S Squared Innovations Inc.

S2BACLightConfig Quick Start Guide

Software Installation

1. Setup Applications

Locate the Setup application located on the USB stick and double click on the appropriate application:

> SetupS2BacLightDPConfig_Web.exe
> - This version requires Internet access in order to download the appropriate Windows
>   libraries needed.

> SetupS2BacLightDPConfig_DN481.exe
> - This version includes the appropriate Windows libraries needed.

2. Select the appropriate Folder to install the application. It is advised to **not** install the application in the typical Windows Program File folder, as these folders have a number of restrictions that can limit the Application's functionality. The default folder is "C:\S2Lighting\S2BacLightDP"

3. Simply select the various self explanatory options and then press the "Install" button to complete the installation.

4. The application should now be installed.

Scanning the Bacnet Network for S2BacLightDP Devices

5. Double-clicking the S2BacLightConfig Application will display the main startup screen with default parameters displayed.
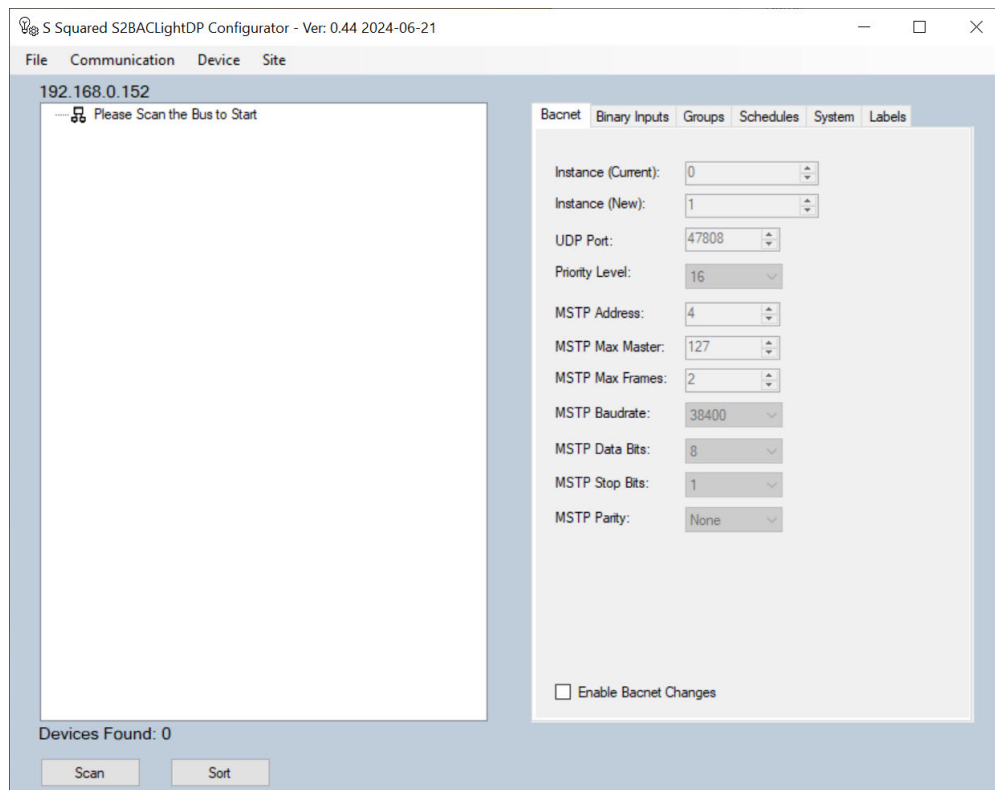
Since this is a quick start guide (QSG), many of the application's features will not be discussed. The QSG is intended to accelerate the user's understanding of the application and to rapidly configure the S2BacLightDP device via this Windows Application.

The first step is to scan the Bacnet communication bus for any S2BacLightDP devices that have been connected to a Bacnet network with the factory or default bacnet communication parameters.

