Solution to redmine 656 and 657

### Publish/subscribe enum with value > 127 and negative

January 24, 2023

Create new sGos16, condition PIXIT Gs8 “ENS subscribe”

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| --- | --- | --- |
| **sGos16** | **Subscribe GOOSE message with enum value >127 and negative** | Passed  Failed  Inconclusive |
| IEC 61850-7-2 Subclause 18.2.3  IEC 61850-8-1 Subclause A.3  PIXIT Gs8 | | |
| Expected result  1-2-3. DUT updates the value and sends a GOOSE message with changed ENUM value | | |
| Test description  Test engineer configures the DUT with subscribed GOOSE (ping-pong mechanism) containing a private ENUM structure with a negative ord value and a >127 ord value. The pong dataset may copy the ENUM value in an INS.   1. Publisher sends GOOSE with ENUM value 1 2. Publisher sends GOOSE with ENUM value >127 3. Publisher sends GOOSE with ENUM value -2 | | |
| Comment  Condition: When ENS subscribe is supported (PIXIT Gs8)  The BER encoding requires 2 bytes for value >127 and <255 | | |

Add sGos16 to table A.4.2 and certificate template as conditional.