

Notify Integration with Singlewire InformaCast

Our design objective for Notify Critical Notifications was platform agnostic. We designed the OneVue Sync Transmitter with five programmable inputs that could immediately change the displays of our Notify InfoBoards with a simple contact closure; five different events, five different messages.

As such, integrating with platforms like Singlewire InformaCast is more a question of how rather than a matter of what is possible. This explains a commercially available solution with one method, though there are many other ways to achieve this.

Perle IOLAN DS1/DSR2 Device

The Perle IOLAN DS1/DSR2 devices provided with your Primex Notify solution, includes two standard contact closure relay outputs per device with common, normally open, and normally closed configurations. It is one of the devices that Singlewire certifies for use with InformaCast. The process of configuring this device for use is straightforward with some subtle options using the Simple Network Management Protocol (SNMP).

Installation

1. The Perle IOLAN DS1/DSR2 device includes a standard 10/100 RJ45 Ethernet port. Using this port, connect the device to an IP subnet that Singlewire InformaCast has access to.
2. Wire the output relays (See Diagram) to the back of the transmitter using the common wire for each relay and the “Normally Open” (NO) contact. (NOTE: One Perle IOLAN device can control up to two contact closures and two events. For more events you must purchase additional Perle IOLAN devices up to 3, which will cover 4 main events and an “All Clear” 5th event. Primex recommends the use of 2 Perle IOLAN devices to cover the default messages for Lockdown, Evacuate, Weather and All Clear.)

Perle IOLAN DS1/DSR2 Output Relays



OneVue Sync Transmitter Input Relays



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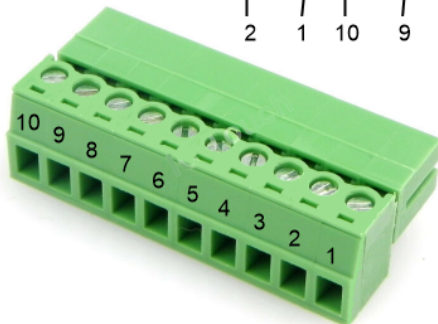
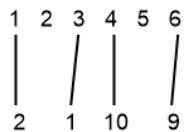
Perle IOLAN DS1 / DSR2 Output Relay Connector



Relay 1
1 - Common
2 - Normally Closed
3 - Normally Open

Relay 2
4 - Common
5 - Normally Closed
6 - Normally Open

Perle to OneVue Sync Wiring



OneVue Sync Transmitter Input Relay Connector

- 1 - Event 1 (*Lockdown)
- 2 - Common
- 3 - Event 2 (*Evacuate)
- 4 - Common
- 5 - Event 3 (*Weather)
- 6 - Common
- 7 - Event 4 (*Lockout)
- 8 - Common
- 9 - Event 5 (*All Clear)
- 10 - Common

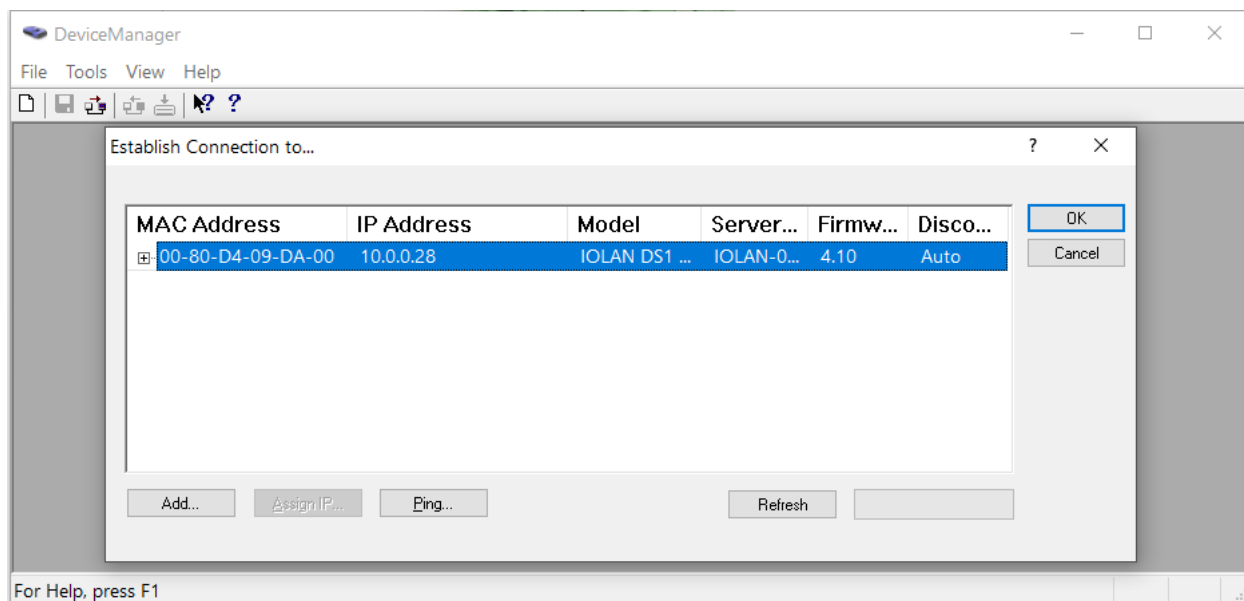
*Associated default messages can be modified on
OneVue for InfoBoards

3. Now Install the Perle Device Manager software from the CD provided with the product on a computer with access to the same IP subnet.

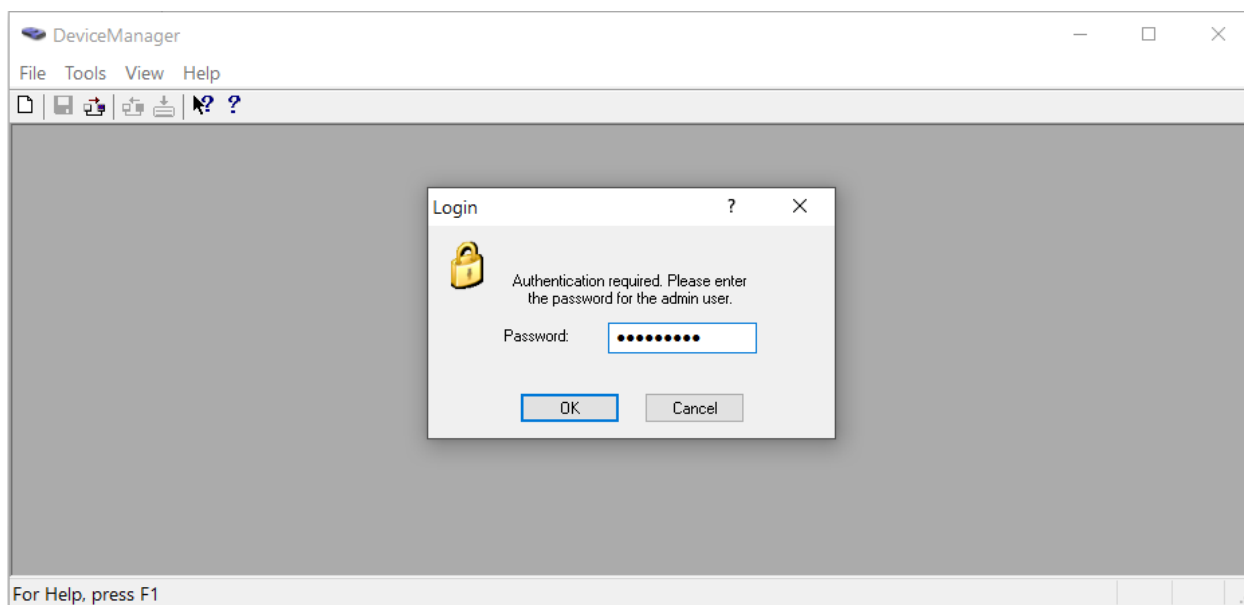
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Configuration

