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| TNC Testing Form (REV1) | |
| Leaf on the Tree | Error Checking |
| Device Under Test (Testing Tree Number): | 2.2.1 |
| Date: | 10/10/2020 |
| Person(s) Conducting Experiment: | Kobe Keopraseuth |
| Signature: |  |
| Experiment Purpose: | The purpose of this experiment is to verify an inputted packet has the correct FCS field, by performing a crc check on the other given subfields (Address, Control, PID, Info) as shown in the testing diagram. |
| Experiment Procedure: | To verify that it correctly verifies the FCS field, I made 2 testing array inputs, with a size greater than 120, which is the minimum. One array contains a correct FCS field and the other does not. Both arrays contain an input of 0x555555555555555555555555555555555555 (36 fives), excluding the FCS field. According the crc calculator, this input should have a crc output of 0x18c3. To verify that the generated crc is valid with the given input array, an online crc calculator was used. |
| Equipment Settings / Software Settings (w Revision): | Code will be implemented in Code Blocks IDE and it print out the input array, array after bit stuffing, the subfields obtained from the input array, FCS field in hexadecimal, crc calculation, and the result of whether the FCS field is valid or not. |
| Testing Diagram / Picture: |  |
| Data Points: |  |
| Pass / Fail: |  |
| Interpreted Notes: |  |
| Recommendations for Modifications: |  |