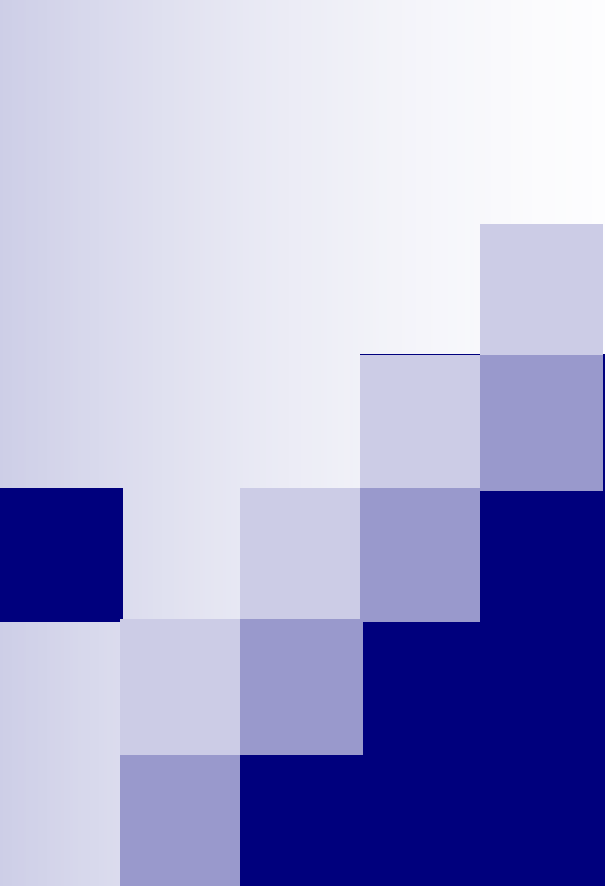


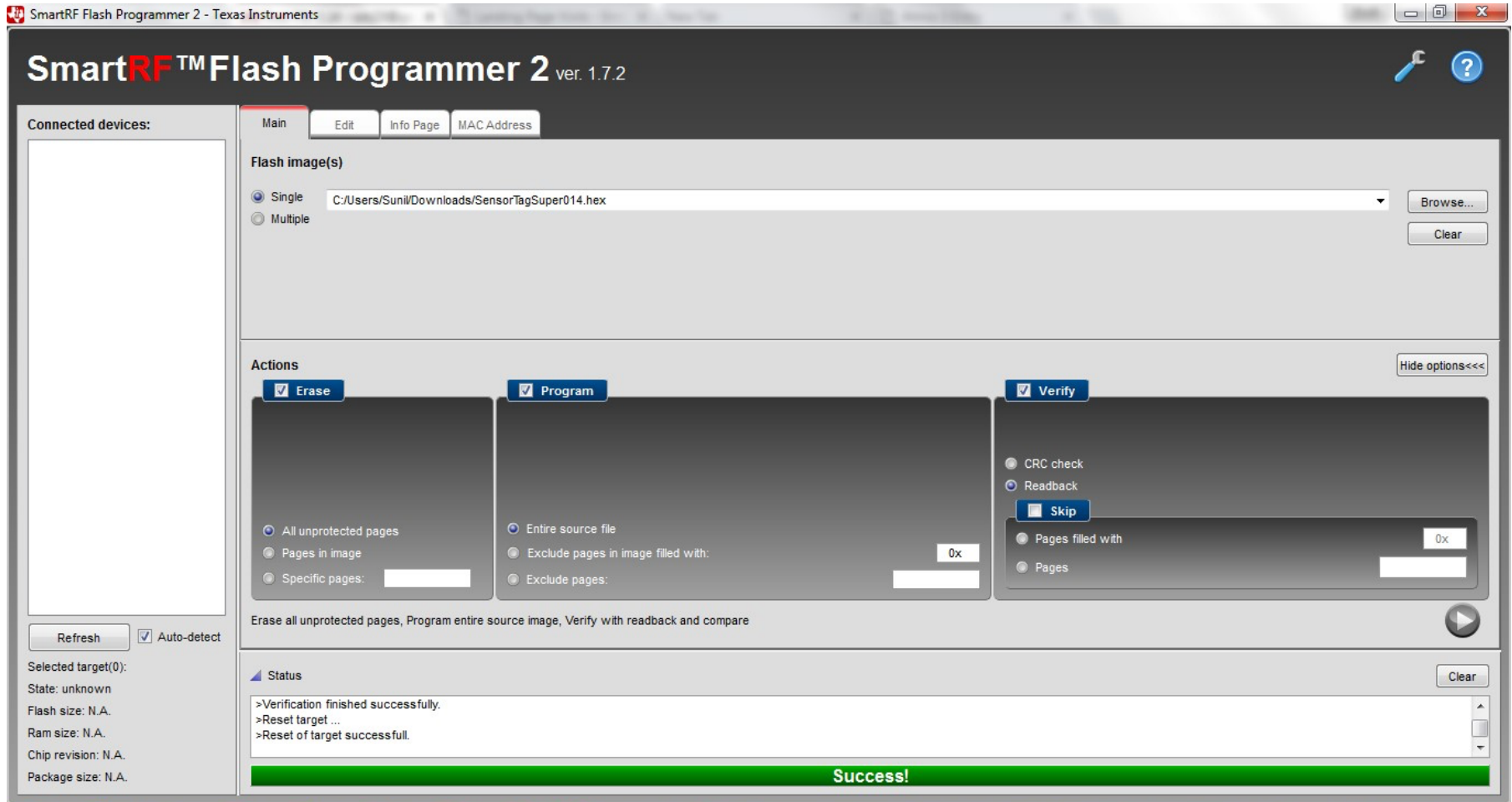


Using the TI Sensor Tag (CC2650STK)



Programming the enmo Firmware

Download & Launch TI SmartRF Flash Programmer 2 SW



Select enmo Firmware File



Select Programming Options

The screenshot shows the Enmo programming interface. The 'Actions' section is divided into three panels: 'Erase', 'Program', and 'Verify'. The 'Erase' panel has three radio buttons: 'All unprotected pages' (selected), 'Pages in image', and 'Specific pages:'. The 'Program' panel has three radio buttons: 'Entire source file' (selected), 'Exclude pages in image filled with: 0x', and 'Exclude pages:'. The 'Verify' panel has three radio buttons: 'CRC check', 'Readback' (selected), and 'Skip'. Below the 'Verify' panel, there are two input fields: 'Pages filled with: 0x' and 'Pages:'. A 'Status' section at the bottom shows a green bar with the text 'Success!'. A 'Refresh' button and an 'Auto-detect' checkbox are on the left. A 'Clear' button is on the right.

Actions

☒ Erase ☒ Program ☒ Verify

☒ All unprotected pages
☐ Pages in image
☐ Specific pages:

☒ Entire source file
☐ Exclude pages in image filled with: 0x
☐ Exclude pages:

☐ CRC check
☒ Readback
☐ Skip

Pages filled with: 0x
Pages:

Refresh ☒ Auto-detect

Selected target(0):
State: unknown
Flash size: N.A.
Ram size: N.A.
Chip revision: N.A.
Package size: N.A.

Eraser all unprotected pages, Program entire source image, Verify with readback and compare

Status

>Verification finished successfully.
>Reset target ...
>Reset of target successfull.

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"

