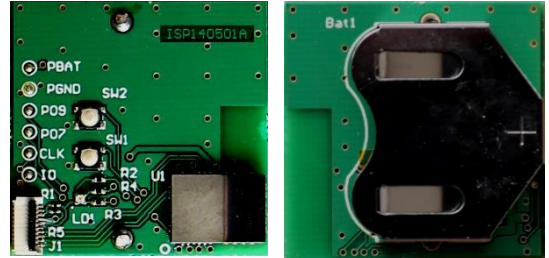


## AN140801

### Use of ISP140501-DK1



## Introduction

This application note describes how to set up a Beacon application with ISP140501 that will send data via the Bluetooth link to the Master Emulator or to a device (iPhone or Android device).

Two types of demonstration are presented.

The first one is directly executable with hardware and software provided in the Development Kit using Master Control Panel application.

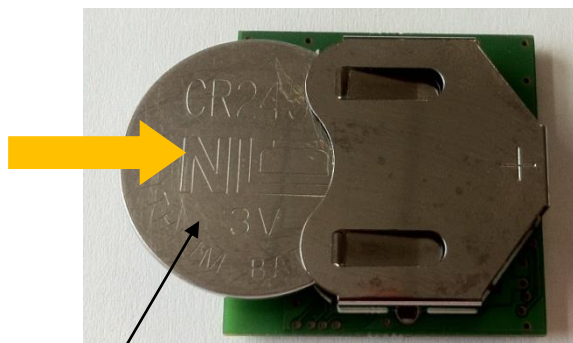
The second demonstration requires the use of an iPhone (4S or higher) or an Android device (4.3 or higher).

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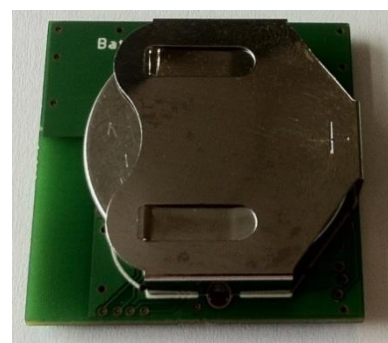
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## 1. Demonstration with Master Control Panel

