

Server - Issues #5153

Backward Compatibility of 61869-9 with 9-2 LE

01/11/2022 09:20 AM - Herbert Falk

Status: Closed	Due date:
Priority: Normal	
Assignee:	
Category:	
Target version:	
Discuss in Upcoming Meeting: No	Updated Test Document:
Clause Reference:	Test Case ID:
61850 Standard: 9-2	Closed Reason: No Action Taken
Triggering Tissue:	Triggering Tissue 2:
Final Decision:	Triggering Tissue 3:
Initial Test Document:	
Description	
<p>61869-9 is an edition 2.1 related standard. 61850-9-2 Edition 2.1 makes smpSyncSourceID optional as a protocol element, but in clause 9, makes it mandatory if the unit is synchronized via PTP. IEC 61850-6 ED 2.1 allows a SampledValue Control block to have the transmission of the srcID turned off.</p> <p>Edition 1 of 9-2LE did not have a "..." within the ASDU sequence and therefore, for backward compatibility, the additional fields in 9-2 Ed 2.1 must be able to be disabled from being sent.</p> <p>There is a need to provide a mechanism for 61869-9 to produce a true 9-2LE compatible stream.</p> <p>It is proposed that the Clause 9 of 9-2 be changed to allow the additional fields to not be sent in order to be able to provide a backward compatible 9-2LE stream via SCL. Additionally, it is proposed that the protocol element be changed from OPTIONAL to DEFAULT NULL.</p>	

History

#1 - 01/11/2022 07:48 PM - Bruce Muschlitz

- Facts:
- 61869-9Ed1 normatively references 61850-9-2:2011 whose definition of SynchSourceID does not exist (it was added in Am1 and alternatly named gmlidentity)
 - 61850-9-2 + Am1 clause 9 does not make it mandatory to use SynchSourceID/gmlidentity when PTP is used but merely "is strongly recommended"
 - 61850-6 + Am1 adds to Ed2.0 ability to specify Smvopts@synchSourceId (defaults to false) which allows inclusion of SynchSourceID/gmlidentity to SMV packet

Opinion: 61869-9 configuration requires use of "<SmvOpts sampleSynchronized='true' refreshTime='false' sampleRate='false' dataSet='false' security='false' synchSourceId=true/>" if the new field is desired. Omission of the synchSourceId=true (or assignment to false) guarantees that the field will not be sent.

Recommendation: A TISSUE against 61869-9 should be generated which prohibits SmvOpts@synchSourceId=true from appearing in the SampleValueControl specifying a backwards compatible configuration rate/nofASDUs/dataset regardless of whether PTP is enabled for the time synchronization mechanism

#2 - 01/20/2022 08:57 AM - Richard Schimmel

- Status changed from New to In Progress
- 61850 Standard deleted (6)

I see no need to change a test procedure. move to tissue database?

#3 - 01/25/2022 08:52 AM - Richard Schimmel

- Status changed from In Progress to Closed
- Closed Reason No Action Taken added

- Closed Reason deleted (--Not Set--)

TPWG 9-2 Ed2 Amd1 makes this configurable (table 14). No change required in the test procedures