

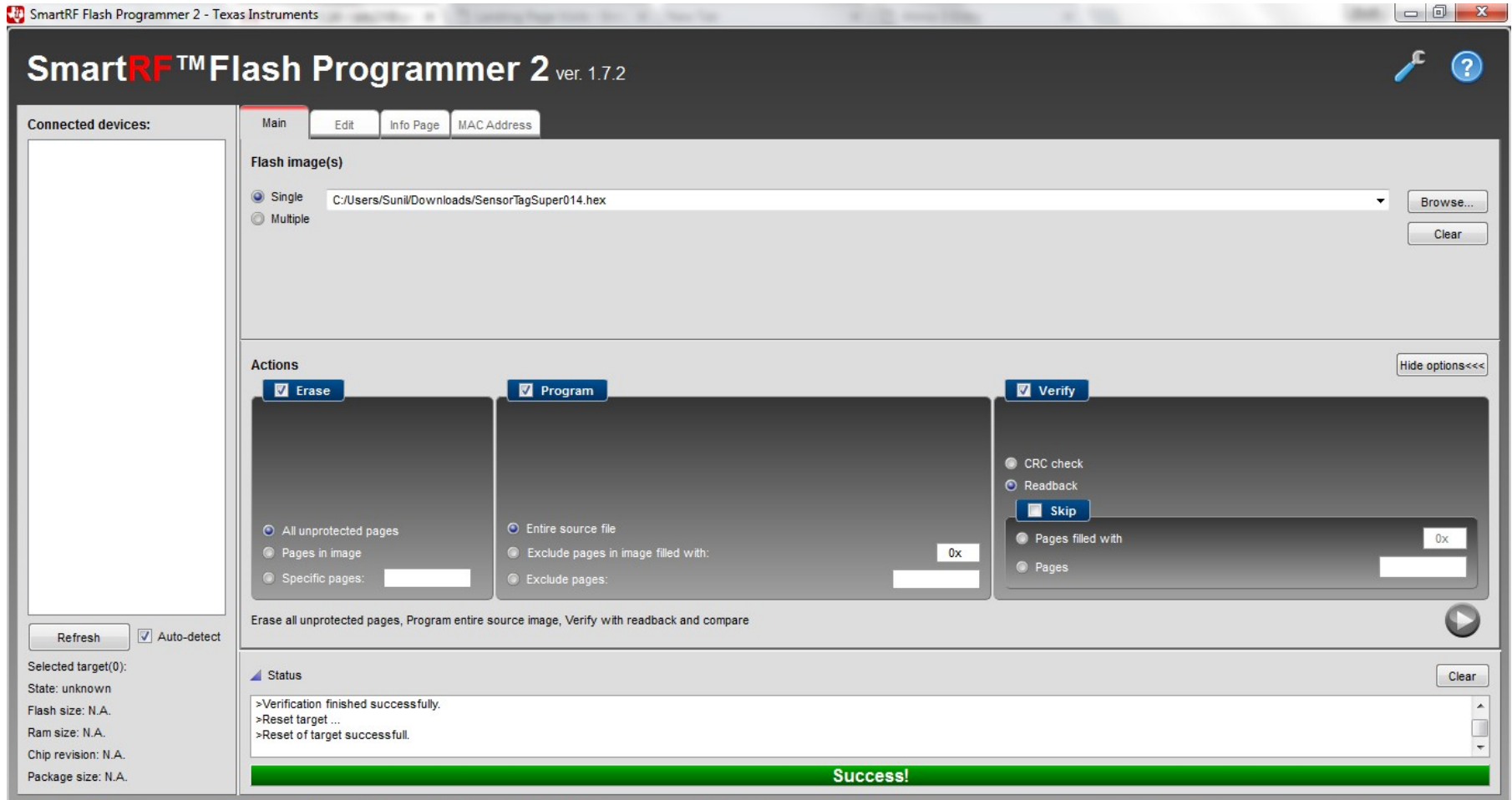


# Using the TI Sensor Tag (CC2650STK)



# Programming the enmo Firmware

# Download & Launch TI SmartRF Flash Programmer 2 SW



# Select enmo Firmware File





# Select Programming Options

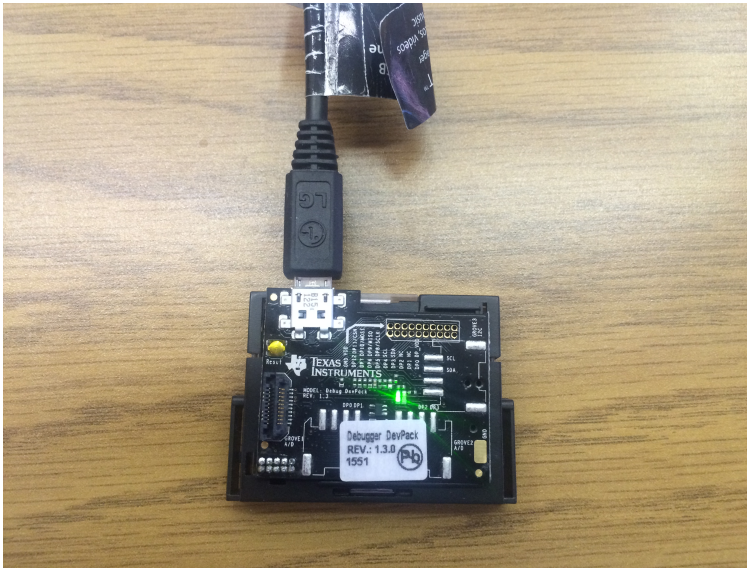
The screenshot shows a software interface for programming a device. The 'Actions' section is active, with three main options: 'Erase', 'Program', and 'Verify'. The 'Erase' option is selected, and 'All unprotected pages' is chosen. The 'Program' option is also selected, and 'Entire source file' is chosen. The 'Verify' option is selected, and 'Readback' is chosen. A 'Skip' button is visible in the 'Verify' section. A 'Status' section at the bottom shows a successful verification message. A green bar at the bottom of the interface indicates 'Success!'.

Check "Erase" box  
Select "All Unprotected Pages"

Check "Program" box  
Select "Entire Source File"

Check "Verify" box  
Select "Readback" box, but don't  
select "Skip"

# Connect Sensor Tag w/DevPack to PC



# Connect Sensor Tag w/DevPack to PC

Your Sensor Tag will show up in left hand side list.

Select it.

The screenshot displays the SmartRF™ Flash Programmer 2 interface, version 1.7.2. On the left, the 'Connected devices' list shows a tree structure with 'XDS110, XDS-L3000373' expanded to reveal 'CC2650' and 'XDS110 Class Application' (with a sub-item 'Unknown'). A tooltip above 'CC2650' reads 'Target device name = CC2650'. Below the list are 'Refresh' and 'Auto-detect' (checked) buttons. The main area shows 'Flash image(s)' with a file path and a 'Multiple' radio button. The 'Actions' section has 'Erase' and 'Program' buttons checked. Under 'Erase', 'All unprotected pages' is selected. Under 'Program', 'Entire source file' is selected. A status bar at the bottom shows a green progress bar and the text: '>Verification finished successfully. >Reset target ... >Reset of target successfull.'

# GO!

The screenshot displays the SmartRF Flash Programmer 2 interface. The title bar reads "SmartRF Flash Programmer 2 - Texas Instruments". The main window title is "SmartRF™ Flash Programmer 2 ver. 1.7.2".

**Connected devices:** A list of connected devices is shown on the left, currently empty.

**Flash image(s):** The "Single" radio button is selected, and the file path is "C:/Users/Suni/Downloads/SensorTagSuper014.hex".