The application can scan Bacnet IP and MS/TP networks that the user's computer is connected to. For Bacnet IP, the user's computer must be connected to the Bacnet network via a Ethernet or Wifi interface. For Bacnet MS/TP, the user's computer must have an appropriate RS485 interface (such as the S2USB485, etc) that is connected to the appropriate Bacnet MS/TP network. By default, the application assumes that the user's computer is Bacnet IP connected. To change to Bacnet MS/TP, the user must select the menu item "Communication" and select the "Bacnet MS/TP" choice. The user will then be presented with a MS/TP Setup screen where the user will enter the appropriate MS/TP parameters
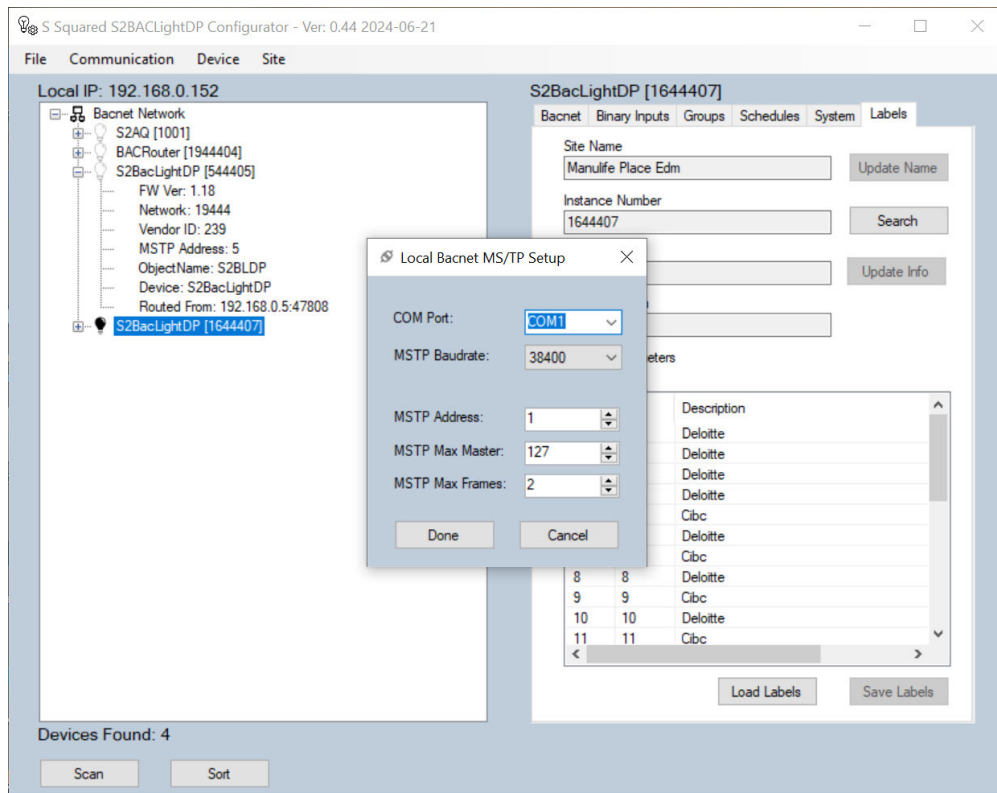
Once the user has selected the communication interface, all that remains is to scan the Bacnet Network for any S2BacLightDP devices. Scanning the bus can be done either by selecting the "Scan" button on the lower Left portion of the main page, or via the command located in the menu item "Device-Scan Bus"

