A schedule is a specified time period during which the input will be shunted and the alarm deactivated.

Please Refer Chapter 4 for FACP Monitoring Inputs.

Navigating to the Spaces & Doors tab:

Click to open the menu, then click **Device Management**.

Figure 1-2 2- Door Device Management Window

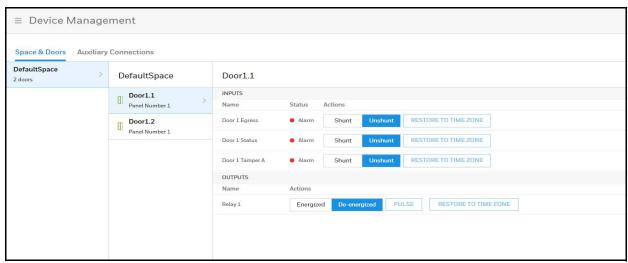
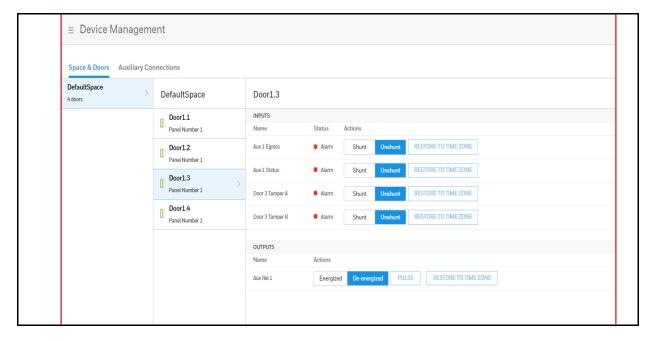


Figure 1-3 4 - Door Device Management Window



Navigating to the Auxiliary Connections-Inputs tab

Click to open the menu, then click **Device Management > Auxiliary Connections > Inputs**.

Space & Doors Auxiliary Connections

PANELS

MACO0408400DA45New

Panel Number 1

Inp. 10 Juny 1 Status

Aux 1 Egress

Aux 1 Egress

Aux 1 Status

Aux 1 Status

Aux 1 Status

Aux 2 Egress

Aux 1 Egress

Aux 2 Egress

Aux 1 Egress

Aux 2 Egress

Aux 1 Egress

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Aux 2 Egress

Aux 1 Egre

Figure 1-4 Device Management Window - Auxiliary Connections - Inputs

Shunting/Unshunting an Input

Shunt an input to manually override a schedule setting.

- 1. Click either the **Shunt** or **Unshunt** button.
- 2. Click OK.

Restoring the Schedule

- 1. Click **Restore to Schedule** to restore the input to its shunt state based on its current schedule. A window appears to confirm the action.
- 2. Click OK.

Monitoring and Controlling Outputs

An output is a device that changes state when it is energized, pulsed, or time-zone controlled. For example, a successful card read at a reader pulses a door lock. The lock changes its normally locked state to an unlocked state and the cardholder opens the door.

The panel supports one door output for each of its one to four doors. The panel also supports up to 4 additional auxiliary outputs. For example:

- Door System = 1 Door Output and 3 Aux Output + 4 additional Aux Outputs
- Door System = 2 Door Outputs and 2 Aux Outputs + 4 additional Aux Outputs
- Door System = 3 Door Outputs and 1 Aux Outputs + 4 additional Aux Outputs
- Door System = 4 Door Outputs + 4 additional Aux Outputs

Configuring Outputs

Before you can monitor outputs, they must first be configured. Outputs can be configured individually as discrete outputs (see Configuring Panel I/O and Groups section on page 46) or collectively as a group of outputs.

Note: The Pulse and Restore to Schedule buttons only function when an output or a group has a valid pulse time or a schedule assigned.

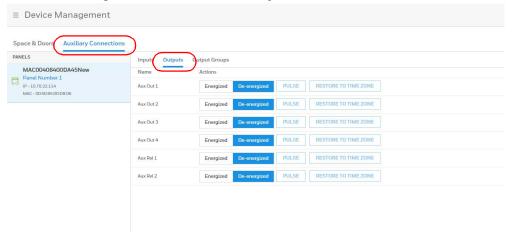
On the Outputs tab, you can do the following:

- View the current status of each output in the Discrete tab (Energized or Deenergized).
- View the current status of each group of outputs in the Groups tab.
- Energize or de-energize any output or group indefinitely.
- Pulse any output or group. This energizes the output or group for a configured period of time (see Monitoring and Controlling Outputs section on page 99).
- Restore the output to its configured schedule. A schedule is a specified time period during which the output will be energized. (see Entering a Panel Name section on page 31).

Navigating to the Auxiliary Connections-Outputs tab:

Click to open the menu, then click **Device Management > Auxiliary Connections > Outputs**.

Figure 1-5 Device Management Window - Auxiliary Connections - Outputs



Note: The Output Status screen dynamically refreshes when the output status changes.

Table 3-2 Output Management Settings

Field	Description
Energized Click to energize an output for an indefinite period of time.	
De-energized Click to de-energize an output for an indefinite period of time	

Table 3-2 Output Management Settings

Field	Description	
Pulse	Click to pulse an output for the configured period of time.	
Restore to Time Zone	Click to reset the output to follow its configured time zone.	

Monitoring and Controlling Output Group

Configuring Output Groups

Before you can monitor output groups, they must first be configured. See Configuring Panel I/O and Groups section on page 46), and select **Group** when configuring the output.

Navigating to the Auxiliary Connections-Output Groups tab:

Click to open the menu, then click **Device Management > Auxiliary Connections > Output Groups**.

Figure 1-6 Device Management - Auxiliary Connections - Output Groups

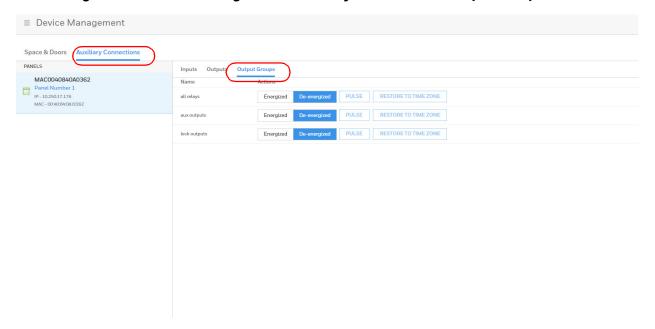


Table 3-3 Output Groups Management Settings

Field	Description	
Energized	Click to energize an output for an indefinite period of time.	
De-energized Click to de-energize an output for an indefinite period		

Table 3-3 Output Groups Management Settings

Field Description	
Pulse	Click to pulse an output for the configured period of time.
Restore to Time Zone	Click to reset the output to follow its configured time zone.

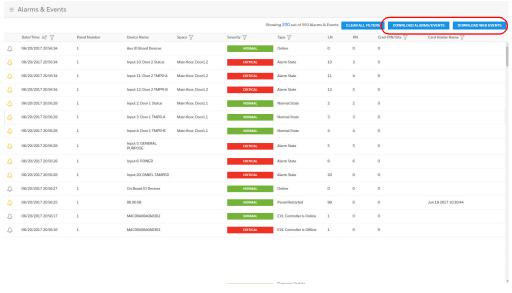
Reporting

Generating Event Reports

On the Alarms & Events window, you can download **Alarms/Events or Web events**.

1. Click to open the menu, then click Alarms & Events or Web Events.

Figure 1-7 2/4- Door Alarms & Events Window



When you click on one of the download events buttons, a dialog box pops up to advise that the file you are downloading is not secure, and that you save that file in a secure location. It then asks for you to confirm that you want to download filtered Alarms/Events or Web Events.

1. Click **OK** to confirm.

An excel spreadsheet report is generated and appears in the lower toolbar of your browser.

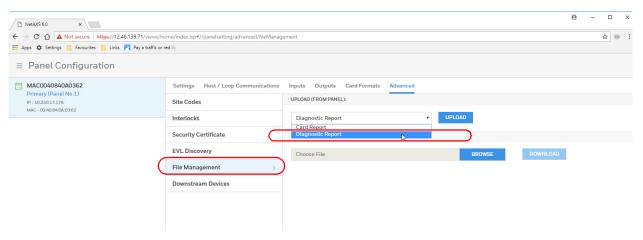
2. Click to open the report in Excel.

Generating Diagnostic Reports

In the File Management window, you can download Card and Diagnostic reports.

 Navigate to the File Management window: Click Panel Configuration > Advanced > File Management.

Figure 1-8 File Management Window

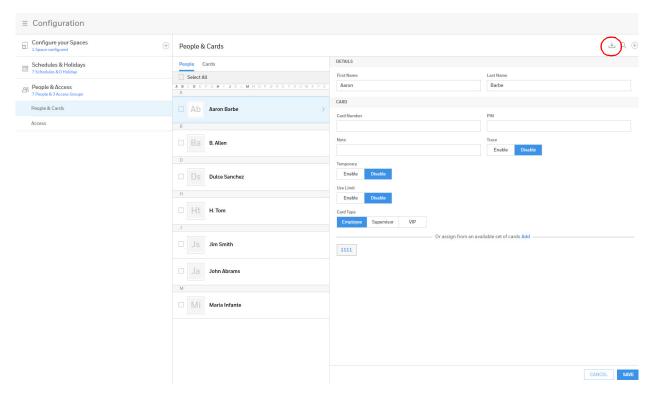


- 2. Select Diagnostic Report from the drop-down menu, then click UPLOAD.
- When you click on **UPLOAD**, a dialog box pops up to advise that the file you are downloading is not encrypted and that it might contain sensitive configuration and cardholder data. It then asks for you to confirm that you want to upload the report.
- 4. Click **OK** to confirm.
- 5. A .bin file is generated which can be saved and sent to Honeywell technical support for diagnosis.
- 6. Click to save the file in a secure location of your choice.

