

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

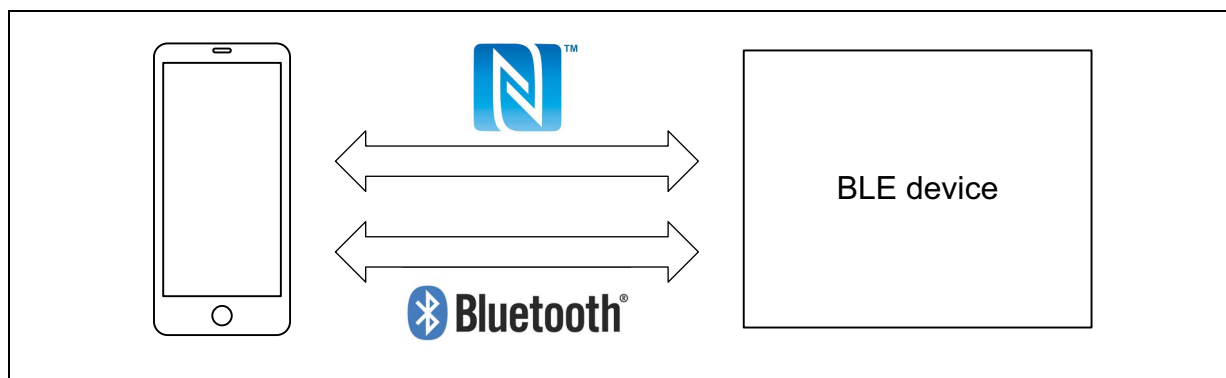
Description

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 <i>Description</i> .

IMPORTANT NOTICE – PLEASE READ CAREFULLY

STMicroelectronics NV and its subsidiaries ("ST") reserve the right to make changes, corrections, enhancements, modifications, and improvements to ST products and/or to this document at any time without notice. Purchasers should obtain the latest relevant information on ST products before placing orders. ST products are sold pursuant to ST's terms and conditions of sale in place at the time of order acknowledgement.

Purchasers are solely responsible for the choice, selection, and use of ST products and ST assumes no liability for application assistance or the design of Purchasers' products.

No license, express or implied, to any intellectual property right is granted by ST herein.

Resale of ST products with provisions different from the information set forth herein shall void any warranty granted by ST for such product.

ST and the ST logo are trademarks of ST. For additional information about ST trademarks, please refer to www.st.com/trademarks. All other product or service names are the property of their respective owners.

Information in this document supersedes and replaces information previously supplied in any prior versions of this document.

© 2020 STMicroelectronics – All rights reserved