

Annex

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National Committee	Line number	Clause/ Subclause	Paragraph Figure/ Table	Type of comment (General/ Technical/Editorial)	COMMENTS	Proposed change	OBSERVATIONS OF THE SECRETARIAT on each comment submitted
SE-1		6.1 & 6.2		Technical	The SCL data model must allow representation of new types of primary equipment introduced by expansion of the 61850 standard to include Hydro, Distributed and Wind(?) generation.	The SCL data model should be harmonized with the CIM from TC57 WG13.	Neither Hydro, Distributed nor Wind generation appear in CIM up to now. Further, SCL offers several extension methods. The usage of this has to be decided by the other WGs outside part 6.
SE-2		6.1 & 6.2		Technical	The SCL data model is not harmonized with the CIM data model.	The SCL data model should be harmonized with the CIM from TC57 WG13.	The SCL model is harmonized as much as possible. Now CIM has to be harmonized with the rest of 61850, which is outside 61850, and in the scope of WG19.
SE-3				Editorial	References to Figure numbers is incorrect on pages 21, 22, 23, 27, 28,39		accepted
SE-4		6.3 (end)		Editorial	The statement about Router and Clock at the end of section 6.3 belongs to section 6.4. Its value is not clear.		Accepted – usage will be clarified
SE-5		6.5		General	The third and last bullet could refer to Figure 5 and the example on page 21 to enhance readability.		accepted
SE-6		8.4		Editorial	Last paragraph needs clean up of spelling		accepted
SE-7		9.2.3		Technical	There seems to be a mismatch between this document and 61850-7-2 (57/891/CD) regarding the use of characters for concatenation. In part 7-2, clause 19.2 and figure 46, the dot (.) is used for this purpose, while in clause 9.2.3 of 57/893/CD the slash (/) is used for the same purpose.	Both documents should preferably use the same character to indicate levels in concatenated names.	Not accepted. The 9.2.3 path consists out of name parts which according to IEC61346 could themselves contain dots (.). Therefore here the dot is not allowed as separation between parts of the SCL substation hierarchy.
SE-8					Annex A must be harmonised with 61850-7-4 Ed 2.0. The SCL_Enums.xsd file does not include any of the new LNs or CDC added in the revision of 61850-7-4 Ed 2.0		In principle accepted. The SCL_Enums.xsd is only an editing help and not mandatory, in general never complete, because changes in other parts may happen independently of part 6.

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FR1		9.3.13		T	Generally, it belongs to the capability of an IED that some LN can have inputs, other LN can not. This capability should be recognized at ICD level. How can it be defined at ICD level that DO or DA of a LN can be bound to external signals because agDORef attributes are required ?	Add an attribute for this purpose or make agDORef attributes optional.	Accepted; make agDORef optional
FR2		Annex G		G	This normative annex seems out of original scope of 61850. The main goal of 61850 is interoperability of IEDs at communication level. To reach this goal, 2 main domains have been developed into 61850 : <ul style="list-style-type: none"> - 1st is to standardize exchanges between IEDs on the wire by means of 8-1 / 7-4 / 7-3 - 2nd : standardize configuration files by means of SCL XSD. Once IEDs are checked to be conformant to these 2 domains, they become interoperable. Annex G goes a step beyond and starts to standardize tools, functions, nearly applications. Why isn't it the same with all LN standardized in 7-4 ? for example , check that a Str and Op of a PIOC are set when currents have really exceeded the defined thresholds.	- Before specifying the conformance statement of tools, this document should fully define the engineering process with a clear list of IED + system configurator functions, each function detailing exhaustively the elements/attributes which can be changed/added/removed. §5 and §10 are good starts but should be more detailed as unambiguous inputs for SICS. Then tables 49,50 would refer to well defined clauses of the document. - Moving this annex to informative.	Not accepted. It is not the task to standardize the engineering tools and the engineering process above what has already been introduced. The purpose is just to ensure interoperable data exchange between system tools and IED tools. Stays normative, however may be optional to be supplied with a tool.
FR3		Annex G		G	Why this part is not defined by 61850-10 ?		Part 10 defines how this is tested, but not, what tool functionality could exist.
FR4		Annex G	Table 49,50	G	Each test topic lxy or Sxy should refer a specification clause like for I13,I14,I41		In principle accepted, where possible
FR5		Annex G	Table 49,50	G	How the "import" functions can be formally tested by an external and independent tool ? IED online and checked after at 8-1 level ?		Part 10 issue – see also FR3

