Solution to redmine 6455

**sSvs4 test case in TP1.2 needs further udpate after #5130, PIXIT entry Svs3 needs update as wel**

July 26, 2023

test case sSvs4 needs further update to harmonize with sGos6 to make the test description clearer.

1: #5130 harmonize the test case sSvs4 to align with sGos6 but the text is not clear enough. For example, the test description starts with only configuring one stream but step 4 to 7 indicates that it subscribe to two streams.

2: Also PIXIT Svs3 shall be updated - the preferred rate, the simulation check is mandatory, so there is no N in it.

3: For backwards compatible SV subscription, simulation check is not mandatory.

So what is the behavior of the DUT when there are two same streams with only simulation bit different? Richard: for an Ed2.1 device the behavior is very clear

Do we only need to check the behavior of backwards compatible SV subscription when simulation is checked?

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| **sSvs4** | **Subscribe SV with simulation parameter set** | **Passed**  **Failed**  **Inconclusive** |
| IEC 61869-9  PIXIT Svs1a, Svs1b, Svs3 | | |
| Expected result  1. DUT subscribes the real SV1 stream according to PIXIT, LSVS1.St = TRUE, LSVS1.SimSt=FALSE  2. DUT ignores the simulated SV2 stream, LSVS1.St = TRUE, LSVS1.SimSt=FALSE  3. DUT indicates loss of the real SV1 stream according to PIXIT, LSVS1.St changes to FALSE (LSVS1.SimSt = FALSE)  4. DUT subscribes the real SV1 stream according to PIXIT, LSVS1.St = TRUE, LSVS1.SimSt=FALSE  DUT subscribes the real SV3 stream according to PIXIT, LSVS2.St = TRUE, LSVS2.SimSt=FALSE  5. DUT subscribes to the simulated SV2 stream according to PIXIT LSVS1.SimSt changes to TRUE and  DUT subscribes to the real SV3 stream according to PIXIT, no change in LSVS2.St and LSVS2.SimSt  6. DUT indicates loss of simulated SV2 stream according to PIXIT, LSVS1.St changes to FALSE  DUT continues to subscribe to the real SV3 stream according to PIXIT, no change in LSVS2.St and LSVS2.SimSt  7. DUT subscribes the real SV1 stream according to PIXIT, LSVS1.St = TRUE, LSVS1.SimSt=FALSE | | |
| Test description  Configure the DUT to subscribe to the maximum preferred variant of all preferred variants and the lowest rate backwards compatible stream.  Below, SV1 and SV2 send same maximum preferred variant SV stream. SV1 without Simulation (the real SV1 stream), SV2 with Simulation (the simulated SV2 stream). SV3 sends backwards compatible SV stream without Simulation (the real SV3 stream). SV1 and SV2 are supervised by LSVS1, SV3 is supervised by LSVS2.  Test engineer forces LPHD.Sim=False or LPHD.Sim is absent  1. SIMULATOR publishes the real SV1 stream  2. SIMULATOR publishes the real SV1 stream and the simulated SV2 stream with other values  3. SIMULATOR publishes the simulated SV2 stream  When LPHD.Sim is present, test engineer forces LPHD.Sim=True and perform steps 4-7:  4. SIMULATOR publishes the real SV1 and the real SV3 stream and continues publishing during step 5 and 6  5. SIMULATOR adds the simulated SV2 stream with other values  6. SIMULATOR stops the simulated SV2 stream  Test engineer forces LPHD.Sim=False  7. SIMULATOR publishes the real SV1 stream and the simulated SV2 stream | | |
| Comment  Note: LSVS is optional and only verified when available. When LSVS is available the LSVS.SimSt is optional  Tested with configuration: X and Y | | |

Also PIXIT entry shall be updated from:

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| Svs3 | Support simulation mode   * Preferred rates * Backwards compatible rates   How to enable simulation mode | Y/N  Y/N  LPHD.Sim or describe |

Into:

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| Svs3 | Support simulation mode  How to enable simulation mode | Y/N  LPHD.Sim or describe |