1. Place the CR2450 lithium battery into the battery holder.



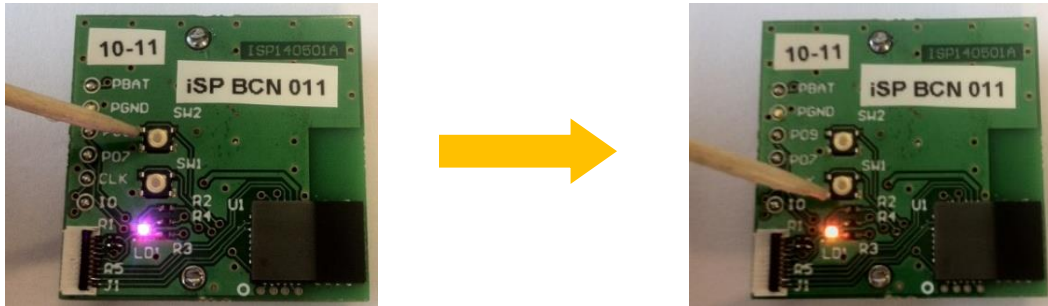
Battery CR2450 POS Terminal UP



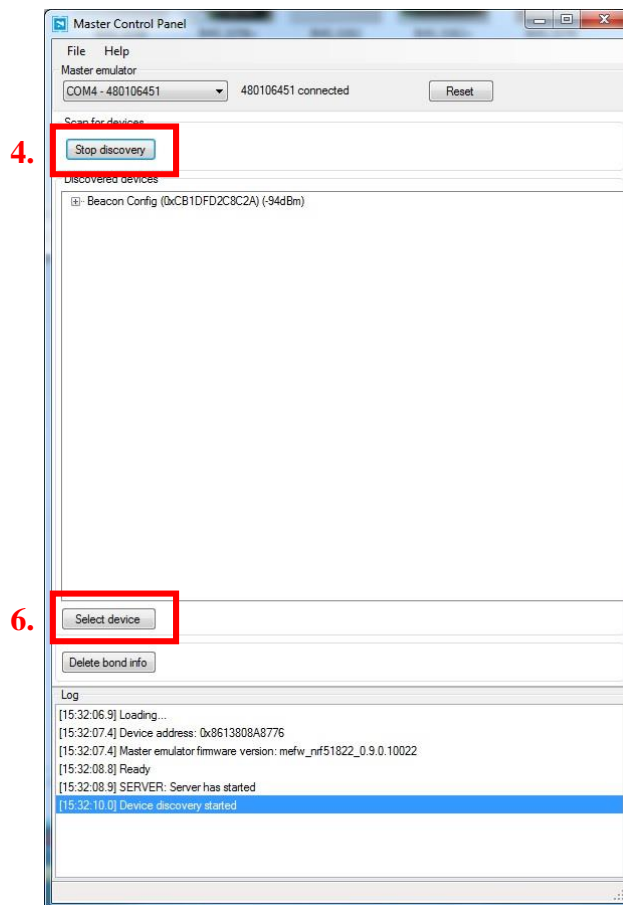
Battery CR2450 Fully Installed



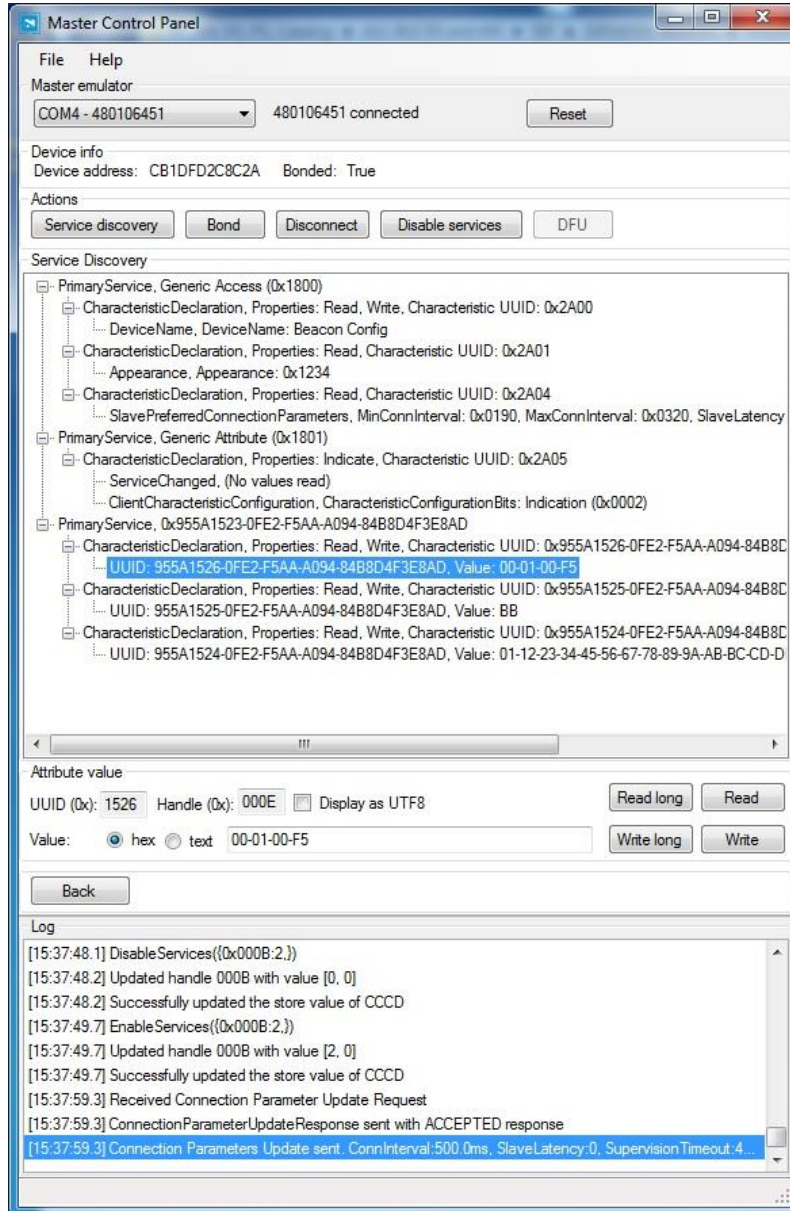
2. Connect Development Dongle PCA10000 (Master Emulator) into a USB port on your computer.
3. Start Master Control Panel.
4. Click Start Discovery.
5. On the beacon, push the switch SW2 to pair with the master (the led become orange).