1. Open the Perle Device Manager and connect to each of your Perle IOLAN DS1/DSR2 devices for configuration.

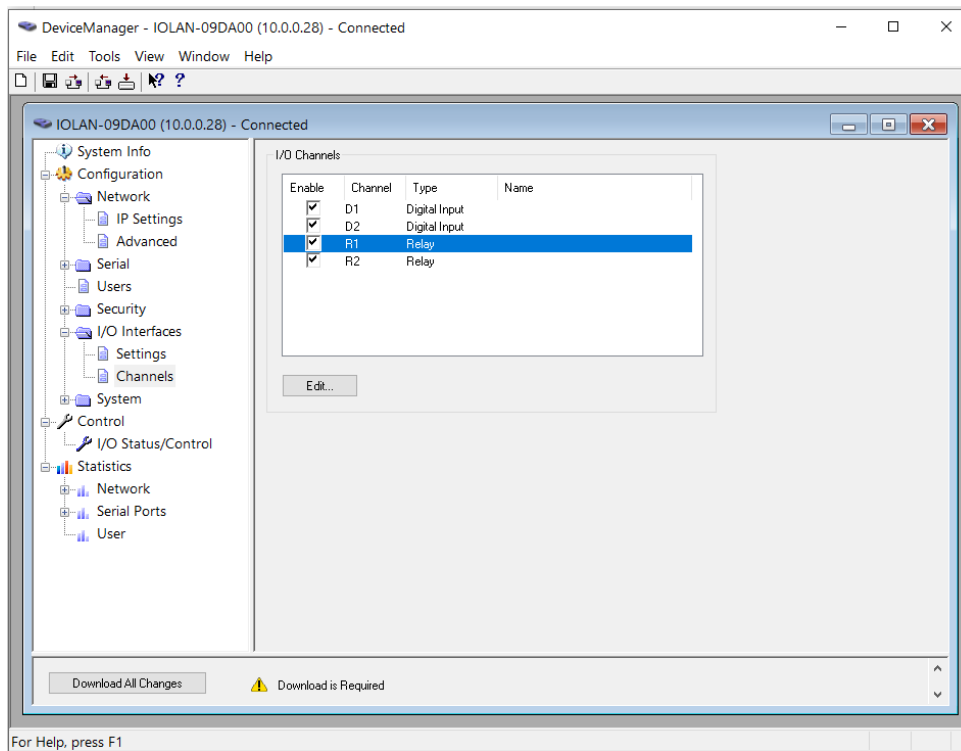


2. The default password is superuser.

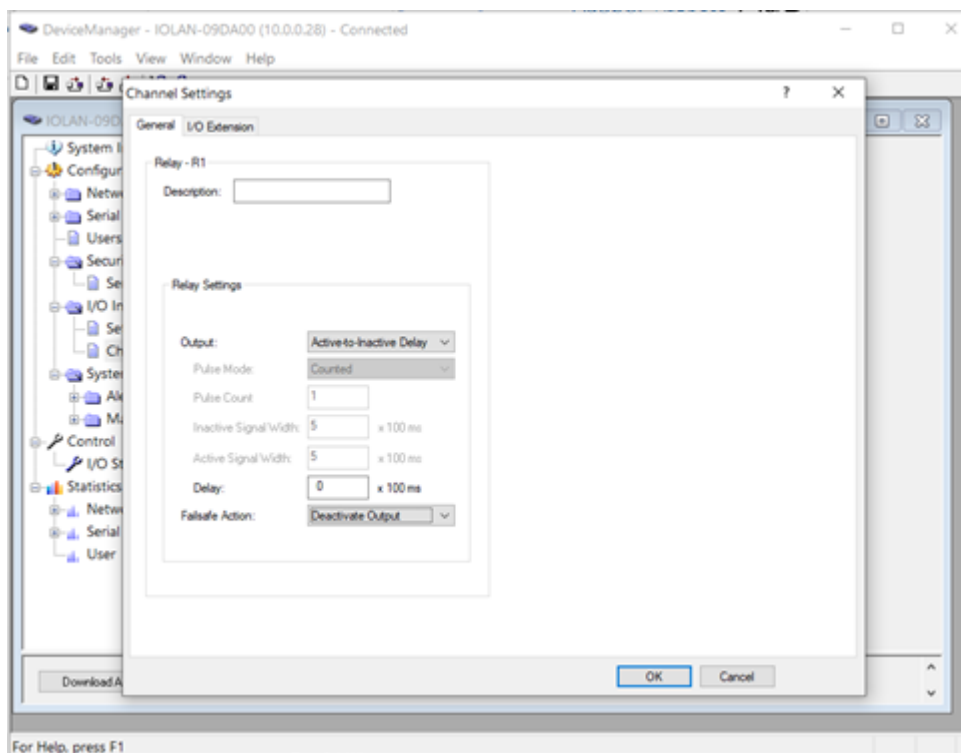


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- Each relay will need to be configured for momentary closure. Click Edit.

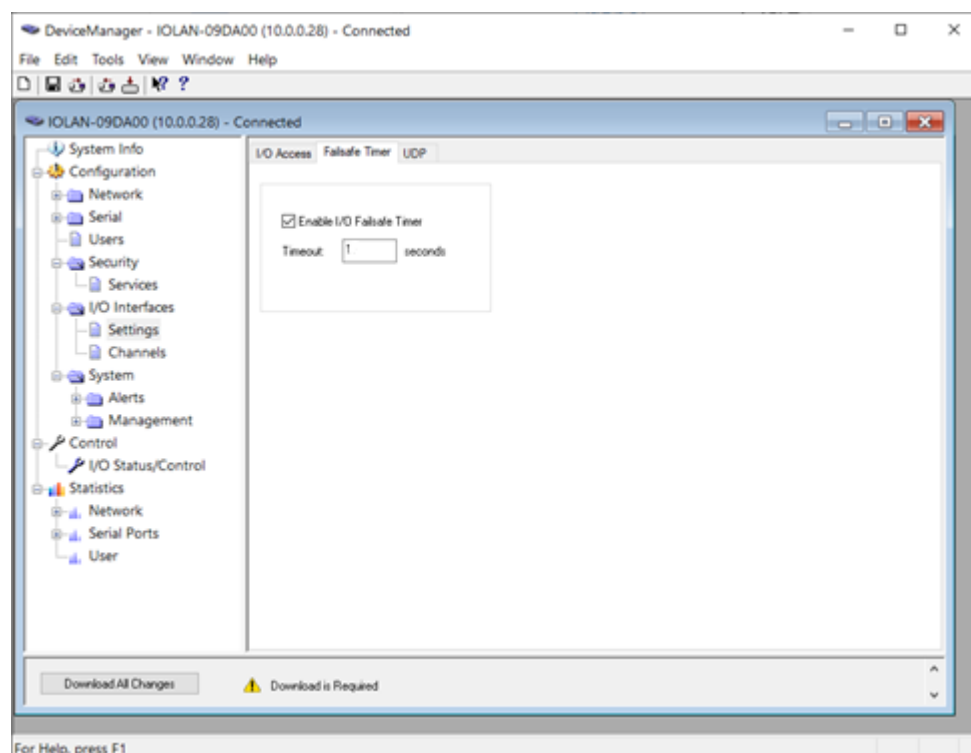


- Set the Output to Active-to-Inactive Delay, Delay 0x100ms (no delay), and Failsafe Action to Deactivate Output, and click OK. Configure the other relay in the same manner.

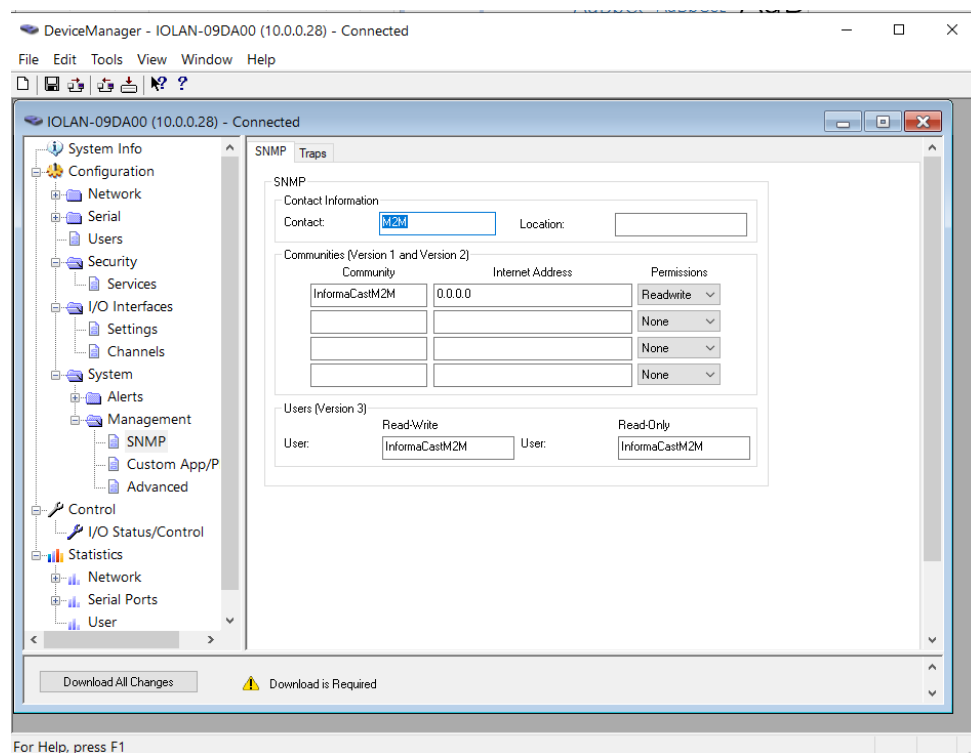


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- Under Settings, Failsafe Timer tab, select Enable I/O Failsafe Timer with a Timeout of 1 second.