Generating People/Card Reports

1. Navigate to the People & Cards page: Configuration > People & Access > People & Cards.

Figure 1-9 Generating a People/Card Report



- 2. Click the download button 📥 in the top right corner.
- 3. You see a message confirming that you want to download a People/Cards report.
- 4. Click OK.
- 5. A comma-separated values (.CSV) report is generated and appears in the lower toolbar of your browser.
- 6. Click to open the report in Excel.

CHAPTER

4

FACP INPUT AND NOTIFICATION

Configuring FACP input functionality

FACP input functionality

The MPA2C3 has a dedicated fully hardware controlled FACP (Fire Alarm Control Panel) input, intended to unlock all doors when triggered with the highest priority, overriding any current access control setting.

When connected to a Fire system and there is a fire alarm, this function allows people to easily evacuate a premises and allows first responders to easily enter unlocked areas.

To make this function fully effective hardware AND software configuration need to be made on the MPA2C3.

Door Access Modes

By default the MPA2C3 is a normal access control panel, operating in Normal Door Access Mode. The operation and control of the outputs are for access control use. This mode sets the Door Relays (OUT1, OUT3 (AUX1), OUT2, OUT4 (AUX2)) in fail-secure operation.

Note: Door outputs or relays (OUT1, OUT3 (AUX1), OUT2, OUT4 (AUX2)) apply to both Push in terminal blocks and all 4 red Door/AUX RJ45 terminals.

In Normal Door Access Mode all Door Relays (OUT1, OUT3 (AUX1), OUT2, OUT4 (AUX2)) are de-energized when the door is supposed to be locked. To unlock a door the Door relay must be in energized state.

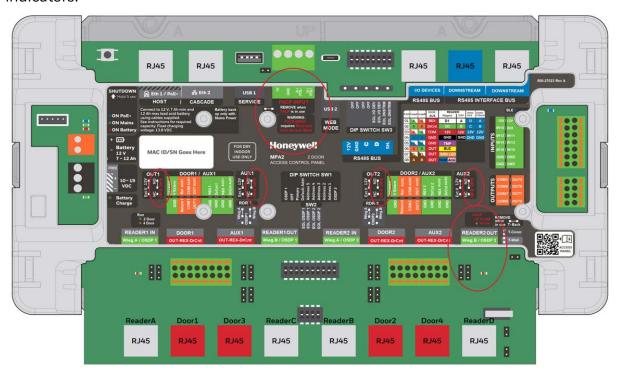
When additionally, the doors must be unlocked when e.g. a Fire Alarm occurs, then MPA2C3 panel must be in Reversed Door Access Mode. This mode sets the Door Relays (OUT1, OUT3 (AUX1), OUT2, OUT4 (AUX2)) in fail-safe operation. See further about the conditions and Door Output states in fail-safe operation.

In Reversed Door Access Mode all Door Relays (OUT1, OUT3 (AUX1), OUT2, OUT4 (AUX2)) are energized when the doors are supposed to be locked. To unlock a door the Door Relay must be in de-energized state.

Door access mode indication

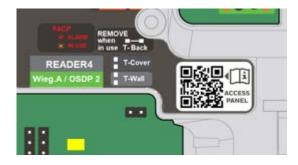
On the panel's information card Normal Door Access Mode functions are described in wording in WHITE. Where wording in RED is available at some functions (e.g. OUT / AUX R-NO/R-NC jumpers) AND Reversed Door Access Mode has been activated, then the wording in Red must be considered.

In the figure below, identify the wording in RED for Reversed Door Access Mode indicators.



When Reversed Door Access Mode is activated, the amber FACP LED is ON, indicating that FACP LED is in use.

Note: The amber FACP LED (in use) will not turn on automatically when the FACP jumper has been removed.



In the Web User Interface there are many references to Door Access Modes. In sections 4.3 and further

Door Access Modes and Door lock behaviors

The below table describes the Door Status per Normal or Reversed Door Access Mode.

MPA2C3			Fail-Secure Installation	FAIL-SAFE INSTALLATION
Scenarios			DOOR STATUS 1-4 OUT1, OUT3 (AUX1), OUT2, OUT4 (AUX2))	
PANEL DOOR ACCESS MODE			NORMAL	REVERSED
NORMAL OPERATION			LOCKED with functional operator conti	rol/ card swipes/ schedules
POWER LOSS	P R I O R I T	-	non functional operator control/ card swipes/ door schedules	UNLOCKED, non functional operator control/ card swipes/ door schedules
		FACP input idle.	LOCKED with functional operator conti	rol/ card swipes/ schedules

APPLICATION /	Fail-Secure Access Control w/ doo	r Fail-Safe Access Control w/ mag
USE CASE	strikes	locks:
	- At power loss doors will lock, - For all doors not requiring evacuati mode	- At power loss doors will unlock, ion - For inner doors, corridor doors, - Where escape route needed - First responders to easily enter
Other System Prerequisites	Use Power-to-lock Door locking devices, such as door strikes	Use Power-to-Unlock Door locking devices, such as magnetic locks

FACP input prerequisites

The MPA2C3 has a dedicated fully hardware controlled FACP (Fire Alarm Control Panel) input. When triggered the panel overrides immediately and simultaneously the 4 door outputs (OUT1, OUT3 (AUX1), OUT2, OUT4 (AUX2)) to a Fail-safe state (door unlocked state*). AUX REL 5,6,7 and 8 are NOT affected hardware wise by the FACP input. See the installation manual for FACP installation.

Note: Individual doors cannot be selected to be fail-safe or fail-secure. All door outputs are affected.

When the FACP input is activated:

- All door outputs (OUT1, OUT3 (AUX1), OUT2, OUT4 (AUX2)) are in safe condition (safe = off = unlocked door* = free egress).
- None of the door outputs (OUT1, OUT3 (AUX1), OUT2, OUT4 (AUX2)) can be controlled by card readers, egress buttons or access control software.
- There is a notification in the Web UI that the FACP input has been activated. Host software will be notified.

To achieve the above functionality the panel needs to be set to the Reversed Door Access Mode. In Reversed Door Access Mode the Door Outputs (OUT1, OUT3 (AUX1), OUT2, OUT4 (AUX2)) are reversed.

In Reversed Door Access Mode all Door Relays (OUT1, OUT3 (AUX1), OUT2, OUT4 (AUX2)) are energized when the doors are supposed to be locked. To unlock a door the Door relay must be in de-energized state.

Always test the full end to end functionality of the FACP input and the effect to the doors (not only the outputs) after the installation has been completed.

 FACP input not activated: Doors 1 to 2/4 function as access-controlled doors, using cards, egress or software/Web User Interface.

• FACP input activated: Doors 1 to 2/4 are and stay in unlocked state, and controls are not possible using cards, egress or software/Web User Interface

Note: See the MPA2C3 installation manual how to connect the Fire panel output to the MPA2C3 in chapter XYZ, and how to connect the outputs the to fail safe locking devices (power-to-lock), with the correct jumper settings of (OUT1, OUT3 (AUX1), OUT2, OUT4 (AUX2)).

Note: Jumper head on FACP jumper needs to be off when the FACP input is in use and to un-bypass the FACP input.

Note*: Fail safe locking devices (power-to-lock) are devices that unlock when power (voltage) is interrupted to the locking device. This interruption can be done by opening a NC (Normally Closed) contact of a relay (door) output via the controls of the panel or when power to the panel or to the locking device is lost. Main examples for fail safe locking devices are magnetic locks.

FACP input set up procedure- FAIL-SAFE INSTALLATION

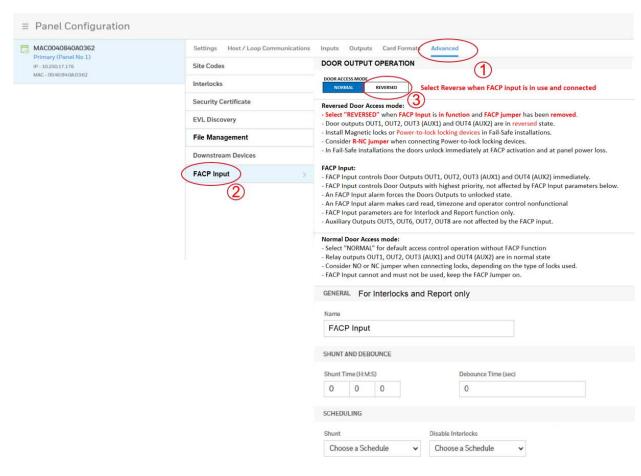
The below procedure is to create a fail-safe installation. Any diversion from these steps will make the installation not fail-safe (unlock doors at power fail and at FACP input triggered).

To make sure all door outputs are in a fail-safe mode, the panel needs to be in Reversed Door Access Mode. The are 5 steps to make the FACP input fully functional.

1. Set panel in Reversed Door Access Mode

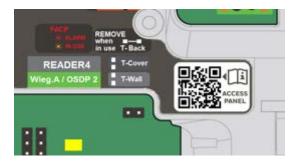
In Panel configuration/advanced/FACP Input:

- a. Go to section DOOR OUTPUT OPERATION:
- Select DOOR ACCESS MODE: REVERSED



2. Click Save

On the panel the Amber FACP LED will be ON and all Door Relays will be energized state (if the door outputs are in idle locked mode).