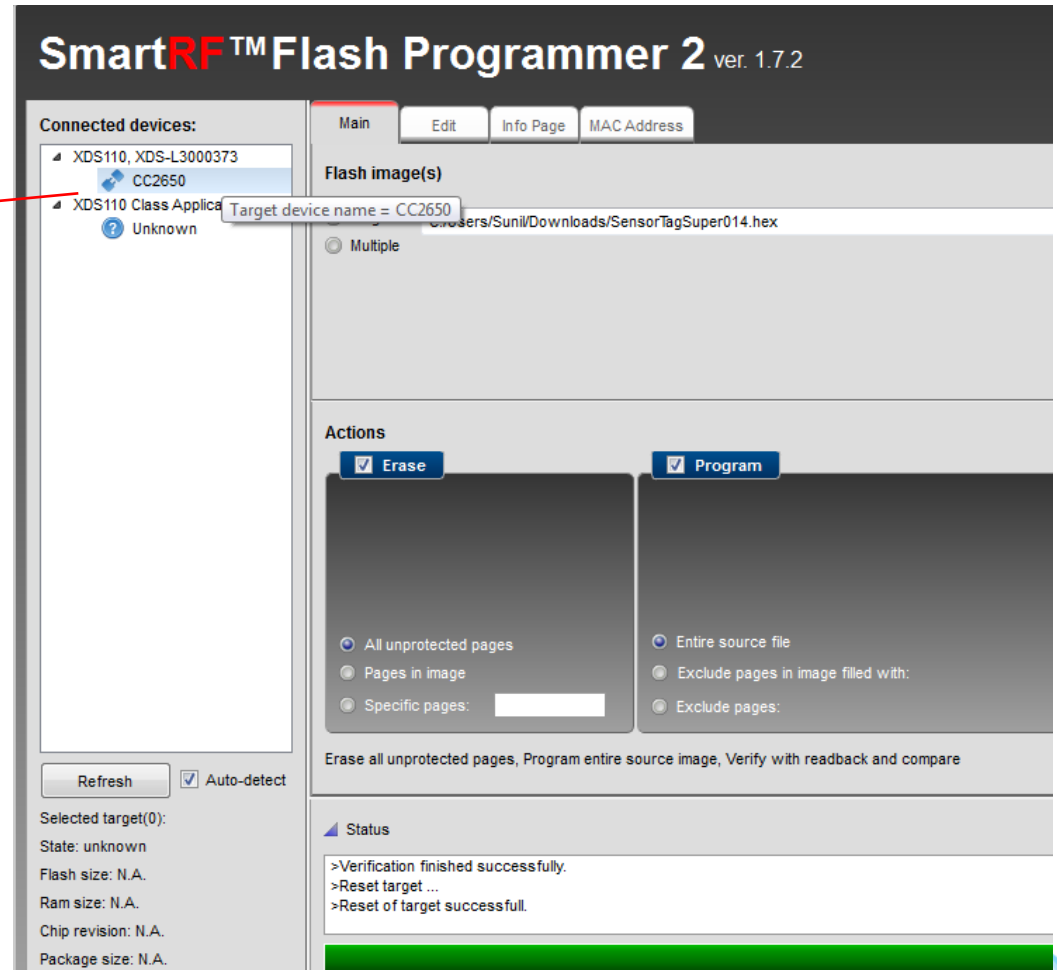
Connect Sensor Tag w/DevPack to PC



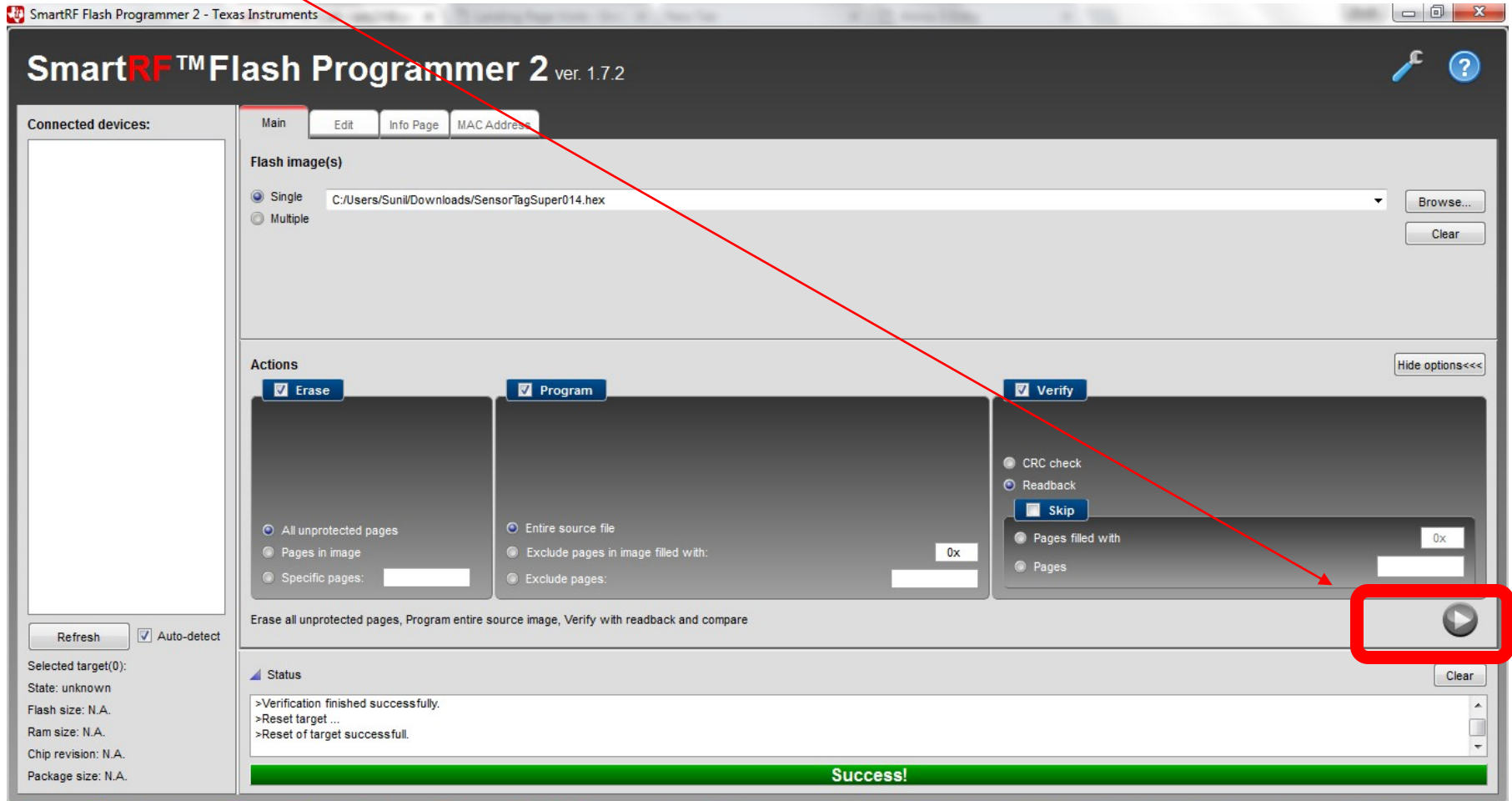