Bacnet Bus scanning can take several seconds or minutes depending upon the size of the Bacnet connected devices.   Once complete, the left pane will display "Bacnet Network" with a plus "+"sign next to it. Clicking on the "+" sign will expand the list and present a list of Bacnet Instances that were found/discovered.
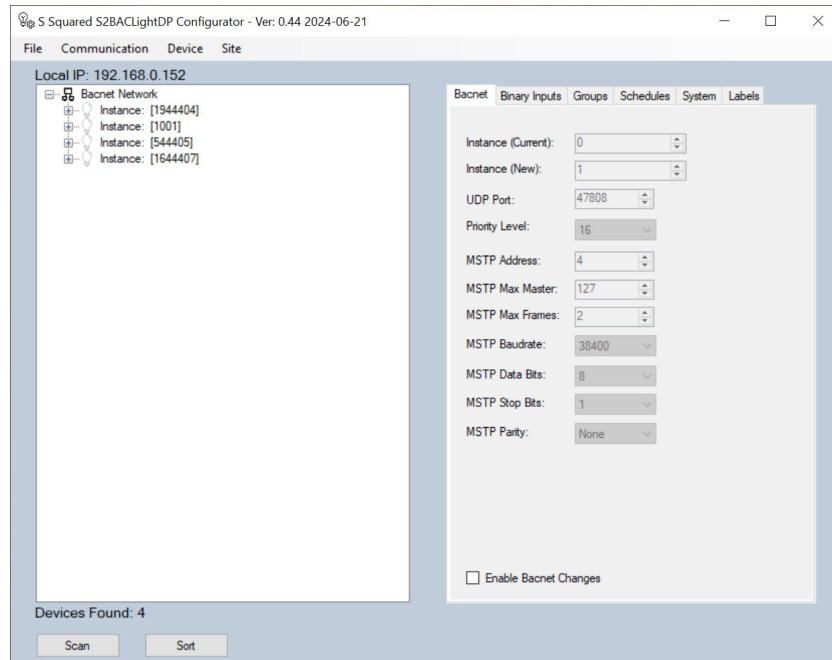
Expanding the "+" signs of the found Bacnet devices will basic bacnet details of the device(s)
