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, 16.3IEC 61850-8-1 Subclause 16.2.1, 16.2.5PIXIT Sg7TISSUE #1681 |
| Expected result1. DUT sends GetSGCBValues response+

3. The SGCB.lastActTm is updated to the time of the setting group change |
| Test description1. Client requests GetSGCBValues
2. Test engineer activates another setting group in the device (not via the 61850 interface)
3. Client requests GetSGCBValues
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| 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, 16.3IEC 61850-8-1 Subclause 16.2.1, 16.2.5PIXIT Sg7TISSUE #1681 |
| Expected result1. DUT sends GetSGCBValues response+

3. The SGCB.lastActTm is updated to the time of the setting change |
| Test description1. 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
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| 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 15.3.2.9IEC 61850-8-1 Subclause 15.8PIXIT Sg7 |
| Expected result1. 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
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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.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)
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| CommentTested 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: sSg11PIXIT-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: sSg5SCL-SGCB.NumOfSG>1: sSg9PIXIT-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/NY/N |