3. Reposition the OUT/AUX NO/NC jumper on all Outputs.

On the Panel, regard all (OUT1, OUT3 (AUX1), OUT2, OUT4 (AUX2)) relay outputs modes on the panel as reversed.

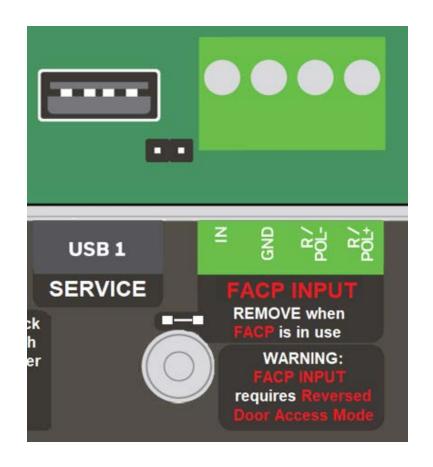
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- a. Set the Jumperhead to the Red R-NC (Normally Closed in Reversed Door Access Mode)
- b. This is the correct setting to connect power-to-lock locking devices (such as magnetic locks) to the output.



Remove the jumperhead from the FACP jumper.
 Hardware activate the FACP input on the panel and unbypass the FACP input.

Note: The amber FACP LED (in use) will not turn on automatically when the FACP jumper has been removed.



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5. Connect the fire output wiring to the FACP input.

See the installation manual for the correct wiring of the FACP input.

FACP settings for Interlocks and Reporting only

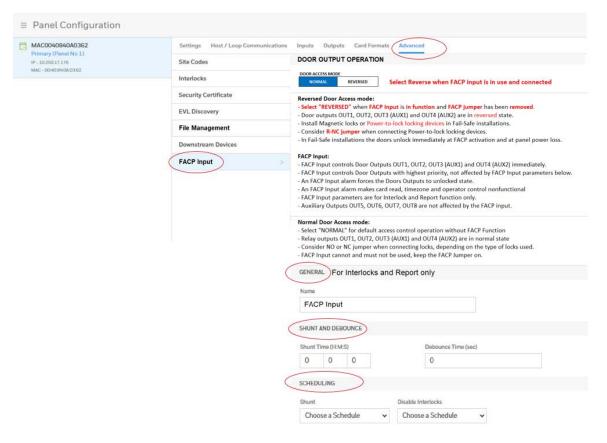
The section GENERAL, SHUNT AND DEBOUNCE and SCHEDULING have no effect on the triggered FACP input unlocking all doors at all. E.G a shunted or debounced value in this section will not shunt or delay all the door outputs to fail-safe state (de-energized)

The GENERAL, SHUNT AND DEBOUNCE and SCHEDULING sections allows you to configure the following settings:

- Input Name
- Shunt and Debounce
- Scheduling

Define the FACP input reporting features.

- Specify the FACP input shunt time, or the period of time the state of the FACP input will be ignored (only for reporting interlocking).
- Specify the FACP input debounce time, or the period of time the FACP input must remain in its new state before it is recognized as being in the new state (only for reporting).
- Specify the FACP input schedules.
- 1. In Panel configuration/advanced/FACP Input, Go to section General For Interlocks and Report only.



2. Enter an Input Name.

3. Configure Shunt and Debounce times.

Configuration	Description		
Shunt Time (h:m:s)	Specifies the amount of time for which the FACP input is		
	shunted, or de-activated for reporting/interlocking. The		
	maximum length of time is 1 hour, 45 minutes, 59 seconds.		
	You can express seconds in tenths of a second.		
Debounce Time (h:m:s)	Specifies the period of time (MIN = 0 second, MAX =		
	6553.5 seconds) the FACP input must remain in a new state		
	before generating an alarm (in reporting and for interlocking		
	only). For example, with		
	a 5-second debounce time selected, if a Normal		
	state is changed to Alarm, the state must remain in		
	Alarm for five consecutive seconds before an alarm		
	is generated.		

4. Configure Scheduling.

Configuration	Description
Shunt	Specifies the time period during which the state of the FACP
	input will be ignored for reporting.
Disable Interlocks	Specifies the time period during which the programmed
	action on the FACP input from another point will be
	disabled.

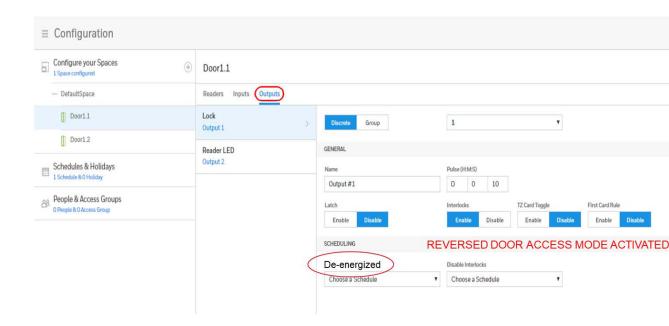
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Configurations during Reversed Door Access Mode

Because the Reversed Access Door Mode is activated, the door outputs OUT1, OUT3 (AUX1), OUT2, OUT4 (AUX2)) are in reversed state.

In Configuration/Configure your Spaces/Door/Ouputs/Scheduling, the De-Energized schedule is now to reflect the schedule to unlock the door during that schedule.

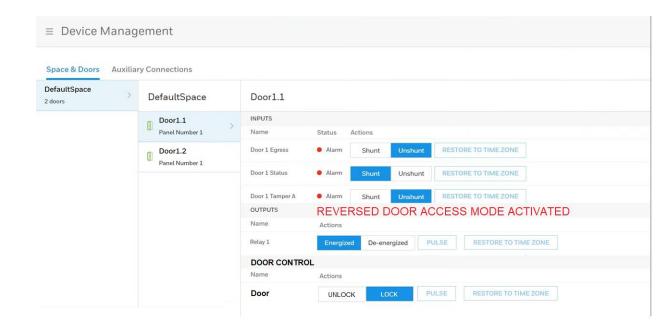
When an MPA2C3 panel is set later for Reversed Door Access Mode, then this will automatically change and scheduled. Please regard the correct locks.



Controlling Doors in Reversed Door Access Mode

Because the Reversed Access Door Mode is activated, the door outputs OUT1, OUT3 (AUX1), OUT2, OUT4 (AUX2)) are in reversed state.

In Device Management, the idle door locked state is now reflected as Door Relay Energized.



To unlock the door from the User interface in Reversed door access mode, the door relay must be set to "De-energized"

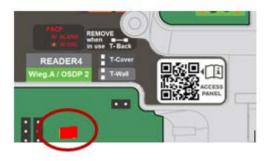
The Pulse button will de-energize the Door relay for the specified time.

The Door Control section remain the same, lock and unlock functions are reflecting the door status and not the relay status.

FACP input activation in Alarm-Notifications

Notifications on the panel

When the connected Fire alarm control panel is in alarm and the Fire panel output has activated the FACP input on the panel, on the MPA2C3 panel the RED FACP LED (Alarm) is ON. (Only for service purposes)



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Notifications in the Web User Interface

On every screen of the Web User Interface the following message will appear

%FACP input% activated.

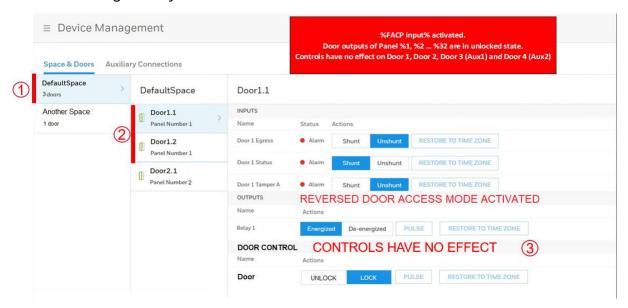
Door outputs of Panel %1, %2 ... %32 are in unlocked state.

Controls have no effect on Door 1, Door 2, Door 3 (Aux1) and Door 4 (Aux2)

%FACP Input% is the name of the input given in Panel Configuration/Advanced/FACP Input/General.

In multi panel configurations the panel numbers are indicated where the Fire input has been activated.

In Device Management you can see the below screen.



- 1. In Spaces& Doors, per Space a red indicator highlights the space where the FACP has been triggered
- 2. In the highlighted Space another red indicator highlights the doors affected by the FACP input alarm.
- 3. In Door Control a message in red wording appears:
- 4. CONTROLS HAVE NO EFFECT

Although you can change the status of the Door or Relay, these changes have no effect and the door will remain in unlocked state.

Other controls such as (Supervisor) Card swipes, Schedules and Auto-relock have no effect and the door will remain in unlocked state.

When the FACP input is back in normal condition, all applied changes will take effect, and the panel continues working as an access control panel.

MAINTENANCE

Maintenance

Overview

This chapter contains:

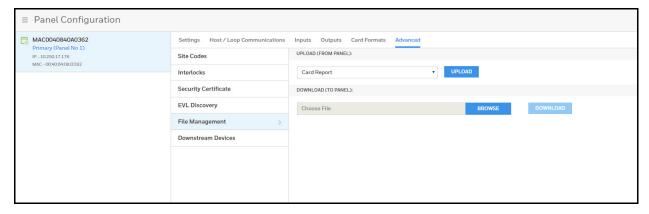
- System-wide backup
- · Panel Resets and Restorations
- Firmware Upgrades
- Primary / Secondary Panel Replacement Use Case Scenarios
- Primary / Secondary Panel Hard Default Use Case Scenarios

Backing Up

Navigate to the File Management interface:

- 1. Select a panel from the **Panel Configuration** interface.
- 2. Click Menu > Panel Configuration > Advanced > File Management.