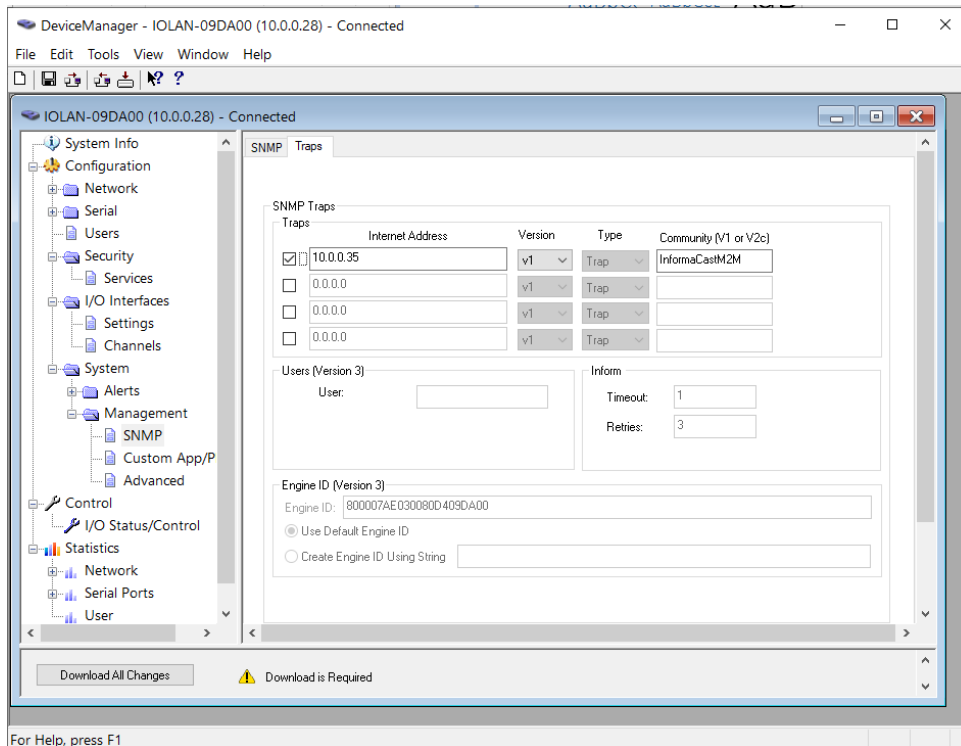


- Under Management, SNMP, add a contact of M2M, a Community name of InformaCastM2M with and IP address of 0.0.0.0, and Permissions for Readwrite. Also both users should have the same community name, InformaCast2M.

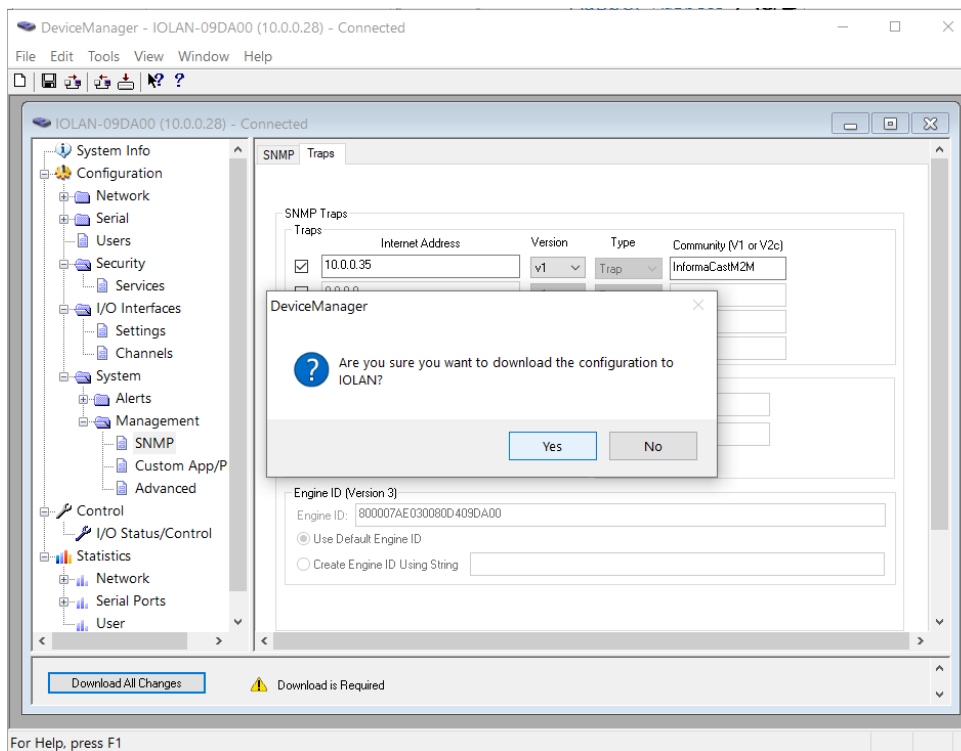


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- Now select the “Traps” tab, and add the IP address of your InformaCast server with the same community name, InformaCastM2M.

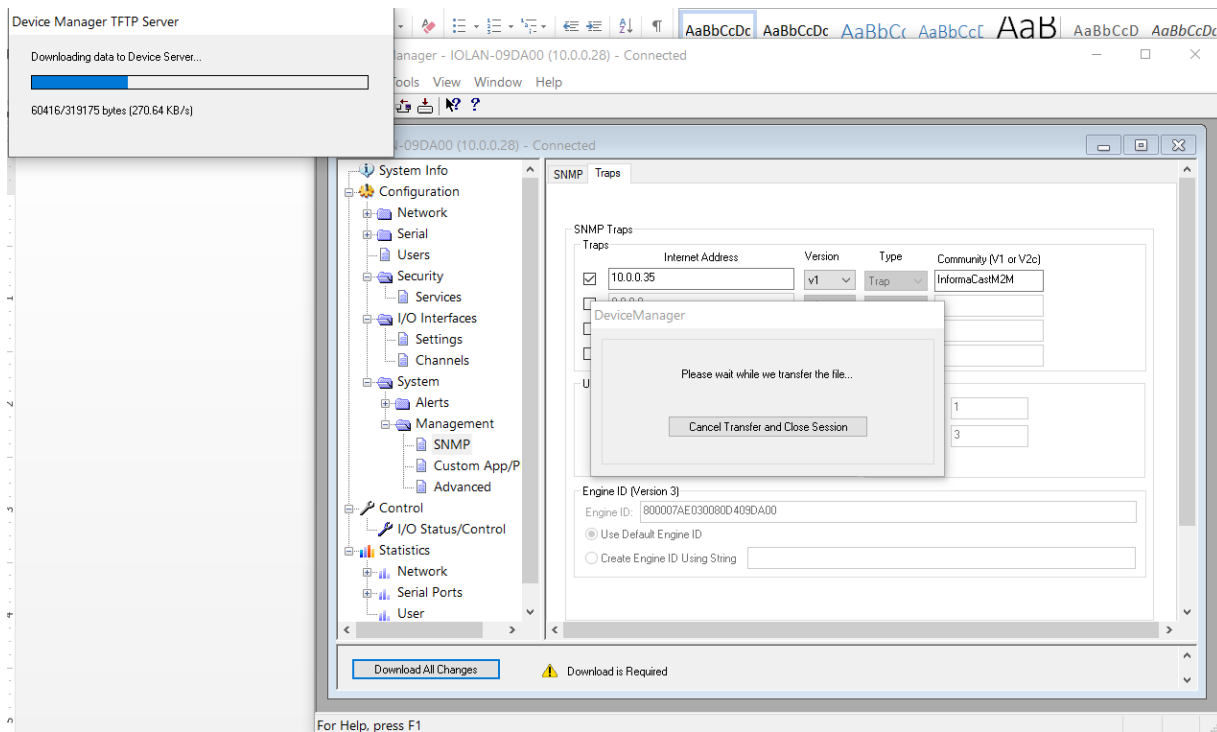


- Download All Changes, Yes to download...

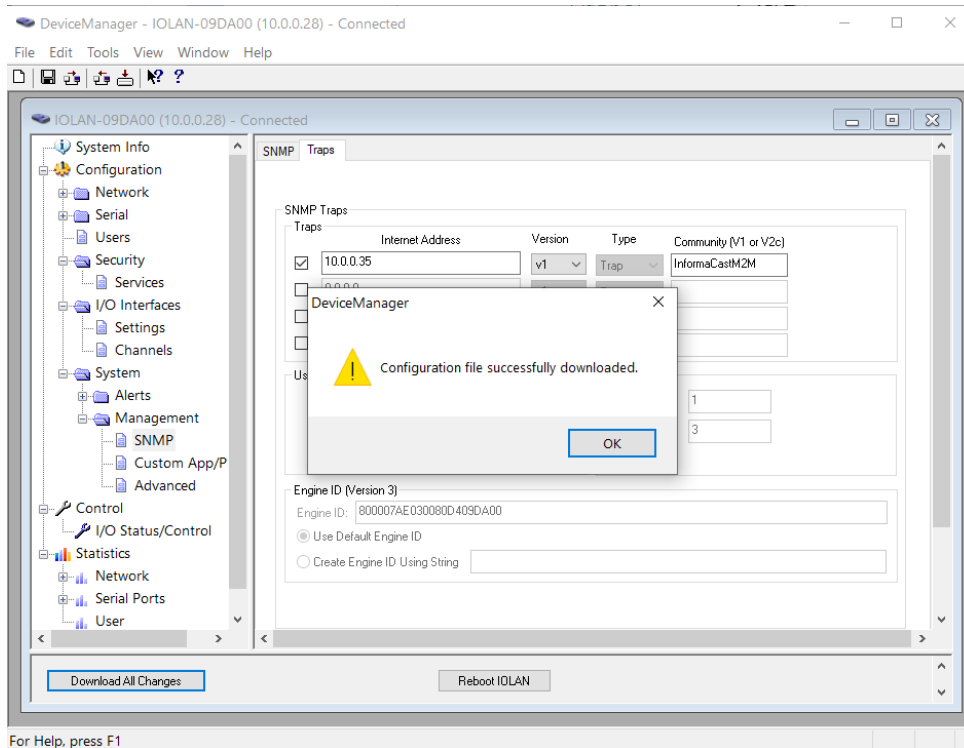


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9. Note the download progress...

