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Conformance Test Procedures for Server Devices with IEC 61850-8-1 interface: Changes from Version 1.1 to Version 2.2

UCAlug Test Sub Committee, July 3, 2008

In October 2007, the UCAlug approved Version 2.2 of the server conformance test procedures. Version 2.2 reflects the most recent approved changes to IEC 61850 edition 1. In accordance with the UCAlug Testing Quality Assurance Program, a grace period of one year is provided for vendors to update their firmware when necessary. After October 2008 UCAlug approved test labs are only allowed to issue Version 2.2 certificates.

In December 2007 the "IntOp" Tissue #453 was approved. This tissue resolves all previous tissues on buffered reporting. The UCAlug will set-up additional test procedures to verify the correct implementation of this tissue. It will be optional to implement this tissue.

Test Group	New Test Procedures	Adjusted Test Procedures
Documentation	Doc2	
Configuration	Cnf3, Cnf4, Cnf5	
Data model	Mdl10, Mdl11	
1: Basic Exchange	AssN6	Improved error handling, AssN2
2: Data Set	Dset10ab	Improved error handling
3: Substitution		
4: Setting Group	SgN5	Merged Sg3+Sg4 into Sg3 and SgN1+SgN2 into SgN1 according to IEC 61850-10
5: Unbuffered Reporting	Rp8, Rp9, Rp10, Rp11, RpN7	Improved error handling, Rp3
6: Buffered Reporting	Br10, Br11, Br12, Br13, BrN7	Improved error handling, Br3, Br8, Br9, BrN5

Test Group	New Test Procedures	Adjusted Test Procedures
6+: Improved Buffered Reporting	Test procedures for Tissue #453 will be defined	
7: Logging		
9: GOOSE	Gop10, Gos1a	Gos1b
12a: Direct control	CtIN10, CtIN11, Added detailed test procedures	Improved error handling
12b: SBO control	CtIN10, CtIN11, Added detailed test procedures	Improved error handling
12c: Enhanced Direct Control	CtIN10, CtIN11, Added detailed test procedures	Improved error handling
12d: Enhanced SBO control	CtIN10, CtIN11	Improved error handling
13: Time sync (client)	Tm3	
14: File transfer	Ft4	Improved error handling
Tissues		Added a list of mandatory tissues