EIDC+ New User Guide – On-Prem Deployments

July 2025

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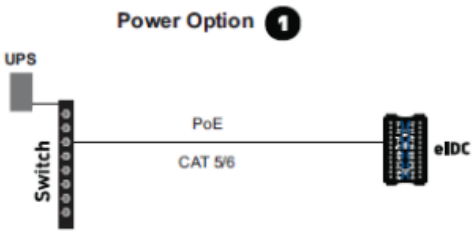
Introduction to EIDC+

Start Guide

CAUTION: For options 1, 2, and 4, DO NOT add additional power supply to terminals PW+ or PW- on the EIDC+. ONLY add additional power for option 3.

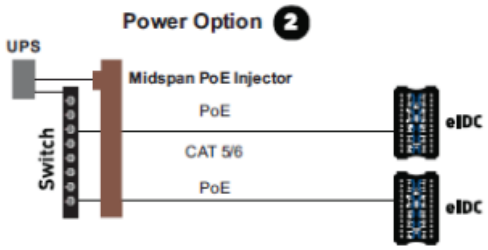
***Option 1:* PoE Switch**

1. Run power to PoE switch
2. Run an ethernet cable directly from the switch to the EIDC+



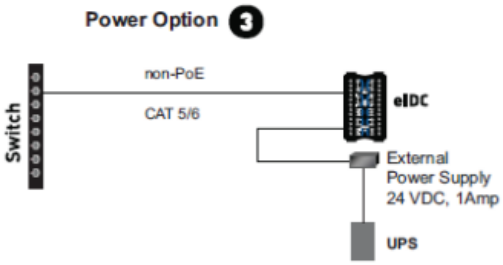
***Option 2:* Non-PoE Switch; Midspan**

1. Run power to switch
2. Run power to midspan injector
3. Connect midspan injector to add power to all switch ports
4. Run PoE from midspan to EIDC+



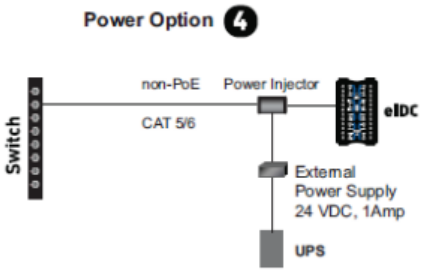
***Option 3:* Non-PoE Switch; External Power**

1. Run ethernet from switch to EIDC+
2. Run power to external power supply
   - 24VDC
   - 1Amp
3. Attach power supply to EIDC+ via PW+ (positive) and
   PW- (negative)



***Option 4:* Non-PoE Switch; PCON**

1. Run power to a PCON power injector
2. Run cable from switch to PCON
3. Run that cable from PCON to EIDC+



Finding IP Address

Establishing a connection to an EIDC+ controller is possible using its IP address. Upon an initial powering up sequence, the EIDC+ will provide its IP address through a series of flashing lights. The controller displays a light on the face of the EIDC+ controller; next to the light will be the number it corresponds to. The sequence is as follows:

1. **PW+, PW-, and GND will light up to show the controller is operational**
2. **Every terminal flashes**
3. **First quartet of IP address shown in sequential order**
    - Individual blinks represent the corresponding number
4. **Every terminal flashes**
    - This represents the '.' In the IP address
5. **Steps 3 and 4 repeat three more times for a total of 4 instances; the entire quartet will be revealed in this sequence.**

NOTE: *Unless setup, DHCP server may not always store the IP address of the controller. Because of this, IP may change if a controller is rebooted. Always take down the displayed IP address upon a reboot sequence.*

Reset to Factory Default

Resetting a controller to factory default will revert it back to base settings. This can fix issues such as unknown IP, unknown password, and more. To perform a factory reset, take the following steps:

