User Manual

Spark application

Release 1.00

1 – Introduction

Spark is the new AiM application **for Taipan and Yarara ECUs** supported by iOS and by Android iOS you can download from App store as well as from Google Play store. It allows you to connect your Taipan or Yarara ECU to your mobile phone.

2 – Spark App in few words

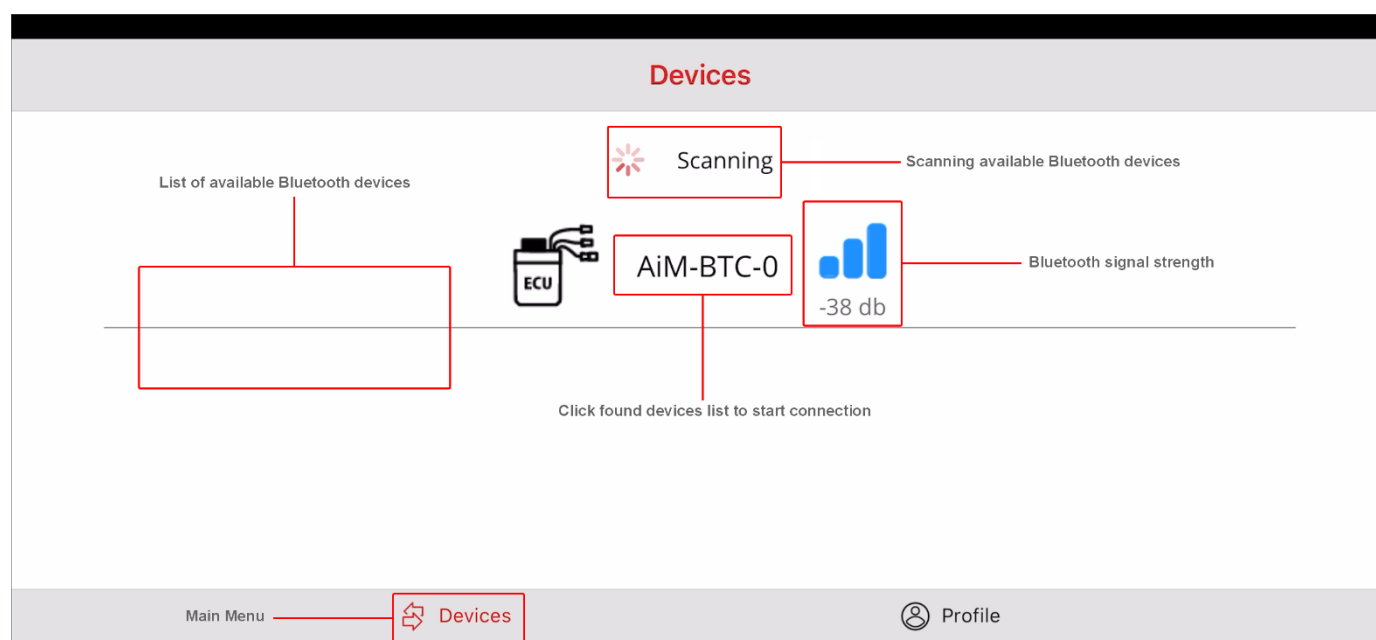With Spark App you can connect your Taipan and Yarara ECU to your smartphone in two ways:

- Via CAN-BT module (Bluetooth module); this module allows the user to see engine data and telemetry in real time
- Using AiM XLog to sample data while driving

