Overview

ARM® Cordio® BT profiles provide a production-ready solution for creating interoperable Bluetooth® low energy products. This unique approach to profiles provides our customers with sample applications built on a software framework that simplifies development and porting.

Cordio BT profiles of:

- Sample applications: Example implementations for products such as a proximity key fob, health sensor, and watch
- Profiles and services: Interoperable components designed to Bluetooth specification requirements
- App framework: Unique service layer for simplified application development and porting
- Sample applications are designed with real products in mind. Source code examples accelerate product development and reduce time-to-market
- Bluetooth qualified host and profile subsystem

Sample applications:

- Fitness: Heart rate monitor and running speed/cadence sensor
- Proximity: Proximity and “find me” keyfob
- Health sensor: Blood pressure, oximeter, health thermometer, or glucose sensor
- Health collector: Heart rate, blood pressure, oximeter, health thermometer, or glucose data collector
- Watch: Bluetooth low energy watch with message alerts and phone ringer control
- Cycling: Cycling power and speed measurement
- HID: Wireless keyboard, mouse, and remote control

Profiles and services:

- Alert Notification Profile (ANP)
- Battery Service (BAS)
- Blood Pressure Profile (BLP)
- Blood Pressure Service (BPS)
- Device Information Service (DIS)
- Find Me Profile (FMP)
- Glucose Profile (GLP)
- Glucose Service (GLS)
- Health Thermometer Profile (HTP)
- Health Thermometer Service (HTS)
- Heart Rate Service (HRS)
- Heart Rate Profile (HRP)
- Immediate Alert Service (IAS)
- Link Loss Service (LLS)
- Phone Alert Status Profile (PASP)
- Proximity Profile (PXP)
- Time Profile (TIP)
- TX Power Service (TPS)
- Weight Scale Profile (WSP)
- Weight Scale Service (WSS)
- Cycling speed and cadence service (CSCP)
- Cycling speed and cadence service (CSCS)
- Cycling power (CP)
- Cycling power service (CPS)
- Running speed and cadence (RSCP)
- Running speed and cadence service (RSCS)
- Pulse oximeter (PLXP)
- Pulse oximeter service (PLXS)
- HID Over GATT Profile (HOGP)
- HID Service (HIDS)
- Scan Parameter Profile (SCPP)
- Scan Parameter Service (SCPS)
- Internet Protocol Support Profile (IPSP)

*This may not be a comprehensive list; additional profiles and services are always under development.

Cordio application framework

The Cordio application framework is a unique service layer designed to simplify application development and porting. It takes features which are common to many applications — such as a connection manager, a button-press handler, or a device database — and turns them into reusable services with simple APIs.

Main: Management for device, connections, and security

UI: Buttons, LED, sounds, and user interface abstraction

DB: Device database abstraction

HW: Hardware sensor interface abstraction

Profiles framework