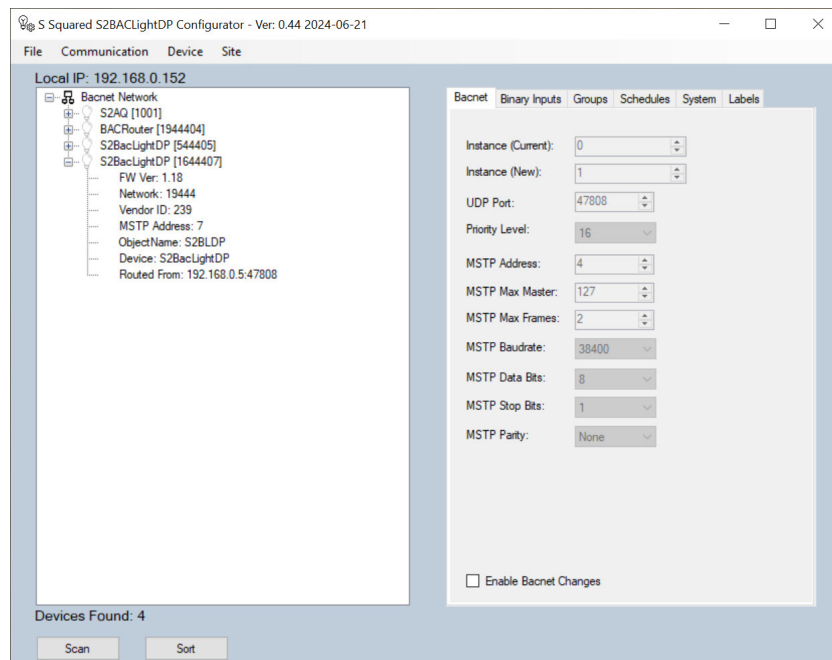
Examine the Bacnet Instances for any S2BacLightDP devices that were installed. If S2BacLightDP devices were found, then the user is directed to execute the menu command of "Device-Scan Device Info". Any found S2BacLightDP devices will include additional information of the device.
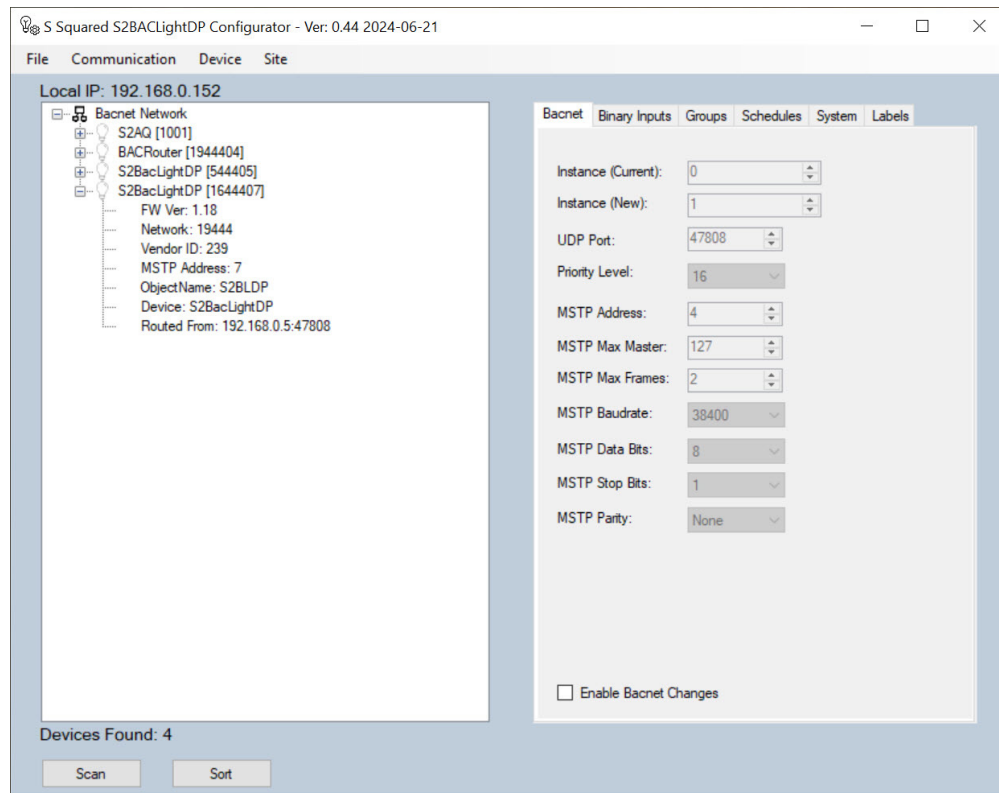
At this point, the user can now retrieve, update, and control the S2BacLightDP devices.