**Actions:** Three action panels are visible: "Erase", "Program", and "Verify".

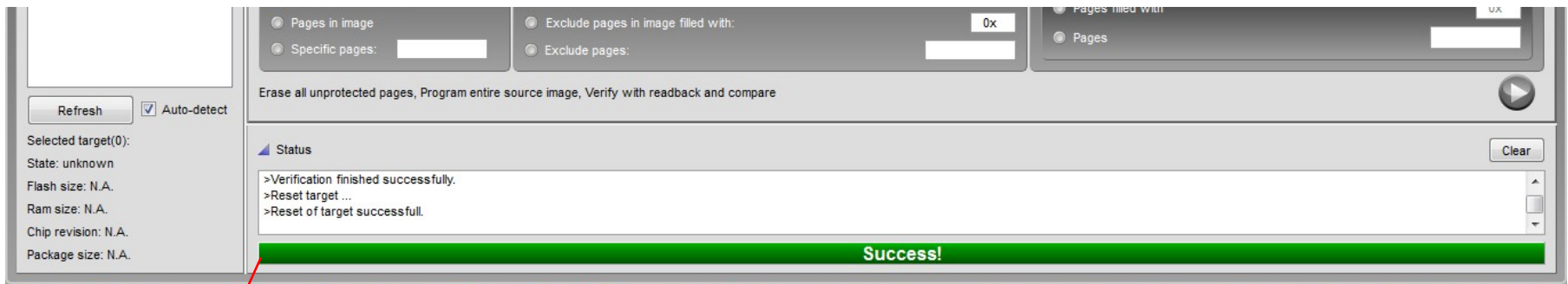
- Erase:** "All unprotected pages" is selected.
- Program:** "Entire source file" is selected.
- Verify:** "Readback" is selected, and "Skip" is also visible.

A red arrow points from the word "GO!" to a play button icon in the bottom right corner of the interface, which is highlighted with a red box.

**Status:** The status bar at the bottom shows a green bar with the text "Success!". The status log displays the following messages:

- >Verification finished successfully.
- >Reset target ...
- >Reset of target successful.

# Done Programming



Green Success Bar means it worked!

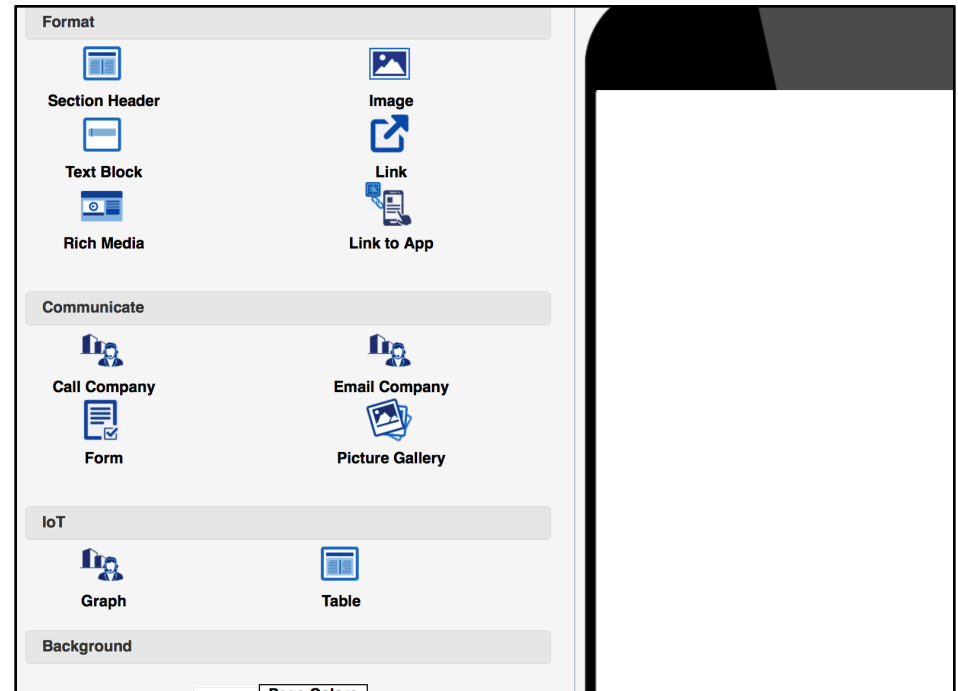
You can disconnect the DevPack from the Sensor Tag



# Using the TI Sensor Tag

# enmo Platform – Create Landing Page

- Set Background Message (to be shown in App as local message when App is in the Background)
- Create content to be shown when App is in the Foreground
  - IoT-specific elements are "Graph" and "Table" – you can put multiple of these elements on a landing page
  - You can also send captured IoT data to your Endpoint using Post and populate content from your Endpoint using Get



# enmo Platform – Create IoT Region & Rule

## ■ Create IoT Region:

- ID\_A:  
b8ad51174aaf4ffabdd5
- ID\_B: 2269c4530aec
- UUID: b8ad5117-4aaf-4ffa-bdd5-2269c4530aec
- Major: 1
- Minor: 1