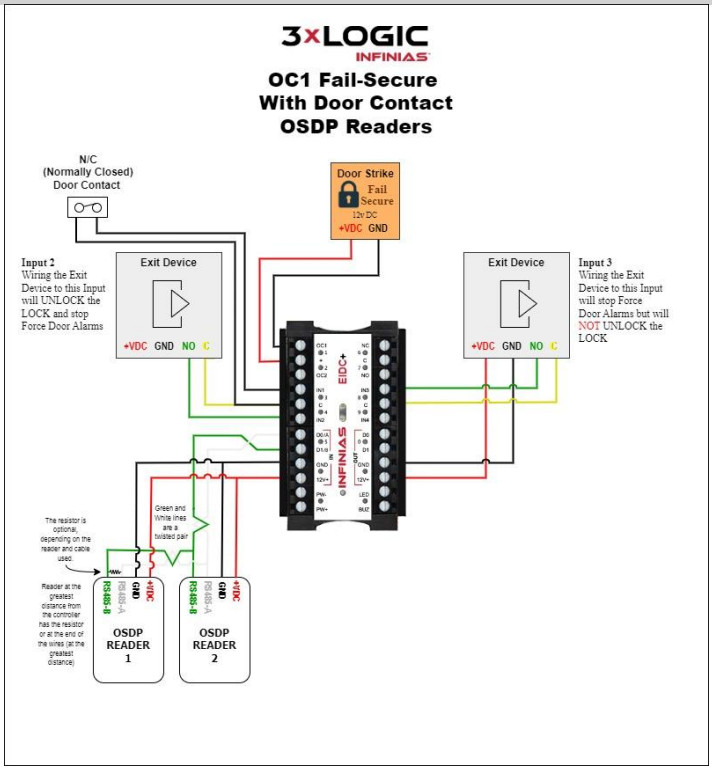
1. With the EIDC+ **UNPLUGGED**, (no power) create an electrical connection between the BUZ and IN2 terminals.
2. Apply power to the EIDC+ controller. **PLUG IN.**
3. Device will begin the startup sequence. All terminals will flash, the device will be dark for up to 10 seconds, then begin to boot.
4. Remove the wire connecting BUZ and IN2. Allow the device to boot as normal.

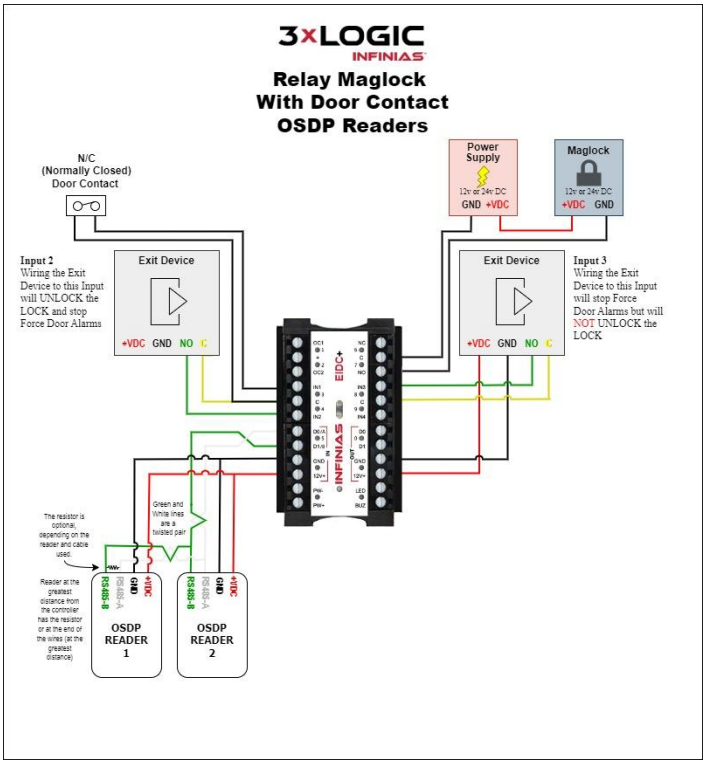
Wiring Guide

Templates

INFINIAS Access Control software comes with standard door templates that pre-wire the controller. The standard normally closed and open templates are shown below.

OC1 With Door Contact	Maglock With Door Contact





Diagrams for every other standard configuration are accessible through the INFINIAS web app. To see them:

1. Navigate to INFINIAS web app
2. Switch to configuration mode
3. Navigate to “Doors” tab
4. Press “Create Door” button
5. Select your desired behavior from the dropdown menu. **The behavior must be defined OSDP to show the proper diagram.**
6. Press the “Diagram” button
7. The diagram will display in a pop-up

If you have need for a installation that requires configuration other than these standard templates, please contact 3xLOGIC. We will design a custom template based on your needs.

Wiring Notes

OC1 and OC2

- The two open collector outputs, OC1 and OC2, provide a maximum of 12 VDC and 450mA combined
- OC1 and OC2 are software configurable energized (E) or de-energized (DE)
- OC1 and OC2 have their own negative (-) terminals but share a positive (+) terminal

Reader

- Input devices wired to EIDC+ Inputs (IN) 1 through 4
    - Wire door contacts to IN1
    - Request to exit buttons or motion sensor to IN2 or IN3
- Wiegand Reader IN and Reader OUT are internally configured each having their own Data 0, Data 1, 12v+, and GND
- OSDP Readers IN and OUT use data ports A and B
- For Wiegand, there is a single terminal for optional Reader LED control and optional Reader Buzzer control. OSDP reader LED and Buzzer are configured in the device's settings.
- Only the readers can be wired to Data 0/A and Data B/1 terminals
- Both IN and OUT OSDP readers get wired to the IN side of the device

Mag Locks

- A magnetic lock can be powered by the open collector output if it draws less than 450 mA. If it draws more than 450mA, then it must be wired to the form C relay (5 A at 30 VDC) labeled NO (normally open) and NC (normally closed) and powered externally.