Connect Sensor Tag w/DevPack to PC

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

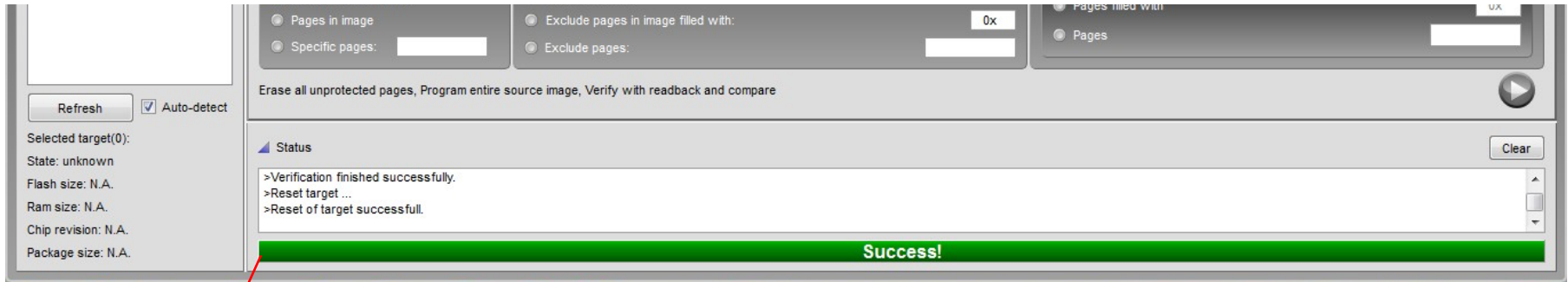
Select it.



GO!

