TY’s Terminal + Application

User Manual

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1 Introduction

This document explains the how to use the latest TYD Terminal application with beacons for iOS. The application will be available as an “ipa” file or downloadable in the App Store. Screenshots were taking using an iPhone 5 with iOS version 10.2 and iPad Pro with iOS version 12.1.4. The current application supports iOS versions 10 to the current latest (13).

2 Application

2.1 Application Start

After the application has been installed into the device, the icon shown in Figure 1 should appear in the home menu of the device. The application should support devices with correct Bluetooth hardware working and the iOS versions 10 to 13. If device has Bluetooth disabled, a pop up will show up to ask you to enable the Bluetooth from the settings page on application start by pressing the settings button on the pop up message.

![Figure 1: Application Icon](image-url)
2.2 Devices Screen

This screen will show all the connectable Bluetooth devices that are in the range of the iOS device. The RSSI of the Bluetooth devices will update every time a new advertising packet is received, if the RSSI value stops updating it might mean that the device is unreachable, or the device has stop advertising. The application will only connect to devices that have the TYSAB Terminal compatible firmware, pressing on devices with no compatible firmware will result in action.
2.3 Terminal Screen

Once connected to the correct TYSAB Terminal device, the application will show the Terminal Screen.

In the terminal screen, the application will function as a normal terminal software application sending and receiving different data from and to the device. Different terminal settings can be found below the navigation bar. The data sent to the device is shown as bold text and the data received by the device is shown as not bold text.

By using a external terminal software on a PC that has the TYSAB Terminal device connected such as “Realterm” or “HTerm”, the user can send and receive the packets sent from the mobile device.
By pressing the back button on the Terminal Screen, the application will return to the Devices Screen and will disconnect from the connected device. A pop-up message will be showing the disconnection success.
2.4 Beacons Screen

This screen will show all the devices outputting beacons (non-connectable) with the correct format in the range of the mobile device. The correct beacon format is the Taiyo Yuden soliot beacon format, other beacons will be filtered out and will not be shown in the beacons screen. Every beacon will create a table cell showing latest received beacon data. Figure 7 shows the layout of the table cell and what each icon means. Figure 8 shows the beacon screen with actual data, the bold text on top is the name of the device which is sent on the scan response data, the number on the top right corner is the sequence number sent by the beacon and the number on the bottom right corner is the current RSSI of the beacon.
Figure 7: Beacon icons

Figure 8: Beacon screen on iPhone
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