Interacting with Bacnet Network "found" S2BacLightDP devices

6. To interact with the S2BaclightDP devices, the user must select the S2BacLightDP device from the found devices located on the left side of the application. Selecting the device is done by double-clicking the appropriate S2BacLightDP device. Double-clicking will highlight the icon adjacent to the S2BacLightDP device and will update the "Instance (Current)" field located on the right side of the application – "Bacnet" tab. It is **important** to ensure that the "Instance (Current)" field is correct, as it is this Bacnet instance that the application will use for its various commands.

Retrieving S2BacLightDP's current Configuration

7. As discussed in the previous section, select the found S2BacLightDP device that the user wishes to retrieve the current configuration. Ensure the "Instance (Current)" field is correct and then execute the menu item "Device-Configuration-Retrieve". If successful a "Device Configuration Received" message will be displayed.
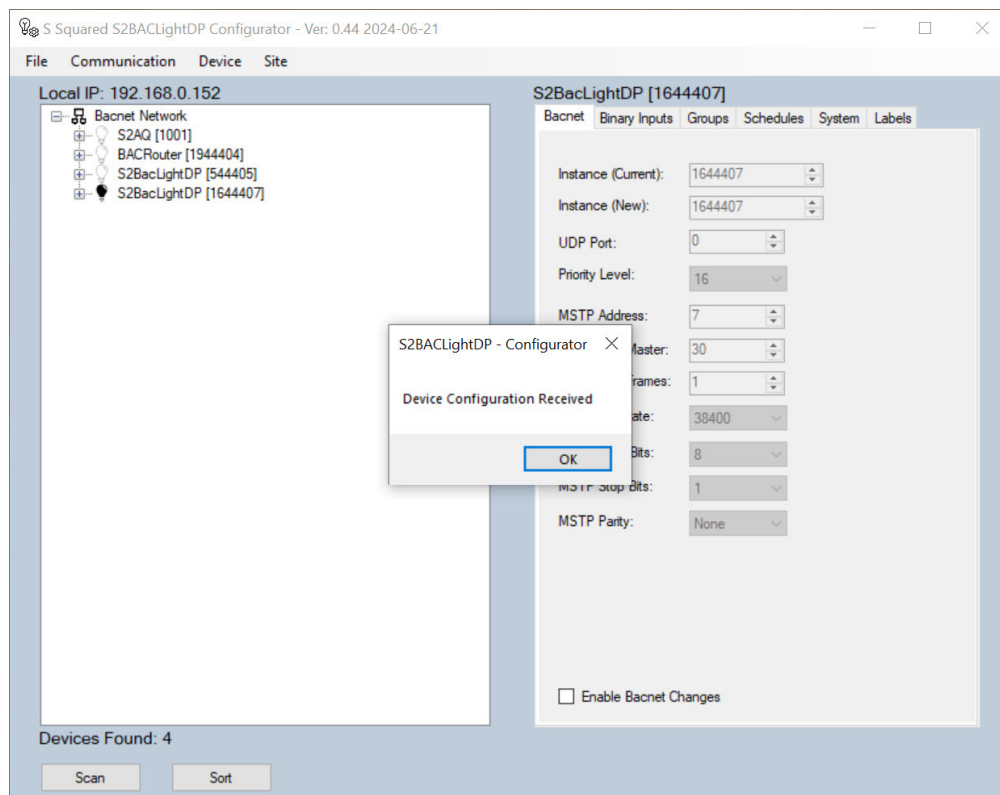
The retrieved configuration will update the various fields in each of the right pane tabs.

Changing the Bacnet Parameters

8. Changing the Bacnet parameters requires the "enable bacnet changes" to be checked. Upon doing so, all of the various fields will allow editing/changes.

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Updating the S2BacLigthDP Parameters

9. Updating the S2BacLightDP with any changes (Bacnet or other items) is done via the menu item "Device-Configuration-Update and Reboot" command. Ensure that the "Instance (Current)" field still contains the original Bacnet Instance, as it is this instance that configuration will be sent to. S2BacLightDP configurations do require the device to be power cycled/Rebooted which is automatically done via the command indicated above.

It is usually prudent to save/archive the configuration to a file. To do this, simply select the menu item "File-Save Config" command and enter the appropriate file name and folder location.

Once the configuration has been updated, the user will need to rescan the bacnet network as directed in section "Scanning the Bacnet Network for S2BacLightDP Devices".

Updating other S2BacLigthDP Parameters

10. There are a number of other S2BacLightDP parameters that can be modified using this application. Since this is a quick start guide, these other parameters will not be presented at this time. Later revisions to this document will include this information.

S2BacLight Real Time Status and Control

11. This application allows for real time status acquisition of the attached S2BacLightDP relays along with their control. To do so, the user must first scan and select the appropriate S2BacLightDP device as indicated in the "Scanning the Bacnet Network for S2BacLightDP Devices" section.

