# DL-302

## Mobile Android App User Guide

# About This Guide

This guide provides information about the services and functions available with the Android App for the DL-302 and how to access them.

# The topics covered in this guide include:

- **Introducing the DL-302 App**

- **Installing the DL-302 App**

- **Understanding the Navigation Panel**

- **Accessing data from the DL-302 device**

- **Understanding the Monitor Screen**

- **Searching for DL-302 devicesSetting a Group**

# 🎨 Introducing the DL-302 App

The Android App for the DL-302 is designed to enable data from an ICP DAS DL-302 device to be remotely accessed and monitored. The App can be used to display real time CO2, temperature and humidity measurements from the DL-302 device that can be accessed either by entering a specific IP address, or by performing an automatic search for available devices.

This App adheres to the Android human interface guidelines for a productivity App, so it can be used immediately without the need for any complicated configuration.

## Technical Support

The App is designed to be easy to use, so only includes functions related to device monitoring.

● For details of more extensive functionality, refer to the User Manual for the DL-302 Logger Utility that can be found at:
http://ftp.icpdas.com/pub/cd/usbcd/napdos/dl-302/dl302_logger/

● For more information related to the DL-302 device, refer to:
http://www.icpdas.com/root/product/solutions/remote_io/rs-485/dl_series/dl-302.html

# 🎨 Installing the DL-302 App

There are two methods of installing the DL-302 App.

- Use the QR Code App on a mobile device (e.g., Barcode Scanner) to scan the QR code shown below. After scanning the code, a web page will be opened where the app can be downloaded. This is the preferred method and ICP DAS strongly recommends using this approach.



- Alternatively, use the browser on the mobile device to access the following website to download and install the DL-302 App:

  http://ftp.icpdas.com/pub/cd/usbcd/napdos/dl-302/android_app/dl302.apk

# Understanding the Navigation Panel

The App uses a navigation panel that identifies the user location, and provides user action and navigation modes. This offers users a familiar interface across applications that the system gracefully adapts for different screen configurations.
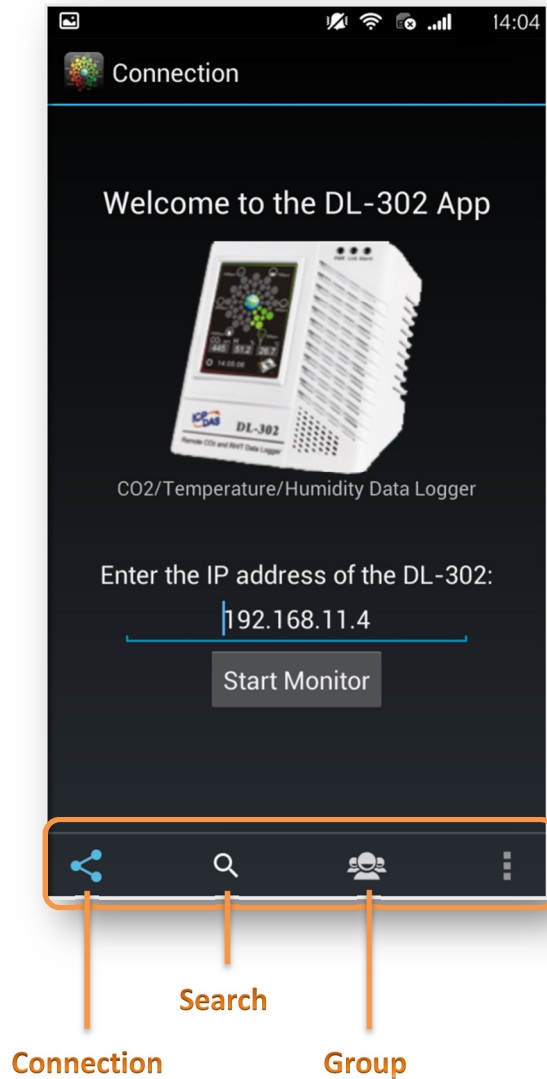
# Accessing data from the DL-302 device
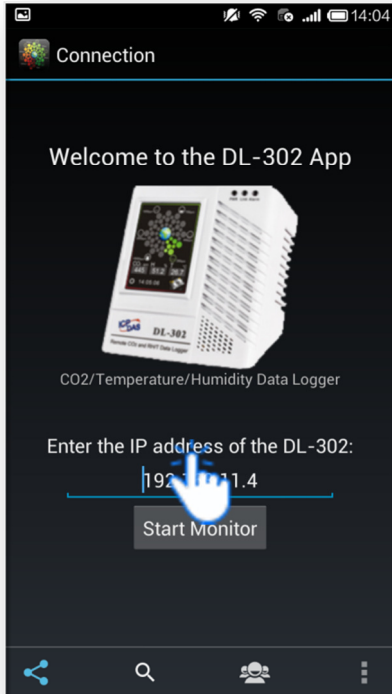