## ■ Create rule

**Name:** \*

**Type:** \* TI CC2650STK

**ID\_A:** \* b8ad51174aaf4ffabdd5

**ID\_B:** \* 2269c4530aec

**UUID:** \* b8ad5117-4aaf-4ffa-bdd5-2269c4530aec

**Major Value:** 1

**Minor Value:** 1

**Calibrated Power at 1m:**

**Name:**

**Status:** Active

**Filter:**

**App ID:** All

**Device Id:** All

**Rule:**

**Upon:** Entry

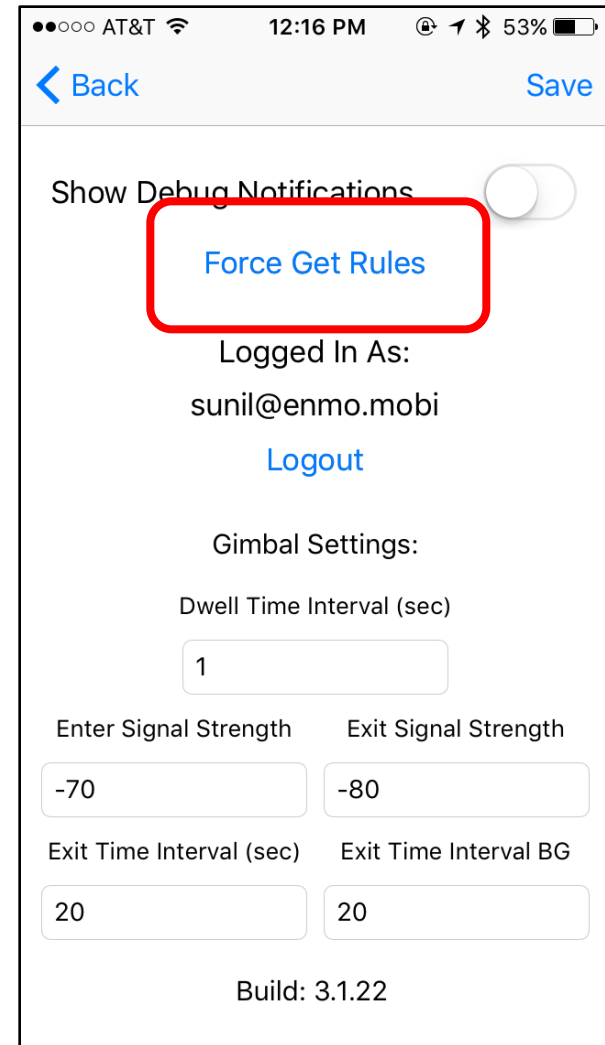
**Region Type:** Beacons

**Region:** Please select...



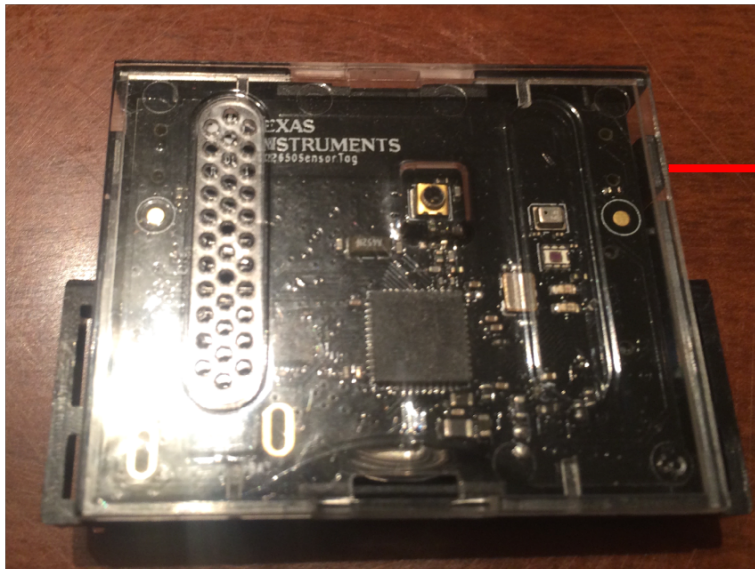
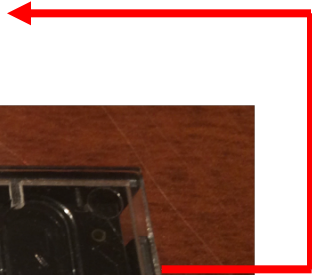
# enmo App

