Solution to redmine 5347

GOOSE performance “time-correlated”

October 4, 2022

Propose to adjust sTmP1 to verify both 1-step and 2-step

Change:

### Time correlated Subscribed GOOSE not used for ping-pong

The DUT will also subscribe to the following GOOSE:

Dataset large dataset[[1]](#footnote-1) = 20 Boolean values with qualities and 20 DP values with qualities.

Structure of dataset:

(bool1, q1, bool2, q2, …., bool20, q20, DP1, q1, DP2, q2, …., DP20, q20)

Transmission schema 5 subscribed GOOSE control blocks

Retransmission at 4, 32 and 256 ms (or more)

5 subscribed GOOSE each having one state change of the 5th data value element before and after the subscribed GOOSE state change used for ping-pong:

At -4ms: subscribed GPFsubscribed1 GOOSE state change   
At -2ms: subscribed GPFsubscribed2 GOOSE state change   
At 0ms: subscribed GPFPPing GOOSE state change followed by subscribed GPFsubcribed3 GOOSE state change  
At 2ms: subscribed GPFsubscribed4 GOOSE state change   
At 4ms: subscribed GPFsubscribed5 GOOSE state change

GoCB name[[2]](#footnote-2) GPFsubscribed1..5

Dataset name GPFsubscribed1..5

Destination MAC 0x01 0C CD 01 00 05 to 0x01 0C CD 01 00 09

1. In case the DUT does not support 20 Boolean or 20 DP, or the DUT has some limitations regarding dataset size, the LARGE Dataset shall contain at least 40 values and 40 qualities or the maximum number of dataset entries that is possible according to the description in PIXIT. [↑](#footnote-ref-1)
2. By using the names defined in the test procedures the analyzing of the capture files would be much easier, but the names have no impact to the performance. So alternative names are allowed. [↑](#footnote-ref-2)