

Annex

Date 2005-12-08	Document 57/781/CD IEC 61850-7-4 Amd.2
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National Committee	Clause/ Subclause	Paragraph Figure/ Table	Type of comment (General/ Technical/Editorial)	COMMENTS	Proposed change	OBSERVATIONS OF THE SECRETARIAT on each comment submitted
AT 1	4		Technical	Abbreviated Terms Add abbreviations for missing items	Add: Abs – absolute Rel – relative Frq – Frequency Tol – Tolerance Re – real part of complex value Im – imaginary part of complex value	It is outside the scope of the Amendment since it belongs to the IS. Basically accepted. The missing terms will be introduced in such a way that the complete list stays consistent.
AT 2	5.4.4		Technical	PDIS In many relays, the actual tripping zones are shaped from the union of starting, tripping and non-tripping (e.g. load-encroachment) zones. The starting and encroachment zones typically apply to all or a group (L-N, L-L) tripping zones. Distance starting zones are not modelled. Load encroachment zones are only covered if they are symmetrical (positive and negative RisLod identical; how to model the load encroachment of a SEL 321 where these settings can be different?). Also modelling of "mixed mode zone types" (e.g. Mho for L-L and Quad for L-N as in SEL 321) might be difficult.	Support modelling of actual tripping area as unions of starting, tripping, and non-tripping zones. Add a zone type (enum) with the 9 values starting tripping non-tripping for L-N, L-L, and All zones.	It is outside the scope of the Amendment. since it belongs to the IS. The modelling of the zones of PDIS will be reconsidered.
AT 3	5.4.4		Technical	PDIS There are missing parameters to characterize complex zones occurring in several relays (e.g GE UR D60, Mitsubishi MDT-H, Toshiba GRZ100,...).	Add parameters, e.g. numbered as for CURVE class, to provide for additional settings.	See AT 2
AT 4	5.4.4		Technical	PDIS There is only the k-factor regarded. How to enter the corresponding settings when they are specified as complex Z0/Z1 or as RN/RL – XN/XL?	Add grounding factor type (enum) to (re-)define the meaning of the k0Fact and k0FactAng settings.	See AT 2

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AT 5	5.4.4		Technical	PDIS There is no indication of the actual zone shape(s) that result from the parameter settings.	Add status value ImpZnChr of class CSD to retrieve actual shape.	See AT 2
AT 6	5.4.7 5.4.19 5.4.26		Technical	PFRC, PTOF, PTUF Parameters are missing. Similar need for additional parameters regarding reset (drop-off) characteristic applies for all Over/Undervoltage, Overcurrent, etc. LNs.	Add: RsVal: Reset value RsValRt: Reset ratio StrDITmms: Start delay time	It is outside the scope of the Amendment since it belongs to the IS. The issue of missing parameters will be reconsidered.
AT 7	5.5.8		Technical	RFLO Enable a LN RFLO to refer to a ZLIN node (see below).		It is outside the scope of the Amendment. since it belongs to the IS. The issue of missing reference will be reconsidered.
AT 8	5.15.9		Technical	ZLIN Include parameters that characterize the line	Add: Z0: CSV; zero sequence impedance Z1: CSV; positive sequence impedance ZM: CSV; mutual coupling impedance LinLenKm: ASG; line length (CSV: Complex Setting Value, see comments 7-3 Am.)	It is outside the scope of the Amendment. since it belongs to the IS. The issue of missing parameters will be reconsidered.
AT 9	A.2		Technical	Naming system to define associated LNs It shall be visible from the LN suffix which LNs belong together. This gives some information about the topology also through self description and not only through the SCL.	Add sub-clauses in A.2 that define a numbering scheme. E.g.: Three winding transformer YPTR5. TVTR and TCTR on each of the three windings: TVTR51, TCTR51, TVTR52, TCTR52, TVTR53, TCTR53	It is outside the scope of the Amendment. since it belongs to the IS. The issue of the name system for associated LNs will be reconsidered.
CAN-1	Clause 4, 5.3.3 Table 9		Technical	Clause 4 defines the term Clc as "Calculated". Clause 5.3.3 defines data CalcExp, CalcStr, ClacMthd, CalcPd, and CalcSrc. Table 9 defines data ClcExp, ClcStr, ClcMth, ClcPd, and ClcSrc.	Harmonize terms and names in clauses 4, 5.3.3 (Table and text below the table) and table 9	Basically accepted. The terms Calc and Clc will be harmonized in the next version of the standard
CAN-2	Table9		Technical	The table defining ClcMth contains CclPer instead of ClcPer	Change for CclPer for ClcPer	Basically accepted. The terms Clc and Ccl and Calc will be harmonized (see also CAN-1)

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CZ				The Czech NC agrees with the document without comments.		n.a.
FR				The French NC has not comment on this document.		n.a.
IT				No comments on behalf of the Italian National Committee.		n.a.
NO				The Norwegian NC has co comments to the Committee Draft.		n.a.
PL				The Polish NC accepts the document without comments.		n.a.
PT				"the Portuguese NC approves 57/781/CD"		n.a.
SE			General	No Comments		n.a.
SK				No comments		n.a.
US 1	RFLO		Technical	RFLO only specifies distance to fault in km	Add distance to fault in miles	Rejected since in part 7-3 Annex A (normative) SI units are requested
US 2	7-4 MMXU		Technical	Not identified in the present document but the semantic of the "Z" data item is unclear	Either clarify the semantic or remove the data item	Accepted but refers to the IS of part 7-4. Line impedance per phase (ZL1, ZL2, ZL3). Explanation will be included in table 9 of clause 6
US 3	6	9	Technical	Although not specific to 7-4, The semantic of Amps and Volts is unclear and underspecified. Specifically, the CDC defines Amp as a cVal – complex value. The "assumed" semantic of a complex number is that this is the Phasor representation of this value (note – assumed non-synchronized). The CDC does not provide a semantic for the reporting of RMS values of Amps and Volts	Add an additional CDC of MV should be added to the WYE and DEL classes. Additionally, the semantic of MV should be clarified as being the RMS data value the the semantic of cVal and instCVal should be clarified as being the fundamental phasor value	The comment may refer to A ,PPV, and PHV of CDC WYE respetively DEL. Additional CDC is rejected since the values phasA etc. of CDC CMV may be used for rms values setting the angle is zero. Explanation will be added in Table 49 of clause 8