General Information

Environmental	
Operating Temperature	32° to 120°F (0° to 49°C)
Storage Temperature	-40° to 150°F (-40° to 66°C)
Humidity	0% to 85% relative, noncondensing
Certifications	FCC part 15, Class A, Class B, UL 294

Warranty	
Period	3 year replacement

General	
Readers	2
Door	1
Cards	8000 in Web Mode 64000 with INFINIAS Access Control Management software
History	16000 transactions (web mode)
Power	Direct from PoE switch (15.4 W) or external power supply (24 VDC, 1 A)
Communications	Ethernet, 10/100 Base-T
Maximum Distance	100m (328 ft)
Switch	Cat5, Cat5e, Cat6

Inputs	
1-4	1 door position input, 3 configurable inputs, contact closure or transistor-transistor logic (TTL), with optional end of line resistor (EOLR) supervision
Tamper	Integrated infrared tamper
Wire	2 conductor, 2,000 ft

Outputs	
1 and 2	Open collector outputs with electronic overload protection (max 450 mA at 12 VDC)*
3	Form C, SPDT relay output with configurable initial state (max 5 A at 26 V)
4	Built-in warning buzzer or alarm tone generator (max 80 dB)
Reader	LED output, Buzzer output
Wire	2 conductor, 2,000 ft

On-Prem Deployments

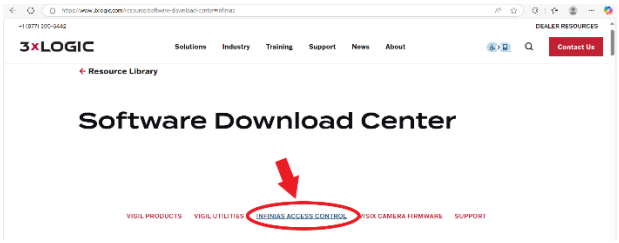
This section will show the user how to get an EIDC+ onto an on-prem server. It will go over changing EIDC+'s address to connect locally. For information on configuring the EIDC's associated door, see the ***Configuration*** section.

Installing INIFINIAS Connect

INFINIAS Connect is 3xLOGIC's premier software for configuring the EIDC product line. It is needed to connect a controller to an on-prem deployment. This section of the guide will show the user how to download it.

1. Navigate to 3xLOGIC software download center using the following URL: https://www.3xlogic.com/resource/software-download-center

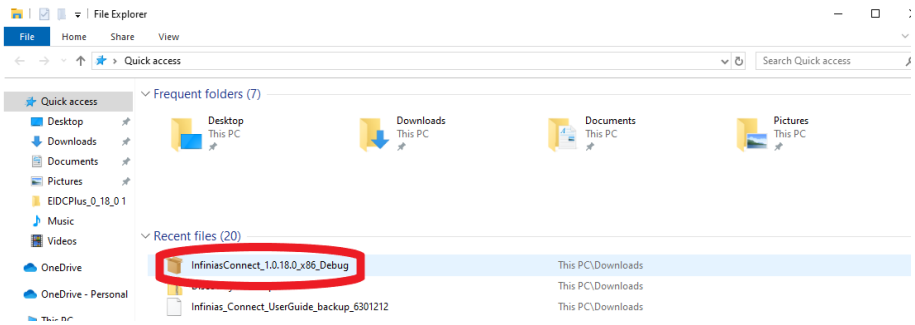
2. Navigate to the "INFINIAS Access Control" tab



3. Download the Windows Application package.
   [Insert Image when functionality added to website]

NOTE: The package will follow the naming convention "InfiniasConnect_[num1]_x[num2]," where [num1] and [num2] will reflect the application's version. (Ex: InfiniasConnect_1.0.18.0_x86

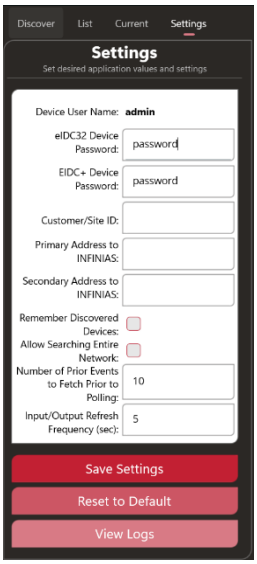
4. Navigate into the file explorer and double-click on the file to run it. Alternatively, right click the file and click **Open**



5. Click “install” in the bottom right of the popup menu

Discovering Your EIDC+

Setting the Password



When using INFINIAS Connect, it is important to have the right password set. Connect will use this password when interacting with an EIDC+ device. To modify the password being used, follow these steps:

1. Go to the settings tab.
2. Change the “EIDC+ Device Password” field to match the password of your device. For new controllers that have not yet had a password reset, this will be the serial number.
3. Press “Save Settings” on the bottom of the screen.