Moreover the app features interactive pop-ups to let you take full control of your engine management system directly from your smartphone; no laptop required. Through the intuitive context menu within the mobile interface, you can:
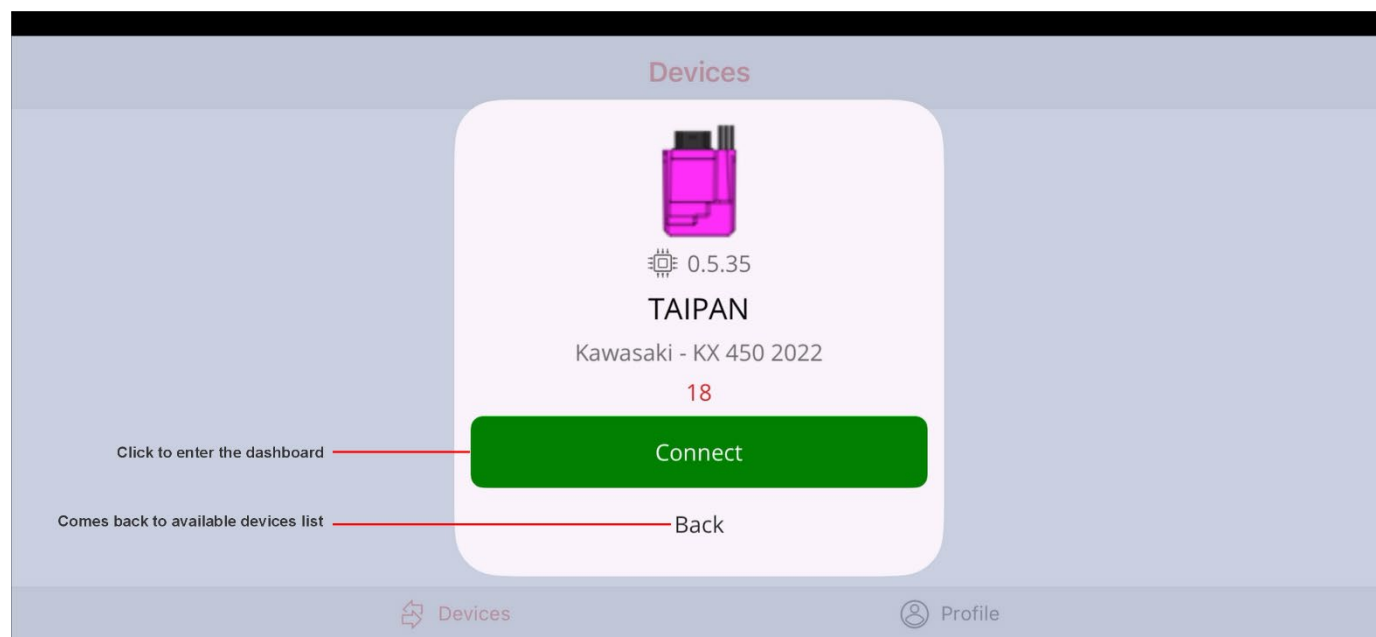
- instantly adjust Fuel Trims: fine-tune fuel delivery in real time to adapt to changing riding conditions or performance requirements;