6. Click Select Device.



7. On the following display, click successively on Bond, Service Discovery and Enable Services.



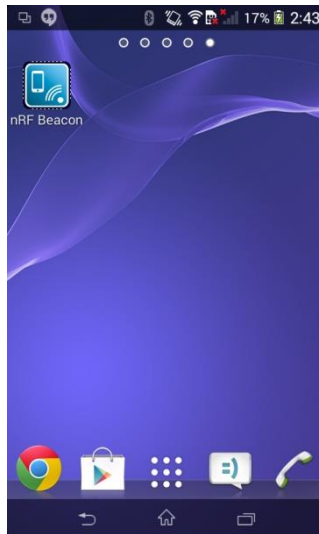
8. You can note data that transit between the ISP140501 and the Master Emulator via the Bluetooth link.
9. To switch off ISP140501, remove the CR2450 battery.



## 2. Demonstration with Android Device (4.3 & higher)

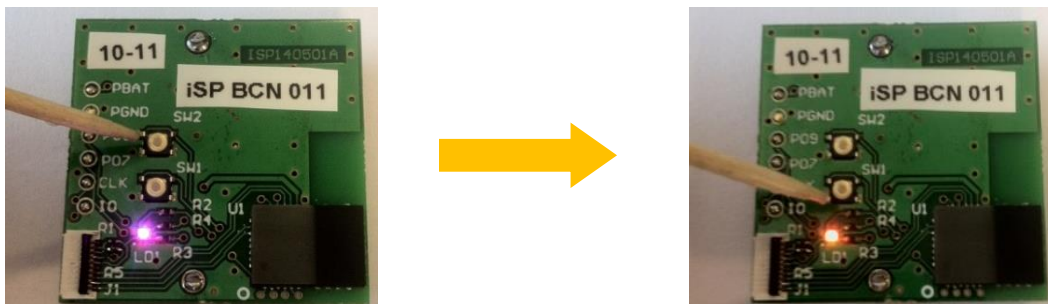
The free beacon application developed by Nordic Semiconductor is available on the Play Store. Make sure the Bluetooth is activated on your device (go to wireless device settings).

Download and install the nRF Beacon app on the Play Store. You should see the following screen on your device.

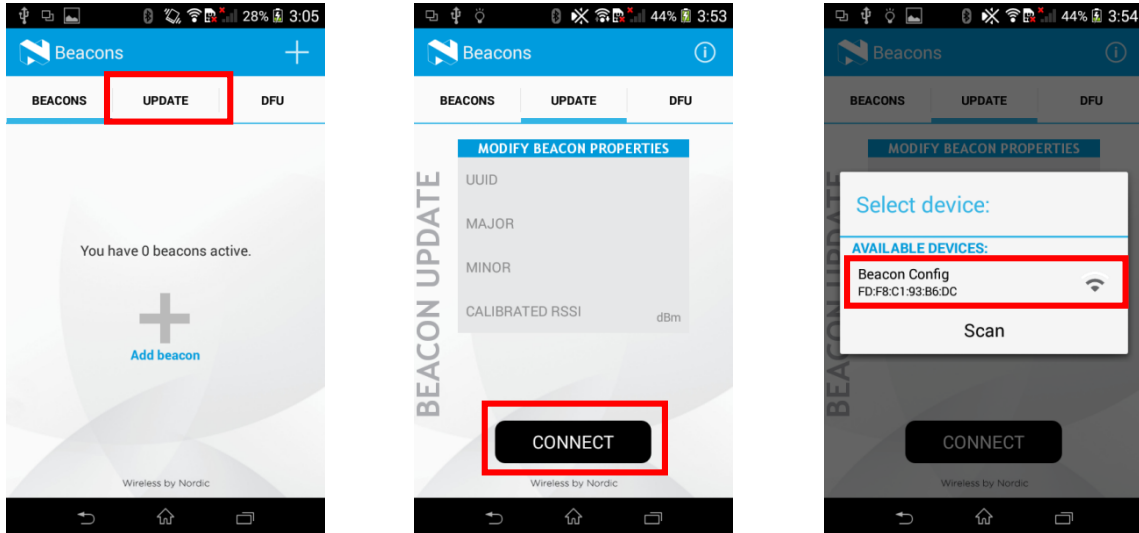


Then you will be able to set up the application demonstration as follows:

1. Place the CR2450 battery into the Beacon ISP140501.
2. Start nRF Beacon application on your iPhone or on your android device, click Update and Connect.
3. On the beacon, push the switch SW2 to pair with the device (the led become orange).