Now, you can use Connect to modify your device.

Discovering a Device

INFINIAS connect makes it easy to discover local devices. This subsection covers the standard procedure to discover a device. The steps to discover a device using INFINIAS Connect are as follows:

1. Input the range of IP addresses to search through. Users locate and connect to devices on their network by searching within a specified IP address range. Users are prompted for two inputs:
    - **Start Address:** The first IP address in the desired search range. This should be the LOWER valued IP address. For example, 192.168.1.1

- **End Address:** The last IP address in the desired search range. This should be the HIGHER valued IP address. For example, 192.168.1.255

NOTE: *If the user inputs an end address that is a lower value than the start address, INFINIAS Connect will search only for the specific IP address designated in the start address.*

NOTE: *Larger input ranges take longer to search. When possible, keep start and end addresses as close as possible for best efficiency*

2. Click the blue "Discover Devices" button. The software will begin searching for devices within the desired range

3. Following a successful search, INFINIAS Connect will redirect the user to the Device List tab.

4. From the device list tab, double click on the EIDC+ controller you want to connect to.

Local Networks

INFINIAS Connect will automatically search networks local to the user's location. It will display these networks on the top left of the tab. Double clicking on the popup for the network will automatically populate the start and end addresses with these values.

An example of this is shown in the previous image, where the Discover tab provides information on the network "Ethernet 4." Discovered networks will have their associated IP range shown. The "Ethernet 4" example provides the range:

10.202.188.0 – xx.xx.189.255

Clicking twice on "Ethernet 4" will search from *10.202.188.0 10.202.189.255*

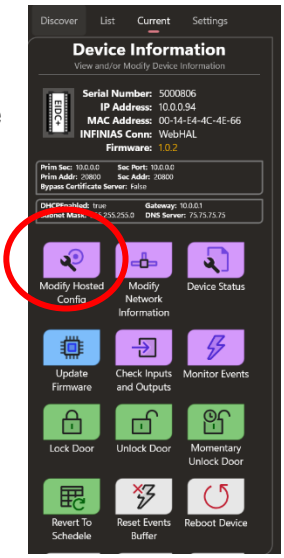
Remembered Devices

- **Include Remembered Devices:** Clicking this checkbox enables remembered devices to be included in the Discovery Tool's search. New devices can still be discovered as well. A checkmark will appear inside the box to indicate this feature is active

- **Find Only Remembered Devices:** Clicking this checkbox configures the Discovery Tool to ONLY search for remembered devices. New devices CANNOT be discovered while this checkbox is selected. A checkmark will appear inside the box to indicate this feature is active.

Configuring Outbound Address – Single Device

Once INFINIAS Connect connects to the user's device, they can change the outbound configuration of their controller to match the IP of the local server. Doing this will connect your controller to your on-prem deployment.



1. After discovering the EIDC+ in the previous section, the user should be on the "Device Information" tab of INFINIAS Connect. From this tab, click "Modify Hosted Config," shown in red circle.

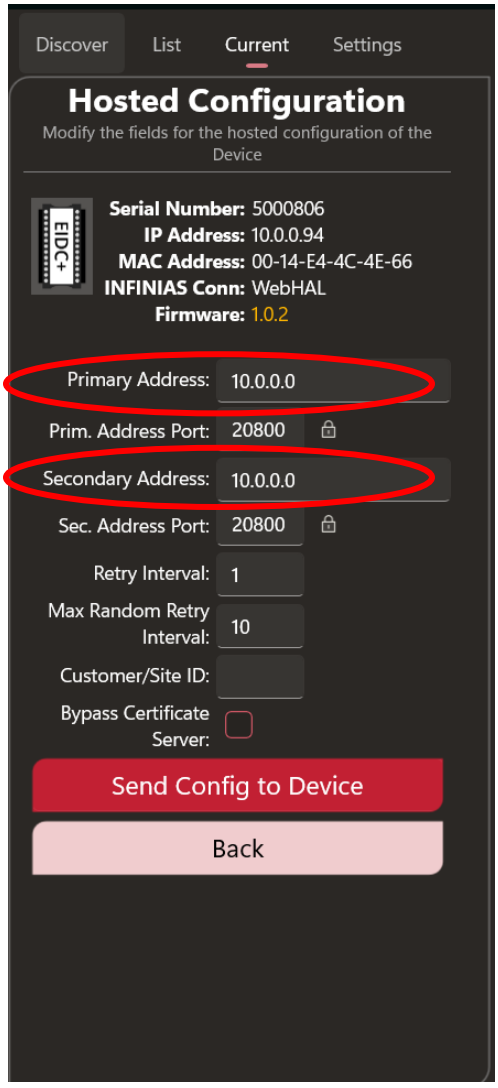
2. Opening the "Modify Hosted Config" tab will bring the user to the page shown to the right. While there are many options available here, the only ones relevant to this guide are the primary and secondary address, shown in the red circles.

