|  |  |  |
| --- | --- | --- |
| **sGop2** | **GOOSE message** | [ ]  Passed[ ]  Failed[ ]  Inconclusive |
| IEC 61850-7-2 Subclause 18.2.3.6+7IEC 61850-8-1 Subclause 18.1, A.3PIXIT: Gp3, Gp4, Gp10 |
| Expected resulta) DUT sends valid GOOSE messages with valid references, time stamp, incrementing sequence number, status number is the same, offset is variable, the GoCB.FixedOffs is false or is not availableb) DUT sends valid GOOSE messages with valid references, time stamp, incrementing sequence number, status number is the same, the GOOSE header and Data values use fixed length encoding according to table A.1 and A.2, the GoCB.FixedOffs is true when availableIn both cases the GOOSE messages:* gocbRef matches the SCL file
* timeAllowedtoLive > 0 and the next GOOSE message is transmitted within the specified value of the current GOOSE message
* datSet matches the SCL file and contains a valid dataset reference
* goID matches SCL file appID, the default value is the GoCB reference
* t contains the time of the status increment or start-up
* sqNum is incremented, stNum>0 and isn’t changed and t shall remain the same with the same stNum
* simulation value FALSE
* confRev >0 matches the SCL file (IEC 61850-7-2 Subclause 18.2.1.6)
* needsCommissioning is False
* numDatSetEntries matches with the number of data entries in allData
* allData values match with the datSet element type
* Destination MAC-Address, APPID, VLAN-ID and VLAN-PRIORITY, match the SCL file
* Ethertype of Ethernet packet is 0x8100 and VLAN CFI = 0
* Ethertype of GOOSE is 0x88B8
* The slow retransmission time does not exceed the SCL MaxTime- The fast transmission time does not violate SCL MinTime
 |
| Test descriptionConfigure SCD file with MAC-Address, APPID, VLAN-ID, VLAN-PRIORITY different from ICD/IID. Configure SCD with maxTime specified in PIXIT Gp10. a) Variable length encoding1. Configure and enable a GoCB with MAC-Address, APPID, VLAN-ID, VLAN-PRIORITY different from ICD and with GSEControl fixedOffs=false or absent
2. Force no data change. Wait for several GOOSE messages
3. Client associates, request GetGoCBValues of this GoCB and releases

b) Fixed length encoding 1. Configure and enable a GoCB with MAC-Address, APPID, VLAN-ID, VLAN-PRIORITY different from ICD and with GSEControl.fixedOffs=true
2. Force no data change. Wait for several GOOSE messages with at least one Boolean, one quality, one float and one signed integer with a negative value and one unsigned integer when supported
3. Client associates, request GetGoCBValues of this GoCB and releases
 |
| Comment |

Add the following PIXIT entry:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Gp10 |  | 1,2 | What is the minimum MaxTime  | … ms |

|  |  |  |
| --- | --- | --- |
| **sGop4** | **GOOSE on data change** | [ ]  Passed[ ]  Failed[ ]  Inconclusive |
| IEC 61850-7-2 Subclause 18.3.2.2IEC 61850-8-1 Subclause 18.1, PIXIT: Gp5 |
| Expected resultDUT sends GOOSE messages according to the configured retransmission strategy, the first retransmission does not exceed the SCL MinTime, stNum is incremented, sqNum = 0 in the first message after data change |
| Test descriptionIf Gp5 indicates modifiable then configure SCD minTime specified in PIXIT Gp5 otherwise use minTime from ICD/IID file.1. Force a data change of a data value in the GoCB data set2. Wait for GOOSE messages |
| Comment |

This is the existing PIXIT entry:

|  |  |  |  |
| --- | --- | --- | --- |
| Gp5 | 1,2 | What is the fastest retransmission time | … ms |