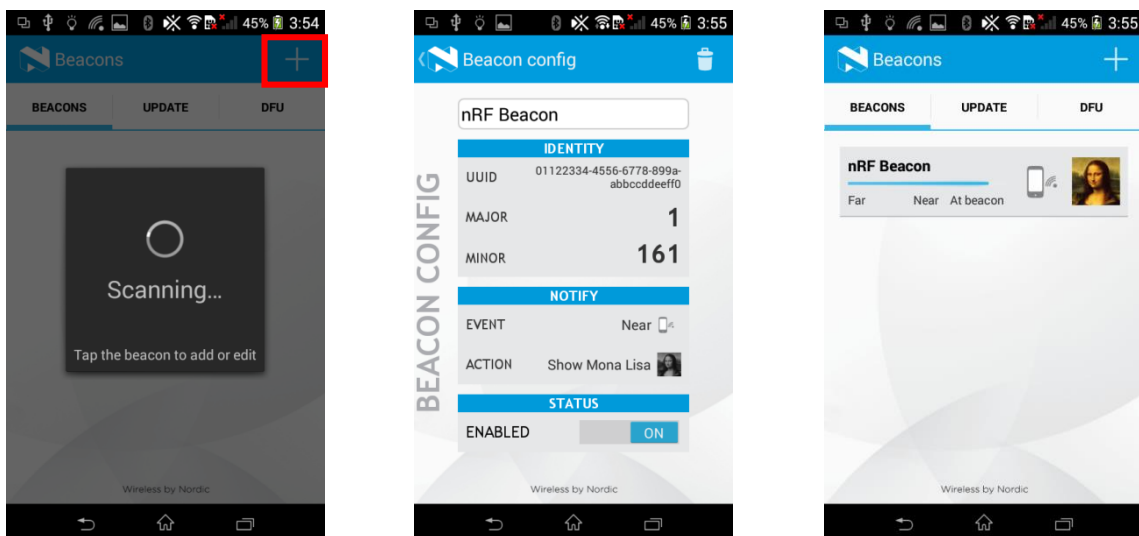
4. Select your Beacon (name Beacon Config).



5. Click '+' to add Beacon.  
6. Wait until Beacon led turns back to purple.



7. Your beacon is successfully added, you can modify the parameters of the beacon in the configuration option (change the name, the major and minor values, the notification ...).



- Go to Beacons windows and see the notification about the Beacon detection on your device.



- To switch off ISP140501 Beacon, remove battery.

### 3. Demonstration with iPhone Device (4S & higher)

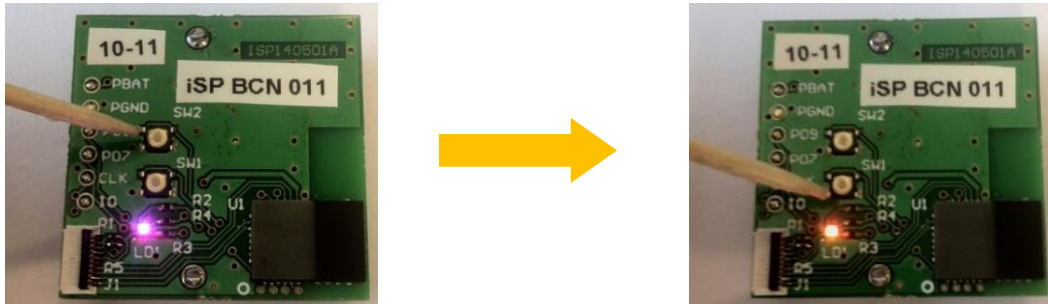
The free beacon application developed by Nordic Semiconductor is available on the App Store. Make sure the Bluetooth is activated on your device (go to wireless device settings).

Download and install the nRF Beacons app on the App Store. You should see the following screen on your device.