3. Change the "Primary Address" and "Secondary Address" boxes to be the same as your local INFINIAS installation server address. This can be in two forms:

- **IP Address:** The network address of your installation, given in the form of *xxx.xxx.xxx.xxx*
- **DNS Address:** The DNS entry of the installation. **DO NOT** include the http:// or any path information.

4. Once the proper information has been entered into these boxes, click the "Send Config to Device" button on the bottom of the screen.

5. Your controller can now be accessed in the INFINAS Access Control web app.

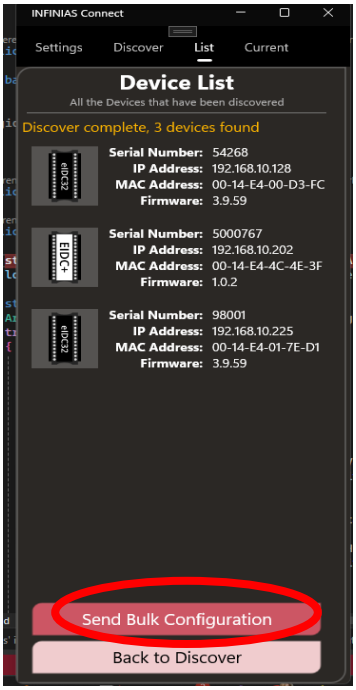


Configuring Outbound Address – Multiple Devices

INFINIAS connect offers the ability to configure multiple EIDC+ devices at once. This functionality can be performed from the “Device List” tab.

1. Discover the devices you want to configure – This is done by inputting an IP range that contains the IP of every device you want to configure, then pressing the “Discover Devices” button.

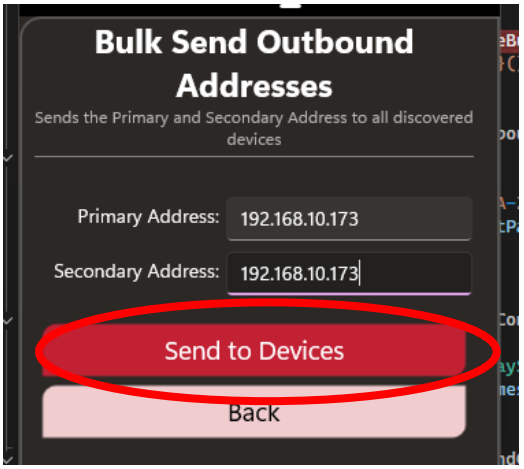
2. After running the discovery process, INFINIAS Connect will bring you to the “Device List” page. This will show the list of devices discovered in the process. To configure every discovered device at once, press the “Send Bulk Configuration” button.



3. A menu for bulk configuration will pop up. Enter the Primary and Secondary Addresses you want for the controllers in the appropriate boxes.

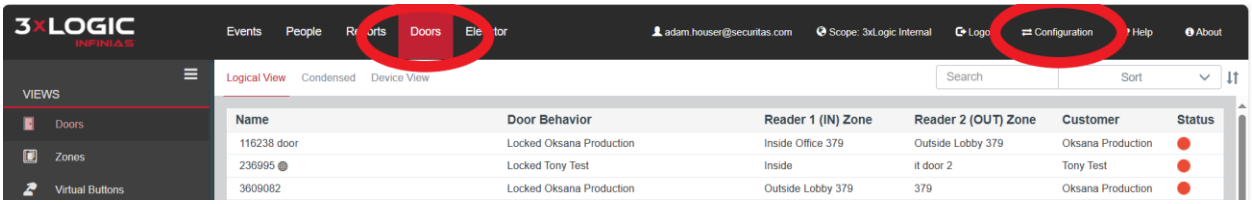
4. Press the “Send to Devices” button to apply these settings to every controller.

5. Confirmation text will appear to show which controllers were successfully updated. If an error message appears, or a controller name is not listed, attempt to update that controller individually.

