6 – Satellite Working To-Do

04/05/2019, 05/05/2019, 06/05/2019

# Software Tasks – TODOS(X)

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| --- | --- | --- | --- | --- | --- |
| ID | Date Set | Date Completed | Task | Resolution | Reason |
| TODOS1 | 04/05/2019 | 04/05/2019 | Implement transceiver initialized message. | Removed the protocol message from the satellite system completely. | If the transceiver works then we will be communicating with it already. This command did not perform and error control therefore deemed unnecessary. |
| TODOS2 | 04/05/2019 | 04/05/2019 | Change the temperature transmitted in the system information message to the board temperature. | N/A | N/A |
| TODOS3 | 04/05/2019 | 04/05/2019 | If sensors break then we need to bypass their values. | Left as-is since wire.Read() is used and has a safe failure mode. | N/A |
| TODOS4 | 04/05/2019 | 04/05/2019 | When the persistent storage is wiped, re-set the deployment state eeprom. | N/A | N/A |
| TODOS5 | 04/05/2019 |  | Check connected pins for and errors, implement it in the Safety and Security system. |  |  |
| TODOS6 | 06/05/2019 | 06/05/2019 | Create custom delay function that signals to the hardware watchdog. |  |  |
| TODOS7 | 06/05/2019 | 08/05/2019 | EEPROM dump. |  | Did not need to debug the EEPROm since the multiple read/write system has been removed due to complexity. |
| TODOS8 | 09/05/2019 |  | Implement temperature sensor configurations. |  |  |
| TODOS9 | 10/05/2019 |  | Check that RTTY transmissions can be received |  |  |
| TODOS10 | 12/05/2019 |  | Check the hardware watchdog system works. |  |  |
| TODOS11 | 13/05/2019 |  | Transmit on both ISM and Amateur bands? |  |  |

# Documentation Tasks – TODOD(X)

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| --- | --- | --- | --- | --- | --- |
| ID | Date Set | Date Completed | Task | Resolution | Reason |
| TODOD1 | 04/05/2019 | 04/05/2019 | Add extra detail to the functional specification. | Additional information referenced in the system specification. |  |
| TODOD2 | 04/05/2019 |  | Complete system design document. |  | To provide extra detail into what the function defined in the functional specification is. |
| TODOD3 | 04/05/2019 | 05/05/2019 , --  06/05/2019 | Add more tests to the test plan. |  |  |
| TODOD4 | 05/05/2019 |  | Create communication system flow char |  |  |
| TODOD5 | 05/05/2019 | 08/05/2019 | Add detail to the protocol definition. |  |  |
| TODOD6 | 05/05/2019 |  | Add parameters to the protocol definition of System Information |  |  |
| TODOD7 | 05/05/2019 | 06/05/2019 | Add deployment sequence tests |  | Deployment sequence is variable depending use. |
| TODOD8 | 05/05/2019  06/05/2019 | 06/05/2019 | Add repeater tests |  | Repeater requires stress testing. |
| TODO9 | 05/05/2019 |  | Add password explanation to system design, setup and comms system explained. |  |  |
| TODOD10 | 05/05/2019 |  | Add explanation of stopped counter heartbeat switching. |  |  |
| TODOD11 | 05/05/2019 |  | Update documentation references!!! Including source code guide |  |  |
| TODOD12 | 08/05/2019 |  | Confirm the time span of transmission and receives. |  |  |
| TODOD13 | 08/05/2019 | 10/05/2019 | What happens if we configure the radio settings wrong and try to run an RxTx cycle? Additionally what happens if we do the same with the radio chip\_not\_found? Can we proceed and hope for the best in both cases or does it result in program stopping? | If one lora.being fails then it has no effect on other begins.  If the radio pins are incorrect the entire system fails. |  |
| TODOD14 | 10/05/2019 |  | Julian needs to run MAINPROGT2 |  |  |