- switch among the maps on the fly: toggle between multiple engine maps for optimal performance in any scenario;
- access live diagnostics to monitor key engine parameters and view fault codes or exceptions as they happen, enabling quick troubleshooting and ensuring peak performance at all times.

3 – Spark App working mode

At start up the software looks for Bluetooth devices showing the list of available ones and the Bluetooth signal strength as shown here below.
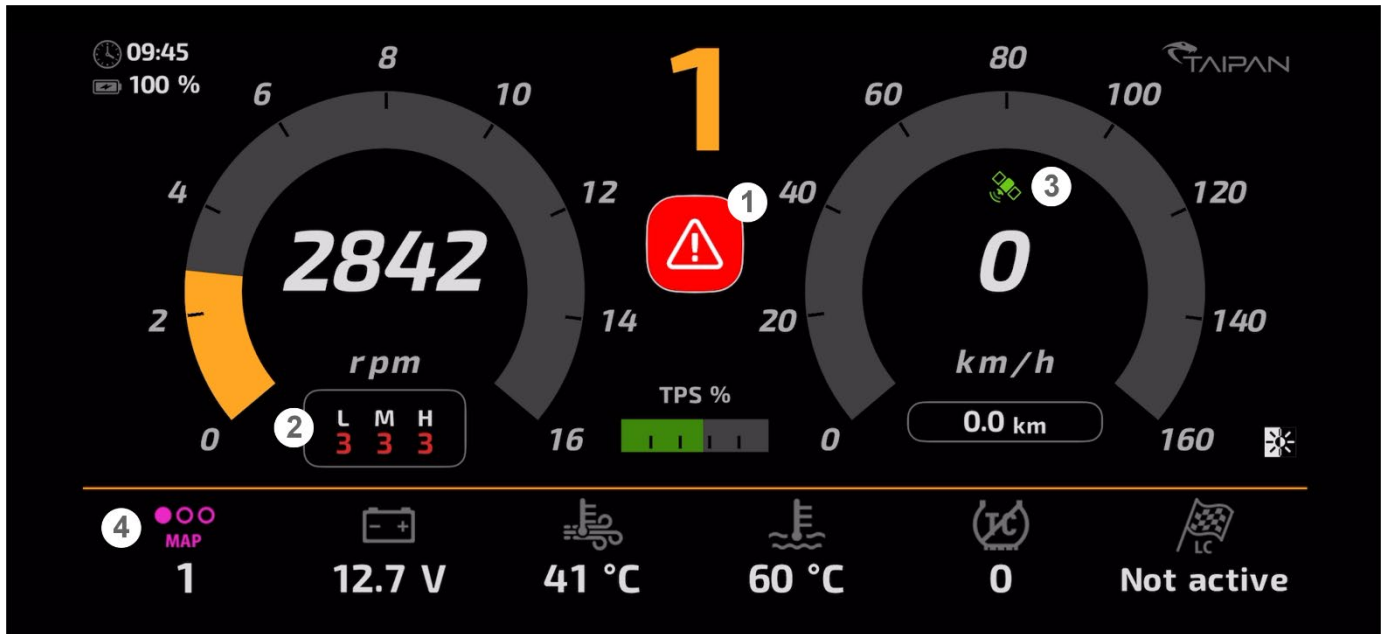