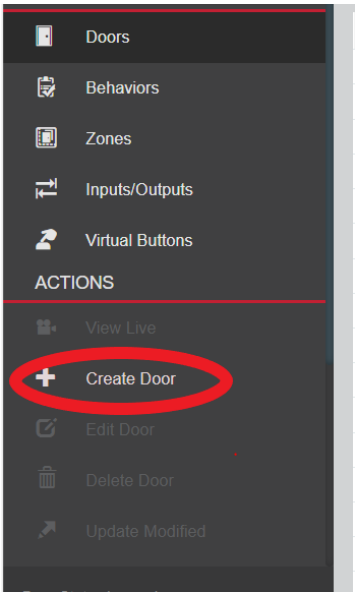


Add a Door

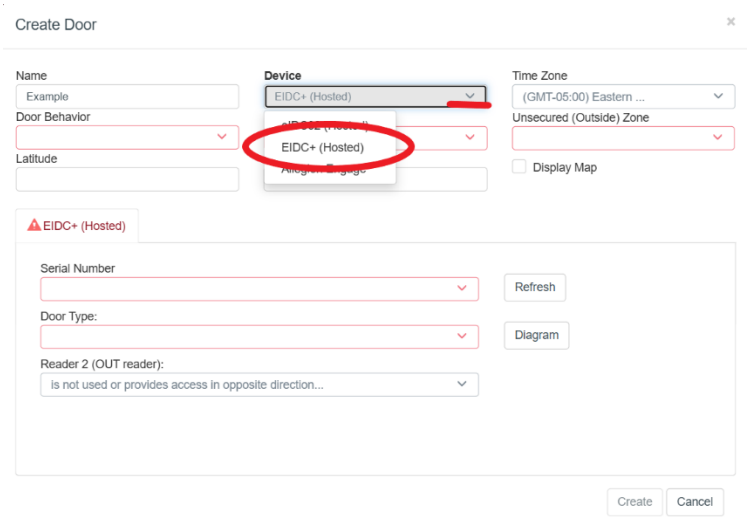
1. From the INFINIAS homepage, navigate to the “Doors” tab in the “Configuration” view.



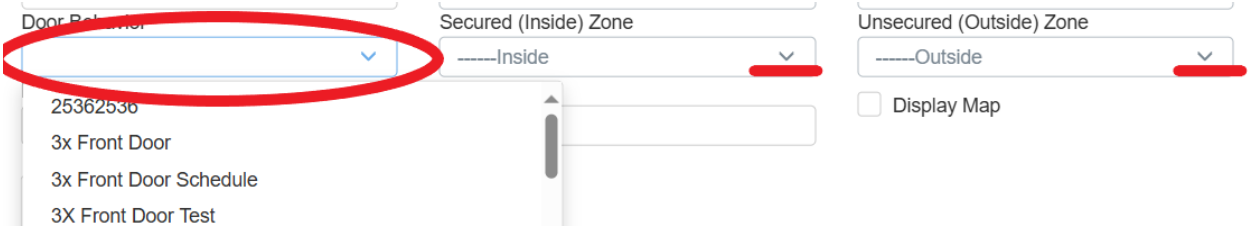
2. Click the “Create Door” button on the sidebar.



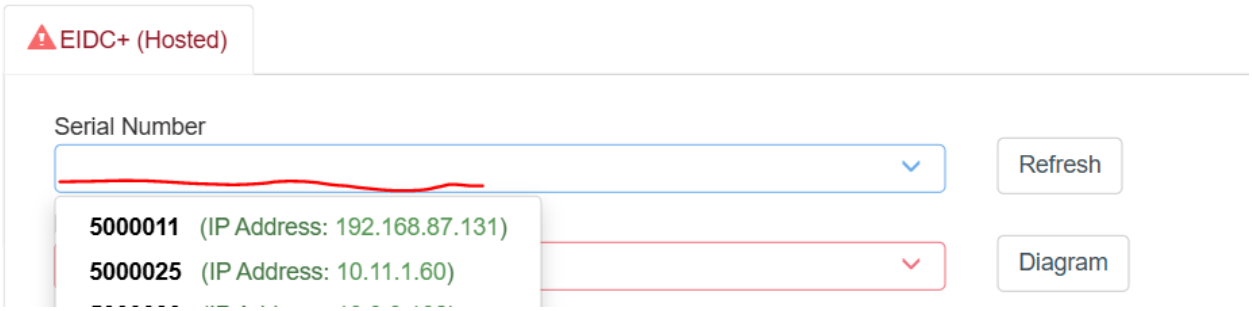
3. In the create door menu, select “Devices” and choose "EIDC+ (Hosted)”.



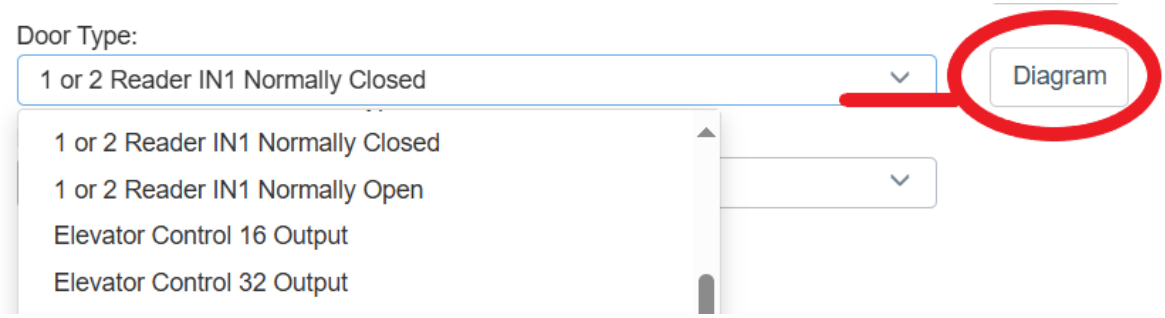
4. Choose your door behavior and zones from the dropdown menus.