● **Automatically record the last connected IP address**

The IP address field automatically shows the last connected IP address, which means that the IP address does not have to be repeatedly entered when connecting to the same device.
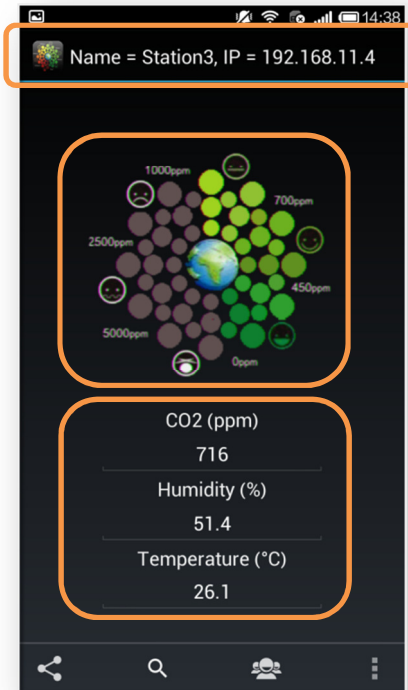
● **Open connection**

On the "Connection" screen, enter the IP address for the DL-302 device to be monitored, and then tap the "Start Monitor" button to connect to the device.

Once a connection has been established, a page will be displayed that indicates the real time CO2, temperature and humidity readings.
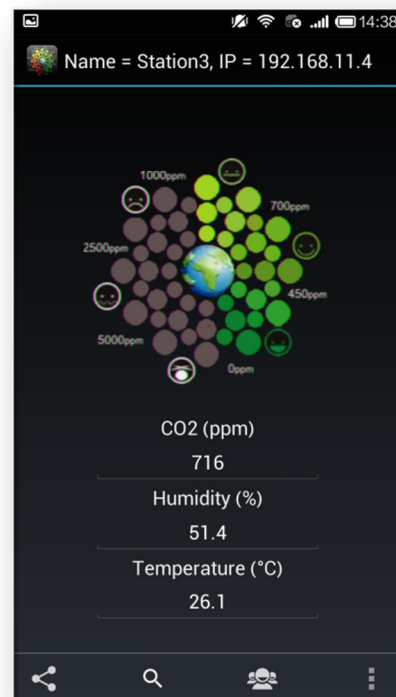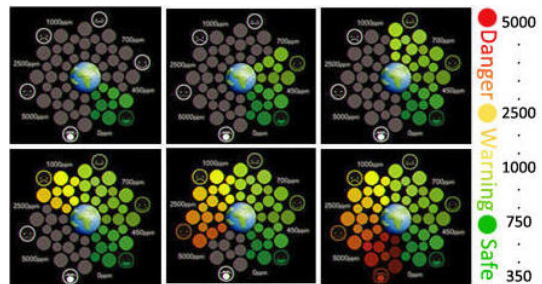
# Understanding the Monitor Screen

**Alias and IP Address**

The alias and IP address of the connected DL-302 are displayed in the title bar.