Once the available devices identified it is possible to choose the one to connect to the smartphone as shown here below.
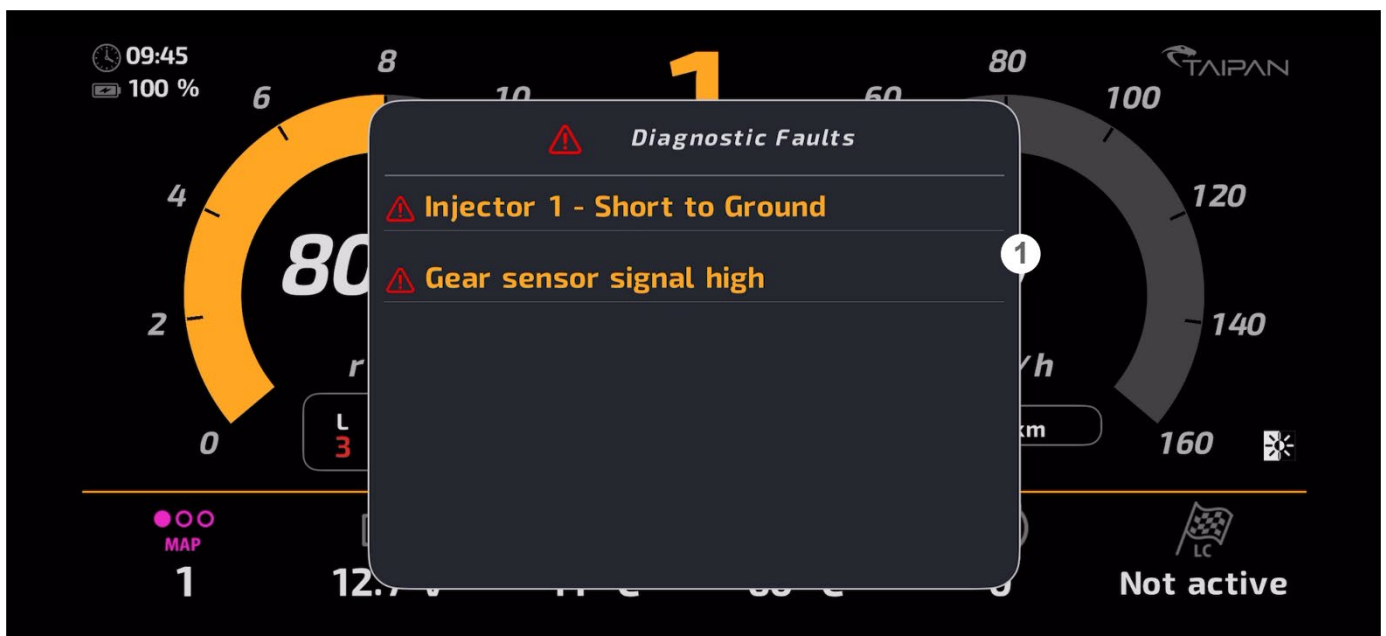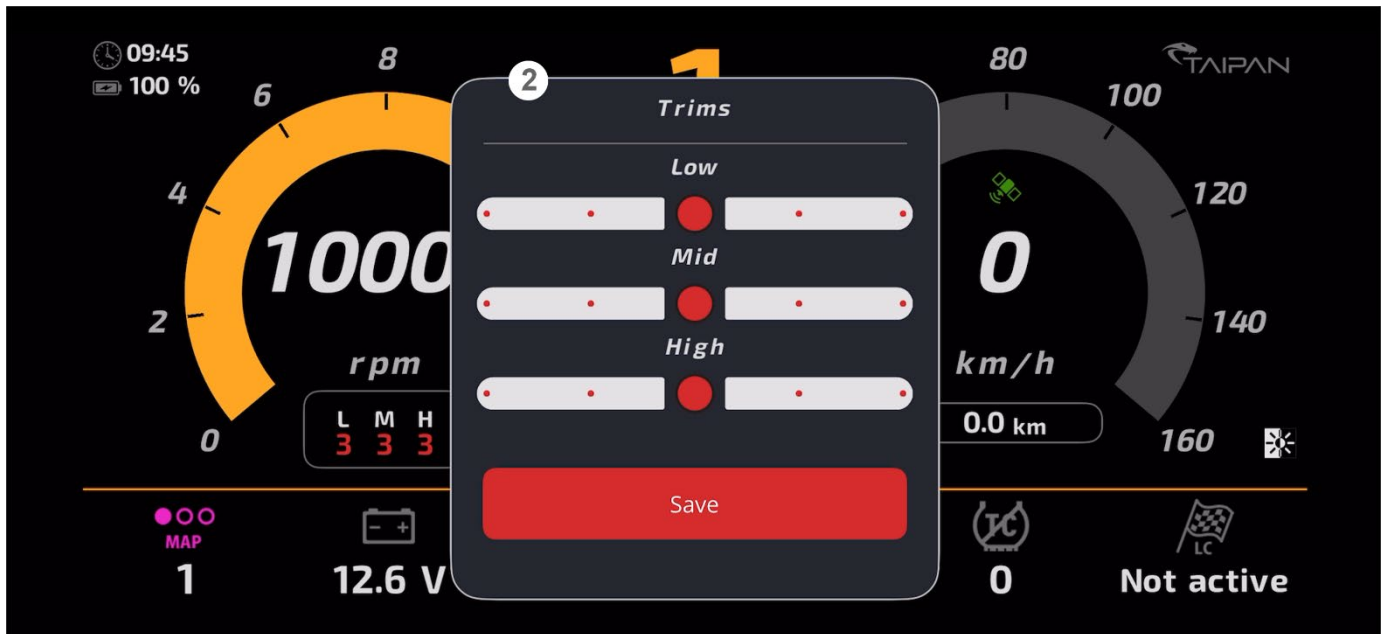
With reference to the image below, the software dashboard shows any error (1), trim options (2), GPS Status (3), available maps (4) as well as multiple icons and controls. Functions 1, 2 and 4 are explained in the following images.