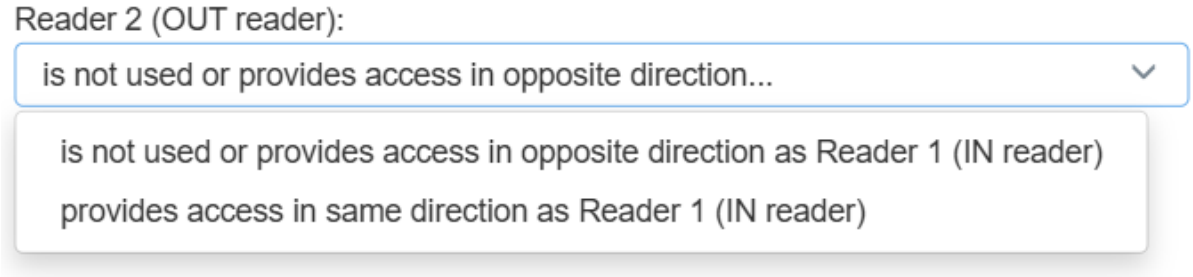
5. Open the Serial Number dropdown menu. Select the IP address of your EIDC+ device



6. Open the "Door Type" dropdown menu. Choose the configuration of your device. The wiring diagram can be viewed by pressing the "Diagram" button. More information can be found in the *Wiring Guide* section of this document.



7. Open the "Reader 2 (OUT Reader)" dropdown menu. Select the usage of the OUT reader.



Set a Password

Once all the proper information is input, the user should press create to add the door to INFINIAS. If a controller is being used for the first time, then clicking create will prompt the user to set a password for the EIDC+ controller.

The password should meet the following requirements:

- 15-20 characters
- At least 1 uppercase letter
- At least 1 lowercase letter
- Same password entered in the “create password” and “confirm password” fields

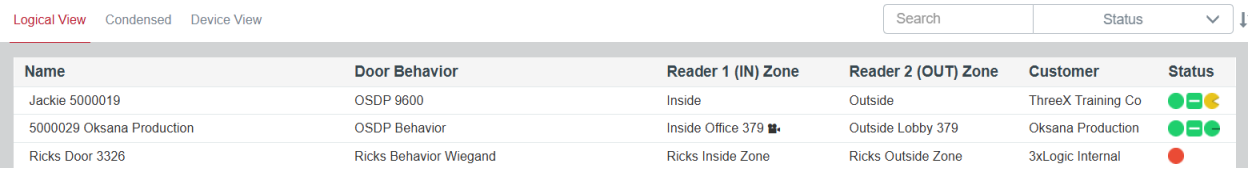
Once these requirements are met, press the save button in the bottom right. This will set the EIDC+ password and create the door in INFINIAS.

EIDC+ Viewing on INFINIAS Access Control

Once a user has added their device onto INFINIAS Access Control, it can be viewed under the “Doors” tab of the website. This section will explain what information and controls are given by the site.

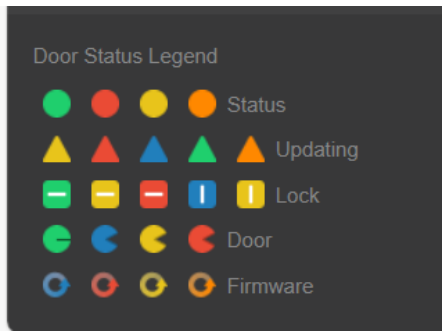
Viewing a Door

Every EIDC+ device is associated with a door in the “Doors” tab. You can use the search bar in the top right corner to search for a specific door. You can use the dropdown menu in the top right to sort by various attributes related to the door, including name, status, zones, behavior, and customer.



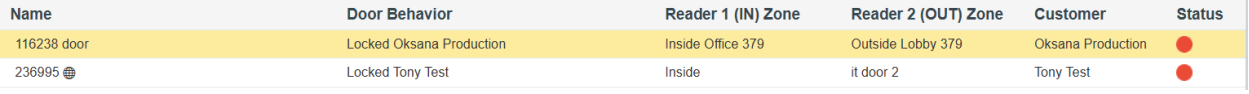
<u>The page defaults to the “Logical View” tab. Information given from this view is as follows:</u>

- **Name:** The name of the door
- **Door Behavior:** The way the door will function. This includes scheduling, holidays, normally closed/open information, and more
- **Zones:** The zones on the inside and outside of the door
- **Customer:** The name of the customer the door belongs to
- **Status:** The current status of the door, given by a color and shape. The full legend for the status tab is viewable in the bottom left of the INFINIAS webpage. Hover over the symbol to see it’s meaning.



