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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Priority** | **Agreed Start Date** | **Ref** | **Task** | **Development Requirement** | **Additional Comments** | **Estimated Completion (Hrs)** | **Developer’s comment**  **Tester’s comment** |
|  | Sep/2/2019 |  | ZB-HART Modbus Development | Develop ZB-HART Modbus request handlers as specified in the document | * Distance * Level * Current Feedback * Port Status * Power * Response Delay * Reset EEPROM | 32 | Completed (Sep/5)  Development Complete |
|  | Sep/6/2019 |  | ZB-ANA  Modbus development | Develop ZB-ANA Modbus request handlers as specified in the document | * Port Status * 4-20mA input * Gain * Offset * Filter * Reset EEPROM * Response Delay | 32 | Completed(Sep/11)  Development Complete |
|  | Sep/16/2019 |  | ZB-485 Modbus Development | Develop ZB-485 Modbus request handlers as specified in the document | During development, noticed abnormal Modbus transaction failure and focused on troubleshooting for the whole week.  The original UART-16552 IRQ handlers were spending too much time in IRQ mode, which was causing unpredictable UART overrun/underrun on the other UART sides. Revamped the 16552 IRQ handling part by moving UART-16552 IRQ handler codes to a separate task. | 40 | UART-16552 issue resolved (Sep/20)  Request handler development is 0% in progress due to the unexpected problem in the original ANZB-485 code. |
|  | Sep/23/2019 |  | ZB-HART request handler test | Test ZB-HART request handlers | * Distance * Level * Current Feedback * Port Status * Power * Response Delay * Reset EEPROM | 16 | Completed(Sep/24)  Completed and Tested Fine.  \*)  Due to only one radar sensor available, full load test wasn’t executed. |
|  | Sep/25/2019 |  | ZB-ANA request handler test | Test ZB-ANA request handlers | * Port Status * 4-20mA input * Gain * Offset * Filter * Reset EEPROM * Response Delay | 16 | Completed(Sep/26)  Completed and Tested Fine.  \*)  Due to the absence of 4-20mA simulator, test was executed using an absolute pressure sensor. |
|  | Sep/27/2019 |  | ZB-MODBUS bootloader specification | Write MODBUS based ZB bootloader specification for board recovery and runtime firmware upgrade.  Update ZB-ANA/HART/485 specification reflecting bootloader support. |  | 24 | Completed(Sep/30)  Released ZB-ANA spec v0.3  Released ZB-HART spec v0.3  Released ZB-485 spec v0.3  Released ZB-BOOTLOADER spec v0.3 |

October ToDo

1. Develop ZB-485 MODBUS Request Handlers
2. ZB-485 MODBUS test (need ANSGCNV Board for a complete test)
3. Develop ZB- MODBUS Bootloader
4. Develop bootloader related functionalities for ZB- MODBUS ANA/485/HART
5. ZB-ANA endurance test
6. ZB-HART endurance test
7. Develop a test PC application to test ZB-MODBUS bootloader for firmware upgrade
8. ZB-ANA/ZB-485 Bootloader test
9. ZB-HART Bootloader test
10. ZB-HART MODBUS/ANPRO code integration using compile time switch (Oct/1)
11. ZB-ANA/ZB-485 MODBUS/ANPRO code integration using compile time switch (Oct/2)