The test cases here are described using Gherkin syntax, a non-technical, human readable language

The tests are ordered by opcode

# 0x50: check\_RQNN

|  |  |
| --- | --- |
| **RQNN** | **Request node number** |
| Given: | N/A |
| When: | The module has been put into setup mode, by any means |
| Then: | Expect that an RQNN message is received from the module under test within a certain time period |
| Additional: | The time period should allow for manual intervention to put the unit into setup (such as pressing a button) |

# 0x53: Test\_NNLRN

|  |  |
| --- | --- |
| **NNLRN** | **Enter learn mode** |
| Given: | The node number of the unit under test |
| When: | The cbus message NNLRN is sent |
| Then: | Expect that the module enters learn mode – checked by requesting node parameter 8 from the module, and testing bit 5 is set |
| Additional: |  |

# 0x54: Test\_NNULN

|  |  |
| --- | --- |
| **NNULN** | **Leave learn mode** |
| Given: | The node number of the unit under test |
| When: | The cbus message NNULN is sent |
| Then: | Expect that the module exits learn mode – checked by requesting node parameter 8 from the module, and testing bit 5 is clear |
| Additional: |  |

# 0x55: Test\_NNCLR

|  |  |
| --- | --- |
| **NNCLR** | **Clear all events from the module** |
| Given: | The node number of the unit under test |
| When: | The cbus message NNCLR is sent |
| Then: | Expect that the message WRACK is received |
| Additional: |  |

# 0x56: Test\_NNEVN

|  |  |
| --- | --- |
| **NNEVN** | **Number of Events Available** |
| Given: | The node number of the unit under test |
| When: | The cbus message NNEVN is sent |
| Then: | Expect that the message EVNLF is received |
| Additional: |  |

# 0x57: Test\_NERD

|  |  |
| --- | --- |
| **NNEVN** | **Read All Events** |
| Given: | The node number of the unit under test |
| When: | The cbus message NERD is sent |
| Then: | Expect an ENRSP message for each stored event in the module |
| Additional: |  |

# 0x58: Test\_RQEVN

|  |  |
| --- | --- |
| **RQEVN** | **Read number of stored events** |
| Given: | The node number of the unit under test |
| When: | The cbus message RQEVN is sent |
| Then: | Expect a NUMEV message with the number of stored events |
| Additional: |  |

# 0x5D: Test\_ENUM

|  |  |
| --- | --- |
| **ENUM** | **Force Self Enumeration of CANID** |
| Given: | The node number of the unit under test |
| When: | The cbus message ENUM is sent |
| Then: | Expect a NNACK message to be received |
| Additional: |  |

# 0x5E: Test\_NNRST

|  |  |
| --- | --- |
| **NNRST** | **Reset module** |
| Given: | The node number of the unit under test |
| When: | The cbus message NNRST is sent, and after a short delay, the diagnostic values for the MNS service are retrieved (RDGN) |
| Then: | Expect that the MNS uptime diagnostic value is less than 2 (seconds) |
| Additional: |  |