**Visual reference for current CO2 levels**

The colors in the CO2 status monitor will change from green to red to indicate the different CO2 values.

**Real time values**

Indicates the real time CO2, temperature and humidity readings.

The following is an overview of how rising CO2 levels affect the human body.

| | ppm | |
|---|---|---|
| 😖 | 5000 | The maximum permissible workplace exposure limit within an 8-hour working period. |
| 😖 | 2500 | Level associated with complaints of headaches, sleepiness, and other adverse health effects. |
| 🙁 | 1000 | Level associated with complaints of drowsiness and dizziness. |
| 😐 | 700 | Level associated with complaints of poor air quality. |
| 🙂 | 450 | Typical concentration for occupied indoor spaces with good air exchange. |
| 😄 | 350 | Normal background CO2 concentration in outdoor ambient air. |

# Searching for DL-302 devices
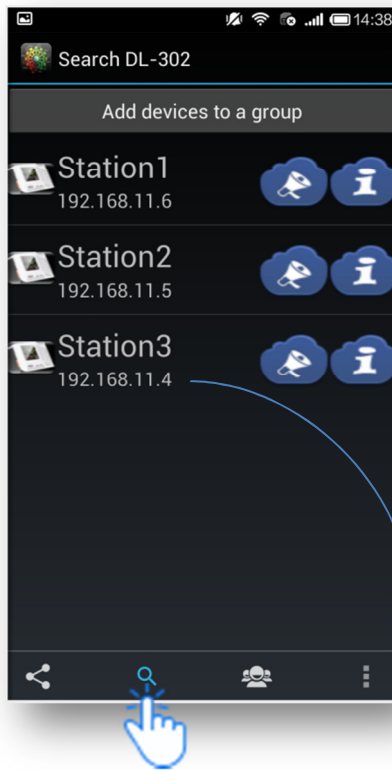


- **Search**

If the IP address for the specific device is unknown, tap the Search icon to search for all DL-302 devices that exist within the same domain as the mobile device connected through the Wi-Fi connection.

- **List all the discovered DL-302**

Once the search is complete, a list of the discovered devices will be displayed. If no devices are identified, a message box will be displayed to advise that no devices have been found.

- **Viewing data for a specific device**

Tap the name of a device to display the real-time CO2, temperature and humidity data for that device.



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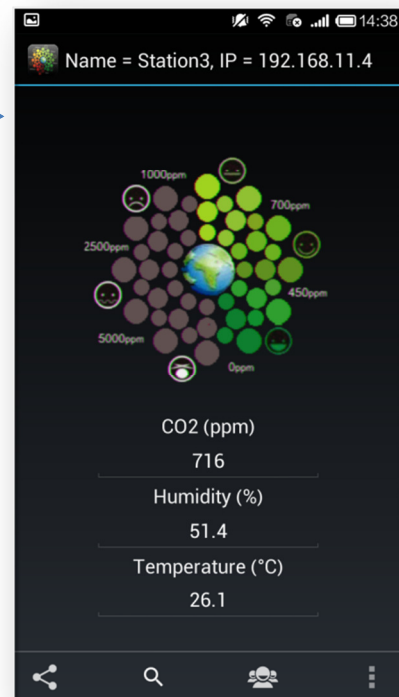
● **Viewing the device information**

Tap the  icon on the device list page to view the information for a specific module. Tap the "OK" button to close the message box.
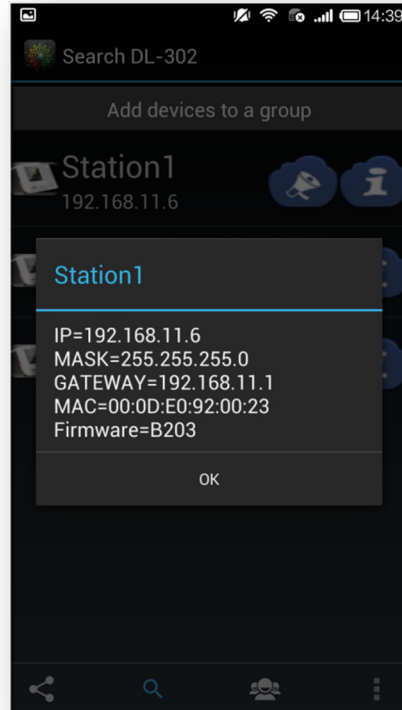