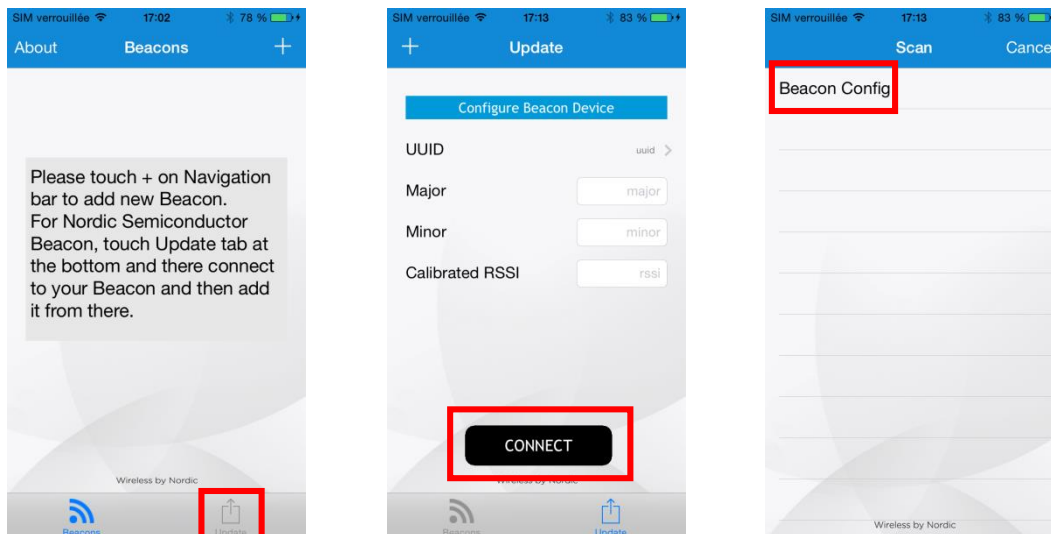


Then you will be able to set up the application demonstration as follows:

1. Place the CR2450 battery into the Beacon ISP140501.
2. Start nRF Beacon application on your iPhone or on your android device, click Update and Connect.
3. On the beacon, push the switch SW2 to pair with the device (the led become orange).



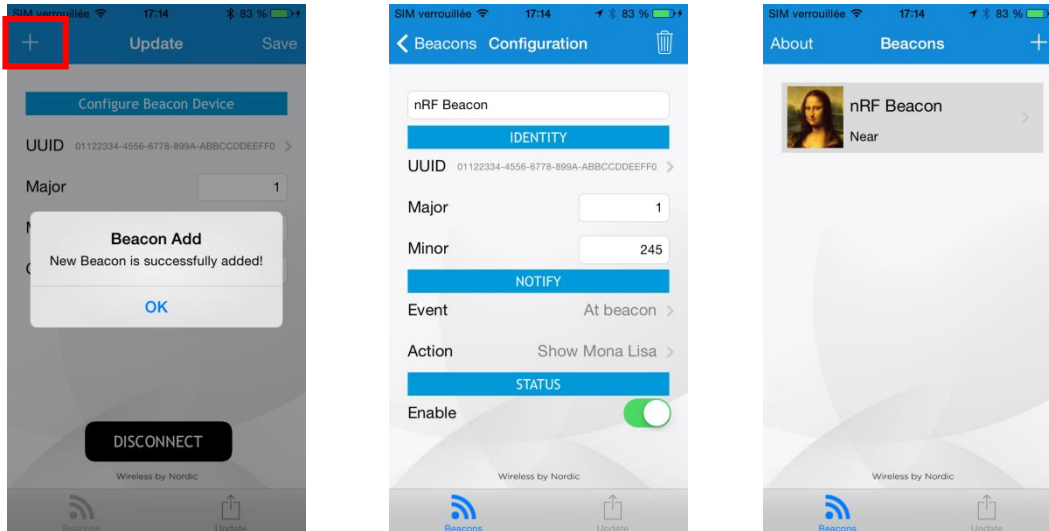
4. Select your Beacon (name Beacon Config).



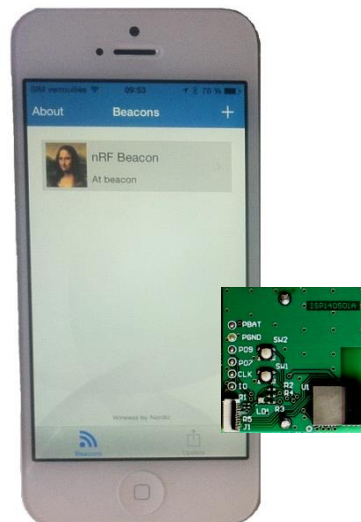
5. Click '+' to add Beacon.
6. Wait until Beacon led turns back to purple.



7. Your beacon is successfully added, you can modify the parameters of the beacon in the configuration option (change the name, the major and minor values, the notification ...).



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9. To switch off ISP140501 Beacon, remove battery.

