**Revision History – Labview GUI**

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| No. | Date | Version | Revision Summary |
| 1 | August 22, 2016 | 160822A | 1. Target model: GEN4 Persona PP1  2. Remarks: Beginning of a program development.  3. New features   1. UART communication function 2. UART comm. Packet processing 3. Comm. Error handling 4. Comm. data logging 5. Graph of CDC & IMU real data 6. Offset setting of CDC & IMU data 7. Export data to excel file at the Graph 8. Graph clear 9. Automation test function using Mark10 10. Analysis Tool (Noise level Analysis, Response Time, Filter Simulation)   4. Changed functionality   1. None   5. Deleted functionality   1. None   6. Author: JSLim |
| 2 | December 16, 2016 | 161216A | 1. Target model: GEN4 Persona PP2  2. Remarks: Changed UART to BLE communication.  3. New features   1. BLE communication function using BLE dongle (BLED112) 2. Scanning & connection of a BLE Device 3. BLE comm. Packet processing 4. Monitoring data processing (CDC 3🡪2 byte) 5. Comm. Error handling 6. BLE Diagnosis (RSSI, Interval time) 7. BLE handle data sending 8. Improved function of FTS (Load control of Equipment)   4. Changed functionality   1. Two test profile(Calibration & Accuracy) in the FTS 2. Offset data processing using BLE data   5. Deleted functionality   1. UART communication function 2. Analysis Tool (Noise level Analysis, Response Time, Filter Simulation)   6. Author: JSLim |
| 3 | January 3, 2017 | 170103A | 1. Target model: GEN4 Persona PP2  2. Remarks: Added Debugging mode for CDC raw data.  3. New features   1. Debugging mode(Raw data , Filtered data) 2. Manual Test(Control of Normal mode and Debugging mode) 3. Plot On/Off selection(View of the Raw data or filtered data or all data)   6. Author: JSLim |
| 4 | January 11, 2017 | 170111A | 1. Target model: GEN4 Persona PP2  2. Remarks: Resolves non-executable issues.  3. New features   1. File name of a sub vi was changed Korean to English    * SUB-자료변환-24Bit 데이터를 실수형(float)으로 변환.vi 🡪 SUB-Data conv\_INT to Float.vi    * SUB-프런트패널 종료.vi 🡪 SUB-Exit.vi   4. Changed functionality   1. None   5. Deleted functionality   1. None   6. Author: JSLim |
| 5 | January 12 2017 | 170112A | 1. Target model: GEN4 Persona PP2/PP3  2. Remarks: Change the shape of the graph.  3. New features   1. None   4. Changed functionality   1. Changed from multi-layer plot to single plot.   5. Deleted functionality   1. None   6. Author: JSLim |
| 6 | February 20  2017 | 170217A | 1. Target model: GEN4 Persona PP2/PP3  2. Remarks: fixed GUI disconnection issues.  3. New features   1. Applied GEN4 protocol 2.0.1    * Flash Map Tab -> Data Map -> ROM Table    * Setting Info. Tab -> ROM Table 2. Added function of Automatically reconnect   4. Changed functionality   1. Initial Connect  * Continuous scanning * Added Discovery LED * Prevent data transmission in unstable state   (Condition : MAC address of Advertise and response)   1. FTS Calibration    * Method by recommend by KH    * Calibration and load testing process combine   5. Deleted functionality   1. None   6. Author: Asher |
| 7 | April 28  2017 | 170428A | 1. Target model: GEN4 Persona PP4  2. Remark: Applied OS FTS Software Requirement  3. New features   1. Added Product Power Off Function   4. Changed functionality   1. Applied OS FTS Software Requirement   5. Deleted functionality   1. None   6. Author: Asher |
| 8 | June 05  2017 | 170428B | 1. Target model: GEN4 Persona PP4  2. Remark: Partially Translation in English  3. New features   1. None   4. Changed functionality   1. None   5. Deleted functionality   1. None   6. Author: Asher |
| 9 | June 09  2017 | 170428C | 1. Target model: GEN4 Persona PP4  2. Remark: Full Translation in English  3. New features   1. None   4. Changed functionality   1. None   5. Deleted functionality   1. None   6. Author: Asher |
| 10 | June 09  2017 | 170428D | 1. Target model: GEN4 Persona PP4  2. Remark: Remove unused source code in FTS Part  3. New features   1. None   4. Changed functionality   1. None   5. Deleted functionality   1. None   6. Author: Asher |
| 11 | June 21  2017 | 170619A | 1. Target model: GEN4 Persona PP4  2. Remark: Apply request from OS (Glenn)  3. New features   1. Added display of average value of RSSI/Interval time 2. Added reset button of average value of RSSI/Interval time   4. Changed functionality   1. None   5. Deleted functionality   1. None   6. Author: Asher |
| 12 | July 24  2017 | 170724 | 1. Target model: GEN4 Persona PP4  2. Remark: Changed the protocol  3. New features  A. Modification of setting Info. Flash Map.  4. Changed functionality  A. Transmission and reception of changed protocol  5. Deleted functionality  A. None  6. Author: Yeob |
| 13 | August 5, 2017 | 170805 | 1. Target model: GEN4 Persona PP4  2. Remark: Add checksum, Auto reconnecting  3. New features  A. Changed the Battery calibration part   1. Setting info. Flash map table change   (serial num. device ID)  4. Changed functionality   1. Auto reconnecting   5. Deleted functionality   1. None   6. Author: Yeob |
| 14 | August 23  2017 | 170823A | 1. Target model: GEN4 Persona PP4  2. Remark: Debug the second counter and ack  3. New features  A. None  4. Changed functionality   1. None   5. Deleted functionality   1. None   6. Author: Yeob |

2018년 1월 24일

Asher -> Yeob 변경이력

□ BLE sorting – RSSI

□ Initial Data [~Classify.vi] : 초기값

□ Monitoring Data [Main.vi] : check sum 추가

□ ROM data parsing

□ BLE Tx sender [main.vi]

□ Rx Packet Data

└Check sum

└Tx

└setting info

└cal factor

└device off after FTS

└manual

Rx

Tx

Rx checksum

□ FTS 후 Cal factor Send (/w second count, /w device off)

□ Battery calibration send