● **Triggering an Alert**

The DL-302 App can be used to trigger an alert on the DL-302 device. To enable this function, tap the  icon on the device list page to instruct the device to sound an alert. The green power LED on the DL-302 device will flash while the alert is sounding.
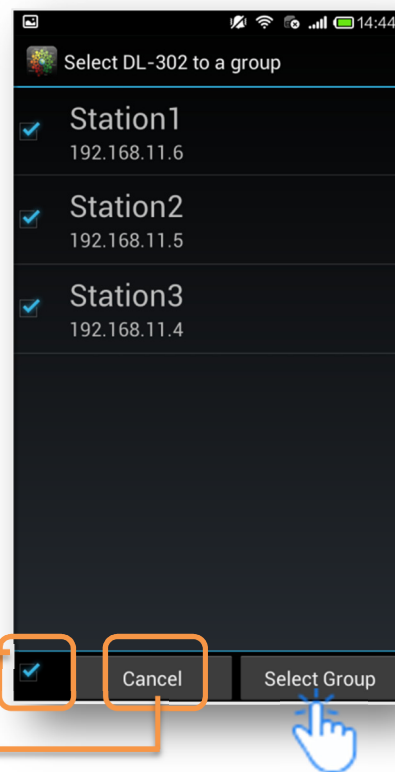
● **Add devices to a new group**