Figure 1-1 File Management Interface



Upload (From Panel)

I. Primary Panel Upload

From the primary panel's UPLOAD menu under File Management tab, it will list following three options from drop-down list to upload from Panel,

- Diagnostic Report
- Card Report
- System-wide Backup

II. Secondary Panel Upload

From any secondary panel's UPLOAD menu, it will list following two options from drop-down list,

- Diagnostic Report
- Card Report

Backing Up (or Uploading) Other Data from the Panel to the Host System

Card Report

Uploads the Card Number, Last Name, First Name, Trace, VIP, Limited Use, Card Expiration, Temporary, Supervisor, Access Groups, Site Codes, Number of Bits, Pin, Info 1, Info 2, Schedules, Activation Date, Issue Level, APB State, and Control Device card values in a .CSV file.

Note: Card report (short and long) data is stored in a 64-bit format. Microsoft Excel displays up to 32 characters. Therefore, you should save the report and then open it in Notepad, instead of opening the report immediately in the default .CSV format in Excel.

Diagnostic Report

Troubleshooting information can be retrieved from the panel using this function. The report is not readable to the customer and is useful only as a tool to help Honeywell technical support troubleshoot certain unusual problems.

To generate a diagnostic report,

- 1. Select "Diagnostic Report" from the Upload drop-down menu on File Management screen.
- 2. Click Upload button.

3. Save the file when prompted to do so.

Note: The Diagnostic Reports saves as a .bin file.

System-wide Backup

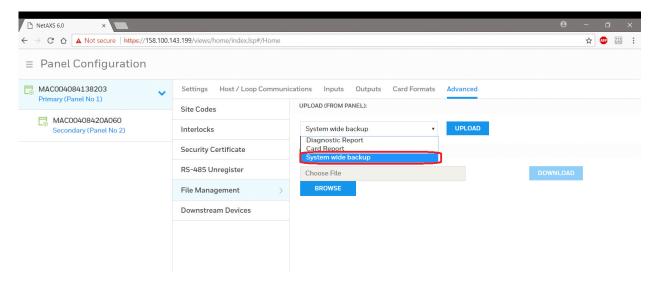
Uploads Card, Common and Panel configuration data in a proprietary internal format.

Common data includes:

- Schedules
- Cards
- Card Formats
- Holidays
- Access Group Name (access group details are panel-specific)
- Configuration (Site Codes)

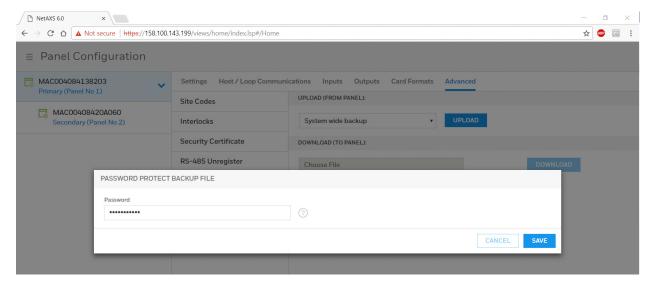
Panel-specific data includes:

- Access Group Schedule Reader Assignments
- Space/Door/Reader Configuration
- Panel Configuration (General)
- Panel Configuration (Firmware Version)
- Panel Configuration (Network) (IP addresses apply only to primary panel)
- Panel Configuration (Host/Loop Communications) (applies only to primary panel)
- Web Users (applies only to primary panel)



Taking System-wide Backup for panel(s) is only allowed from Primary (gateway) panel's file management page.

- Upon selecting system wide backup, UI will show a field to enter password
- Password Must follow rules for valid password checks need not be same as current user/admin password:



• Click save button the spinner will show while Primary panel is getting configuration data from the Secondary panels.

Note: The Backup file saves as a .bkp file.

Download (To Panel)

Following types of downloads are allowed from File Management sections

- Firmware (.bin file)
- Card Report (.csv file)
- Backup file (.bkp file)

Firmware Download

To restore (or download) firmware to a panel:

- 1. Select a Panel first, on which you want to download firmware from Panel Configuration menu.
- 2. Click Browse to locate the firmware file.
- 3. Click Download.

When the download is completed, the panel is immediately rebooted. A status bar indicates the progress of the reboot.

Downloading a Card Database Report (.CVS file) from the Host System to the Panel

- 1. Click Browse to locate the .CSV file. This .CSV file is usually the Card Report that was previously uploaded from the panel as a backup.
- 2. Click Download to download the file. If the file is in the correct report format, then this message appears:

Would you like to append or replace the database? Access Control does not function while replacing a database, and updating may take several minutes.

If the file is not in the correct report format, a message states the error condition.

If the database update is successful, this message appears: **Update Successful. Restarting Access Control.**

If the database update is not successful, a message states the error condition.

Backup file Download

Process to Restore the Entire Loop

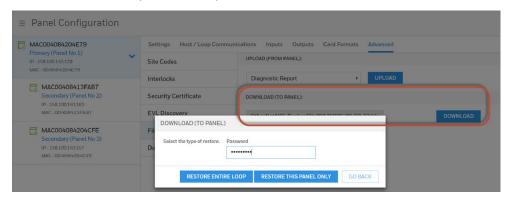
- Navigate to Primary Panel's Download option, Panel Configuration > Advanced
 File Management > Download (To Panel)
- 2. Click Browse to locate the backup file.
- 3. Click Download
- 4. Click "Restore Entire Loop"

When the restore is completed, all the panels are immediately rebooted. A status bar indicates the progress of the reboot.

Restoring (Downloading) Panel Only

- Choose the Panel you want to restore, Panel Configuration > Advanced > File Management > Download (To Panel)
- 2. Click Browse to locate the backup file.
- 3. Click Download
- 4. Click "Restore This Panel Only" Option

When the restore is completed, the panel is rebooted.



Note: Restoring any panel whose back-up info is not available in the bkp file will not be restored.

Note: During the restore process, the system will prompt for a password that must match the password that was used when the backup file was created.

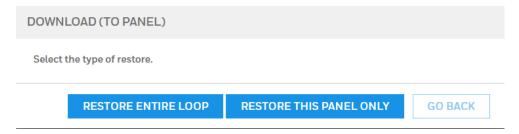
Panel only restore will restore Panel Configuration data for the specific panel and the Restore Entire Loop option will restore Card, Common and Panel Configuration data to each panel in the loop.

Backup files with a different loop configuration (i.e. EVL) should not be used to restore a loop with the other type of configuration (i.e. RS-485).

Off-line panels while taking back-ups or restores will not be serviced.

Restoring any panel whose back-up info is not available in the bkp file will not be restored.

Restoring (Downloading) Entire Loop



- 1. Click **Browse** to locate the firmware file.
- 2. Click Immediate.
- 3. Click Download.

When the download is completed, the panel is immediately rebooted. A status bar indicates the progress of the reboot.

(v)

Download to gateway panel complete;

now processing the image.!!DO NOT
REMOVE POWER WHILE FIRMWARE
UPGRADE IS IN PROGRESS!!

Synchronizing a New Panel with Information on an Existing Panel

No special operation is required. For any new secondary panel added in a loop, Primary Panel will push card and common configuration to the new panel so basic databases will already be synced up once panel is detected/added.

Note: Synchronization will occur when adding a new panel in a loop or after upgrade from Rev 5 or lower firmware.

The secondary panel will reboot after the panel is synchronized.

Primary panel to the Secondary panel synchronization occurs at the time the Secondary panels are "Registered" with the Primary and will include the common data.

Replace a Primary Panel in an Existing Loop (Web Mode)

Overview

Details the steps to replace a MPA2C3C3 "Primary" panel with existing "Secondary" panels wired via RS-485 or Ethernet Virtual Loop (EVL). The System Wide Restore in the Primary is required with an existing backup.

Primary Panel Replacement and System Wide Restore

IMPORTANT: Ensure a "System Wide Backup" is performed prior to replacing the Primary Panel.

- Step 1. Power up the "New" Primary panel and log into the Web Interface.
- Step 2. Hard Default the "Secondary" panels as they are bound to the original Gateway panel.

Step 3. Navigate to the "Advanced" Tab of the primary panel:

RS-485 Installations: Secondary panels will automatically register with the Gateway.

Confirm the secondary panels are registered.

EVL Installations: Requires Manual Registration of the Secondary Panels.

Navigate to the EVL Discovery and "Register" the Secondary Panels.

IMPORTANT: In order to proceed to Step #4 please wait for all panels to be synchronized. Refer to the "Synchronization Detail Chart"

Step 4. Select the "Restore Entire Loop" option from the "System Wide Backup" once all of the Secondary panels are registered with the Primary.

• Refer to the "Restore Entire Loop Detail Chart"

Replace a Secondary Panel (Web Mode)

Overview

Details the steps to replace a MPA2C3C3 "Secondary" panel in an existing loop of either a wired via RS-485 or Ethernet Virtual Loop (EVL) in Web Mode.

Secondary Panel Replacement and Synchronization

- Step 1. Un-register the original Secondary panel in the Primary panel. Navigate
 - RS-485 Unregister Tab: Panel Configuration > Advanced > RS-485 Unregister.
 - EVL Tab: Menu > Panel Configuration > Advanced > EVL Discovery.
- Step 2. Install the replacement Secondary panel in the loop.
- Step 3. Navigate to the "Advanced" Tab of the primary panel:
 - RS-485 Installations: Secondary panels will automatically register with the Gateway.
 - Confirm the secondary panels are registered.
 - **EVL Installations:** Requires Manual Registration of the Secondary Panels.
 - Navigate to the EVL Discovery and "Register" the Secondary Panels.

