Vital Signs BLE Protocol based on mmWave Platform v01.03

Abstract:
> This document dedicated description for Vital Signs BLE Protocol based on mmWave Platform
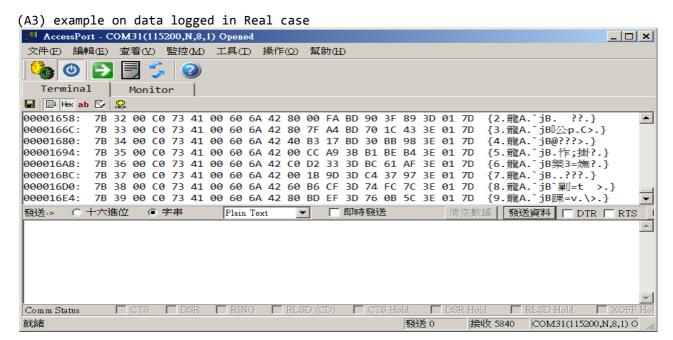
Description:
> The BLE Protocol structure as followings,
> BLE Protocol:
> <FrameStructure> := h f BR HR BP HP s t (more detail see Appendix A2)

Appendix:
(A1) Frame Period Time : 50 ms (based on mmWave board firmware v01.54 or v30.02, later)

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(A2)
//* BLE protocol for Vital Signs
//* syntax: h f BR HR BP HP s t
//* ----------------------------------------------------------------
//* Item    Name     Location            Length  Type      Description
//* ----------------------------------------------------------------
//* 0       h        0                   1       U8        header (0x7B) or ('{')
//* 1       f        1                   1       '0'..'9'  flow for readable
//* 2       BR       2 3 4 5             4       F32       Breath Rate
//* 3       HR       6 7 8 9             4       F32       Heart Rate
//* 4       BP       10 11 12 13         4       F32       Breath Waveform Phase
//* 5       HP       14 15 16 17         4       F32       Heart Waveform Phase
//* 6       s        18                  1       U8        Status, see Notes
//* 7       t        19                  1       U8        tail (0x7D) or ('}')
//* ----------------------------------------------------------------
Notes: Type definition as followings,
      Status := {0x00 | 0x01 | 0x02 | 0x03}
            := {TargetNone | TargetStable | TargetMovement | TargetAlert}
      U8  := unsigned char      (1 bytes)
      F32 := float              (4 bytes in LittleEndian format)
//* ----------------------------------------------------------------
```

(A3) example on data logged in Real case