Digi XBee Mobile SDK User Guide

The Digi XBee 3 family brings a new Bluetooth Low Energy (BLE) communication interface that extends the functionality offered by these devices. It allows you to connect an XBee device with a mobile phone application through a Bluetooth interface and perform different tasks wirelessly:

- Configure the different firmware settings during provisioning operations using a mobile application.
- Exchange data between a mobile application and the MicroPython application running inside the XBee to get and send data to peripherals or perform advanced configuration tasks.
- Exchange data between a mobile application and the micro-controller connected to the serial interface of the XBee device to get and send data to peripherals or even update the firmware of the micro-controller.

Digi has developed the Digi XBee Mobile app that uses the Bluetooth interface to configure different firmware settings of an XBee device and communicate with other interfaces wirelessly. The application is useful during the development process of an XBee solution or for testing purposes, but you may want to develop your own mobile applications to perform more specific tasks or configurations. Developing these mobile applications may become difficult because communicating with the Bluetooth interface of the XBee device involves some authentication and encryption steps. For that reason Digi has created the XBee Mobile SDK.

The XBee Mobile SDK is a set of libraries, examples and documentation that help you develop mobile applications to interact with XBee devices through their BLE interface. For this purpose, Digi provides two easy-to-use libraries that allow you to create XBee mobile native apps:

- XBee Library for Xamarin, to develop cross-platform mobile applications using C# language (iOS and Android).
- XBee Library for Android, to develop Android applications using Java.

These libraries provide a set of APIs that handle all the authentication, encryption and communication processes with the Bluetooth interface of the XBee device. They speed up the development of custom XBee BLE apps with simple examples for different communication models.

- Bluetooth Low Energy in the XBee devices
- Use cases
- Create an XBee Mobile application

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