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JP1		Annex A Annex B		Editorial	There is a discrepancy about SIUnit enumeration between Annex.A and Annex.B. (e.g. square meter is <xs:enumeration value="m^2"/> in Annex.A, but <EnumVal ord="41">m2</EnumVal> in Annex.B.)	The consistency of enumeration definition should be among IEC61850 parts.	In principle accepted. Annex A SCL_Enums are a schema level editing aid only. Wrong values will be adapted to the mandatory values, which are however completely defined elsewhere.
CH 01		5.4	2nd Par page 16		The abbreviation for .iid is explained as "Individual IED description". Later in clause 7 it is explained as "instantiated IED description"	Clarify; use "instantiated IED description"	Accepted
CH 02		Annex G	Table 50 / S18		What is the purpose of having attributes and elements with unknown SCL namespace outside the private elements?	Clarify	Allowing other, not or elsewhere standardized engineering functions on the base of SCL system descriptions, e.g. by additional tools outside the current scope of 61850
CAN-1		5.4	p.16 2nd parag	Editorial	IID file (Individual IED Description),	Change for : IID file (Instantiated IED Description).	accepted
CAN-2		5.4	p.16 , figure 2	Technical	On the right hand side of the figure, the IED configurator seems to export an IID file from an SCD file.	Remove ".scc" from the right hand side file illustration.	accepted
CAN-3		7	p.26 1st parag	Technical	"It may contain input sections without the referenced DATA sources." The element Input in the schema makes use of the attribute group agDORef whose attributes use is "required" and whose attribute values cannot be empty. So, it is not possible to define input sections in an SCL file without referencing data sources, unless one defines "dummy" values.	We need means, at the ICD (and IID) file level, for indicating to the System configurator which LNs may have inputs. Change the definition of tExtRef in the schema in order to be able to define input sections without the referenced DATA sources in ICD/IID files	Accepted; agDORef attributes will be optional; see also FR1
CAN-4		Annex G	Table 49	Technical	Missing support for the ValKind attribute in the ICD export section	Add "Support ValKind attribute" in the ICD export section	accepted
CAN-5		Annex G	Table 49	Technical	Missing support for the IdName attribute in the ICD import section	Add "Configure IdName values" in the ICD export section. M/O = C1	In principle accepted. This is a general IED / tool capability, needed at import instead export.
CAN-6		Annex G	Table 49 I19	Editorial	Substation bay template possible	Remove "possible"	accepted
CAN-7		Annex G	Table 49 I31	Technical	The statement "IED version & instance information" is not precise enough.	Add the comment : Management of the attributes configRev, paramRev, valueRev and confRev	Accepted paramRev, valueRev, confRev should not be here

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CAN-8		Annex G	Table 49 I32	Editorial	The goal here seems to export modified configuration values.	Change for "Modified configuration values"	Not accepted – general export, independent if modified or not.
CAN-9		Annex G	Table 49 I33	Editorial	The goal here seems to export modified Setting Parameter values.	Change for "Modified Setting Parameter values"	Not accepted – general export, independent if modified or not.
CAN-10		Annex G	Table 49 S18	Editorial	S18 and S64 are related.	Put S18 in section	Not accepted; S18 concerns import, S64 export
CAN-11		Annex G	Table 49 S45	Technical	What does topology mean? Is it the same meaning as in S19 and S54 "layout coordinates defined in Annex C.1"?	Precise.	Accepted: explain topology as connections between primary equipment; Layout coordinates of S19 are included in S54
CAN-12		Annex G	Table 49	Technical	Section "SCD Substation section handling"	Add the statement "Edit LN prefixes". M/O= O	In principle accepted, mainly as IED / IED tool feature.
CAN-13		Annex G	Table 49 S54	Editorial	"Add / Modify layout coordinates according to C.1" belongs to the section "SCD Substation section handling"	Put S54 in section "SCD Substation section handling"	Not accepted; is not only for substation section, also for communication section.