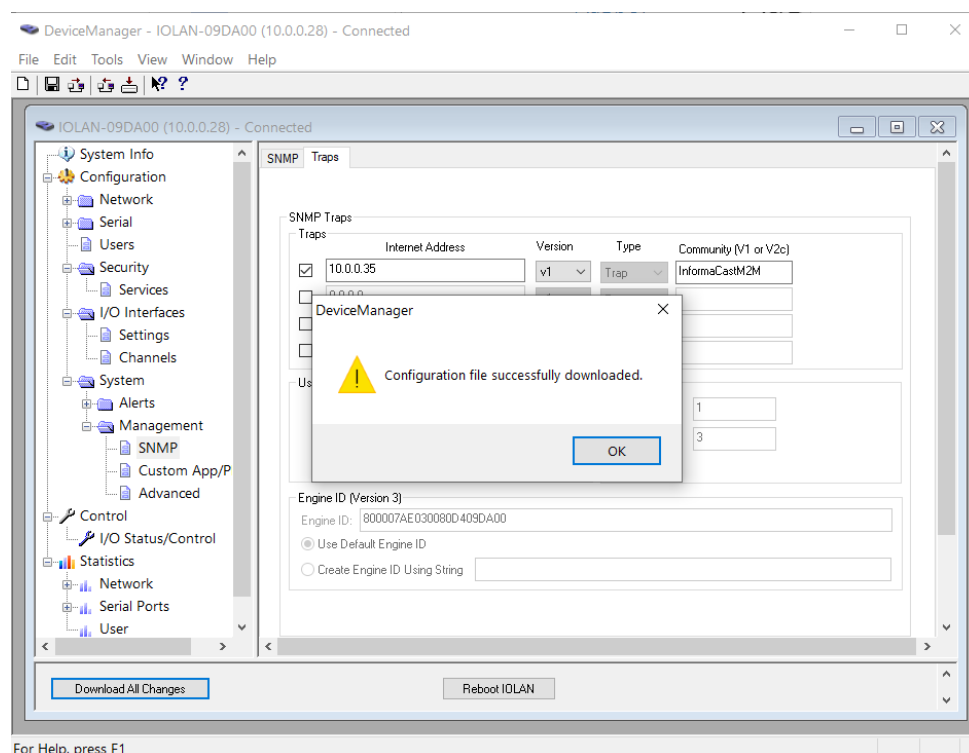


10. And the successful completion dialog.



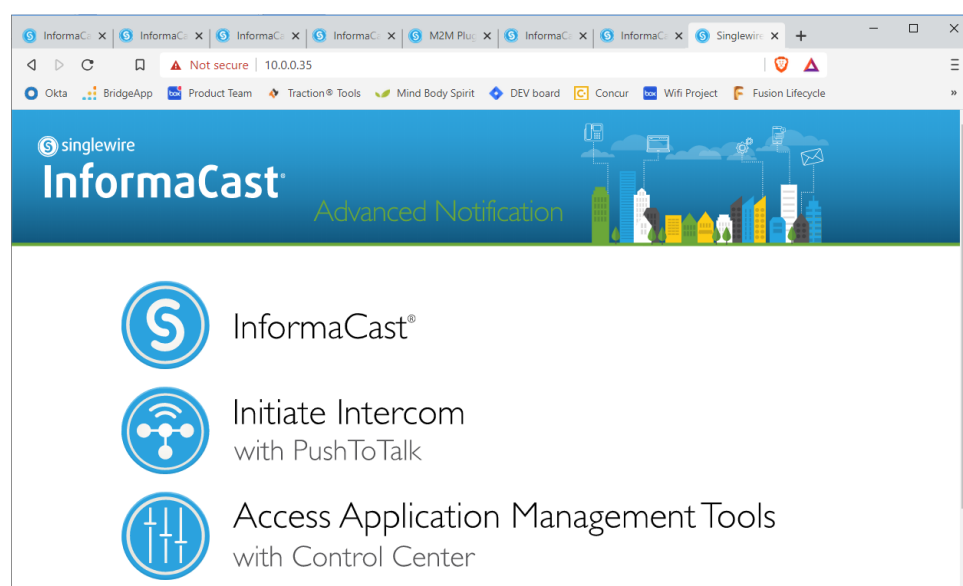
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11. You'll also need to select "Reboot IOLAN". We recommend you completely exit Device Manager after reboot and re-connect if you need to access the device again. You should wait at least a minute for the device to reboot.



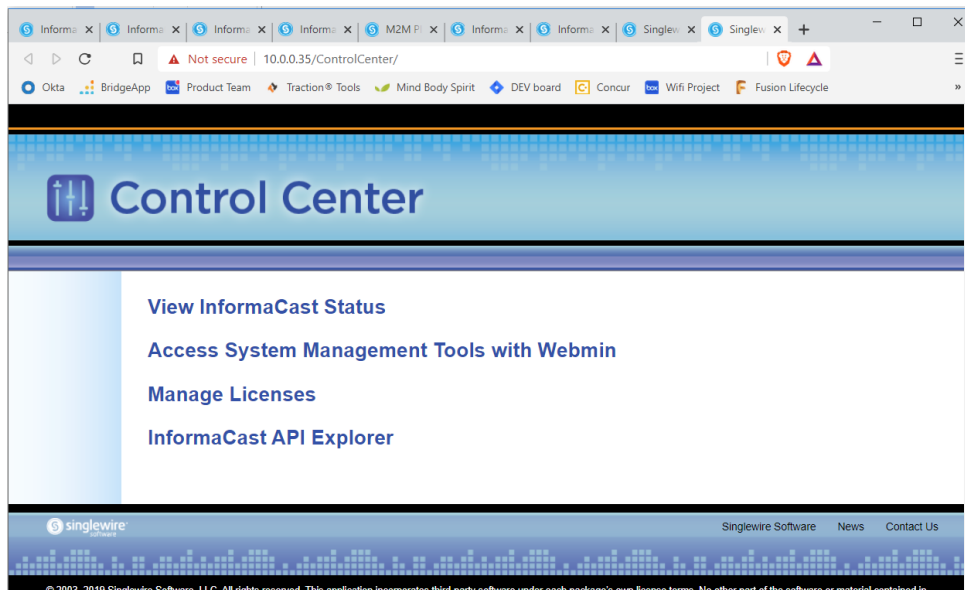
12. Now log in to InformaCast in your web browser at [https://\[yourserverip\]/InformaCast/Admin](https://[yourserverip]/InformaCast/Admin)

Note: We assume users are fully trained in the use of the Singlewire InformaCast platform. Primex cannot provide support or assistance beyond the scope of the information provided in this document. For further assistance contact your channel partner or Singlewire directly.

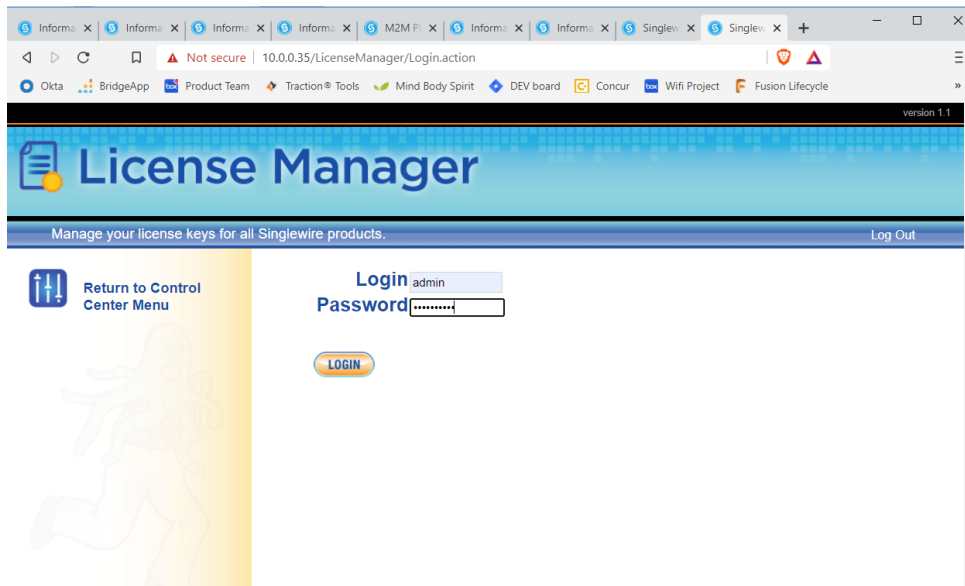


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13. Select the Access Application Management Tools, then select “Manage Licenses”.