Always referring to the image above tapping on Diagnostic Fault icon (**1**) a dedicated panel is prompted: tap on the display background to close it.
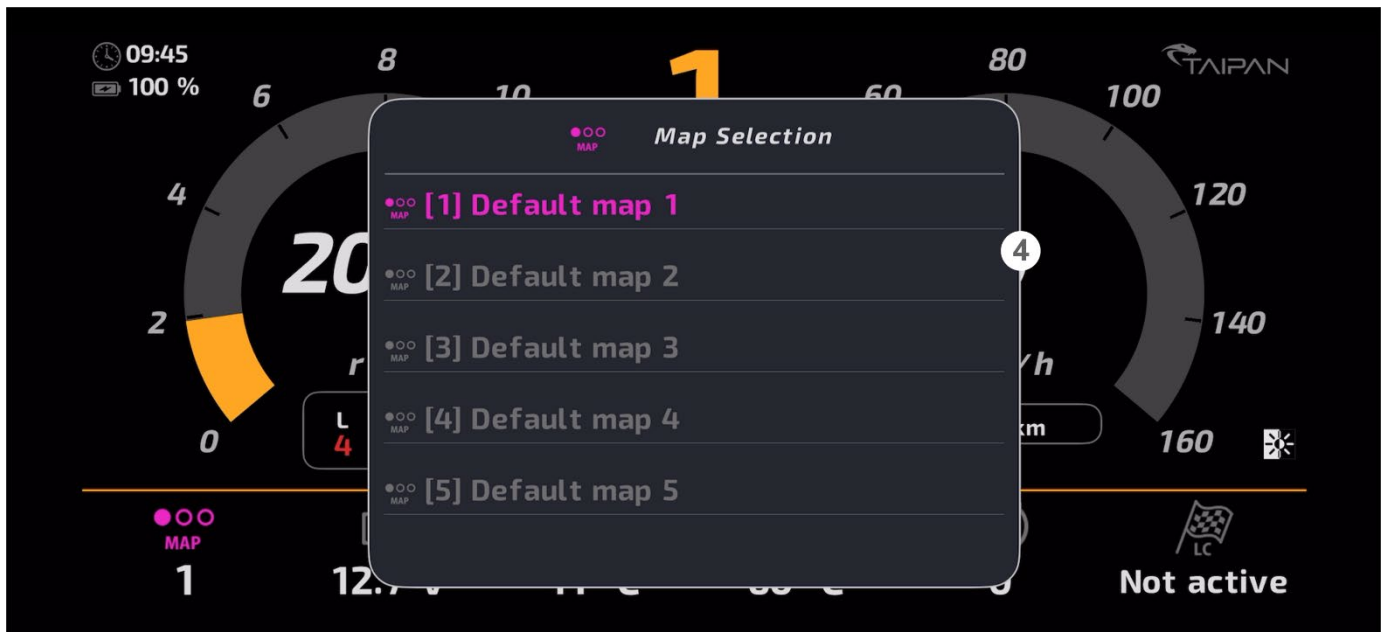
Tapping on Trim icon (**2**) a dedicated panel is prompted: press "Save" once the parameters set and tap on the display background to close it.
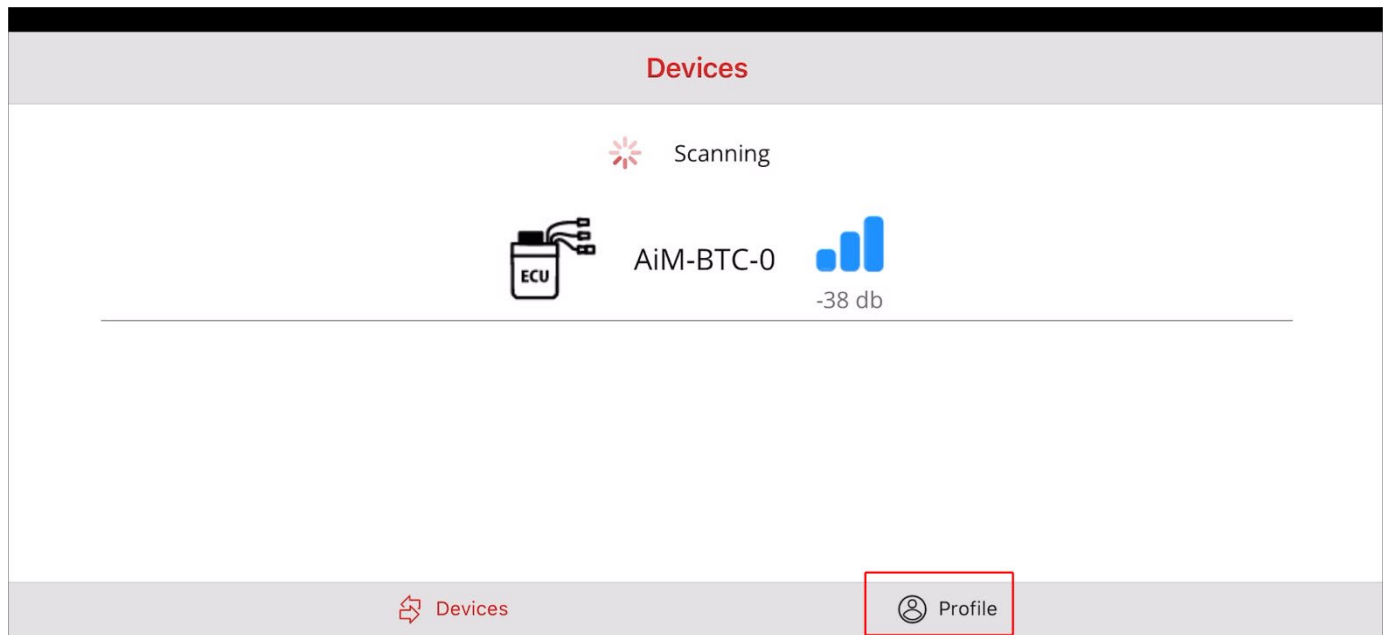