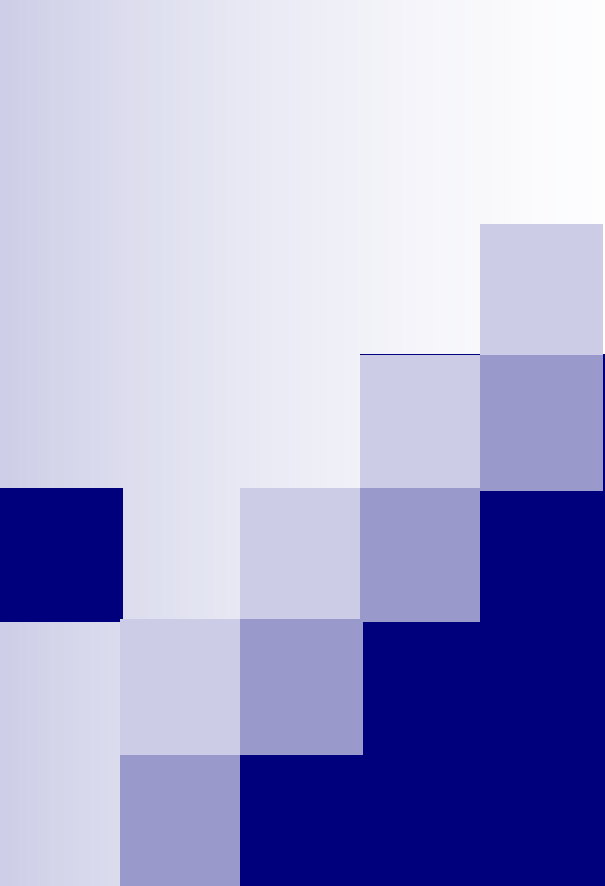


Done Programming



Green Success Bar means it worked!

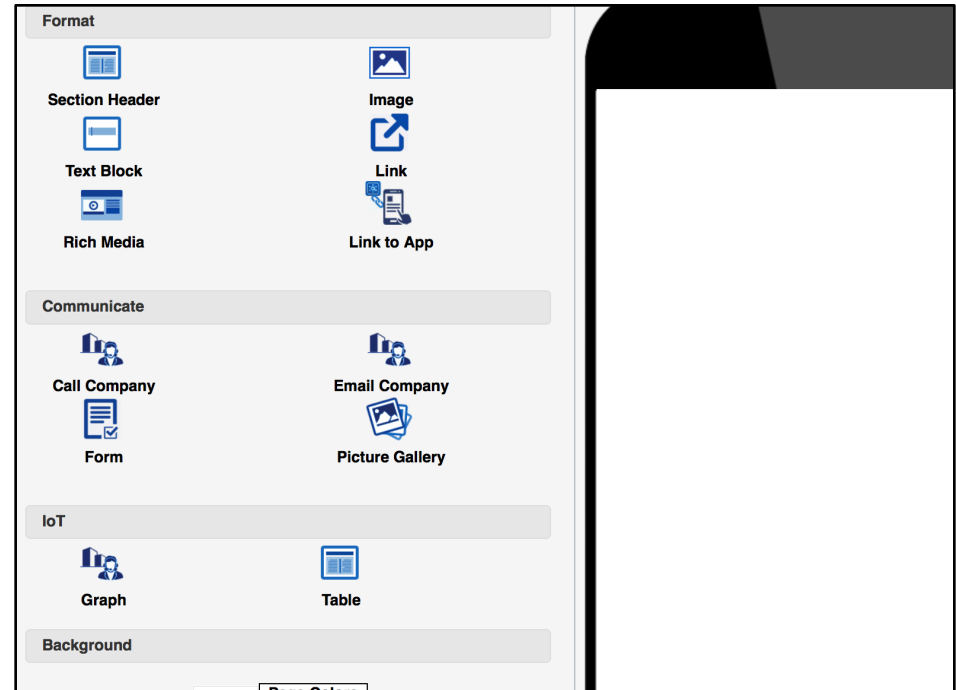
You can disconnect the DevPack from the Sensor Tag



