



PACKETCRAFT™
WORLD-LEADING WIRELESS



Packetcraft Host

Product Brief

Highlights:

- Bluetooth LE Audio profiles and services
- Bluetooth qualified and commercial-ready
- Full Bluetooth LE 5.3, 5.2, and 5.1 spec. compliance
- Mature host stack extensively adopted and tested
- Optimized for embedded systems with limited resources (CPU, memory)
- Portable to different CPUs, radios, and operating systems

Applications:

- Audio headsets, earbuds, hearing aids and accessories
- Watches & activity monitors
- Health & fitness devices
- Microphone & speaker
- Audio source devices (tablet, camera, etc.)
- Auracast™ broadcast audio wireless infrastructure

Contact:

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Optimized and Qualified Bluetooth LE Host

Packetcraft's feature-rich and mature software dates back to 2009 and is extensively tested and widely adopted. Extensive testing conducted by Packetcraft and in conjunction with test partners supports interoperability, quality, and reliability.

Packetcraft Host efficiently enables Bluetooth LE Audio atop embedded systems operating with limited CPU & memory resources and under battery constraints. Consisting of the Bluetooth LE host protocol stack, GATT profiles, and new LE Audio profiles, Packetcraft Host production-ready Bluetooth 5.3 qualified solution supports mandatory and optional features. When combined with Packetcraft Controller and Packetcraft LC3, licensees receive a comprehensive, fully-integrated LE Audio solution from a single software supplier with exceptional support.

Also offered is Packetcraft Host Tester, a companion test tool allowing Packetcraft's host protocol stack and profiles to be tested on a PC and can interface to PTS, the official qualification tool by Bluetooth SIG.

Host Protocol Stack and GATT Profile Features

- Full BLE 5.3 feature set including: host support for LE enhanced connection update and LE channel classification
- Full BLE 5.2 feature set including: EATT, host support for isochronous BIS and CIS, and LE power control
- Full BLE 5.1 feature set including: host support for 2Mbps, long range, extended advertising and scanning, and direction finding
- Suite of popular standard GATT profiles with easy-to-use samples

LE Audio Profile Features

- Generic Audio profiles: BAP, CAP, CSIP, MCP, MICP, VCP
- Generic Audio services: AICS, ASCS, BASS, CAS, CSIS, MCS, MICS, PACS, VCS, TBS, VOCS
- Support for broadcast and unicast audio streams, Acceptor, Initiator, and Commander roles
- Use case profiles: HAP, PBP, TMAP (optional licensing add-on)

Packetcraft, Inc

With more than 100 million devices enabled, Packetcraft continues to deliver a legacy of extensively used and well-tested embedded software and protocol stacks for Bluetooth Low Energy.

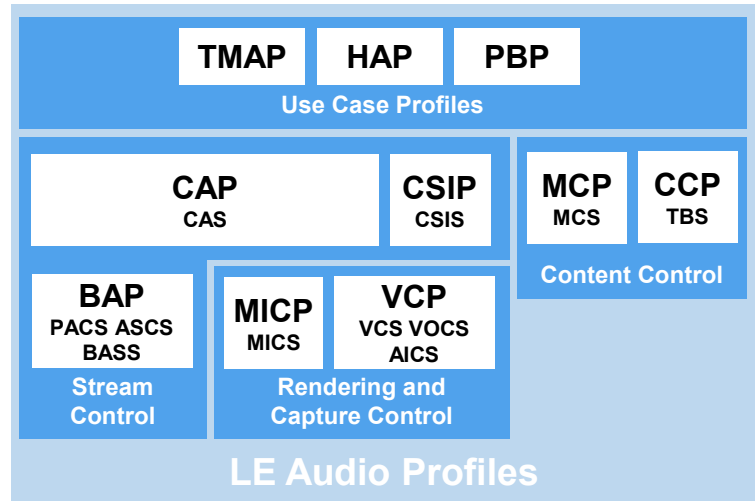
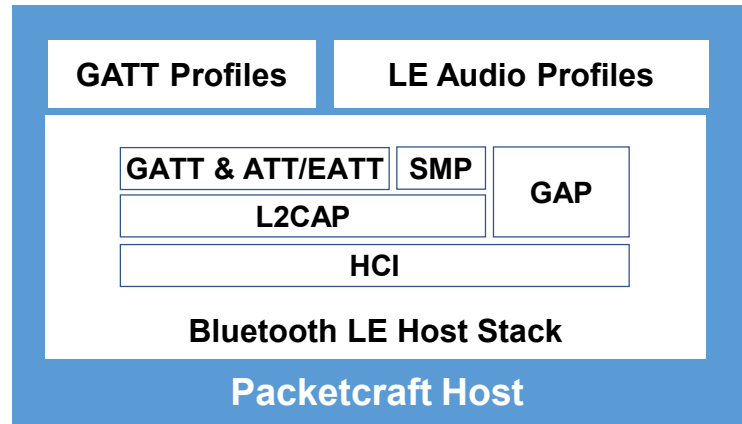
Packetcraft prides itself on both efficient design and achieving first-to-market qualifications which help ensure their customers are at the leading-edge for product innovation and distinction.

Packetcraft's leadership in Bluetooth LE began in 2009 with the founding of Wicentric, continued through Arm's ownership in 2015, and is maintained today as new technological innovations such as LE Audio come to market.

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Compliance

Packetcraft Host is qualified to the Bluetooth LE specification v5.3. Fully qualified and listed with the Bluetooth SIG, QDID is 179003. LE Audio profiles qualified, QDID is 199041.

Deliverables

- API source code files
- Full source code or object code library (license tier)
- Make files
- API documentation
- User's guide and release notes