The discovered DL-302 devices can be added to a specific group, which helps to organize DL-302 devices into logical groupings to simplify management, monitoring, and configuration.
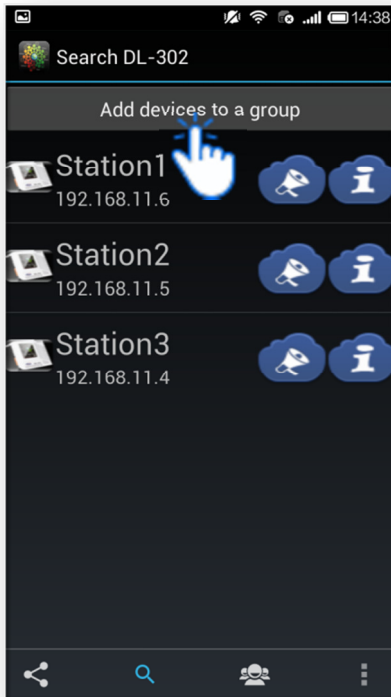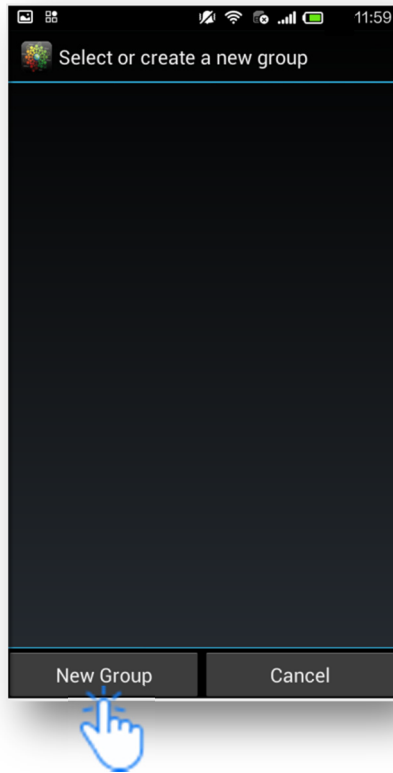
Step 1: Tap the "Add devices to a group" button to open the "Select Devices" page. Check the checkbox for the devices that are to be added to a group.
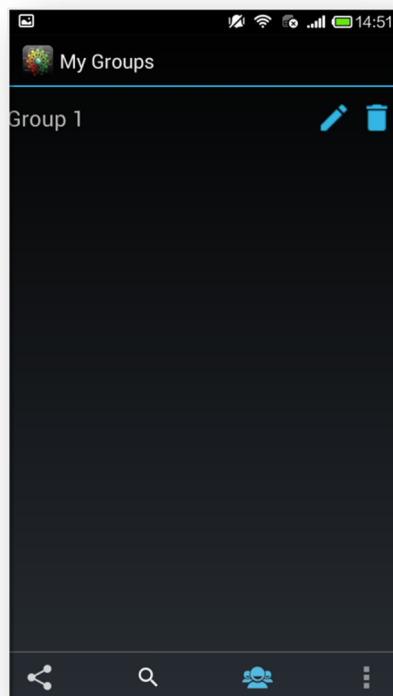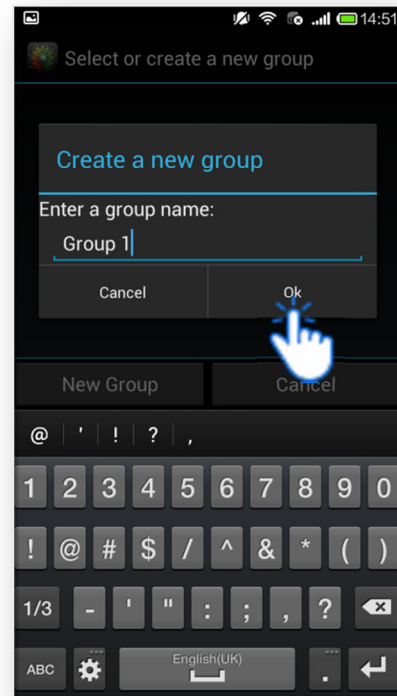
Select or deselect all devices

Return to the previous search results page

Step 2: Tap the "Select Group" button to open the "Select group" page.

Step 3: If no groups currently exist, a new group must be created. Tap the "New Group" button to create a new group.

Step 4: Enter a name for the group and then tap the "Ok" button to create the new group. Once created, the group list page will be automatically displayed.

- **Add devices to an existing group**

If a group already exits, the group names will be listed on the "Select or create a new group" page allowing devices to be added to an existing group.



Step 1: Tap the name of the group to directly add the selected devices to the existing group.
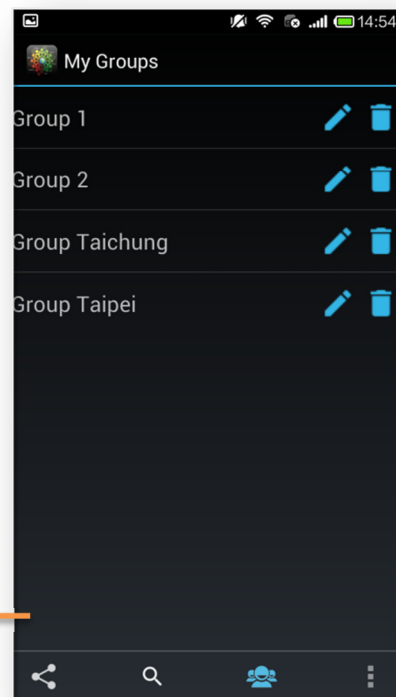
After adding the devices, the group page listing all existing groups will be automatically displayed.

## 🎨 Setting a Group

- **List all groups**

  Tap the Group icon, and a list of all existing groups will be displayed.