IMPORTANT: In order to proceed to Step #4 please wait for the Secondary panel to be synchronized. Refer to the "Synchronization Detail Chart"

- Step 4. Program and add the new Secondary panels doors into the "Spaces".
- Step 5. Program the custom settings for Readers, Input Points and Output Points.
- Step 6. Perform a "System Wide Backup" when programming is complete.

Hard Default a Primary in an Existing Loop (Web Mode)

Overview

Details the synchronization process of a MPA2C3C3 "Primary | Secondary" panel after hard defaulting an existing "Primary" Panel in a loop of either a wired via RS-485 or Ethernet Virtual Loop (EVL) in Web Mode.

Primary | Secondary Panel Synchronization (Hard Default)

IMPORTANT: Ensure a "System Wide Backup" is performed prior to Hard Default of the Primary Panel.

- Step 1. Perform a hard default and log into the Web Interface.
- Step 2. Navigate to the "Advanced" Tab of the primary panel:
- RS-485 Installations: Secondary panels will automatically register with the Gateway.
 - Confirm the secondary panels are registered.
- **EVL Installations:** Requires Manual Registration of the Secondary Panels.
 - Navigate to the EVL Discovery and "Register" the Secondary Panels.

IMPORTANT: In order to proceed to Step #3 please wait for all panels to be synchronized. The Synchronization will remove the Common Database from the Secondary panels. Refer to the "Synchronization Detail Chart"

Step 3. Select the "Restore Entire Loop" option from the "System Wide Backup" once all of the Secondary panels are registered with the Primary. Refer to the "Restore Entire Loop Detail Chart"

Hard Default an Existing Secondary Panel (Web Mode)

Overview

This section details the synchronization process of a MPA2C3 "Primary | Secondary" panel after hard defaulting an existing "Secondary" Panel in a loop of either a wired via RS-485 or Ethernet Virtual Loop (EVL) in Web Mode.

Primary | Secondary Panel Synchronization (Hard Default)

- Step 1. Perform a System Wide Backup
- Step 2. Perform a hard default of the Secondary panel.
- Step 3. Un-register the original Secondary panel in the Primary panel. Navigate to:
 - RS-485 Unregister Tab: Panel Configuration > Advanced > RS-485 Unregister.

Step 4. Navigate to the "Advanced" Tab of the primary panel:

- **RS-485 Installations:** The Secondary panel will automatically register with the Gateway.
 - Confirm the secondary panels are registered.
- **EVL Installations:** Requires Manual Registration of the Secondary Panel.
 - Navigate to the EVL Discovery and "Register" the Secondary Panels.

IMPORTANT: In order to proceed to Step #5 please wait for the Secondary panel to be synchronized. Refer to the "Synchronization Detail Chart"

Note: The RS-485 Secondary panels will automatically register with the primary panel and for Ethernet Virtual Loop (EVL) a manual registration is required.

Step 5. Restore the System Wide Backup and select the "Restore this panel only" option.

(If a backup hadn't been performed the Panel-specific Data will need to be re-programmed.)

• Refer to the "Restore Entire Loop Detail Chart"

Synchronization Detail Chart

Synchronization

Primary panel to the Secondary panel synchronization occurs at the time the Secondary panels are "Registered" with the Primary.

The Synchronization only occurs at the time of panel registration and will include Common Data.

The Secondary panel will reboot after synchronization.

Example:

Primary to Secondary Synchronization in following order with (3) Secondary Panels:

- 1. The 1st Secondary panel will receive the backup and reboot.
- 2. The 2nd Secondary panel will receive the backup and reboot
- 3. The 3rd Secondary panel will receive the backup and reboot.

Common data includes:

- Schedules
- Cards
- Card Formats

- Holidays
- Access Group Name (access group details are panel-specific)
- Configuration (Site Codes)

Access control behavior during synchronization

- Primary Panel access control not affected.
- Newly registered secondary panels will show online in Web Interface and will keep its existing card and common config. Once common data received, secondary's access control and communication processes stop running and the existing common data will be overwritten by new one from primary. Once the common data is received the Secondary panel will reboot.
- Approximately 4 minutes for secondary panel access control to function after registration and synchronization.

Restore Entire Loop Detail Chart

System Wide Backup Restore

Primary panel to the Secondary panel downloads the following:

- Common Data
- Panel-specific data

Example:

System Restore in the following order with (3) Secondary Panels:

- 1. The 1st Secondary panel will receive the backup and reboot.
- 2. The 2nd Secondary panel will receive the backup and reboot
- 3. The 3rd Secondary panel will receive the backup and reboot.
- 4. The Primary panel will receive the backup and reboot

Common data includes:

- Schedules
- Cards
- Card Formats
- Holidays
- Access Group Name (access group details are panel-specific)
- Configuration (Site Codes)

Panel-specific data includes:

- Access Group Schedule Reader Assignments
- Space/Door/Reader Configuration
- Panel Configuration (General)
- Panel Configuration (Firmware Version)
- Panel Configuration (Network) (IP addresses apply only to primary panel)
- Panel Configuration (Host/Loop Communications) (applies only to primary panel)
- Web Users (applies only to primary panel)

Important Points to Note:

System Wide Backup will backup both Card Data and Panel-specific Data with "All" panels on-line. If a Secondary panel is off line the System Wide Backup will not backup the Secondary Panel-specific data.

If the Secondary panel comes back on line the panel will not be serviced at the time of the restore.



The "Panel Only" restore will only restore "Panel-specific data" to the particular panel.

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Panel Resets and Restorations

DIP Switch Settings

MPA2C3 SW1 DIP Switch Settings.

S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	Selection
OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF	ON	OFF	Factory Settings
OFF										Reader 1 and Reader 3 = Wiegand
ON										Reader 1 and Reader 3 = OSDP (OSDP 1)
	OFF									Future Use - set to OFF
		OFF								Downstream/Secondary Panel
		ON								Master/Primary Panel
			OFF							Uses the User Provided Ethernet IP Address
			ON							Uses the Default IP Address(192.168.1.150)
				OFF	OFF	OFF	OFF	ON		Address 1
				OFF	OFF	OFF	ON	OFF		Address 2
				OFF	OFF	OFF	ON	ON		Address 3
				OFF	OFF	ON	OFF	OFF		Address 4
				OFF	OFF	ON	OFF	ON		Address 5
				OFF	OFF	ON	ON	OFF		Address 6
				OFF	OFF	ON	ON	ON		Address 7
				OFF	ON	OFF	OFF	OFF		Address 8
				OFF	ON	OFF	OFF	ON		Address 9
				OFF	ON	OFF	ON	OFF		Address 10
				OFF	ON	OFF	ON	ON		Address 11
				OFF	ON	ON	OFF	OFF		Address 12
				OFF	ON	ON	OFF	ON		Address 13
				OFF	ON	ON	ON	OFF		Address 14
				OFF	ON	ON	ON	ON		Address 15
				ON	OFF	OFF	OFF	OFF		Address 16
				ON	OFF	OFF	OFF	ON		Address 17
				ON	OFF	OFF	ON	OFF		Address 18
				ON	OFF	OFF	ON	ON		Address 19
				ON	OFF	ON	OFF	OFF		Address 20
				ON	OFF	ON	OFF	ON		Address 21
				ON	OFF	ON	ON	OFF		Address 22
				ON	OFF	ON	ON	ON		Address 23
				ON	ON	OFF	OFF	OFF		Address 24
				ON	ON	OFF	OFF	ON		Address 25
				ON	ON	OFF	ON	OFF		Address 26
				ON	ON	OFF	ON	ON		Address 27
				ON	ON	ON	OFF	OFF		Address 28
				ON	ON	ON	OFF	ON		Address 29
				ON	ON	ON	ON	OFF		Address 30
				ON	ON	ON	ON	ON		Address 31*
									OFF	Reader 2 and Reader 4 = Wiegand
									ON	Reader 2 and Reader 4 = OSDP (OSDP 2)

1. DIP Switch SW1 bit 4 does NOT require a panel reboot to take effect. This does not affect the USB2 - WEB MODE IP address.

Note: A Primary panel (SW1 bit 3 ON) cannot be set to address 31.

MPA2C3 SW2 DIP Switch Settings

Bit1	Bit2	Bit3	Bit4	Section
OFF	OFF			No EOL resistor for OSDP 1 (Door 1 & 3)
ON	ON			EOL resistor for OSDP 1 (Door 1 & 3)
		OFF	OFF	No EOL resistor for OSDP 2 (Door 2 & 4)
		ON	ON	EOL resistor for OSDP 2 (Door 2 & 4)

MPA2C3 SW3 DIP Switch Settings

Bit 1	Bit 2	Bit 3	Bit 4	Bit 5	Bit 6	Bit 7	Bit 8	Selection
OFF	OFF	OFF	OFF					Future Use - always in OFF position
				OFF	OFF			NO EOL resistor for RS485 bus I/O Devices (default)
				ON	ON			EOL resistor for RS485 bus I/O Devices
						OFF	OFF	NO EOL resistor for RS485 bus Downstream panels (default)
						ON	ON	EOL resistor for RS485 bus Downstream panels

Note: When you use the DIP switches to reset a panel to the original factory default values, the Event History is lost and any customized databases are removed. So the panel is reset with the original factory default database. This does not affect the Ethernet IP address.

Note: Door 3 and Door 4 is applicable for 4 door panels.

