Solution to redmine 6541

### sTrk4, sTrk5 – routable GOOSE / SV

Dec 19, 2023

Part 8-1 splits the tracking of GOOSE and R-GOOSE in separate DO’s, same for Routable SV

Propose to split sTrk4a) layer 2 and sTrk4b) UDP, same for sTrk5 sampled values.

Add to certificate template and update condition table.

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| **sTrk4a** | **Tracking of GOOSE control block** | Passed  Failed  Inconclusive |
| IEC 61850-7-2 Subclause 15.3.2.6  IEC 61850-8-1 Subclause 15.7 | | |
| Expected result   1. DUT sends reports containing the tracking dataset member object to Client 1 or creates a log entry with the GocbTrk data value with ServiceType = SetGoCBValues and reason-for-inclusion (if supported) indicating data-update (dupd). The tracked values do match the requested value(s) and when not in the request it mirrors the actual value | | |
| Test description   1. Client 1 reserves and configures an URCB (if available) or a BRCB (if available) or an LCB (if available) referencing a dataset with the LTRK.GocbTrk[SR] member with trigger option data-update and optional-fields including reason-for-inclusion (if supported) 2. Client 2 disables and enables a GoCB | | |
| Comment  Tested with URCB/BRCB/QueryLog. Client 1 requests QueryLog when logging service is used | | |

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| **sTrk4b** | **Tracking of Routable GOOSE control block** | Passed  Failed  Inconclusive |
| IEC 61850-7-2 Subclause 15.3.2.6  IEC 61850-8-1 Subclause 15.7 | | |
| Expected result   1. DUT sends reports containing the tracking dataset member object to Client 1 or creates a log entry with the GocbUdpTrk data value with ServiceType = SetGoCBValues and reason-for-inclusion (if supported) indicating data-update (dupd). The tracked values do match the requested value(s) and when not in the request it mirrors the actual value | | |
| Test description   1. Client 1 reserves and configures an URCB (if available) or a BRCB (if available) or an LCB (if available) referencing a dataset with the LTRK.GocbUdpTrk[SR] member with trigger option data-update and optional-fields including reason-for-inclusion (if supported) 2. Client 2 disables and enables a routable GoCB | | |
| Comment  Tested with URCB/BRCB/QueryLog. Client 1 requests QueryLog when logging service is used | | |

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| **sTrk5a** | **Tracking of Multicast sampled values control block** | Passed  Failed  Inconclusive |
| IEC 61850-7-2 Subclause 15.3.2.7  IEC 61850-8-1 Subclause 15.9 | | |
| Expected result   1. DUT sends reports containing the tracking dataset member object to Client 1 or creates a log entry with the MsvcbTrk data value with ServiceType = SetMSVCBValues and reason-for-inclusion (if supported) indicating data-update (dupd). The tracked values do match the requested value(s) and when not in the request it mirrors the actual value | | |
| Test description   1. Client 1 reserves and configures an URCB (if available) or a BRCB (if available) or an LCB (if available) referencing a dataset with the LTRK.MsvcbTrk[SR] member with trigger option data-update and optional-fields including reason-for-inclusion (if supported) 2. Client 2 disables and enables a MSVCB | | |
| Comment  Tested with URCB/BRCB/QueryLog | | |

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| **sTrk5b** | **Tracking of Routable Multicast sampled values control block** | Passed  Failed  Inconclusive |
| IEC 61850-7-2 Subclause 15.3.2.7  IEC 61850-8-1 Subclause 15.9 | | |
| Expected result   1. DUT sends reports containing the tracking dataset member object to Client 1 or creates a log entry with the MsvcbUdpTrk data value with ServiceType = SetMSVCBValues and reason-for-inclusion (if supported) indicating data-update (dupd). The tracked values do match the requested value(s) and when not in the request it mirrors the actual value | | |
| Test description   1. Client 1 reserves and configures an URCB (if available) or a BRCB (if available) or an LCB (if available) referencing a dataset with the LTRK.MsvcbUdpTrk[SR] member with trigger option data-update and optional-fields including reason-for-inclusion (if supported) 2. Client 2 disables and enables a routable MSVCB | | |
| Comment  Tested with URCB/BRCB/QueryLog | | |

| 15: Service tracking |  | SCL-BrcbTrk: sTrk1  SCL-UrcbTrk: sTrk2  SCL-LocbTrk: sTrk3  SCL-GocbTrk: sTrk4a  SCL-GocbUdpTrk: sTrk5b  SCL-MsvcbTrk: sTrk4a  SCL-MsvcbUdpTrk: sTrk5b  SCL-UsvcbTrk: sTrk6  SCL-SgcbTrk: sTrk7  SCL-SpcTrk: sTrk8  SCL-DpcTrk: sTrk9  SCL-IncTrk: sTrk10  SCL-EncTrk: sTrk11  SCL-IscTrk: sTrk12  SCL-BscTrk: sTrk13  SCL-ApcFTrk: sTrk14  SCL-ApcITrk: sTrk15  SCL-BacTrk: sTrk16  SCL-GenTrk: sTrk17 |
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Certificate:

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| 15 Service tracking |  | sTrk1, sTrk2, sTrk3, sTrk4a, sTrk4b, sTrk5a, sTrk5b, sTrk6, sTrk7, sTrk8, sTrk9, sTrk10, sTrk11, sTrk12, sTrk13, sTrk14, sTrk15, sTrk16, sTrk17 |