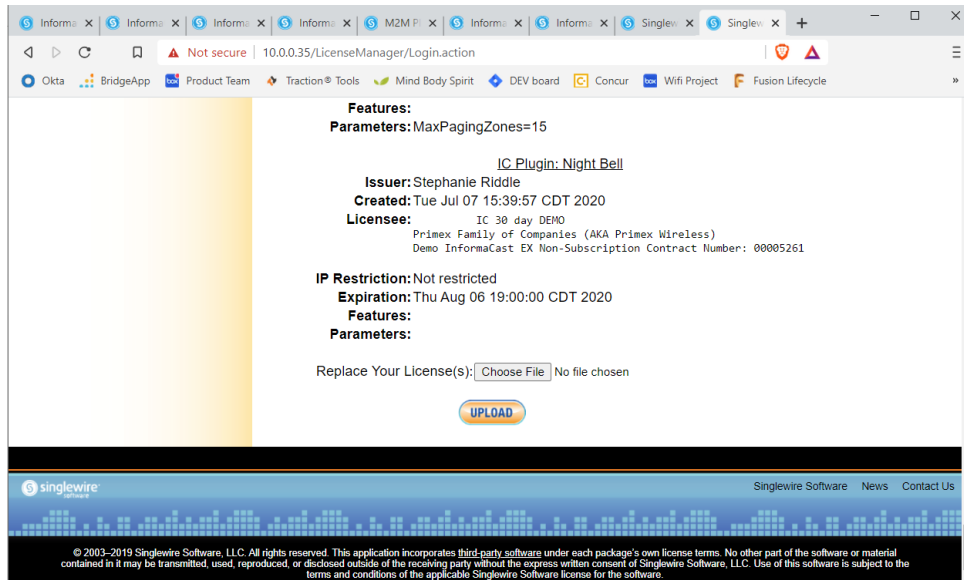


14. Login to the license manager application.

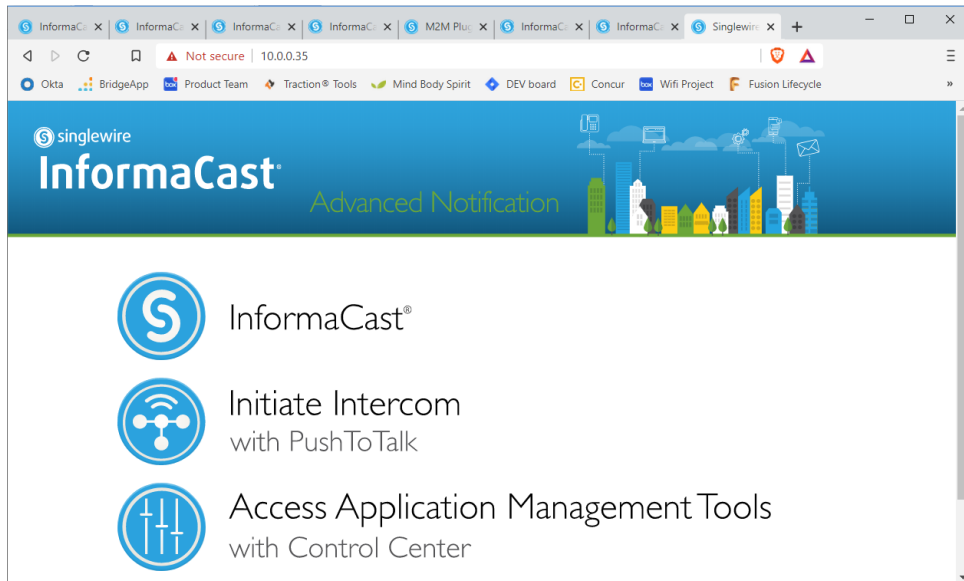


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15. Upload your license key file. Note: You'll need a license key file from Singlewire that includes InformaCast M2M device functionality.

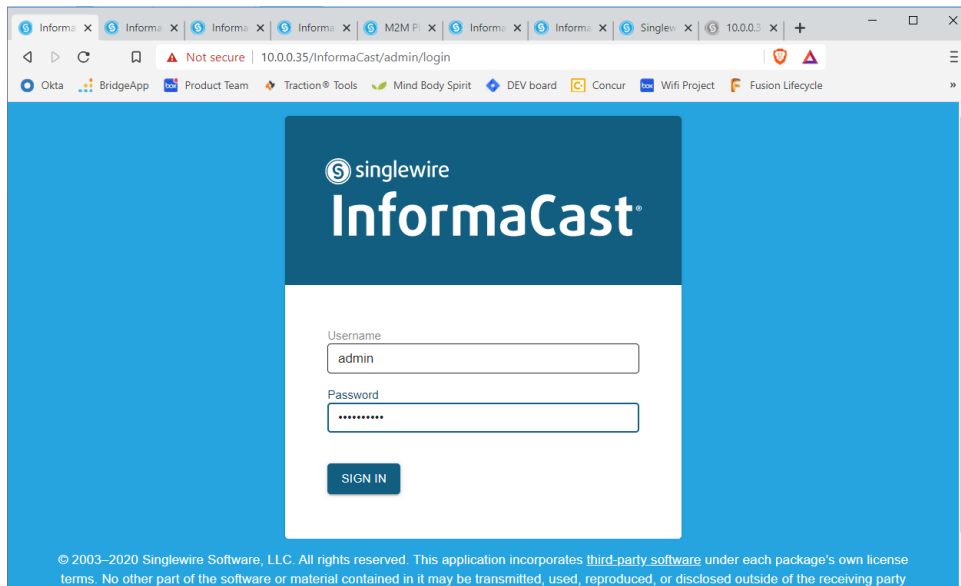


16. Now go back to the admin menu and select InformaCast.

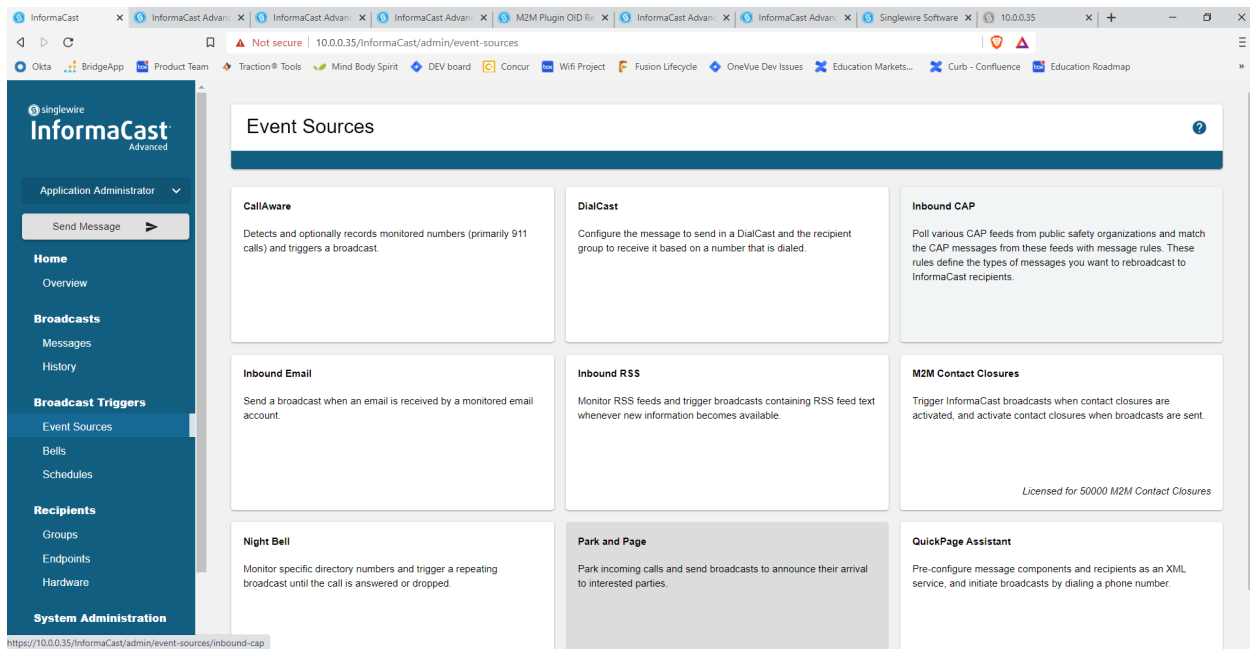


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17. Login to your InformaCast application.

