Solution to redmine #6728 cSg13 and PIXIT Sg6

May 6, 2024

I (Ursula) disagree that cSg13 and/or cSg14 are mandatory. Neither in -7-2, nor -8-1, there is a statement that client shall evaluate ResvTms (or EditSG) attribute prior to SelectEditSG. The -7-2 defines that client shall issue the SelectEditSG, and gets (or not) the SGCB reserved. The server checks if SGCB is currently reserved (or not) by another client and shall respond SelectEditSG positive/negative accordingly. The SGCB reservation process does not involve GetSGCBValues service.

Solution proposal: update the PIXIT Entry Sg6 from "Does the client read the optional ResvTms value?" to "Does the client evaluate the EditSG and/or optional ResvTms value prior SelectEditSG?"

But even then, a client evaluating only EditSG will ever fail expected result of cSg13, as the test description is that as well EditSG > 0 as ResvTms > 0. And EditSG > 0 (alone) is tested in cSg14. Thus, both test cases are testing an optional, same behavior based on EditSG.

>> remove “set EditSG > 0” from cSg13

cSg14 is mandatory, cSg13 is conditional

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| 4+: Setting Group  Definition | cSg11, cSg14 | PICS-GetDataValues(FC=SG): cSg10  Cancel SG: cSg12  PIXIT-Read SGCB-ResvTms: cSg13 |

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| **cSg13** | **Setting group in use by other client: ResvTms > 0** | 🞎 Passed  🞎 Failed  🞎 Inconclusive |
| IEC 61850-7-2 clause 16.3.3  IEC 61850-8-1 clause 16.2.2  *PIXIT Sg6* | | |
| Expected result  2. Verify DUT does read the optional ResvTms and does not request SelectEditSG | | |
| Test description  1. Connect another client to the server and set ResvTms > 0  2. Try to edit the setting group values using the DUT | | |
| Comment | | |

Update the PIXIT Entry Sg6 edition and contents

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| Sg6 | 2 | Does the client read and evaluate the optional ResvTms value prior to SelectEditSG? | No/  Yes, always/  Yes, only if present |

No change:

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| **cSg14** | **Setting group in use by other client: EditSG > 0** | 🞎 Passed  🞎 Failed  🞎 Inconclusive |
| IEC 61850-7-2 clause 16.3.3  IEC 61850-8-1 clause 16.2.2  *PIXIT Sg5, Sg6* | | |
| Expected result  2. Verify DUT does not request SelectEditSG or DUT processes the negative response and continues as specified in the PIXIT | | |
| Test description  1. Connect another client to the server and set EditSG > 0  2. Try to edit the setting group values using the DUT | | |
| Comment | | |