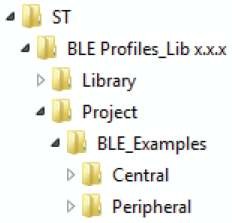
STSW-BLEPROFILES

Data brief

BlueNRG-1 and BlueNRG-2 profiles library SW package



Product status link
STSW-BLEPROFILES

Features

- Bluetooth® SMART profiles library SW package supporting BlueNRG-1 and BlueNRG-2 Bluetooth low energy (BLE) systems-on-chip
- Bluetooth low energy profiles binary libraries for central and peripheral roles
- Bluetooth low energy profiles APIs and events callbacks interface
- Bluetooth low energy stack binary library
- Bluetooth low energy stack APIs and events callbacks interface
- Bluetooth low energy profiles test applications
- BlueNRG-1 and BlueNRG-2 CMSIS files
- BlueNRG-1 and BlueNRG-2 SDK, HAL and peripheral drivers
- STEVAL-IDB007Vx (x=1,1M,2), STEVAL-IDB008Vx (x=1,2), STEVAL-IDB009Vx (x=1) kit platforms

Description

The STSW-BLEPROFILES is an evaluation SW package which provides a set of Bluetooth low energy standard profiles in binary format and supports the BlueNRG-1 and BlueNRG-2 Bluetooth low energy (BLE) single-mode systems-on-chip.

The SW package also provides a set of profiles test applications allowing to show basic Bluetooth low energy (BLE) profiles working scenarios and to test the compliance with the BLE profiles specification.

Each profile test application comes with a complete set of header, source files and project files.

The STSW-BLEPROFILES SW package supports the STEVAL-IDB007Vx (x=1,1M,2), STEVAL-IDB008Vx (x=1,2), STEVAL-IDB009Vx (x=1) kit platforms available on relative web pages.

1 BLE profiles and roles

The following BLE standard profiles and related roles are supported:

- Alert notification client (central & peripheral)
- Alert notification server (central & peripheral)
- Blood pressure sensor (peripheral)
- Blood pressure collector (central)
- Continuous glucose monitoring sensor profile (peripheral)
- Find me locator profile (central & peripheral)
- Find me target profile (central & peripheral)
- Glucose sensor (peripheral)
- Glucose collector (central)
- Health thermometer sensor (peripheral)
- Health thermometer collector (central)
- Heart rate sensor (peripheral)
- Heart rate collector (central)
- HID device (central)
- Phone alert server (peripheral)
- Phone alert status (central)
- Proximity monitor (central & peripheral)
- Proximity reporter (central & peripheral)
- Time server (central & peripheral)
- Time client (central & peripheral)

The STSW-BLEPROFILES SW package profiles APIs and events provide the basic building block for implementing a profile application:

- Initialization APIs
- Service/characteristics definition
- Enter in discovery mode APIs
- Service and characteristics discovery APIs
- Characteristics reading, writing, indication and notification APIs.

Revision history

Table 1. Document revision history

Date	Version	Changes
22-Mar-2017	1	Initial release.
21-Jul-2017	2	Added reference to BlueNRG-2 device and STEVAL-IDB008V1 kit
12-Dec-2018	3	Added reference to STEVAL-IDB007Vx (x=1,1M,2), STEVAL-IDB008Vx (x=1,2), STEVAL-IDB009Vx (x=1). Section 1 BLE profiles and roles.