Highlights:

- More than 2,000 Bluetooth LE 5.4 host stack and GATT profile qualification test cases
- Optional test suite with over 1,000 LE Audio profile qualification test cases
- Packetcraft's host protocol stack & profiles PC test tool
- PTS automated qualification testing interface

Applications:

- Protocol stack and LE Audio testing by software developers and system test engineers
- Integrate into software development CI system for automated testing

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Protocol Stack & Profiles Tester with CI Integration

Packetcraft Host Tester is the companion test tool to Packetcraft Host, allowing Packetcraft's host protocol stack and profiles to be tested via a PC with a versatile Python-based test interface.

Packetcraft Host Tester can interface to PTS, the official qualification tool released by Bluetooth SIG, to perform automated execution of Bluetooth qualification test cases. Since Packetcraft Host Tester executes the protocol stack and profiles on a PC, testing is unaffected by limitations or idiosyncrasies of a target hardware platform.

Packetcraft Host Tester includes more than 2,000 Bluetooth 5.4 qualification, profile, GAP, SMP, GATT, L2CAP, and application test cases and offers an additional optional 1,000+ LE Audio profile qualification test cases.

CI tools implement an example software development flow with package, test, analyze, & publish.

Packetcraft Controller Tester Features

- Bluetooth 5.4 host protocol stack and GATT profile qualification test suite with optional Bluetooth LE Audio profile test suite
- Executes one or more instances of the stack and profiles on a PC with an automatically-generated Python wrapper interface to stack and profile APIs
- Connects to Bluetooth HCI controller device via UART HCI
- Test harness that runs test cases on multiple instances
- CI test tools written in Python and Bash are adaptable to 3rd party CI software (GoCD, Bamboo, Jenkins, etc.)
- Customizable test scripts written in Python
- Runs on Windows and built with Microsoft Visual Studio

Packetcraft, Inc

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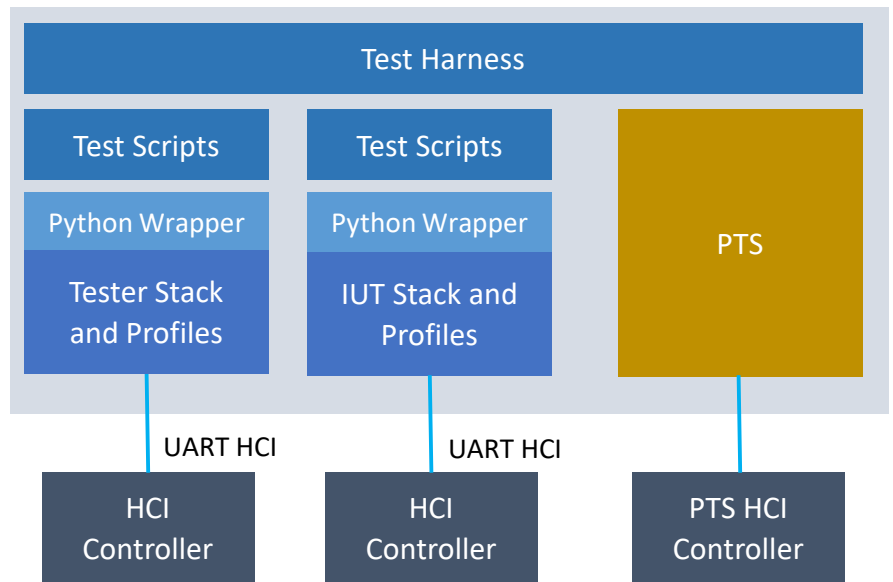
Packetcraft's leadership in Bluetooth LE began in 2009 with the founding of Wicentric, continued through Arm's ownership in 2015, and is maintained today as new technological innovations such as LE Audio, PAwR, and Channel Sounding come to market.

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Host Tester Block Diagram

- Test Harness: Runs test cases on multiple stack instances and gathers results

- Test Scripts: Python scripts implementing IUT / Tester roles of test cases

- Tester Stack & Profiles: Stack instance that executes Tester role scripts

- IUT Stack and Profiles: Stack instance that executes IUT role scripts

- PTS: Third-party stack and profile qualification test tool available from Bluetooth SIG

HCI controller not included. PTS HCI controller available from Bluetooth SIG.

Deliverables

- Test Harness Python source code.

- Host protocol stack and GATT profiles test scripts Python source code.

- LE Audio profiles test scripts Python source code.

- Python integration for PTS.

- CI Tools example scripts Python and bash source code.

- User's guide