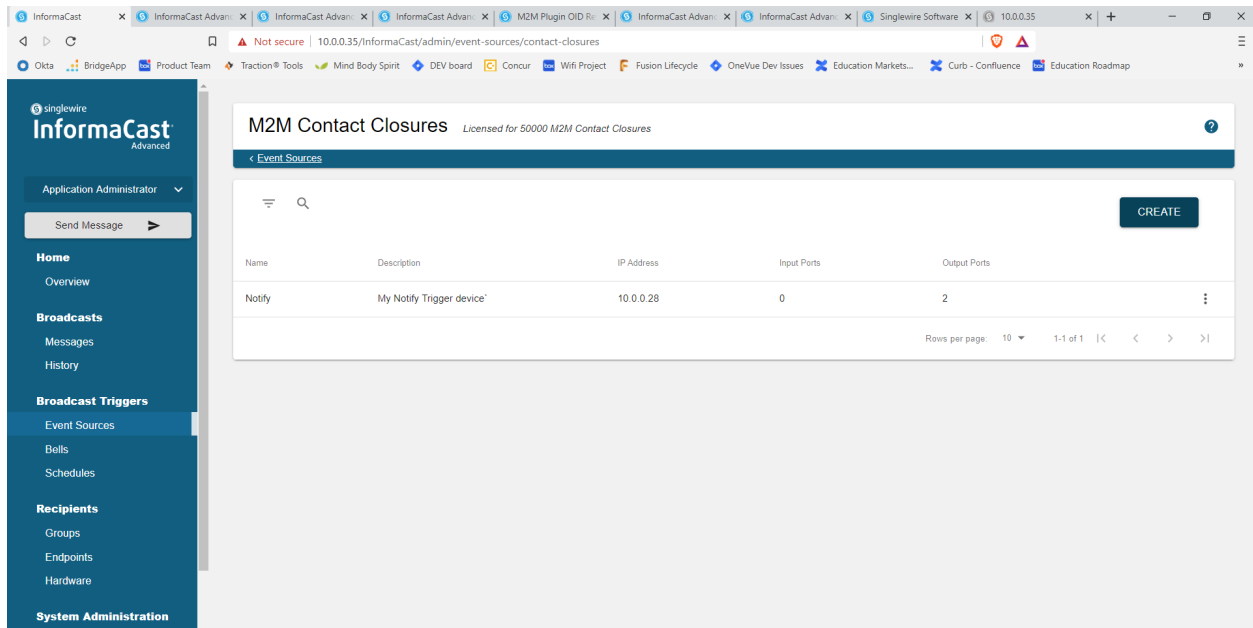


18. Go to Broadcast Triggers, Event Sources, and select the M2M Contact Closures

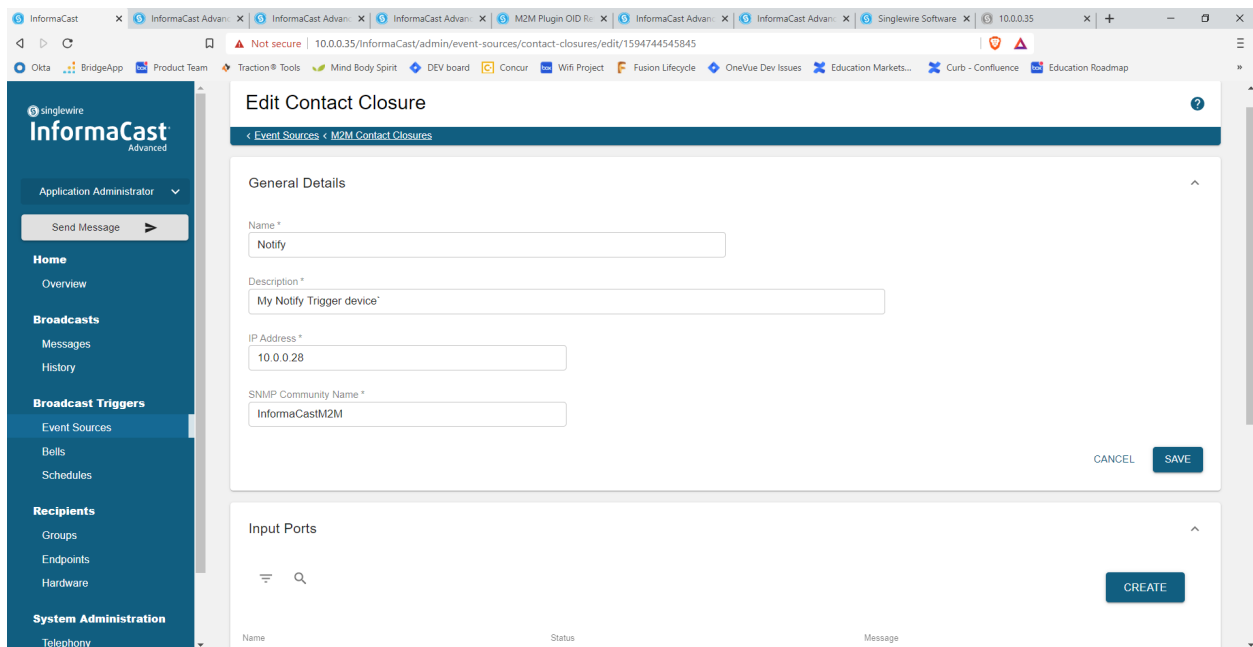


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19. Click “Create” to setup your contact closures.

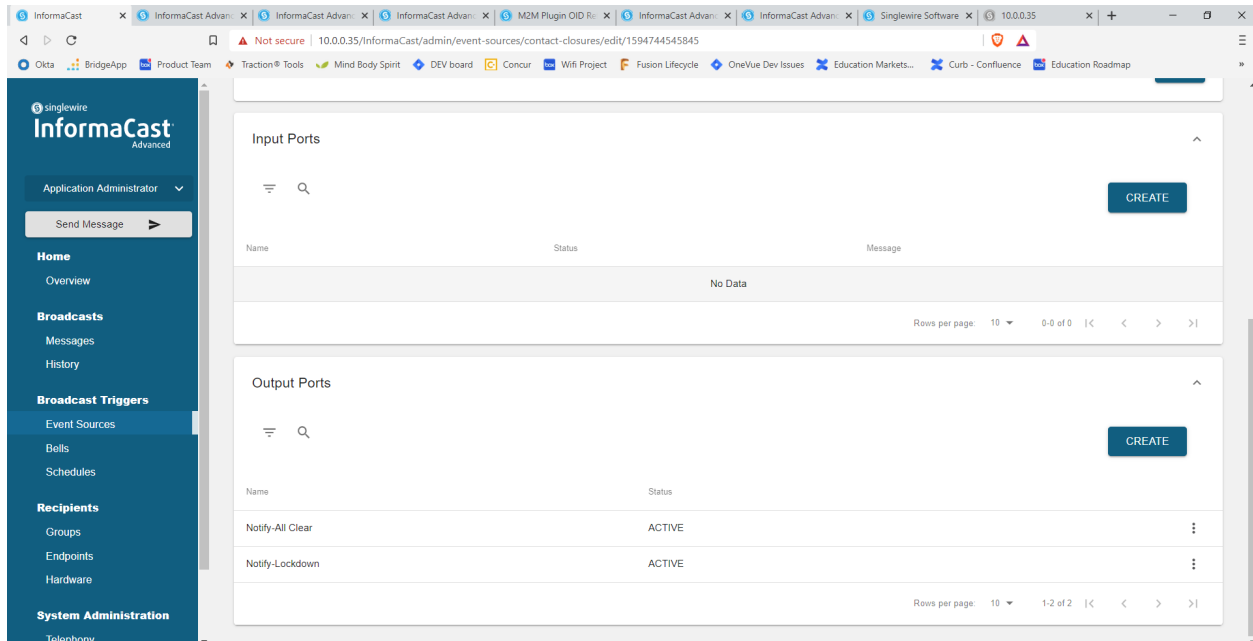


20. Under General Details give your contact closure pairs a name, and description, and specify the IP address of the Perle device you configured earlier as well as the InformaCastM2M community name for SNMP.

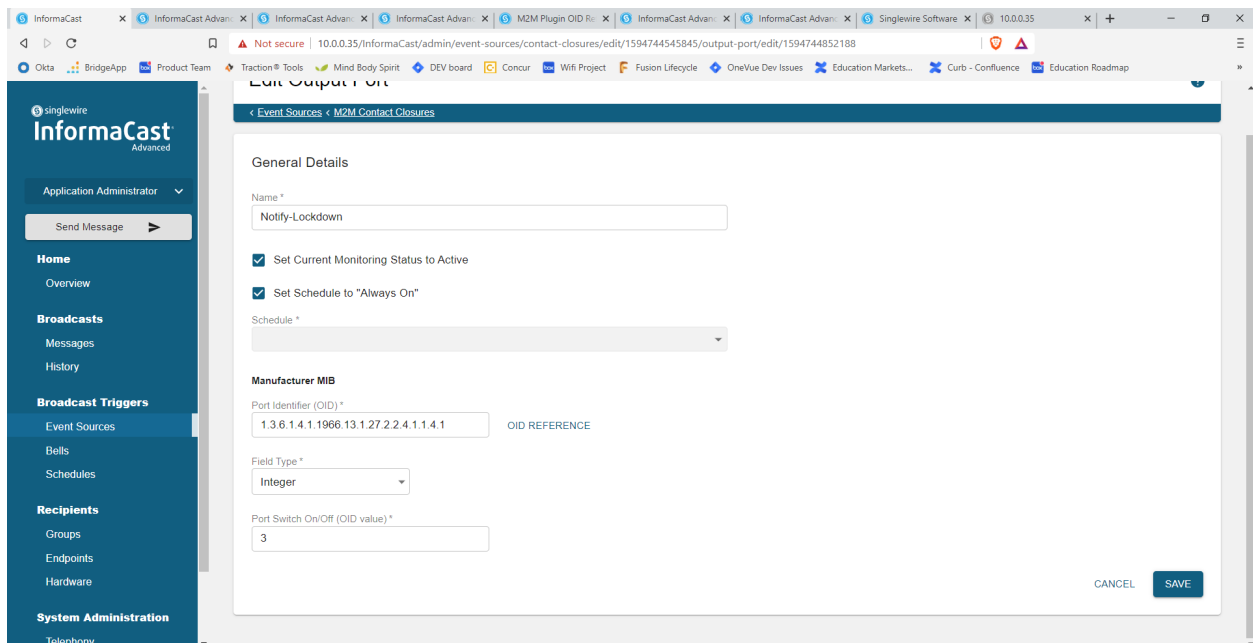


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21. Now scroll down to the bottom of the page to create the output ports. Select “Create” under “Output Ports”. You’ll need to create one for each relay.

