Using an Android phone or tablet with an Oregon RFID long range reader

Oregon RFID

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The Aceeca Meazura and PTLogger have been the graphic interface to Oregon RFID's long range reader for many years. However Aceeca has discontinued the Meazura and there is no replacement.

The recommended replacement is to use a Bluetooth Serial adapter with threader to connect with an Android phone or tablet and the free application Blue Term.

Bluetooth Adapters

Oregon RFID's web store has two Bluetooth serial adapters Both are powered by the DB9 serial port (5 volts on pin 9) when they are plugged in to any of our long range readers so no power cable is needed.

The Bluetooth Serial Adapter for the Mobile reader has an embedded antenna.

http://www.oregonrfid.com/index.php?main_page=product_info&cPath=6&products_id=22

The Bluetooth Serial Adapter with External Antenna can be installed inside the metal reader enclosure with the antenna mounted on the outside.

http://www.oregonrfid.com/index.php?main_page=product_info&cPath=6&products_id=40

Android Phone or Tablet

An Android phone or tablet with Bluetooth can be used to connect to the reader. An iPhone cannot be used because Apple iOS will not allow Bluetooth serial connections.

Here are some waterproof Android devices as of Winter, 2015-16.

Kyocera Hydro-Lite Waterproof Phone
http://www.kyoceramobile.com/hydro-life/

Sony has Experia Z3 5.2" Waterproof Android Tablet
http://www.cnet.com/products/sony-xperia-z3-review/

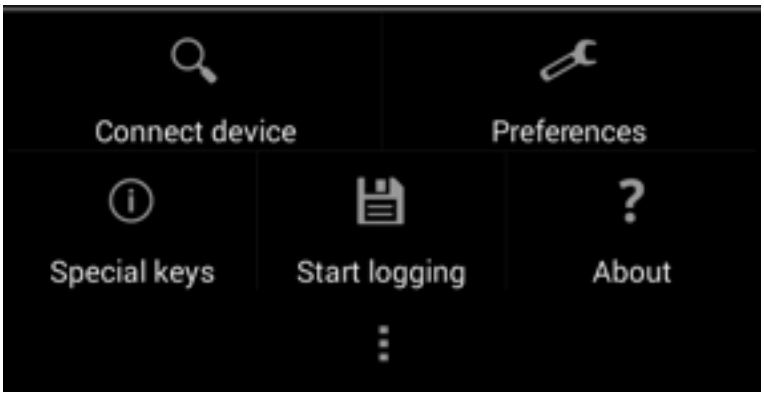
Samsung Galaxy Tab Active Ruggedized 8" Android tablet.
http://www.samsung.com/us/business/mobility/tablets/SM-T360NNGAXAR

BlueTerm

BlueTerm is a free app available at on Google Play.
https://play.google.com/store/apps/details?id=es.pymasde.blueterm&hl=en

Using BlueTerm

Press the three vertical dots at the bottom of the screen to show the menu.



Change the **Preferences** according to page 6.

Press **Connect device** to open a wireless channel. The first time you do this the device will need to be paired. See page 5.

To save data to the SD card, press **Start logging**. It will open a file with a name of the current date and time. Everything that appears on the screen will also be saved to the file. Pressing the button again will **Stop logging** and close the file.

With many Android devices, connecting it to a computer with a USB cable will allow copying the files from the phone.

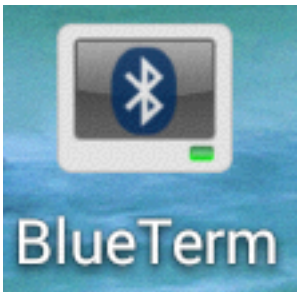
Operating the Reader

Once the connection is made with the reader, the command line interface is used to change settings and upload data to the SD card on the Android device.

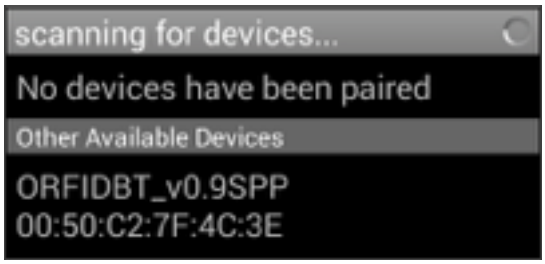
The commands are described in the Command Line Reference.
http://www.oregonrfid.com/pdfdocs/commandline.pdf

