Solution to redmine 6777

cCnf10...cCnf34 DUT -> DUT/ICT

May 24, 2024

cCnf10...cCnf34 test procedures use "DUT" but the actual import of the SCD / Tool functionality is done by the DUT ICT tool. This is confusing because some people think the client device should import the SCD file.

We propose to replace "DUT" by "DUT-ICT" to prevent such confusion. And to make explicit the ICT tool is part of the test.

SCD import test procedures

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| **Test case** | **Test case description** | **Verdict** |
| cCnf10 | Check if the DUT/ICT identifies the client IED to be configured in the SCD file by client IED name (SICS I21, I214)  The valid SCD file has at least 2 instances of the same client ICD with different name and the DUT/ICT should select one |  |
| cCnf11 | Check if the DUT/ICT determines the communication address of the IEDs in the SCD (SICS I23) |  |
| cCnf12 | Check if the DUT/ICT determines the clock communication address from the SCD  (when SICS I24 is supported) |  |
| cCnf13 | Check if the DUT/ICT interprets client references in control blocks of other IEDs to find the control block instances allocated to this IED, and data sent to this IED (SICS I29)  It shall not be possible to select an RCB instance assigned to another client |  |
| cCnf14 | Check if the DUT/ICT supports ldName on server IEDs (SICS I212) |  |
| cCnf15 | Check if the DUT/ICT process the server IED data names, data types as configured in the SCD configuration file. |  |
| cCnf16 | Change at least 5 end-user configurable parameters that are processed by the DUT/ICT in the SCL configuration file, configure the DUT/ICT using the SCL configuration file (using the supplied configuration tool) and check the updated configuration. ~~Restore the original SCL file and re-configure the DUT/ICT to its original state.~~ | *This is implicitly verified by the remaining tests* |
| cCnf17 | Verify that client can handle the ConfigRev management in SCL and exposed by the server in LLN0.NamPlt.configRev as described in *PIXIT Cf1*. On a mismatch the DUT/ICT shall behave as described in the PIXIT (note that, if the PIXIT describes that the DUT/ICT does not check such a mismatch, no action is required by the DUT/ICT) |  |

Tool Functionality test procedures

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| **Test case** | **Test case description** | **Verdict** |
| cCnf31 | Check if the DUT/ICT supports the Must Understand concept (SICS I41) | See detail |
| cCnf32 | Check if the DUT/ICT bind incoming signals to IED internal (input signals) based upon Inputs ExtRef with serviceType=Report/Poll.  (when I42 is supported) |  |
| cCnf33 | Check if the DUT/ICT can change IED input section for binding incoming (external signals) to internal signals to document this binding  (when I43 is supported) |  |
| cCnf34 | Check if DUT/ICT can create CID file  (when SICS I44 is supported) |  |