1. Go to Settings in App and Tap “Force Get Rules”
  - Your rules will be pushed to the App

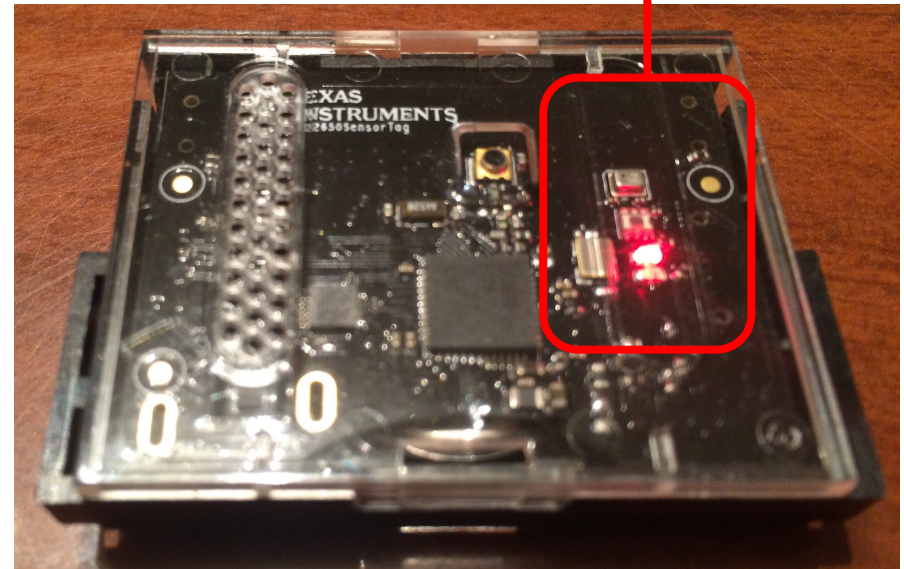
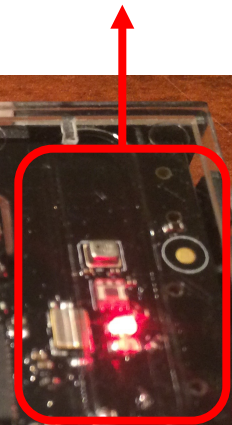


# Push Button on Right Side of Sensor Tag to Start Data Logging

Push This Button to Start Data Logging

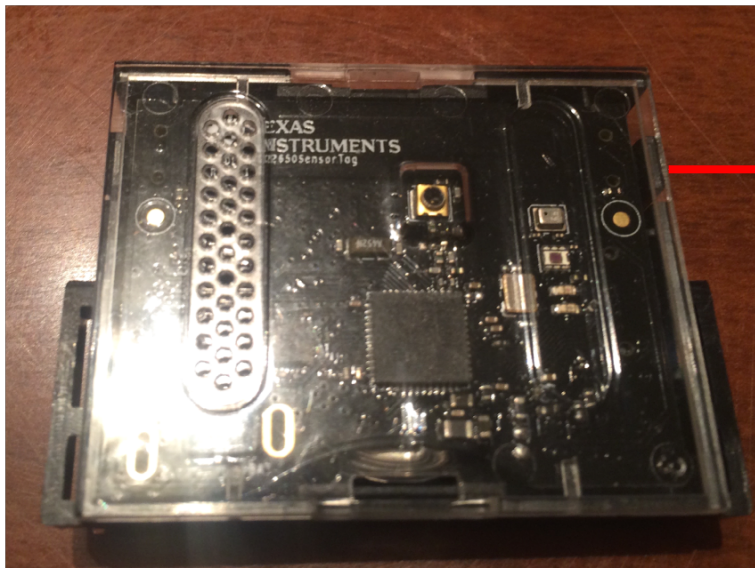
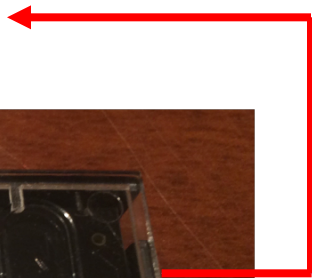


