Redmine (5154 and 5293 and) 5308 proposed updates to Ed2.1 Server test procedures

|  |  |  |
| --- | --- | --- |
| **sSvp4** | **Verify the format of the ASDU matches the SCL configuration** | **Passed**  **Failed**  **Inconclusive** |
| IEC 61850-9-2 Clause 8.5, Table 14  PIIXT Svp14 (maximum number of channels)  ICD : value of LPHD.NamVariant.val | | |
| Expected result  3,4. DUT sends sampled value messages as configured in SCL | | |
| Test description  For each variant specified in ICD file NamVariant entries (combination of “F” and “S” values  1. Configure the DUT with a dataset containing maximum number of current channel and voltage channels to fill remainder of maximum specified in PIXIT  2. Generate current and/or voltage signals  3. Capture the sampled values messages for at least 1 second  4. Repeat step 1-3 reversing role of voltage and current channels if this results in a different dataset | | |
| Comment  Tested with variants: X (and Y if needed) | | |

|  |  |  |
| --- | --- | --- |
| **sSvs7** | **Verify the DUT subscribes to the specified minimum and maximum (PIXIT) number of dataset elements** | **Passed**  **Failed**  **Inconclusive** |
| IEC 61869-9  PIXIT Svs2b, Svs12 (max channels), Svs13 (supported variants) | | |
| Expected result  2,3 DUT subscribes to all the sampled values in the SV stream | | |
| Test description   1. Configure the DUT to subscribe to dataset containing maximum number of current channel and voltage channels to fill remainder of maximum specified in PIXIT 2. SIMULATOR publishes the SV stream corresponding to the dataset specified in the previous step 3. Repeat step 1-2 reversing role of voltage and current channels if this results in a different dataset | | |
| Comment  Tested with variants: X (and Y if needed) | | |

**PIXIT for IEC 61869-9 publisher**

|  |  |  |
| --- | --- | --- |
| **ID** | **Description** | **Value / Clarification** |
| Svp14 | Maximum number of channels by rate  (0=rate not supported) | F4000S1: 0 / specify  F4800S1: 0 / specify  F4800S2: 0 / specify  F5760S1: 0 / specify  F12800S8: 0 / specify  F14400S6: 0 / specify  F15360S8: 0 / specify  F96000S1: 0 / specify |

**PIXIT for IEC 61869-9 subscriber**

|  |  |  |
| --- | --- | --- |
| **ID** | **Description** | **Value / Clarification** |
| Svs12 | Maximum number of channels by rate  (0=rate not supported) | F4000S1: 0 / specify  F4800S1: 0 / specify  F4800S2: 0 / specify  F5760S1: 0 / specify  F12800S8: 0 / specify  F14400S6: 0 / specify  F15360S8: 0 / specify  F96000S1: 0 / specify |
| Svs13 | Supported variants (in 61869-9 NamVariant format) | Example: F4800S1I4U4;F4800S2I0-9U0-9 |

ANNEX H Server Certificate Template

|  |  |  |
| --- | --- | --- |
| **IEC 61850 Certificate Level A/B1** | | No. << certificate number>> |
| Issued to: | For the server product: | |
| <TEST INITIATOR>  <FULL ADDRESS> | <PRODUCT ID and NAME>  <IEC 61850 software/firmware version: <VERSION>> [Hardware version: xxxxx and/or  S/N: xxxx, yyyy(in case of multiple samples)]  [SV publish: F4000S1I4U4, F4800S2I12U4, F4800S2I4U12, etc.]  [SV subscribe: F4000S1 I4U4, F4800S2I12U4, F4800S2I4U12, etc] | |