Restoring the Panel to Factory Default Settings

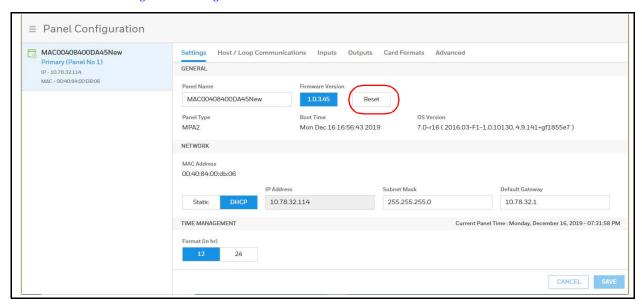
- 1. Make a note of the existing settings on SW1 DIP switches.
- 2. While the panel is powered up, turn all of the DIP switches to the OFF position.
- 3. Power down; then power the panel back up.
- 4. Wait for the panel to come up. The **RUN LED** should flicker fast.
- 5. Set the DIP switches back to their original positions.

- 6. Power down; then power the panel back up. The RUN LED should flash normal.
- 7. The panel is now reset to the original factory default values.

Resetting the Panel

- 1. Navigate to the **Settings** panel:
 - Dashboard > Panels > Settings, or
 - Menu > Panel Configuration > Settings.

Figure 1-2 Settings Panel



2. Click Reset.

Click **OK** to reboot the panel.

Firmware Upgrades

Panel Requirements

MPA2C3 panels must first be upgraded to latest firmware. See the release notes for more information.

Note: The secondary (downstream) EVL panels should be upgraded first, and then the primary (MASTER).

Overview

The following procedures provide step-by-step instructions for upgrading the MPA2C3 controller.

Upgrading the firmware can involve the following actions:

- Backing up the database from each panel
- Updating the panel firmware (Application only)
- Updating the panel firmware (OS + Application)

IMPORTANT: Recommend to back up the database before and after the firmware upgrade.

Planning for the Firmware Upgrade

Note: The Secondary panels must be upgrade first in any order and then upgrade the Primary panel last.

The Secondary panel Firmware upgrade through panel web page is not recommended. Refer the below two sections to upgrade the Secondary panels.

For primary panel, plan 5-7 minutes (approximately) to upgrade the **Application only** and for **OS** + **Application** plan for 10 to 15 minutes (approximately). In order to reduce the time required to install this version on your "Secondary" panel, each panel can be removed from the loop and configured as a "Primary" panel (disconnect the RS-485 before making it a Primary) by following these steps:

RS-485 Drop line:

- Step 1. Configure Secondary panels as Primary and manually "Reboot"
- Step 2. Upgrade the firmware
- Step 3. Configure the panels back to Secondary and manually "Reboot"
- Step 4. Upgrade the Firmware in the Primary
- Step 5. Confirm Secondary panels are line with the Primary

Note: If a Secondary panel doesn't come on line with the primary perform a manual "Reboot" of the Secondary panel.

Ethernet Virtual Loop (EVL):

- Step 1. "Unregister" the Secondary panels
- Step 2. Configure Secondary panels as Primary and manually "Reboot"
- Step 3. Upgrade the firmware
- Step 4. Configure the panels back to Secondary and manually "Reboot"
- Step 5. "Re-register" Secondary panels manually in the Primary panel

Remember to return their configuration back to a downstream panel once the upgrade has been successfully completed.

The firmware and Operating System (OS) can be downloaded from the Honeywell Download Center at the following site: https://mywebtech.honeywell.com/.

Updating the MPA2C3 Panel Using the Web Interface

Step 1: Installing the new App File

- Navigate to the web server Panel Configuration > Advanced > File Management > Upload (To Panel).
- 2. Under **Download (To Panel)** click **Browse** to locate the application bin file.
- 3. Select the file and click **Download**. Click **OK** to continue. Once the "Download to primary panel complete; now processing the image" message pops up, click **OK** again.
- 4. You will see the **Download** to primary panel complete; now processing the image message once again. Click **OK**. This time a reboot will be triggered and you will see the message: "The Panel is now rebooting. Wait 5-7 minutes, then click Refresh and log back in."

Step 2: Installing the new OS File + Application

Note: This procedure is not necessary if the panels are already at the latest OS.

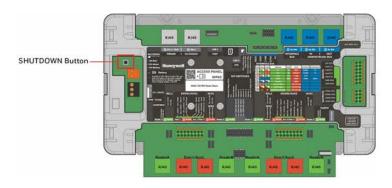
- Navigate to the web server Panel Configuration > Advanced > File Management > Upload (To Panel).
- 2. Under Download, click Browse to locate the latest OS + Application file.
- 3. Select the file and click **Download**. Click **OK** to continue. Once the "Download to primary panel complete; now processing the image" message pops up, click **OK** again.
- 4. You will see the "Download to primary panel complete; now processing the image message" once again. Click **OK** to continue. This time a reboot will be triggered. It will take approximately **10 to 15 minutes** for the OS + Application to complete the install.
- 5. Clear Cache and Cookies: This time, before logging back in, use the browser-dependent steps found in *Clearing the Cache and Cookies in the Internet Browsers Used by the MPA2C3 Web Server*, to clear your browser cache and cookies. You can navigate away from the current web screen, clear the files, and then navigate back.

Step 3: Verifying that the Installed Versions are Correct

- 1. Navigate back to the web server **Menu > Panel Configuration > Settings**.
- 2. In the Firmware Version section, you should see the latest application versions listed as 1.0.3.x. In the Operating System section, you should see the latest OS version.
- 3. If you notice any communication issues, and the upgrades are complete, typically this means there is more than one panel set up as a primary on the active loop. You should disconnect each panel from the 485 loop (C-TB9), and cycle power on all the panels on the loop. Once all panels are powered up, reconnect the 485 loop to clear the issue.

After upgrading a MPA2C3 panel, you must clear your browser's cache. See *Clearing the Cache and Cookies in the Internet Browsers Used by the MPA2C3 Web Server* for details.

Shutting Down and Restart the Panel



The SHUTDOWN button allows you to shut down the control panel securely. This ensures that the system can save all necessary data and status in the flash memory. Shutting down the panel disables the inputs/outputs, turns OFF the peripheral bus, AUX outputs and the PTCs. However, it cannot remove power from the panel (from the AC power adapter or the batteries).

Shutdown the control panel:

- 1. Press the SHUTDOWN button for 5 seconds.
- 2. Running LED is off, Panel is shut down (hibernate state).

Note: After shutdown the power is not removed from the panel, to restart the panel, please press Shutdown button shortly (NOT 5 Seconds)

Note: To completely power off the control unit,

- a. When the unit is powered by PSU, first disconnect the battery cable and then disconnect the AC power cable.
- b. When the unit is powered by PoE+, disconnect the PoE+ cable.

Restart the Panel

Note: Before powering up the access control unit, ensure that the access control unit is

properly wired to the readers, doors, interface bus and downstream devices. Ensure the DIP Switches and jumpers are set for the corresponding readers.

- 1. Apply Mains power first, then connect the back-up battery or connect PoE+ power to the panel.
- 2. Check the status of Running LED.
- Green blinking license is correct and application is running for a 2 door system
- Amber blinking license is correct and application is running for a 4 door system

Note: If only the battery is connected to the panel without the mains power, then the panel will not start.

To restart the control panel

Note: Before powering up the access control unit, ensure that the access control unit is properly wired.

- 1. Apply the PoE+ power to the panel or apply the power via PSU with a battery backup to the panel.
- 2. Check the status of Heartbeat LED.
- The Heartbeat LED blinks in green for 2-door panels, or
- The Heartbeat LED blinks in orange for 4-door licensed panels.

Note: You can also use the ASCII command _I=pn_R to reset a panel to the original factory default values, but this command only removes the customized databases and restores the original factory default database. The Event History is retained

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6

FIRMWARE UPGRADES

Panel Requirements

MPA2C3 panels must first be upgraded to latest firmware. See the release notes for more information.

Note: The secondary (downstream) EVL panels should be upgraded first, and then the primary (MASTER).

Overview

The following procedures provide step-by-step instructions for upgrading the MPA2C3 controller.

Upgrading the firmware can involve the following actions:

- · Backing up the database from each panel
- Updating the panel firmware (Application only)
- Updating the panel firmware (OS + Application)

IMPORTANT: Recommend to back up the database before and after the firmware upgrade.

Planning for the Firmware Upgrade

Note: The Secondary panels must be upgrade first in any order and then upgrade the Primary panel last.

The Secondary panel Firmware upgrade through panel web page is not recommended. Refer the below two sections to upgrade the Secondary panels.

For primary panel, plan 5-7 minutes (approximately) to upgrade the **Application only** and for **OS** + **Application** plan for 10 to 15 minutes (approximately). In order to reduce the time required to install this version on your "Secondary" panel, each panel can be removed from the loop and configured as a "Primary" panel (disconnect the RS-485 before making it a Primary) by following these steps:

RS-485 Drop line:

- Step 1. Configure Secondary panels as Primary and manually "Reboot"
- Step 2. Upgrade the firmware
- Step 3. Configure the panels back to Secondary and manually "Reboot"
- Step 4. Upgrade the Firmware in the Primary
- Step 5. Confirm Secondary panels are line with the Primary

Note: If a Secondary panel doesn't come on line with the primary perform a manual "Reboot" of the Secondary panel.

Ethernet Virtual Loop (EVL):

- Step 1. "Unregister" the Secondary panels
- Step 2. Configure Secondary panels as Primary and manually "Reboot"
- Step 3. Upgrade the firmware
- Step 4. Configure the panels back to Secondary and manually "Reboot"
- Step 5. "Re-register" Secondary panels manually in the Primary panel

Remember to return their configuration back to a downstream panel once the upgrade has been successfully completed.