Once the desired S2BacLightDP device is selected, retrieving the current statuses of the S2BacLightDP's relays is done via the menu item "Device-Relay Status…" command. Executing this command will reveal a graphic images of the S2BacLightDP device with check boxes adjacent to each of the relay outputs. If the checkbox is checked, then the relay is "On" and if unchecked the relay is "Off" (or not Present).
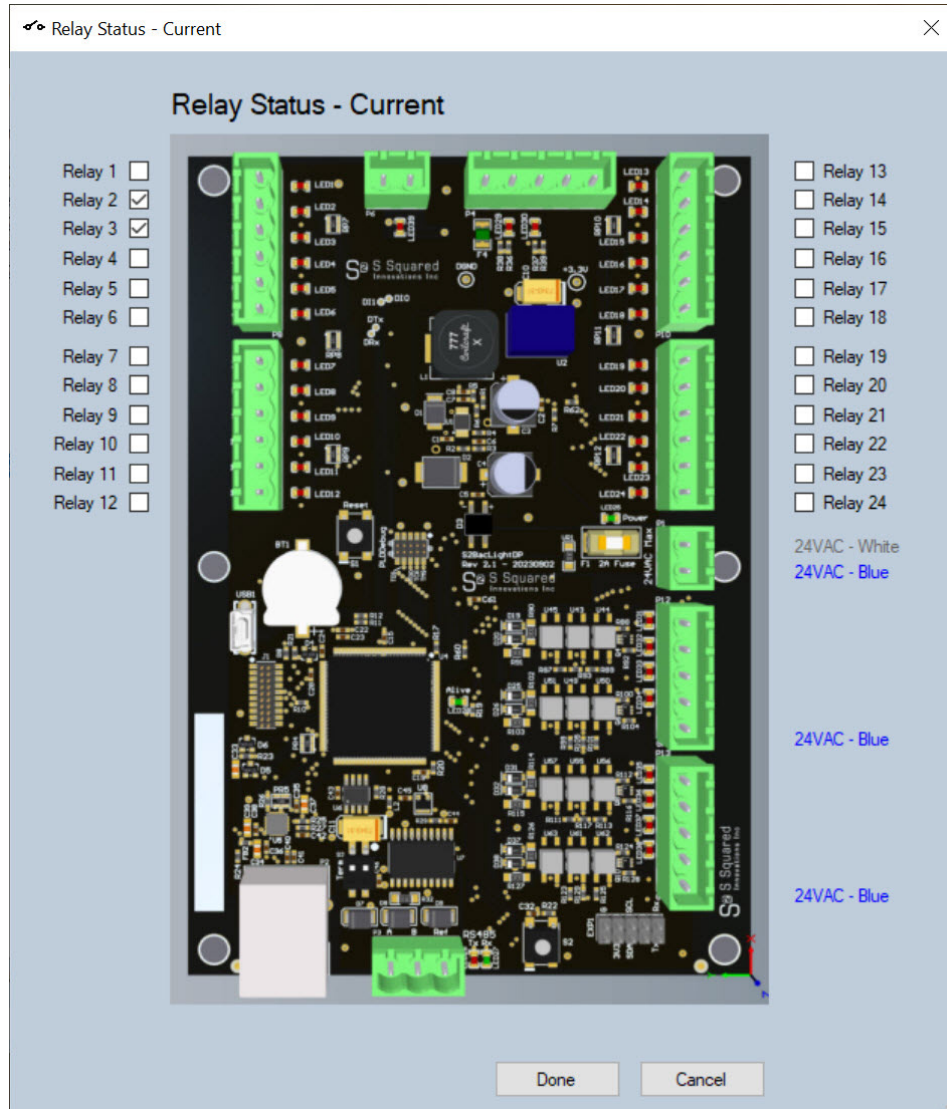
If the user wishes to change the relay state, simply check or uncheck the desired relay(s) and select the "Done" button. The user will be prompted with a confirmation screen which they can can accept (select the "Ok" button) or cancel.