Controls in INFINIAS

In addition to providing information about the controller, INFINIAS allows controls for the door. Pressing on the door will highlight it in yellow and allow the user to perform the actions shown in the sidebar.

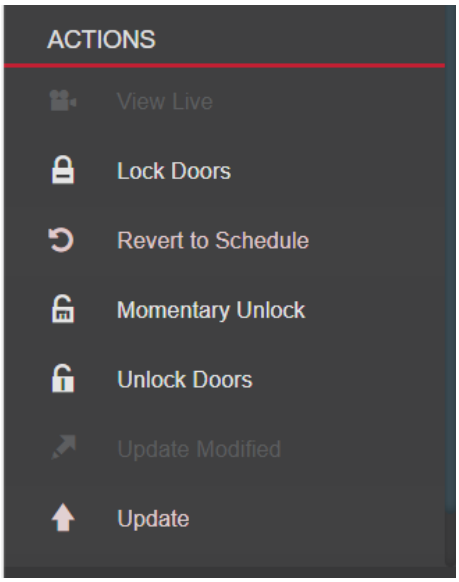


Top: Door selected by clicking, highlighted in yellow

Bottom: Door NOT selected, standard white background

Homepage:

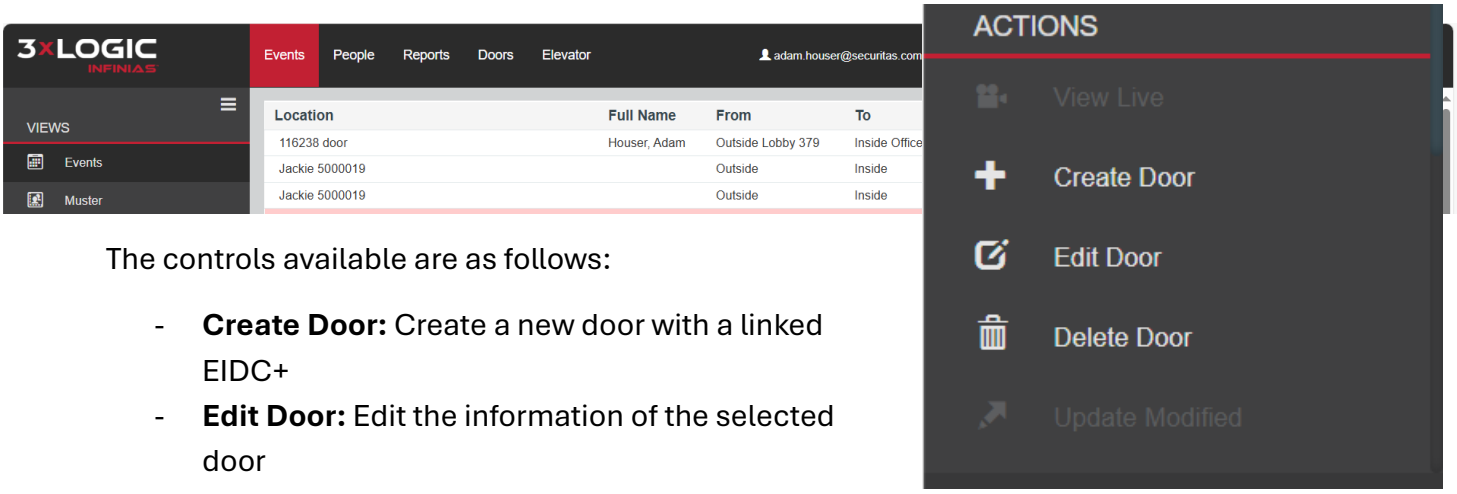
The sidebar of the homepage gives various controls for the linked EIDC+ controlled doors.



- **Lock Doors:** Press to lock the selected doors
- **Revert to Schedule:** Press to clear any previous commands and revert a door to how it would usually act during the current timeframe
- **Momentary Unlock:** Press to unlock the door for a specified duration
- **Update:** Press to update the door

Configuration:

The sidebar of the configuration page gives various controls for the linked EIDC+ controlled doors. These controls effect information regarding how the door is tracked in INFINIAS. They are accessed by navigating to the configuration tab using the "Configuration" button in the top right corner of the INFINIAS Access Control homepage.



The controls available are as follows:

- **Create Door:** Create a new door with a linked EIDC+
- **Edit Door:** Edit the information of the selected door
- **Delete Door:** Delete the selected door