The firmware and Operating System (OS) can be downloaded from the Honeywell Download Center at the following site: https://mywebtech.honeywell.com/.

Updating the MPA2C3 Panel Using the Web Interface

Step 1: Installing the new App File

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- 2. Under **Download (To Panel)** click **Browse** to locate the application bin file.
- 3. Select the file and click **Download**. Click **OK** to continue. Once the "Download to primary panel complete; now processing the image" message pops up, click **OK** again.
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Step 2: Installing the new OS File + Application

Note: This procedure is not necessary if the panels are already at the latest OS.

- Navigate to the web server Panel Configuration > Advanced > File Management > Upload (To Panel).
- 2. Under **Download**, click **Browse** to locate the latest **OS + Application** file.
- 3. Select the file and click **Download**. Click **OK** to continue. Once the "Download to primary panel complete; now processing the image" message pops up, click **OK** again.
- 4. You will see the "Download to primary panel complete; now processing the image message" once again. Click **OK** to continue. This time a reboot will be triggered. It will take approximately **10 to 15 minutes** for the OS + Application to complete the install.
- 5. Clear Cache and Cookies: This time, before logging back in, use the browser-dependent steps found in *Clearing the Cache and Cookies in the Internet Browsers Used by the MPA2C3 Web Server*, to clear your browser cache and cookies. You can navigate away from the current web screen, clear the files, and then navigate back.

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- 3. If you notice any communication issues, and the upgrades are complete, typically this means there is more than one panel set up as a primary on the active loop. You should disconnect each panel from the 485 loop (C-TB9), and cycle power on all the panels on the loop. Once all panels are powered up, reconnect the 485 loop to clear the issue.

After upgrading a MPA2C3 panel, you must clear your browser's cache. See *Clearing* the Cache and Cookies in the Internet Browsers Used by the MPA2C3 Web Server for details.

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7

CACHES AND CERTIFICATES

Caches

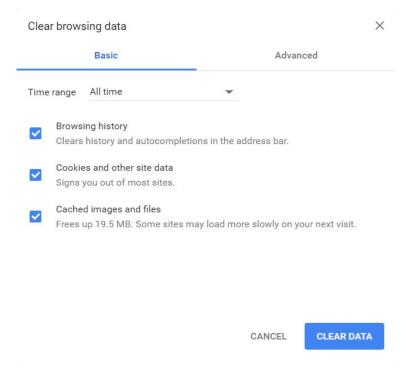
Clearing the Cache and Cookies in the Internet Browsers Used by the MPA2C3 Web Server

The MPA2C3 supports Google Chrome. It is recommended that the cache be cleared following a successful upgrade.

Note: After upgrading a MPA2C3 panel, you must clear your browser's cache.

- 1. Open your Chrome browser and click the menu button (three vertical dots) in the top right corner of the browser window.
- 2. Select Settings to display the settings screen.

 Click the Advanced link at the bottom of the Settings screen to display the Clear Browsing Data screen:



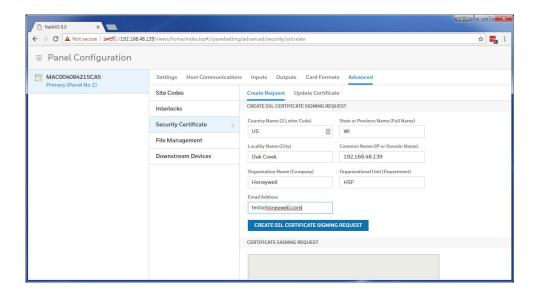
- Ensure that the selections pictured in the above image are chosen.
- 3. Click CLEAR DATA.

Generating and Installing Certificates

Section 1 - Generating sign-in request and installing certificates

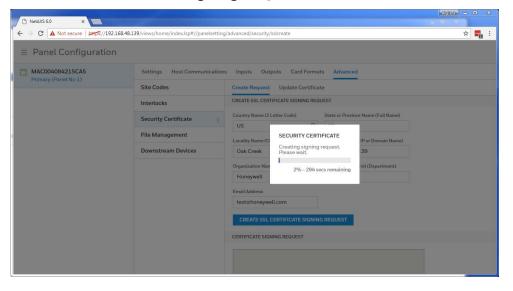
In order to have Google Chrome display the panel as secure, it's necessary to

- 1. Generate a signing request.
- 2. The Certificate Authority provides two types of certificates:
- 3. Certificate to be installed in the panel.
- 4. Master certificate to be installed in the browser(s).
- 5. Install the certificate in the panel.
- 6. Install the master certificate into the browser.



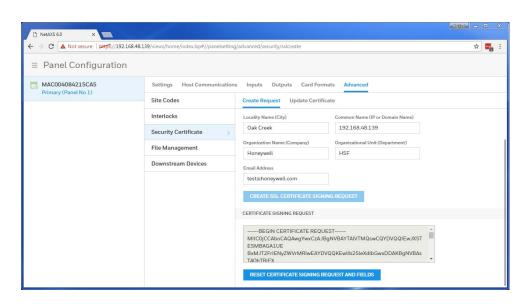
Go to **Advanced Menu > Security Certificate** tab. **Create Request** will be selected at the top of the pane. Fill in the fields as shown above. Make sure that the panel IP address is in the common name field.

Select Create TLS Certificate Signing Request.



-----BEGIN CERTIFICATE REQUEST----MIICOJCCAboCAQAwgYwxCzAJBgNVBAYTAIVTMQswCQYDVQQIEwJXST
ESMBAGA1UE

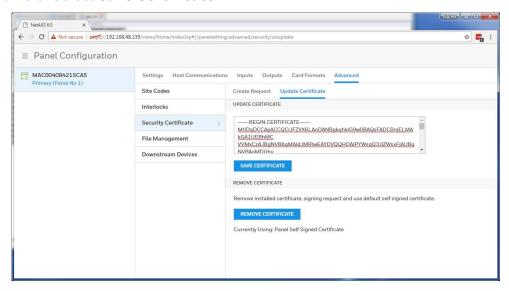
You will then note that there is text in the Certificate Signing Request field.

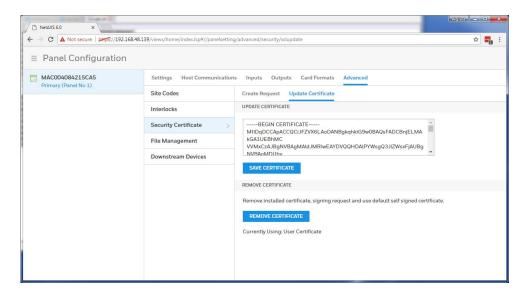


Copy all of the text out of this field and send it to the signing authority of your choice.

You will receive a signed certificate (also in text format).

Navigate to the **Update Certificate** pane and paste the certificate into the designated field. Select **Save Certificate**.



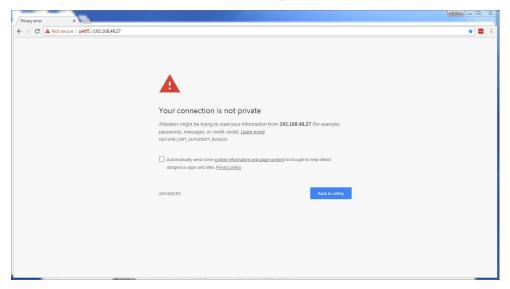


When the save is complete you will notice that the text at the bottom of the page reports "Currently using: User Certificate."

Section 2 - Installing the master certificate into the browser

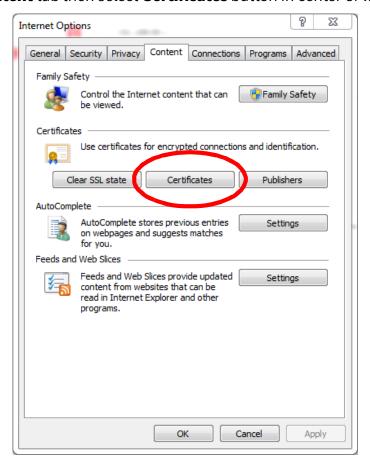
When using a self-signed certificate it is necessary to install the matching master certificate into all computer's browsers that access the MPA panels.

After you have installed the certificate file onto the panel but before you install the master certificate, the browser will still display the broken lock.

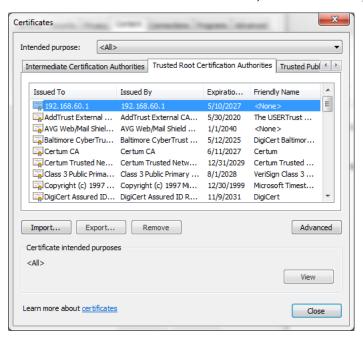


Open Internet Explorer and select Tools (gear icon) > Internet options.

Select the Content tab then select Certificates button in center of window.



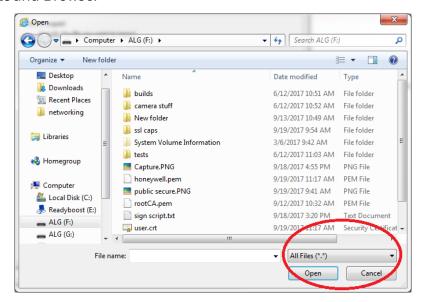
Select the Trusted Root Certificate Authorities tab, then select Import:



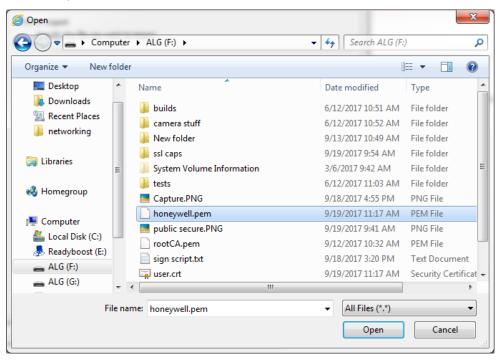
The Certificate Import Wizard will appear.