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

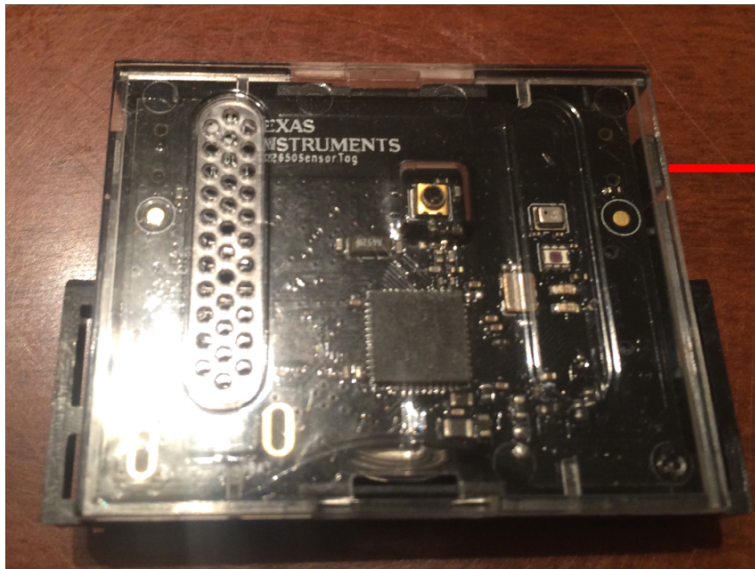
1. Go to Settings in App and Tap “Force Get Rules”

- Your rules will be pushed to the App

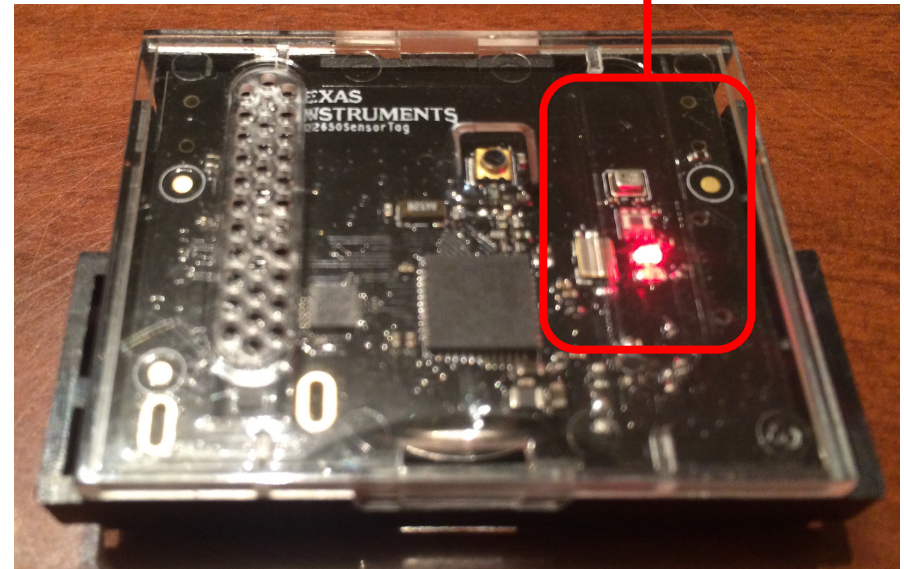
The screenshot shows the Settings screen of the enmo App. At the top, there's a status bar with AT&T, signal strength, time (12:16 PM), and battery (53%). Below the status bar, there are 'Back' and 'Save' buttons. The main content area includes a toggle for 'Show Debug Notifications' (which is turned off), a blue button labeled 'Force Get Rules' (highlighted with a red rectangle), and the text 'Logged In As: sunil@enmo.mobi' with a 'Logout' link. Under 'Gimbal Settings', there's a 'Dwell Time Interval (sec)' field with the value '1'. Below that are four input fields: 'Enter Signal Strength' (-70), 'Exit Signal Strength' (-80), 'Exit Time Interval (sec)' (20), and 'Exit Time Interval BG' (20). At the bottom, it says 'Build: 3.1.22'.

