STSW-ST25005

Android™ application for ST25DV-I2C BLE out-of-band pairing

Data brief

Features

- Bluetooth® Low Energy (BLE) pairing with OOB (out-of-band) information exchanged through NFC using ST25DV-I2C series Dynamic NFC Tags
- Secure BLE connection
- Secure simple pairing
- Protection against MITM (man-in-the-middle) attacks

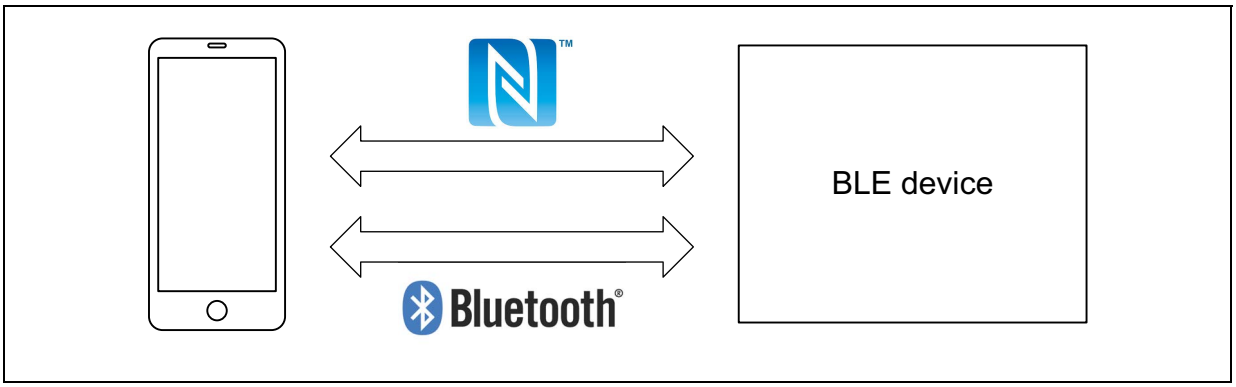
Description

The ST25DV-I2C BLE out-of-band pairing demonstration software shows how NFC can be used to improve the security of BLE connections.

NFC provides an additional communication channel between a Bluetooth device and an Android phone. This extra communication channel is used to exchange data (called out-of-band data) used during the Bluetooth pairing, preventing MITM attacks.

This Android application (STSW-ST25005), its source code (STSW-ST25006), an STM32 firmware (STSW-ST25DV004) and user manual UM2710 are available on *www.st.com*.

An STM32WB55 microcontroller (on the MB1355C board) and an X-NUCLEO-NFC04A1 board are required to run the demonstration software.



Revision history

Table 1. Document revision history

Date	Revision	Changes
31-Mar-2020	1	Initial release.
07-May-2020	2	Updated *Description*.