Red Light Will Blink to Indicate Data is Being Logged

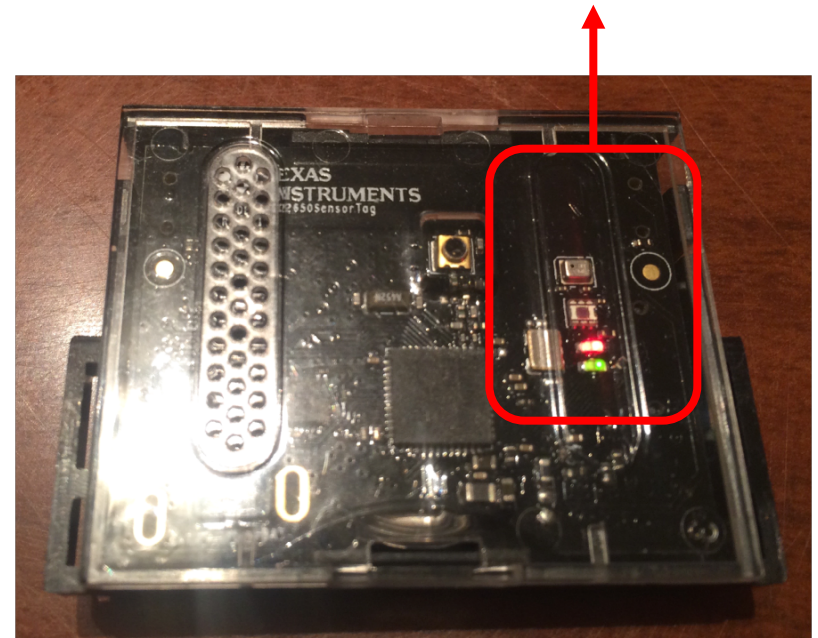


# Push Button on Right Side Button Again to Start Data Logging

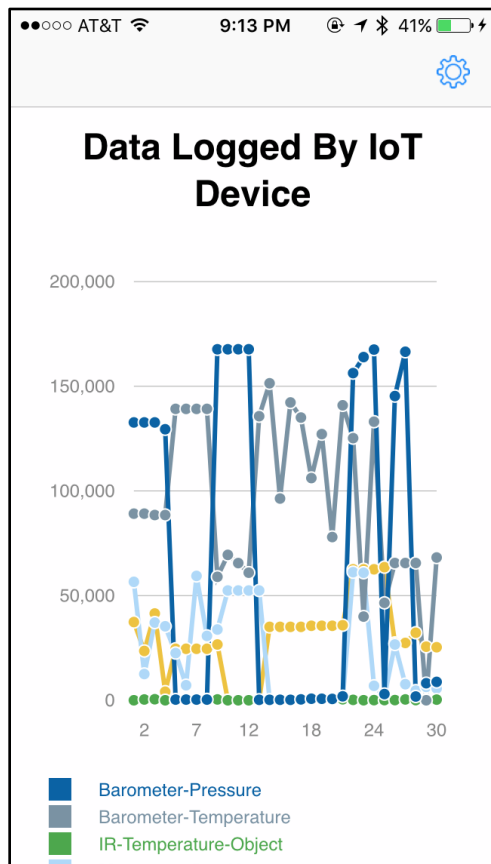
Push This Button to  
Stop Data Logging



Both Red & Green Lights Will Blink to  
Indicate Data is Being Read by App



# Your Landing Page Will Display After Red & Green Lights Stop Blinking



- Need to change what's displayed in the landing page?
- Just revise it in the enmo Platform and capture data again
- Iterate as often as you'd like

# Notes

1. Be sure to wait ~30-seconds after landing page is displayed before starting data logging again
  - Capturing of IoT data by the App is triggered by the IoT device transmitting as a Beacon generating an “Entry” on the phone
  - An “Exit” on the Beacon needs to occur before the next Entry can be detected
  - An Exit takes ~30-seconds to be detected by the phone, hence the 30-sec wait time mentioned above
2. enmo’s initial TI firmware release supports capturing 51 records
  - Data will wrap after 51<sup>st</sup> record

# FAQ

- Can TI data be read when the enmo App is in the background:
  - Yes, TI data will be read even if App is in the background (screen can be active or off, black screen)
  - If you setup your rule according, you'll see the local message you setup in the landing page
  - When you bring the enmo App into the foreground, you'll see the actual landing page