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 15.3.2.6IEC 61850-8-1 Subclause 15.7 |
| Expected result1. 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 description1. 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
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| CommentTested 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 15.3.2.6IEC 61850-8-1 Subclause 15.7 |
| Expected result1. 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
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| Test description1. 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
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| CommentTested 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 15.3.2.7IEC 61850-8-1 Subclause 15.9 |
| Expected result1. 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
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| Test description1. 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
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| CommentTested 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 15.3.2.7IEC 61850-8-1 Subclause 15.9 |
| Expected result1. 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 description1. 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
 |
| CommentTested with URCB/BRCB/QueryLog |

| 15: Service tracking |  | SCL-BrcbTrk: sTrk1SCL-UrcbTrk: sTrk2SCL-LocbTrk: sTrk3SCL-GocbTrk: sTrk4aSCL-GocbUdpTrk: sTrk5bSCL-MsvcbTrk: sTrk4aSCL-MsvcbUdpTrk: sTrk5bSCL-UsvcbTrk: sTrk6SCL-SgcbTrk: sTrk7 SCL-SpcTrk: sTrk8SCL-DpcTrk: sTrk9SCL-IncTrk: sTrk10SCL-EncTrk: sTrk11SCL-IscTrk: sTrk12SCL-BscTrk: sTrk13SCL-ApcFTrk: sTrk14SCL-ApcITrk: sTrk15SCL-BacTrk: sTrk16SCL-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 |