INTERNATIONAL ELECTROTECHNICAL COMMISSION

Technical Committee 57: Power systems management and associated information exchange

Interoperability TISSUES on IEC 61850 entering into force as of April 1, 2024

1. Background

As part of the maintenance process for the standard, technical issues (called TISSUES) are collected through the website iec61850.tissue-db.com. The concept of TISSUEs is introduced in IEC 61850-1, clause 6.10. The TISSUE process in more details is described in https://iec61850.tissue-db.com/download/TISSUE%20Database%20User%20Guide.pdf.

TISSUES that affect interoperability will be put in force as batches, before an amendment of the standard can be done. They will then as well be required to be implemented for conformance testing.

Please note that this information will be submitted as part of the revision of the identified standards. The resulting update to the standard is still required to go through the IEC process of formal commenting and balloting by the committee P members. This notification is therefore provided for transparency purposes.

This document lists the second batch of TISSUES that will be released and entering into force as of April 1, 2024. They have been approved for release according to the TISSUE process described above.

2. List of interoperability TISSUES to be released

The following tables provides an overview of the various TISSUES per part that will be released with this batch. The tables are grouped per part and indicate the number of the TISSUE, the title, and an indication if the code component is impacted. The indication for the code component is in the column "CC" as follows:

- L: the light version and the full version are impacted
- F: only the full version is impacted; this is typically a change only in the description of elements

For each part, the new identification of the code component is provided and circulated with this document.

2.1 Part IEC 61850-6:2010/AMD1:2019

Nr	Title	CC
1818	Clarification of ExtRef attributes usage	
1885	sAddr length	

2.2 Part IEC 61850-7-1:2010/AMD1:2020

Nr	Title	CC
1752	Inconsistency in LPHD requirements	
1828	Clarification on GOOSE/SV supervision with simulated message	

2.3 Part IEC 61850-7-2:2010/AMD1:2020

New code component: Version: 2007, Revision: B, Release 5 – IEC 61850-7-2:2007B5

Nr	Title	CC
1782	Clarification of when to ignore the check bits	F
1822	Functional constraint object non-volatility ambiguous	

2.4 Part IEC 61850-7-3:2010/AMD1:2020

New code component: Version: 2007, Revision: B, Release 5 – IEC 61850-7-3:2007B5

Nr	Title	CC
1730	Polarity of neutral in WYE is unclear	

2.5 Part IEC 61850-7-4:2010/AMD1:2020

New code component: Version: 2007, Revision: B, Release 5 – IEC 61850-7-4:2007B5

Nr	Title	CC
1701	New DO required for routable GOOSE and SMV service tracking	L
1766	RSYN mandatory?	L
1819	Dependancy of LPHD.Sim to LLN0.Beh	
1836	Update of NxtStrTm for time-driven schedules	F
1846	The definition of LTMS.TmSrc is different in the actual AMD1 and Consolidated Version	F
1856	Semantic of PMRI.StrInhTmm	F
1859	Description discrepancy LTMS between Source and Channels	F
1883	Added more precise qualifications to TmSrcTyp	F

2.6 Part IEC 61850-8-1:2010/AMD1:2020
New code component: Version: 2003, Revision: A, Release 3 – IEC 61850-8-1:2003A3

Nr	Title	CC
1753	Select.response+	

2.7 Part IEC 61850-8-2:2018

Nr	Title	CC
1664	Figure 37 – XML structure of GetDataDirectory-Request	
1662	Associate Response	

3. List of editorial TISSUES that have been implemented with that batch
At the same time we would as well point to the following editorial TISSUES that may improve the understanding of the standard. If code components are affected, they have been implemented as well.

3.1 Part IEC 61850-6:2010/AMD1:2019

Nr	Title	CC
1683	ICD file for IED functionality spanning for multiple VL and BAY	
1729	Incorrect SCL example in (informative) Annex	
1740	Exceptions of enumeration types for IEC 61850-7-4	
1745	Definition of type and id in DataTypeTemplates not consistent	
1771	SCL Services ReportControl max vs. Indexed	
1774	Missing description of KDC	
1786	Downgrade of SCD Exports not Mandatory	
1808	Please clarify if ix first index is 0 or 1	
1813	Typo "Valkind"	
1816	Add SICS statement for xsi:type usage in P elements	
1823	Clarify iedType attribute usage in DataTypeTemplates	
1831	IdInst reference should concretized	
1832	SICS I45 not clear enough	

Nr	Title	CC
1833	Service SettingGroups.ConfSG clarification	
1834	SICS I211 text not inline with Service section	
1839	Not clear definition of lnInst to LN0 type elements	
1843	SCT handle different OriginalSclXxx and SCL version/revision/release	
1854	SupSubscription	
1886	Part 6 - Typo in Abbreviation	

3.2 Part IEC 61850-7-1:2010/AMD1:2020

Nr	Title	CC
1784	Typos "v alImport" and "v alKind"	
1800	Typo in "GetEditSGValue" and "SetEditSGValue"	
1809	Location of SGCB in LD structures	
1810	Discrepancy between INF and Amd.1 documents	
1857	Concept of smpRate for input analogue signal acquisition is misleading	
1858	Usage of Beh test/blocked when performing protection tests	

3.3 Part IEC 61850-7-2:2010/AMD1:2020

Nr	Title	CC
1801	Typo in "GetEditSGValue" and "SetEditSGValue"	
1841	reset 'stSeld' in 'Unselected' state	
1847	"ActiveSG"	
1781	Typo 'LCB.IntPd'	

3.4 Part IEC 61850-7-3:2010/AMD1:2020

Nr	Title	CC
1716	Editorial - Static data versus reported data in WYE class (also DEL and SEQ)	
1783	Editorial - Typo "insure"	
1785	Editorial - Add "zeroDbRef" to the description texts of 'units'	F
1807	Editorial - Typo "curve" in the text about currency setting	
1829	Editorial - Give more accurate description for stVal of SPS and SPC	F
1840	Editorial - The role of smpRate of MV/CMV	F
1851	Editorial - Trigger option 'dchg' for settings of FC=SG	
1852	Editorial - Missing CDC in the listing for substitution	
1889	sunMag replace instMag but instMag is optional in data model	F
1900	Online change of scaled value configuration	

3.5 Part IEC 61850-7-4:2010/AMD1:2020

Nr	Title	CC
1806	Editorial - Typo in section 5.2 reg. PresCond (nds/ds)	F
1821	Editorial - PTDV StrVal DO description	
1866	Editorial - Change of description text "float" to "floating point"	
1891	Editorial - Using "behaviour" (BE) instead of "behavior" (AE)	L

3.6 Part IEC 61850-8-1:2010/AMD1:2020
New code component: Version: 2003, Revision: A, Release 3 – IEC 61850-8-1:2003A3

Nr	Title	CC
1738	GOOSE PDU cannot require unique source MAC address	
1739	Contradictory optionality of GOOSE_PDU goID	
1779	MAC address IC hash algorithm should apply to reciever side	

Nr	Title	CC
1814	Editorial improvement	
1826	NSD Code Component for 8-1	L
1855	sboClass Val in SCL example	
1873	Setting Group chapter differs between amendment and consolidated	
1884	Missing column in table C.1	
1895	Typo "SDPU"	