Test Procedures Change List (TPCL) for IEC 61850 server test procedures revision 2.3 Version 1.2

UCA International Users Group
Testing Sub Committee

Date: August 17, 2011

Introduction

Problems that are uncovered during conformance testing that impact the IEC 61850 Standard are taken back through the TISSUES Process. However, there are some problems that relate only to the content of the Test Procedures. The UCAiug is the owner of the Test Procedures and so has the responsibility for tracking changes. Given the long time lag between major versions, we have a need to track interim changes that may impact testing. This "Test Procedures Change List (TPCL)" document specifies such interim changes. The UCAiug test sub committee reviews and approves each change. Changes resulting in new test procedures shall be specified in the next revision of the test procedures.

This list:

- Contains changes to the most recent (server) test procedures
- Indicate if a change is:
 - Accepted, resulting in a clarified test procedure (included after the change list table)
 - Denied
 - Added to the next revision
- Shall be used by recognized/accredited test labs
- Should be referenced in the test report only
- Is available at the UCAiug sharepoint for test sub committee members

References

Conformance Test Procedures for Server Devices with IEC 61850-8-1 interface, Revision 2.3, August 17. 2011

Approved Change List

ID	TEST CASE	CHANGE	FINAL PROPOSAL	RESULT
1	Mdl9?	Define the use of name spaces for Ed2 LN used in Ed1 devices	See clarified test procedure	

List of denied and next revision changes

ID	TEST CASE	CHANGE	FINAL PROPOSAL	RESULT

Clarified Test Procedures (in alphabetical order)

		☐ Passed		
sMdl9?	Ed2 data model extensions	☐ Failed		
		☐ Inconclusive		
IEC 61850-7-1 c	lause 14			
Expected result				
The SCL file of t				
	Shall use 7-3 Ed1 CDC's also for the Ed2 LN Data objects			
	NS/INC/ING instead of ENS/ENC/ENG			
	use 7-3 Ed2 specific CDC's as for example: VSS, VSG, TSG			
• Shall only u	use the part 8-1 Ed1 basic data types (for example no INT64)			
The of	a angas is as fallacies			
	ne space is as follows:			
	61850-7-4:2003			
	't need a InNs			
Ed2 LN sha	III have InNs = IEC 61850-7-4:2007			
Droconoo and a	order of Data Objects (DO)			
	·			
	III have the mandatory DO's according to Ed1			
	Ed2 LN shall have the mandatory DO's according to Ed2			
	Ill have the DO's in the same order as specified in Ed1			
The order of	of DO's for Ed2 LN is not required anymore and not verified			
The use of data	aNs is as follows			
	The use of dataNs is as follows A private DO in any Ed1/Ed2 LN shall have a private dataNs value.			
•	A private DO in any Ed1/Ed2 LN shall have a private dataNs value A private DO in a private LN does not peed a dataNs.			
•	A. F.14 DO in a F.14 I Million and a distalla			
	7 H. 7 T T T T T T T T T T T T T T T T T T			
An Ed2 DO	in an Ed1 LN shall have dataNs = IEC 61850-7-4:2007			
Note: the prese	ence of the name space attribute is not a valid criterion anym	ore Also the		
•	value of the name space is important. When a name space is not needed it means: the			
	name space is not present or the name space is present with the same value as the name			
space on the higher level				
,				
Test description				
Scan SCL file for Ed2 extensions: LN and DO.				
Comment				
Ed2 I N class! th	Ed2. I N class! that have a mandatary DO with and Ed2 specific CDC are not allowed			

Revision History

Revision	Changes	
1.0	Initial version	
1.1	 Updated expected behavior in CtIN2 to allow reset of select timeout again. However the recommended behavior is a negative respond on the second select (and this behaviour will be mandatory in the next version of the server test procedures). 	
	 Update test FtN1 to test for both empty and invalid file names in a GetFileAttributeValues. 	
	Updated Srv6, removed EX at step 2 because its already used in step 1	
1.2	Updated server test specification to version 2.3 and removed all TPCL elements	
	 Removed text "This list:should be referenced in the test report only" (the TPCL is now referenced on the conformance certificate). 	
1.3	Add verification of Ed2 LN in Ed1 devices	