Tapping on GPS Icon (**3**) GPS status is shown.

Tapping on Map (**4**) a dedicated panel is prompted: select the one to set and tap on the display background to close it.
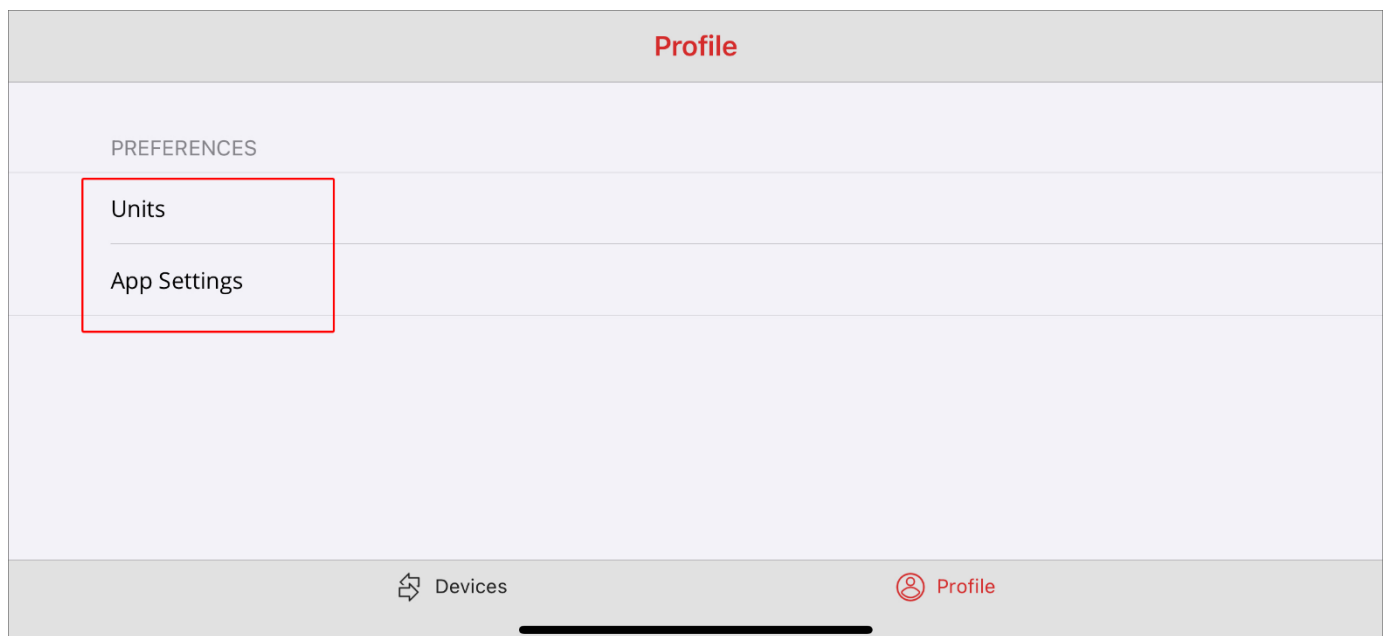
4 – Spark user profile settings

From the app starting page it is possible to set some parameters. Tap "Profile" option.