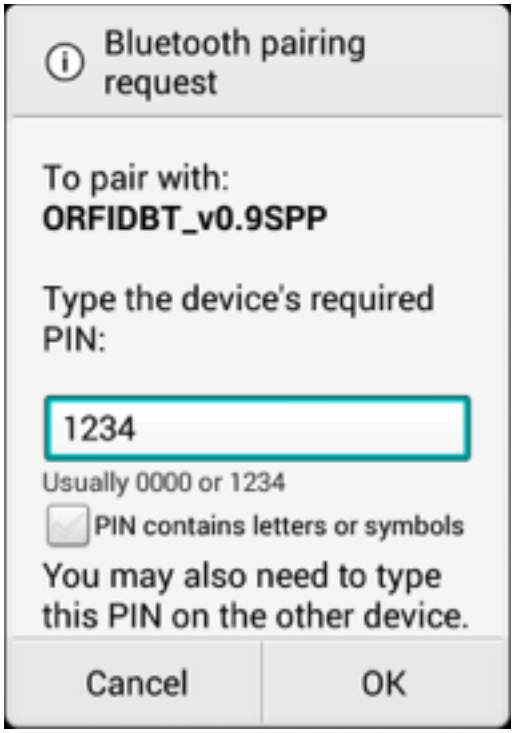
To collect the detection log data from the reader, press **Start logging**, type UP to upload the newest data and when it is complete, press **Stop logging** to close the file.

Pairing Bluetooth (first time)



After starting BlueTerm, scan for nearby Bluetooth devices and select the Serial Adapter. Oregon RFID adapters have the name ORFIDBT.

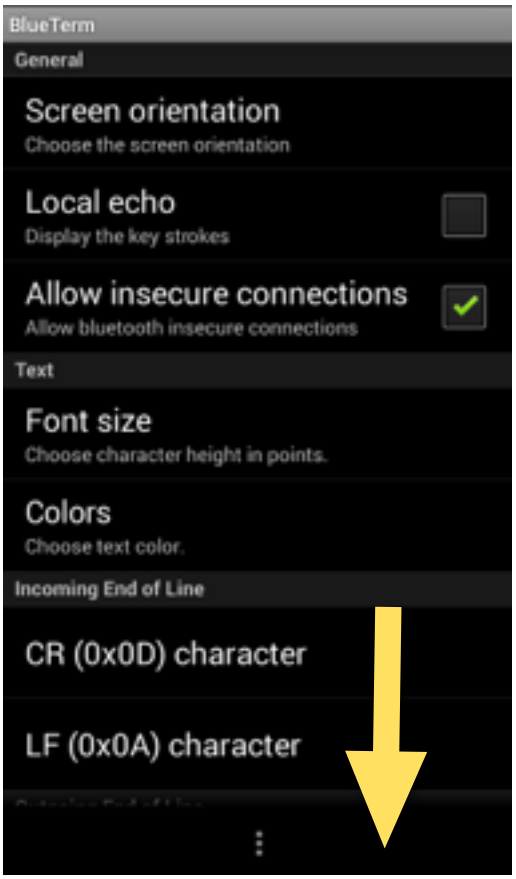
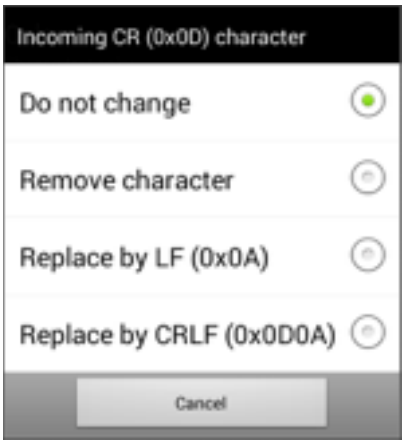
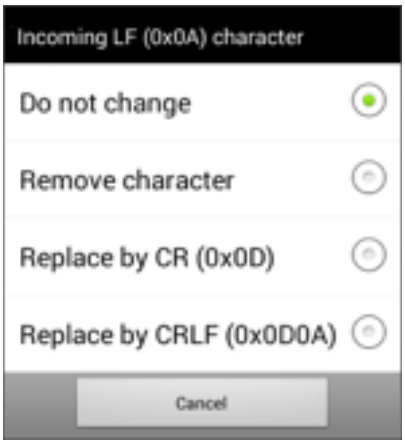
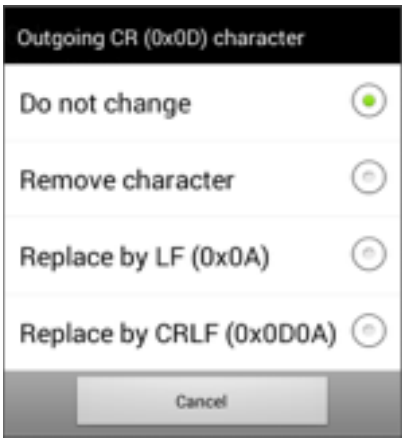




After the device is connected, a PIN is needed to pair. This number only needs to be entered the first time. The Android device will remember the PIN.

BlueTerm Settings

Here are the settings to use with the Oregon RFID datalogger. Be sure to select the four options at the bottom of the page to define the incoming and outgoing end of line characters.



Scroll down for the outgoing character definitions