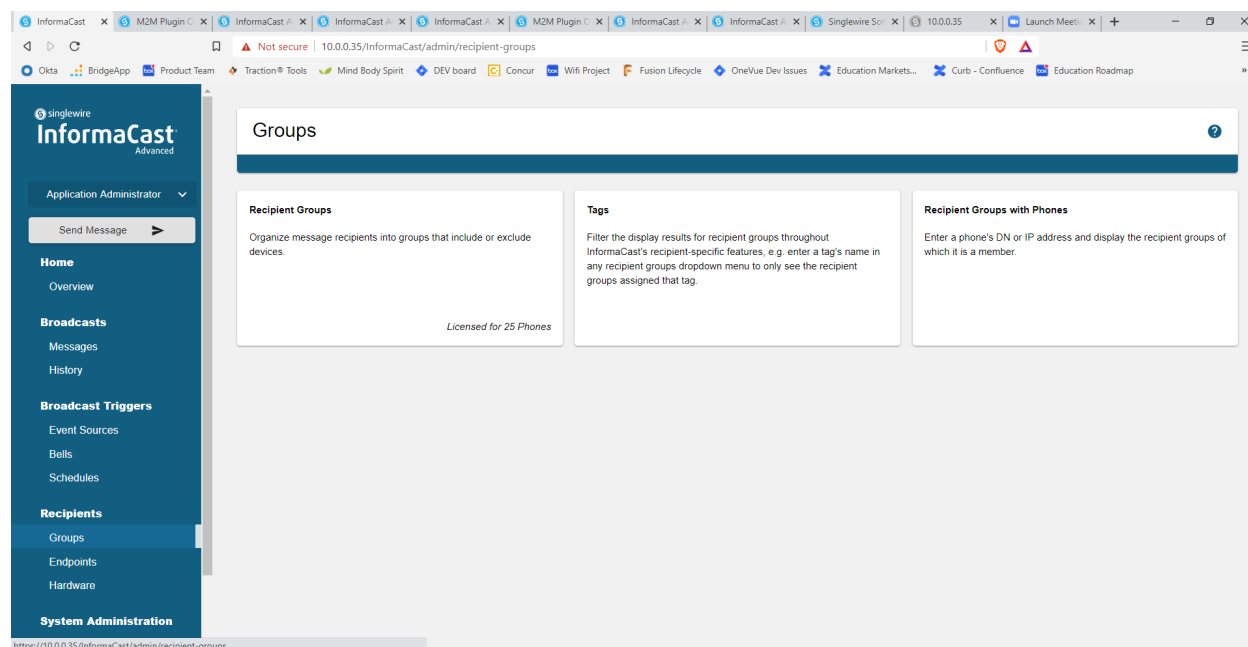


22. Based on the way you wired the Perle device to our OneVue Sync Transmitter you should name each relay accordingly. Also refer to the link on the OID reference, and paste in the output port identifier (OID) for the appropriate Perle device with a field type of Integer, and a port switch of 3 for OID value of ON. Repeat this process for other relays and other Perle devices.

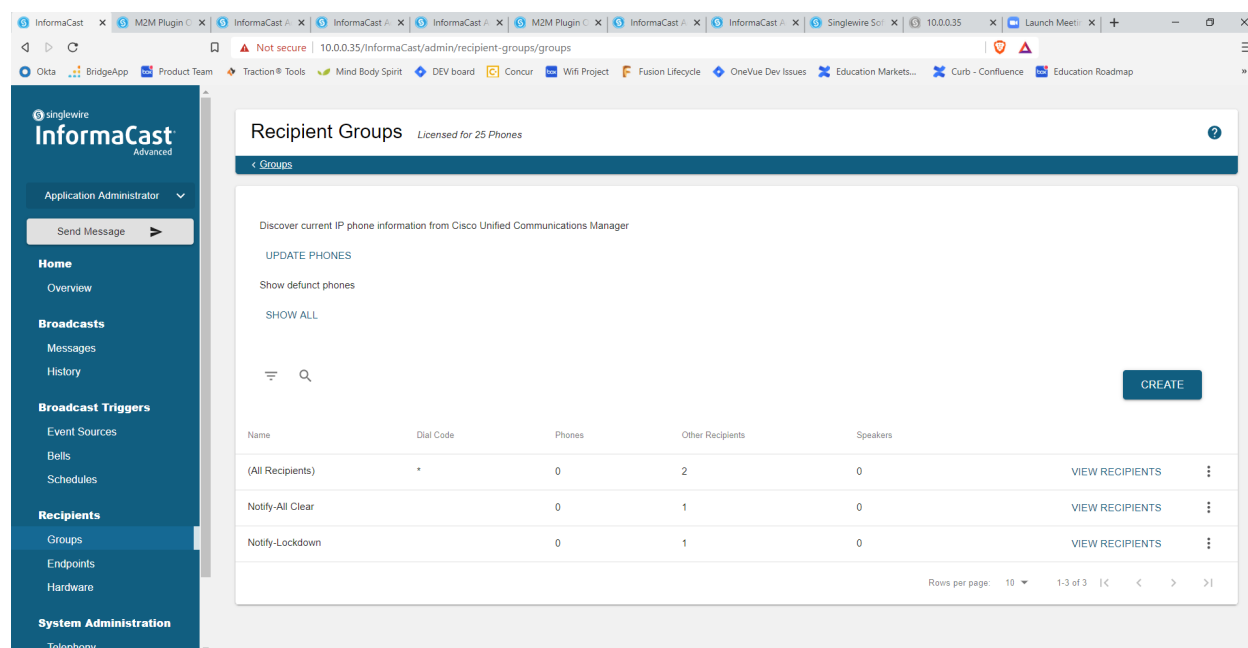


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23. Now that you have the event sources for M2M configured, you'll need to setup up recipient groups based on these. Go to Recipients, Groups, and select Recipient Groups.



24. You should configure a recipient group for each relay that corresponds to the event they are connected to on the OneVue Sync Transmitter. Click the “Create” button.



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25. Under General Details, give the recipient group a name that identify the event it will trigger, and select the appropriate output relay contact you created in the previous steps. Then click “Add Rules”

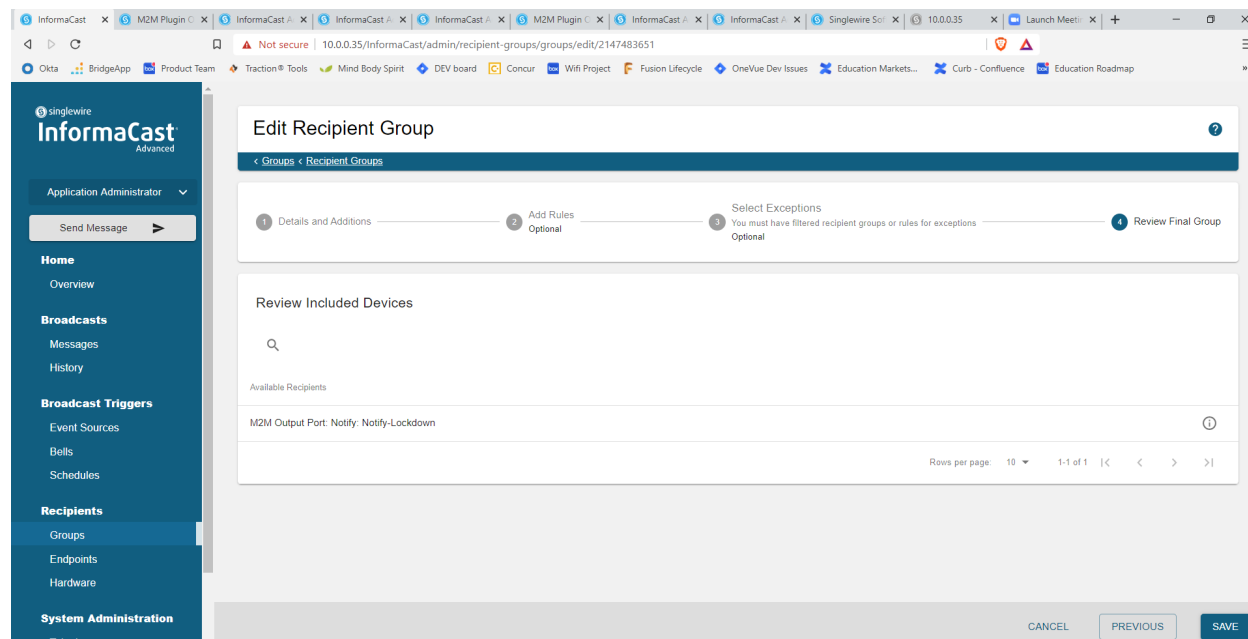
The screenshot shows the 'Create Recipient Group' form in the Singlewire InformaCast interface. The left sidebar contains navigation links: Home, Broadcasts, Broadcast Triggers, Recipients (selected), and System Administration. The main form area is titled 'General Details' and includes fields for 'Name *' (filled with 'Notify - Lockdown'), 'Dial Code', and 'Tags'. Below this is a section 'Select Individual Recipients' with a search bar and a table of available recipients. The table has two rows: 'M2M Output Port: Notify: Notify-All Clear' and 'M2M Output Port: Notify: Notify-Lockdown', with the latter selected. At the bottom right are 'CANCEL' and 'ADD RULES' buttons.

26. If you understand rules and would like to add some additional capabilities you may do so here. Otherwise click the “Review Final Group” button.