"Profile" page is prompted. Here you can set measure unit and app settings. To set Units tap the voice.
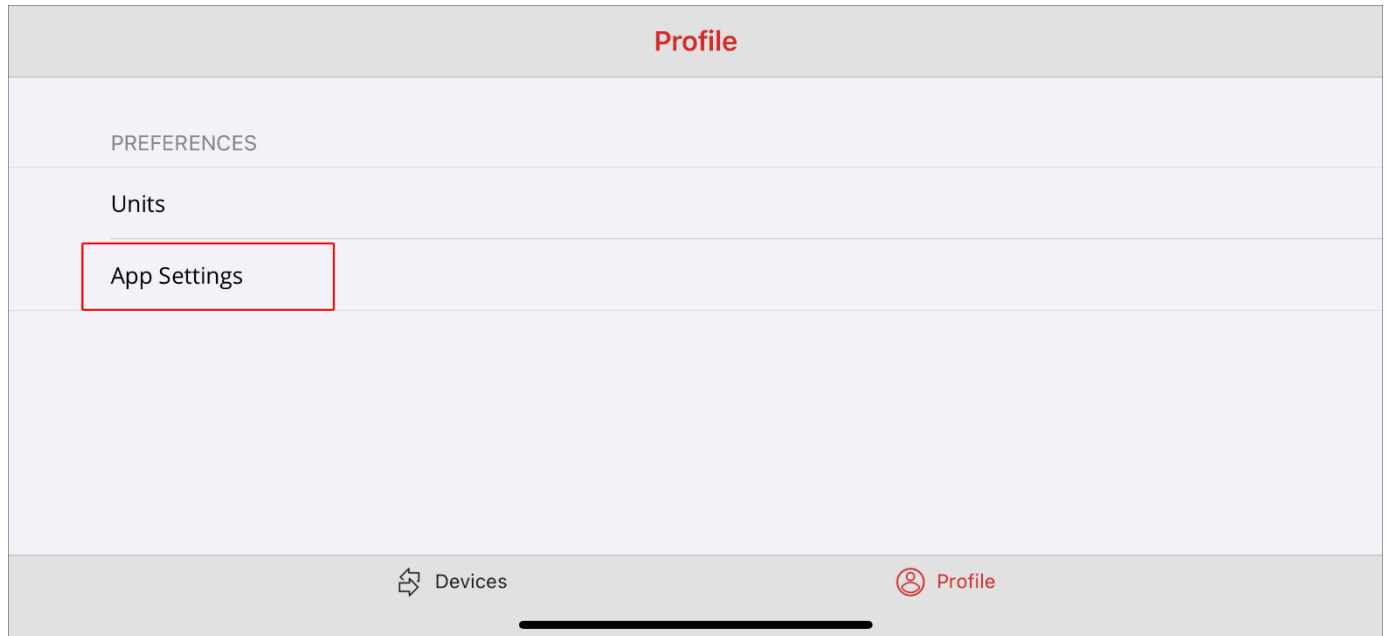
This page is prompted. Scrolling the page you can choose if using Metric or Imperial system and set pressure, temperature, speed and length unit of measurement.

‹ Profile	Units	Save
PRESETS		
Metric		
Imperial		
UNITS		
Pressure	Millibar [mbar]	
Temperature	DegreeCelsius [°C]	
🔁 Devices	⊗ Profile	

‹ Profile	Units	Save
Imperial		
UNITS		
Pressure	Millibar [mbar]	
Temperature	DegreeCelsius [°C]	
Speed	KilometerPerHour [km/h]	
Length	Millimeter [mm]	
🔁 Devices	⊗ Profile	

To set app preferences tap "App Settings" from "Profile" page.

Profile
PREFERENCES
Units
App Settings
Devices   Profile

The phone enters general settings –> Spark page.

This page changes according to the operative system (iOS or Android). Here on the right iOs is shown.

10:00
◀ Spark

‹ Apps   Spark

ALLOW SPARK TO ACCESS

Location   While Using >

Bluetooth

Siri   >

Search   >

Background App Refresh

Mobile Data

SPARK SETTINGS
DEBUG SETTINGS

Enabled

Xamarin Studio Host automatic