- **Change the name of a group**

  Tap the ✏ icon for a selected group, and then enter a new group name in the dialog box. Tap the "Ok" button to save the new name.
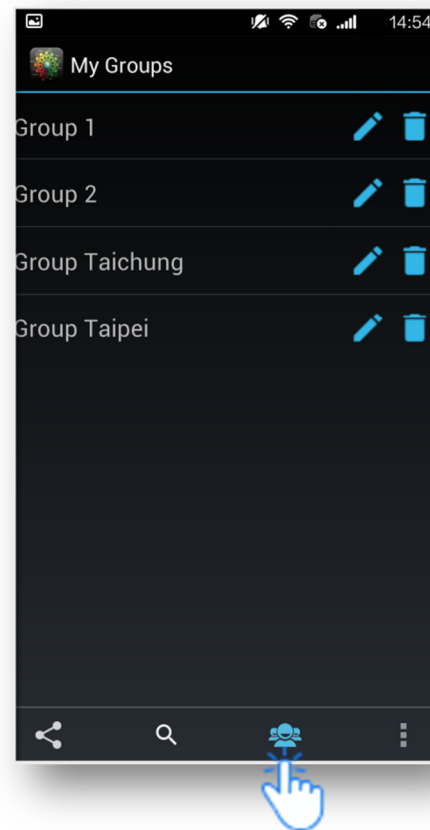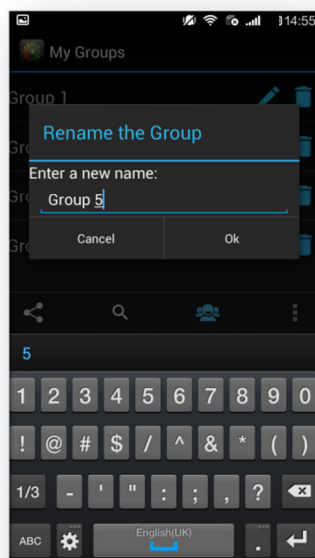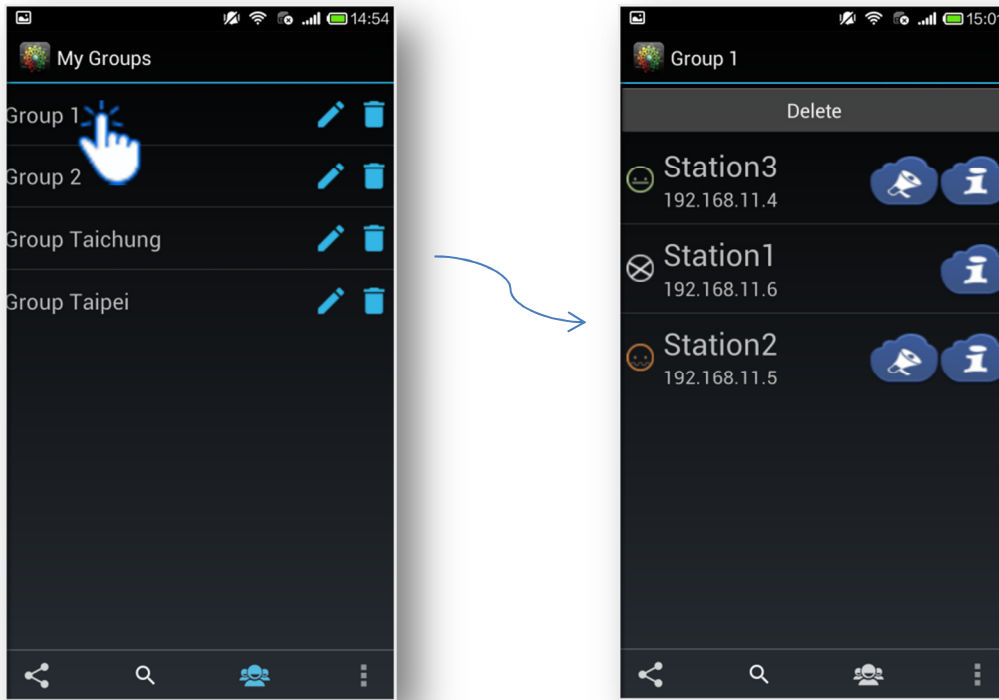




