Solution to redmine #669 add new sSg13 and sSg14

Solution to redmine #5248 update sTrk7

A local active setting [group] change shall update the last activation time

September 21, 2021

For CB4 add sSg13

For CB4+ add sSg14



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| **sSg13** | **Last activation time update after local setting group change** | Passed  Failed  Inconclusive |
| IEC 61850-7-2 Subclause 16.2, 16.3  IEC 61850-8-1 Subclause 16.2.1, 16.2.5  PIXIT Sg7  TISSUE #1681 | | |
| Expected result   1. DUT sends GetSGCBValues response+   3. The SGCB.lastActTm is updated to the time of the setting group change | | |
| Test description   1. Client requests GetSGCBValues 2. Test engineer activates another setting group in the device (not via the 61850 interface) 3. Client requests GetSGCBValues | | |
| Comment | | |

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| **sSg14** | **Last activation time update after a local setting change in the active setting group** | Passed  Failed  Inconclusive |
| IEC 61850-7-2 Subclause 16.2, 16.3  IEC 61850-8-1 Subclause 16.2.1, 16.2.5  PIXIT Sg7  TISSUE #1681 | | |
| Expected result   1. DUT sends GetSGCBValues response+   3. The SGCB.lastActTm is updated to the time of the setting change | | |
| Test description   1. Client requests GetSGCBValues 2. Test engineer changes a setting in the active setting group in the device (not via the 61850 interface) 3. Client requests GetSGCBValues | | |
| Comment | | |

Extend sTrk7 (reference PIXIT Sg7); add TD step 3: Cause Server to change ActSg not using MMS if possible (PIXIT); add ER step 3: DUT sends report similar to step 2 above but with different ActSG

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| **sTrk7** | **Tracking of Setting group control block** | Passed  Failed  Inconclusive |
| IEC 61850-7-2 Subclause 15.3.2.9  IEC 61850-8-1 Subclause 15.8  PIXIT Sg7 | | |
| Expected result   1. DUT sends reports containing the tracking dataset member object to Client 1 or creates a log entry with the SgcbTrk data value with ServiceType = SelectActiveSG, SelectEditSG or ConfirmEditSGValues 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 2. DUT sends report similar to step 2 above but with different ActSG | | |
| 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.SgcbTrk[SR] member with trigger option data-update and optional-fields including reason-for-inclusion (if supported) 2. Client 2 changes the active setting group and when supported selects a setting group for editing and sends a SetEditSGValue and ConfirmEditSGValues requests 3. Cause Server to change ActSg not using MMS if possible (PIXIT) | | |
| Comment  Tested with URCB/BRCB/QueryLog. Client 1 requests QueryLog when logging service is used | | |

Abstract:

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| sSg13 | Verify that the last activation time is updated after a local active setting group change |
| sSg14 | Verify that the last activation time is updated after a local setting change in the active setting group |

Add sSg12 mandatory and sSg13, sSg14 as conditional to table A4.2

| 4: Setting Group Selection | sSg1, sSg3, sSgN1 | SCL-SGCB.NumOfSG>1: sSg11  PIXIT-Sg7 Local setting group change: sSg13 |
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| 4+: Setting Group Definition | sSg2, sSg4, sSg6, sSg7, sSg8, sSg10, sSg12, sSgN2, sSgN3, sSgN4, sSgN5 | SCL-ResvTms: sSg5  SCL-SGCB.NumOfSG>1: sSg9  PIXIT-Sg7 Local setting change: sSg13 |

Add sSg13 and sSg14 to the certificate as conditional

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| 4: Setting Group Selection | sSg1, sSg3, sSgN1 | sSg11, sSg13 |
| 4+: Setting Group Definition | sSg2, sSg4, sSg6, sSg7, sSg8, sSg10, sSg12, sSgN2, sSgN3, sSgN4, sSgN5 | sSg5, sSg9, sSg14 |

PIXIT add entry:

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| Sg7 | 2 | Can the active setting group be changed locally?  Can a setting in the active setting group be changed locally? | Y/N  Y/N |