Select **Next** and Browse.



Change the file type to **All Files**. Then select **the master signed certificate** from its location on your machine.



Click Open to load the file.

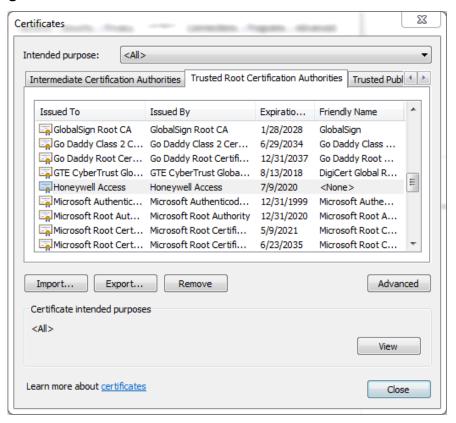


Confirm **Yes** when this warning comes up:



Success!

Now if you scroll down the list of **Trusted Root Certificate Authorities** you should see **the signed certificate** in the list:



Close any Chrome windows that were open. Navigate to the URL MPA Address and the login screen will appear. The address bar will indicate a Lock Icon with "Secure".

CHAPTER 8

ACCOUNTS

Creating MPA2C3 Accounts

A User is someone who will be using the MPA2C3 software in one or more functional roles. The Manage Accounts configuration window allows you to configure the following:

- Add, modify, delete user accounts
- Enable or disable user accounts
- View the user's current login status (logged in or out)

There are three types of user accounts, which all include different abilities and functions.

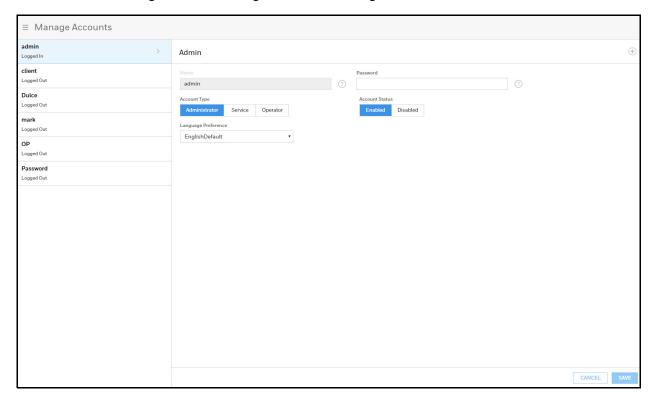
Table 8-1 User Access Types and Functionality

Function	Operator	Service	Administrator
View alarms/events	3	3	3
Acknowledge alarms	3	3	3
View panel I/O status	3	3	3
Control I/O status	3	3	3
Generate reports	3	3	3
View card database	3	3	3
Create, modify, delete cards		3	3
View all configurations		3	3
Create, modify, delete configurations			3
Perform uploads/downloads			3
Manage own user account	3	3	3
Manage all user accounts			3

Note: User name is free from text field, if personal identifications details are used for the User name, then it is the responsibility of system administrator to make sure appropriate consent is obtained from the user and maintained to meet GDPR compliance.

1. Click **Manage Accounts** in the Menu to navigate to the Manage Accounts window.

Figure 1-1 Manage Accounts Configuration Interface

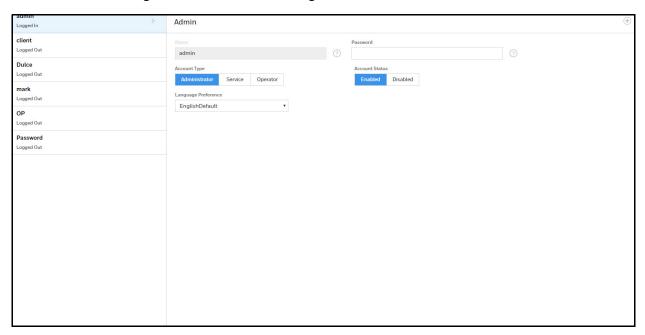


Note: When creating passwords, they must meet the following minimum requirements:

- Consist of letters, numbers, and symbols.
- Contain at least one character from each of the following four types: lower-case letters (a-z), UPPER CASE letters (A-Z), numbers (0-9), and symbols [!, @, #, \$, %, ^, &, *, (,)].
- Contain a minimum of 8 and a maximum of 16 characters.
- Not contain the name of the user's account type ("admin", "service", or "operator").
- Not contain a consecutive string of 3 or more repeated characters.

Note: All user passwords will expire after a period of six months; the users will be prompted to change password upon login.

Figure 1-2 Accounts Configuration Interface

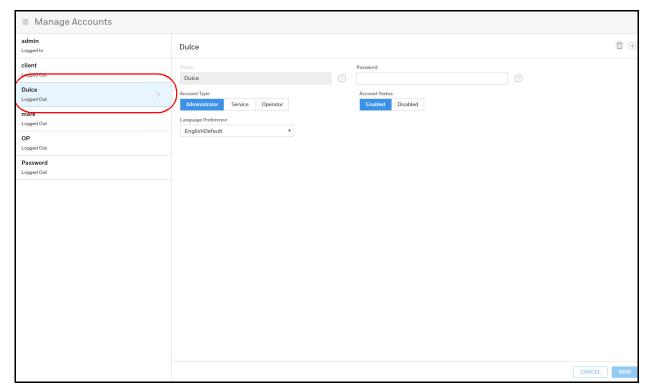


- 1. Click to (4) create a new account.
- 2. Enter a name.
- 3. Enter a Password.
- 4. Select an **Account Type**, either **Administrator**, **Service**, or **Operator**. See Table 8-1 on page 156 for more about these accounts.
- 5. Enable/disable the Account Status.
- 6. Select a language.
- 7. Click Save.

Modifying a User Account

1. Click to select an account in the **Manage Accounts** interface.

Figure 1-3 Modifying a User Account



2. Make the changes, and then click Save.

Deleting a User Account

- Click to select an account in the Manage Accounts interface. A delete icon in appears.
- 2. Click m, then click **OK** to confirm the deletion.

Admin Password Reset

It is likely that the installer or user forgets the administrator password to access the Web Interface.

To reset the panel's administrator password, the panel must be physically accessed by an authorized person.

The following steps are needed to reset the administrator password

- 1. Open the panel's cabinet
- 2. Power OFF the panel.
 - a. Note the current address of the panel reading DIP Switch positions of SW1 bit 5, 6, 7, 8 and 9 (Address 5, Address 4, Address 3, Address 2 and Address 1). (You need this in step 4a. again)
 - b. Set DIP Switch positions of SW1 bit 3, 5, 6, 7, 8 and 9 (Primary, Address 5, Address 4, Address 3, Address 2 and Address 1) to ON position. Make DIP switch 3,5,6,7,8, and 9 ON.
- 3. Power ON the panel.
 - a. Connect to the panel with a computer or laptop via Ethernet ETH1 (HOST) or USB2 (WEB MODE).
 - b. Log in to web login with reset default administrator username and password.
 - i. Follow instructions to create a new administrator password in the Web interface
 - c. Log off
- 4. Power OFF the panel
 - a. Set DIP Switch positions of SW1 bit 5, 6, 7, 8 and 9 (Address 5, Address 4, Address 3, Address 2 and Address 1) to the original positions noted in *step 2a*.
- 5. Power ON the panel
- 6. Close the panel's cabinet
- 7. From here use the new administrator password to login the web interface

Note: Password reset is enabled only for admin account.

Note: The password reset only resets the password, however the configuration of the panel will not be reset to factory default.

Technical Support

Normal Support Hours

USA

USA +1 800 323 4576

Technical Support, Option 2 (Access Control)

Monday through Friday, 7:00 a.m. to 7:00 p.m. Central Standard Time (CST), except company holidays: (800) 323-4576.

Web

https://buildings.honeywell.com/

https://myhoneywellbuildingsuniversity.com/training/

support/

https://www.security.honeywell.com/

For technical assistance please click here, scan the below QR code or visit

https://myhoneywellbuildingsuniversity.com/training/support/

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 FRANCE
 +33366880142

 THE NETHERLANDS
 +31108080688

 Technical Support, Option 2 (Access Control)

Hours of Operation | Monday through Friday, 9:00 am - 7:00 pm EST

Following are the tech support E-mail IDs of different countries.

EMEA IT	ALY	hsgittechsupport@honeywell.com	
U	K	hsguktechsupport@honeywell.com	
S	PAIN	hsgestechsupport@honeywell.com	
F	RANCE	hsgfrtechsupport@honeywell.com	
Т	HE NETHERLANDS	hsgnltechsupport@honeywell.com	
· · · · · · · · · · · · · · · · · · ·	<u> </u>	ems.com/ss/techsupp/index.html	
Web Support	Technical Assistance	https://buildings.honeywell.com/	
	MyWebTech Custome Support	er <u>https://</u> <u>myhoneywellbuildingsuniversity.com</u> /training/support/	
	Schedule Support:	<pre>https:// myhoneywellbuildingsuniversity.com /training/support/</pre>	

Table 8-2 Troubleshooting Problems and Solutions

Problem	Solution
The panel powers up, but it does not respond to any communication, cards reads, or input activation.	Ensure that the Address DIP switches are set the correct values. Turn off the power (including battery), change the settings, and re-apply the power.
No communications exist with the Ethernet port.	Check the IP address from the ACS4 setup tool.



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