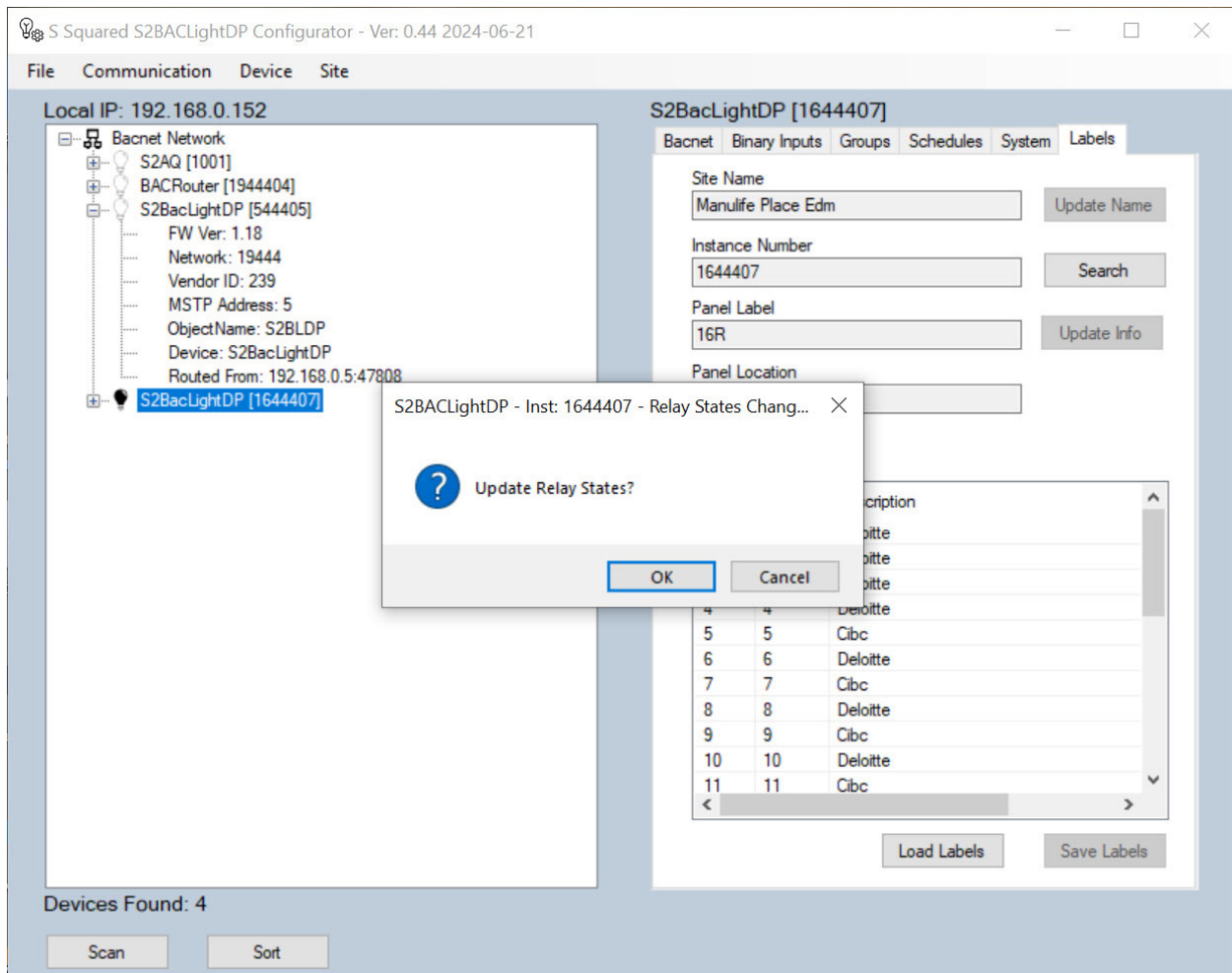
Any relay state changes will be sent to the controller and will be immediately updated assuming that the priority level of controller is the same or higher than any previous BMS relay issued commands.

It is also noted, that this application works alongside any other Bacnet control system communicating with the respective S2BacLightDP controllers.

This QSG is now concluded. Should the user require support or more information they are directed to contact S Squared Innovations via email or phone.