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

The tests are ordered by opcode

# 0x71: Test\_NVRD

|  |  |
| --- | --- |
| Given: | The node number of the unit under test, a valid node variable index number, and a valid service index number |
| When: | The cbus message NVRD is sent |
| Then: | **If the node variable index is 0:**  Expect a number of NVANS messages from the unit under test, the number corresponding to the number of node variables reported in the Node Parameters  **If the node variable index is non-zero:**  Expect a single NVANS message for the specified node variable index |
| Additional: | The node variables values received are stored against the corresponding service index |

# 0x71: Test\_NVRD\_ERROR

|  |  |
| --- | --- |
| Given: | The node number of the unit under test, a non-valid node variable index number, and a valid service index number |
| When: | The cbus message NVRD is sent |
| Then: | Expect either a CMDERR or GRSP message with a code of ‘10’ |
| Additional: |  |

# 0x73: Test\_RQNPN

|  |  |
| --- | --- |
| Given: | The node number of the unit under test, and a valid parameter number |
| When: | The cbus message RQNPN is sent |
| Then: | Expect a PARAN message from the unit under test  And if the parameter has previously been seen (e.g. from PNN), it hasn’t changed  And if the module descriptor file has an expected value for the parameter, then it matches |
| Additional: |  |

# 0x76: Test\_MODE

|  |  |
| --- | --- |
| Given: | The node number of the unit under test, and a valid MODE number |
| When: | The cbus message MODE is sent |
| Then: | Expect a GRSP OK message from the unit under test |
| Additional: |  |

# 0x78: Test\_RQSD

|  |  |
| --- | --- |
| Given: | The node number of the unit under test, and a valid Service Index number |
| When: | The cbus message RQSD is sent |
| Then: | **If the service index is 0:**  Expect multiple SD messages from the unit under test  And expect the number of messages to be consistent with the service count returned  **If the service index is non-zero:**  Expect a single ESD message from the unit under test |
| Additional: |  |