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

Push This Button to Start Data Logging



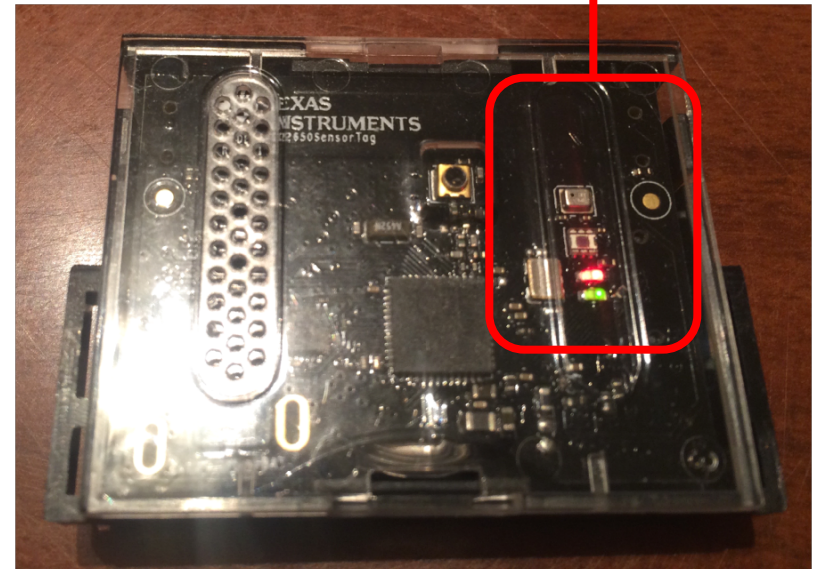
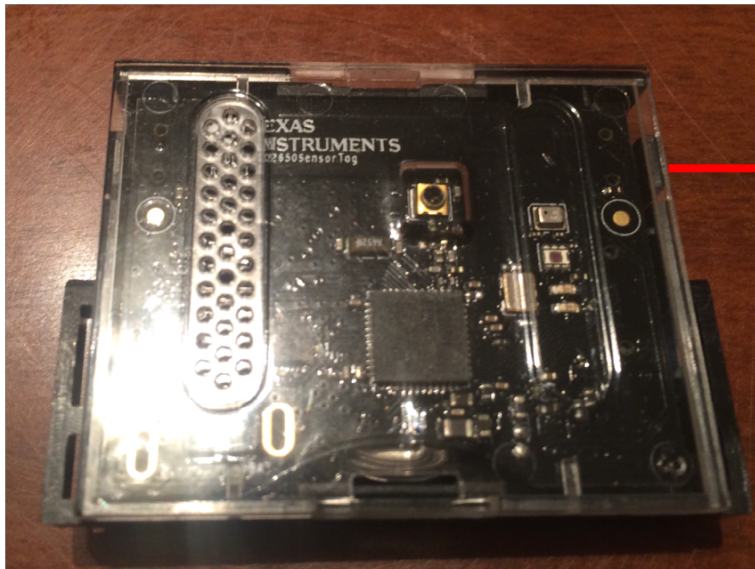
Red Light Will Blink to Indicate Data is Being Logged



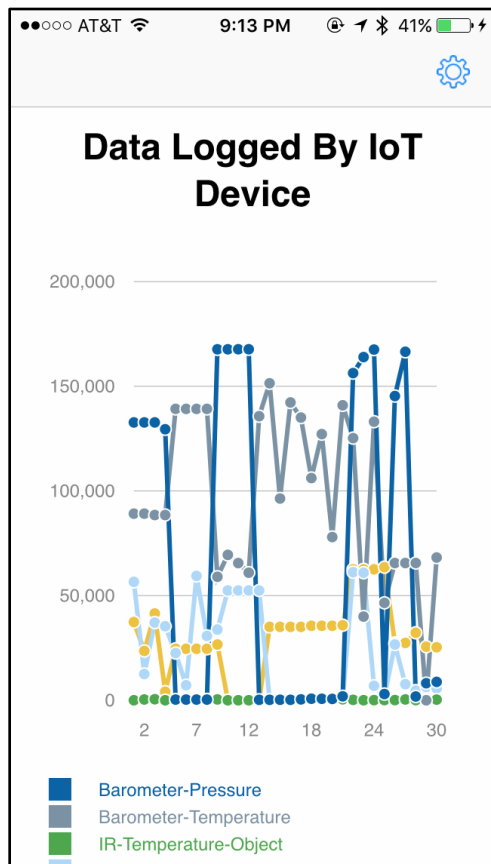
Push Button on Right Side Button Again to Start Data Logging

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 51st 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