- **Delete a group**

  Tap the 🗑 icon for a selected group, and then tap the "Ok" button in the confirmation message to delete the group.
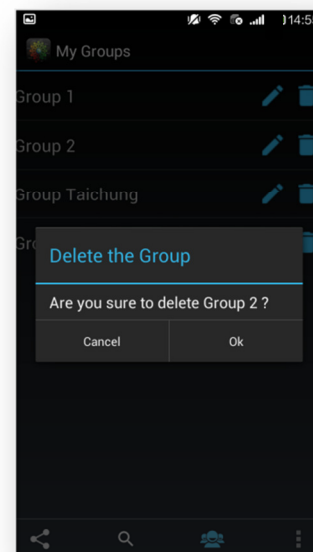
- **Device information**

  Select a name in the group list to open a new page that shows all the device information for all the devices included in the selected group. The name of the selected group is displayed in the title bar.



- **Devices CO2 levels**

  After selecting a group, the application will automatically connect to all DL-302 devices within the group to retrieve the latest real-time CO2 values and will use a visual reference to represent the current CO2 levels, meaning that the current status and CO2 levels for all devices can be immediately determined.



| OFFLINE | 350 | 450 | 700 | 1000 | 2500 | 5000 |
|---------|-----|-----|-----|------|------|------|

- **Delete devices from a selected group**
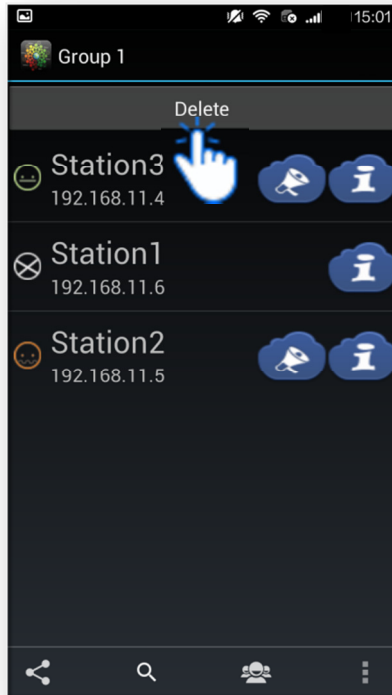


Step 1: On the device list page for a selected group, tap the "Delete" button to open a page where the devices to be deleted can be selected
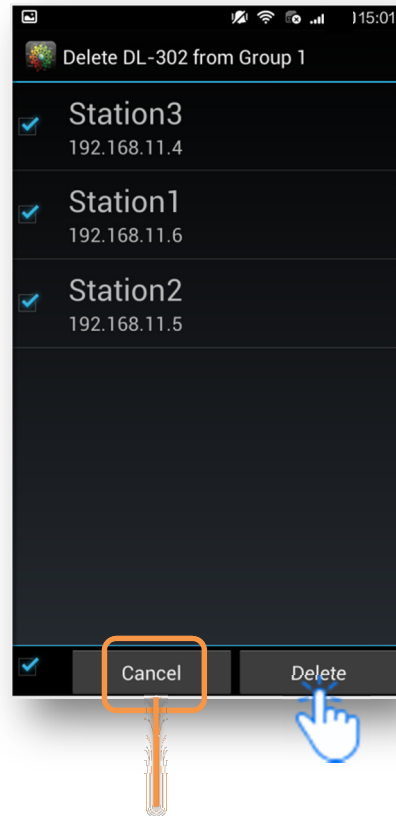


Step 2: Check the checkbox(es) for the device(s) to be deleted from the group, and then tap the "Delete" button. Tap the "Ok" button in the confirmation message to delete the device(s) from the group.

Tap the "Cancel" button to cancel the delete action and return to the previous device list page