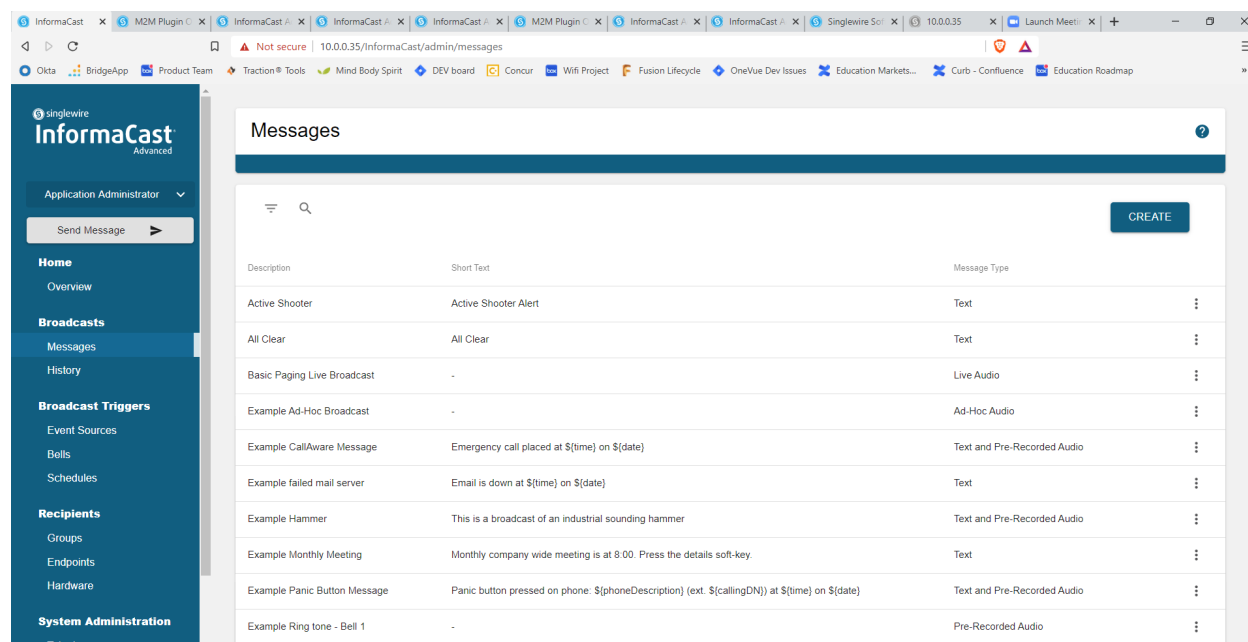
The screenshot shows the 'Edit Recipient Group' form in the Singlewire InformaCast interface. The left sidebar is the same as in the previous screenshot. The main form area is titled 'Edit Recipient Group' and includes a breadcrumb trail '< Groups < Recipient Groups'. Below this is a progress bar with four steps: 1. Details and Additions, 2. Add Rules (Optional), 3. Select Exceptions (Optional), and 4. Review Final Group. The 'Filter with Rules' section is active, showing a 'Logic Type' dropdown set to 'ALL' and a 'Logical Expression' field with the text 'All of the following rules are true.' and an example 'e.g. 1 AND (2 OR 3)'. An 'ADD CONDITION' button is at the bottom right of this section. At the bottom of the form are 'CANCEL', 'PREVIOUS', and 'REVIEW FINAL GROUP' buttons.

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27. And then click “Save”. Create recipient groups for each of the events you want to trigger. Note that these must be physically related to relays on the Perle and OneVue Sync Transmitter devices.

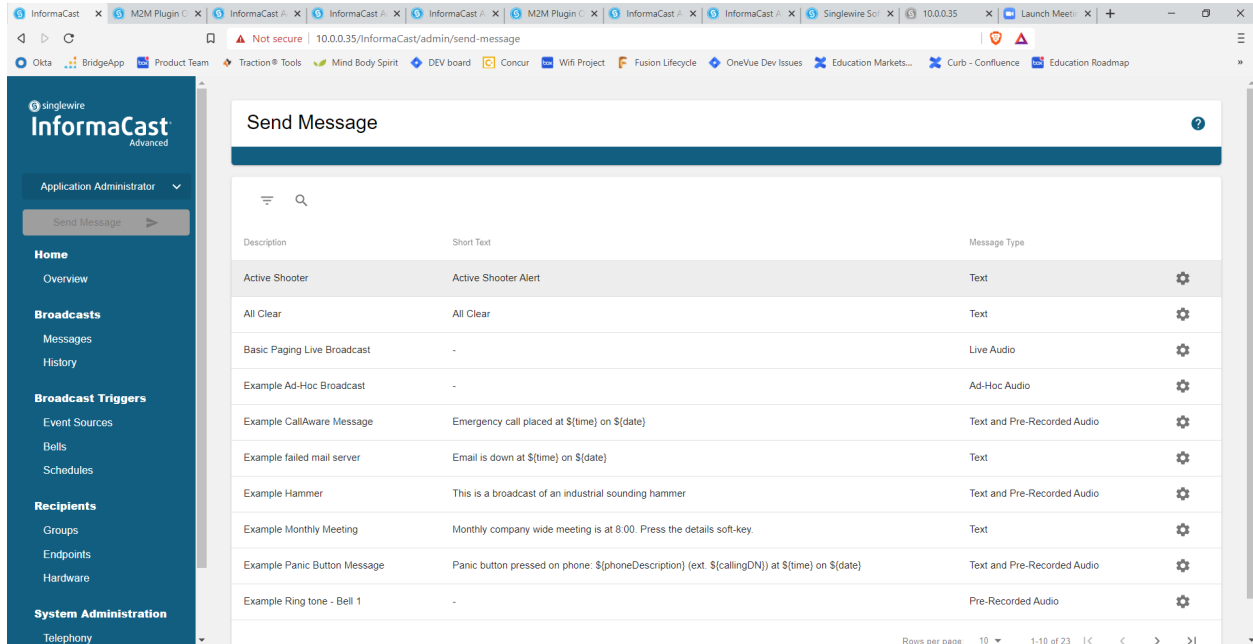


28. While you can use existing messages with the M2M recipients you just created, you may want to create custom messages specific to the event. You can do this by going to Broadcasts, Messages, and clicking the “Create” button.

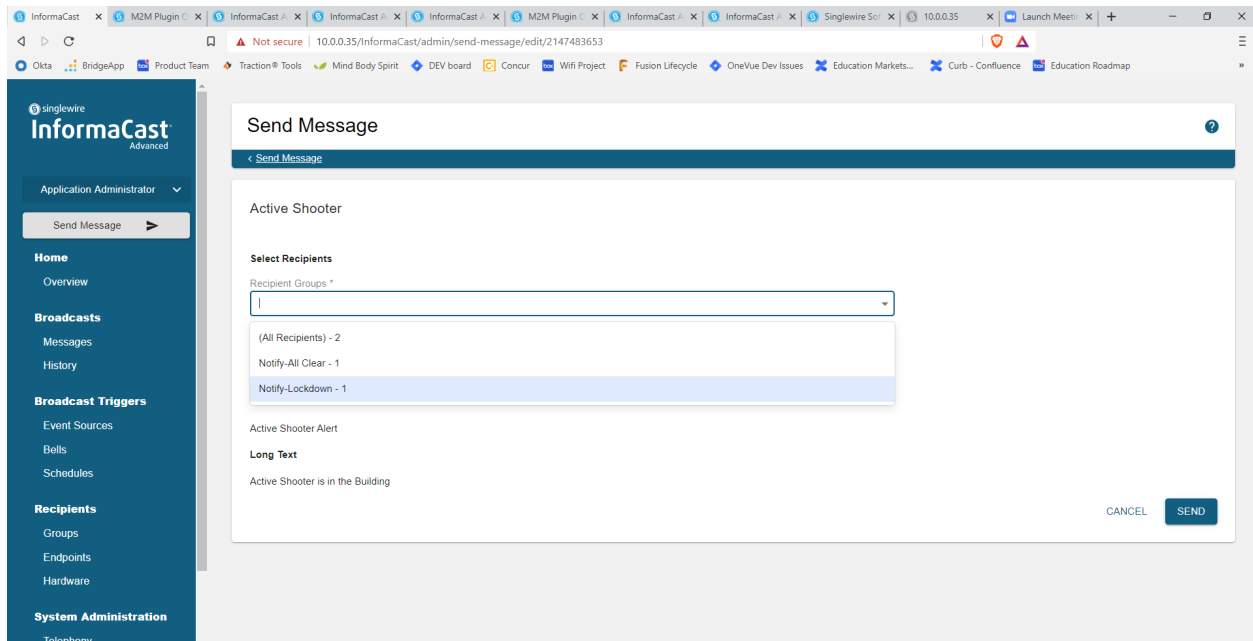


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29. Once you have messages created for Broadcast you can send the message to system recipients including the M2M contact closure device. Go to “Send Message” and select the message you would like to send. In this example, I’m selecting the custom “Active Shooter Alert” message I created.



30. Now select the appropriate recipient (s), in this case including the “Notify-Lockdown – 1” recipient which corresponds to relay 1 on the Perle device and contact 1 on the OneVue Sync Transmitter, and click “Send”.



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31. Any InfoBoard in range of the transmitter should now be displaying the “Lockdown” message.



InformaCast References

The following reference links were used in the preparation of this document.

https://www.singlewire.com/help/advanced/cucm/InformaCast/Plugin_Management/Configure_Individual_Plugins/M2M_Plugin/M2M_Plugin.htm

https://www.singlewire.com/help/advanced/cucm/InformaCast/InformaCast_Management/Configure_Messages_and_Broadcasts/Manage_Messages/Configure_Messages.htm

https://www.singlewire.com/help/advanced/cucm/InformaCast/InformaCast_Management/Configure_Messages_and_Broadcasts/Manage_Broadcasts_Sent_From_the_Web_UI/Send_a_Live_Broadcast.htm

<https://support.singlewire.com/s/article/M2M-Plugin-OID-Reference>