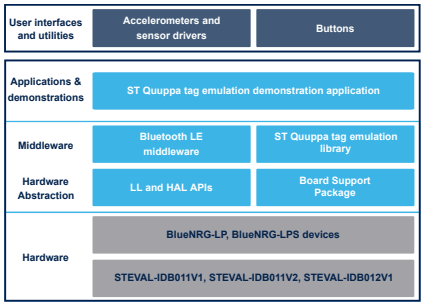
STSW-QUUPPA-ETAG

Data brief

ST Quuppa tag emulation



Wireless Connectivity

Product summary	
ST Quuppa tag emulation	STSW-QUUPPA-ETAG
BlueNRG-LP/BlueNRG-LPS DK software package	STSW-BNRGLP-DK
Programmable Bluetooth® Low Energy wireless SoCs	BlueNRG-LP/ BlueNRG-LPS
Evaluation platform based on the BlueNRG-LP system-on-chip	STEVAL-IDB011V1/ STEVAL-IDB011V2
Evaluation platform based on the BlueNRG-LPS system-on-chip	STEVAL-IDB012V1
WiSE-Studio free IDE for Windows, Linux, and MAC OS	STSW-WISE-STUDIO
Applications	Wireless Connectivity

Features

- Software package to support the BlueNRG-LP/BlueNRG-LPS ST Quuppa tag emulation
- ST Quuppa tag emulation library
- ST Quuppa tag emulation demonstration application for ST tag tracking on the related Quuppa positioning system
- ST Quuppa tag emulation preconfigured profiles

Description

The STSW-QUUPPA-ETAG evaluation software package provides the ST Quuppa tag emulation library and the associated demonstration application. It allows building a Quuppa tag emulation device that features the location-tracking capability, multiple sensors data provisioning, and a framework for custom back-channel commands to be used through the Quuppa proprietary positioning system.

The ST Quuppa tag emulation library is built according to the specifications of the Quuppa tag emulation and Quuppa tag back channel based on the Bluetooth® Low Energy wireless technology. It also supports a set of Quuppa preconfigured profiles, which define specific tag features.

The ST Quuppa tag emulation is implemented on top of the standard Bluetooth® Low Energy specification and the related channels. You can build it within the STSW-BNRGLP-DK software package for the BlueNRG-LP/BlueNRG-LPS Bluetooth® Low Energy stack v3.1x family.

Unzip/extract the *en.STSW-QUUPPA-ETAG.zip* file under your local STSW-BNRGLP-DK installation folder.

The STSW-BNRGLP-DK Projects\BLE_Examples folder contains the *BLE_Quuppa_Tag_Library* folder, which includes the ST Quuppa tag emulation library, the application header, the source files, and the *BLE_Quuppa_Tag_with_Lib* folder, which includes the demonstration application projects. The supported IDE toolchains are IAR Embedded Workbench for Arm, Keil® MDK-ARM, and STSW-WISE-STUDIO.

The STSW-BNRGLP-DK *Docs* folder includes the *st_quuppa_tag_emulation_release_notes_html* and the *st_quuppa_tag_emulation_apis_html* folders as well as the *index_st_tag.html*. These documents provide information about the ST Quuppa tag emulation solution (*index_st_tag.html* is the documentation entry point).

The STSW-QUUPPA-ETAG software package supports the STEVAL-IDB011V1, STEVAL-IDB011V2, and STEVAL-IDB012V1 platforms.

Revision history

Table 1. **Document revision history**

Date	Revision	Changes
07-Feb-2022	1	Initial release.
03-May-2022	2	Updated cover page image, features, product summary table, and description. Added references to the BlueNRG-LPS device, and to the STEVAL-IDB011V2 and STEVAL-IDB012V1 platforms.