

TISSUES Implementation Conformance Statement

for the IEC 61850 Interface

COMPLIANCE SHEET

4.02.0400.23002 1.1 en-US ENGLISH

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1 Description

This document provides the Tissues conformance statement for the IEC 61850 Edition 2 interface in WEB-PLC Version V19.3.32 with IEC 61850 Stack PIS10 Version 2.8.23. According to the UCA Internal User Group QAP the Tissue conformance statement is required to perform a conformance test and is referenced on the certificate.

This document is applicable for WEB-PLC with firmware version V19.3.32.

2 Mandatory Edition 2 Tissues

The tables show an overview of the applicable mandatory Tissues.

- Y** Implemented by server: the server has implemented the respective tissue.
Supported by client: the client supports servers that have implemented the respective tissue.
- ni** No impact on testing
- N/A** Not applicable if the server/client does not support the corresponding ACSI services

Part 6 Tissue			
Part 6 Tissue	Description	Implemented by server	Supported by client
658	Tracking related features	N/A	N/A
663	FCDA element cannot be a functionally constrained logical node	Y	Y
668	Autotransformer modeling	N/A	N/A
719	ConfDataSet: maxAttributes definition is confusing	N/A	N/A
721	Log element name	N/A	N/A
768	bType VisString65 is missing	N/A	N/A
779	Object references	Y	Y
788	SICS S56 from optional to mandatory	N/A	N/A
789	ConfLdName as services applies to both server and client (supportsLdname)	N/A	N/A
804	valKind and IED versus System configuration (valimport)	N/A	N/A
806	Max length of log name inconsistent between -6 and -7-2	N/A	N/A
807	Need a way to indicate if Owner is present in RCB	N/A	N/A
822	Extension of IED capabilities	N/A	N/A
823	ValKind for structured data attributes	Y	Y
824	Short addresses on structured data attributes	N/A	N/A
825	Floating point value	Y	Y
845	SGCB ResvTms	N/A	N/A
853	SBO and ProtNs	N/A	N/A
855	Recursive SubFunction	N/A	N/A
856	VoltageLevel frequency and phases	N/A	N/A
857	Function/SubFunction for ConductingEquipment	N/A	N/A
886	Missing 8-1-types	N/A	N/A
901	tServices as AP or as IED element	N/A	N/A
936	SupSubscription parameter usage is difficult	N/A	N/A
1175	IPv6 address lowercase only	N/A	N/A

Part 7-1 Tissue			
Part 7-1 Tissue	Description	Implemented by server	Supported by client
828	Data model namespace revision IEC 61850-7-4:2007 [A]	N/A	N/A
1151	Simulated GOOSE disappears after first appearance when LPHD.Sim = TRUE	N/A	N/A
1196	Extensions to standardized LN classes made by third parties	N/A	N/A

Part 7-2 Tissue			
Part 7-2 Tissue	Description	Implemented by server	Supported by client
778	AdCause values - add value not supported	Y	Y
780	What are unsupported trigger options at a control block?	Y	Y
783	TimOper Resp-; add Authorization check	N/A	N/A
786	AddCause values 26 and 27 are switched	Y	Y
820	Mandatory ACSI services (use for PICS template)	N/A	N/A
858	Typo in enumeration ServiceType	N/A	N/A
861	dchg of ConfRev attribute	N/A	N/A
876	GenLogicNodeClass and SGCB, GoCB, MsvCB, UsvCB	N/A	N/A
1038	Loss of info detection after resynch	N/A	N/A
1062	Entrytime not used CDC	N/A	N/A
1071	Length of DO name	Y	Y
1091	Sentence "The initial value of EditSG shall be 0" , has to be stated in part 7.2 not in 8.1.	Y	Y
1127	Missing owner attribute in BTS and UTS	N/A	N/A
1163	Old report in URCB	Y	Y
1202	GI not optional	Y	Y

Part 7-3 Tissue			
Part 7-3 Tissue	Description	Implemented by server	Supported by client
697	Persistent command/PulseConfig	N/A	N/A
698	Wrong case is BAC.db attribute	N/A	N/A
722	Units for h and min are not in UnitKind enumeration	Y	Y
919	Presence condition for sVC	N/A	N/A
925	Presence of i or f attribute, problem with writing	N/A	N/A
926	Presence Conditions within RangeConfig	N/A	N/A

Part 7-4 Tissue			
Part 7-4 Tissue	Description	Implemented by server	Supported by client
671	Mistake in definition of Mod & Beh	N/A	N/A
674	CDC of ZRRC.LocSta is wrong	N/A	N/A
675	SIML LN	N/A	N/A
676	Same data object name used with different CDC	N/A	N/A
677	MotStr is used with different CDC in PMMS and SOPM LN classes	N/A	N/A
679	Remove CycTrMod Enum	N/A	N/A
680	SI unit for MHYD.Cndct	N/A	N/A
681	Enum PIDAlg	N/A	N/A
682	ANCR.ParColMod	N/A	N/A
683	Enum QVVR.IntrDetMth	N/A	N/A
685	Enum ParTraMod	N/A	N/A
686	New annex H - enums types in XML	N/A	N/A
694	Data object CmdBlk	N/A	N/A
696	LSVS.St (status of subscription)	N/A	N/A
712	Interpretation of quality operatorBlocked	N/A	N/A
713	DO naming of time constants in FFIL	N/A	N/A
724	ANCR.Auto	N/A	N/A

Part 7-4 Tissue (continued)

Part 7-4 Tissue	Description	Implemented by server	Supported by client
725	Loc in LN A-group	N/A	N/A
734	LLN0.OpTmh vs. LPHD.OpTmh	N/A	N/A
735	ISAF.Alm and ISAF.AlmReset	N/A	N/A
736	PFSign	N/A	N/A
742	GAPC.Str, GAPC.Op and GAPC.StrVal	N/A	N/A
743	CCGR.PmpCtl and CCGR.FanCtl	N/A	N/A
744	LN STMP, EEHealth and EEName	N/A	N/A
772	LPHD.PwrUp/PwrDn shall be transient	N/A	N/A
773	Loc, LocKey and LocSta YPSH and YLTC	N/A	N/A
774	ITCI.LockKey	N/A	N/A
775	KVLV.ClsLim and OpnLim	N/A	N/A
776	LPHD.OutOv/InOv and LCCH.OutOv/InOv	N/A	N/A
800	Misspelling in CSYN	N/A	N/A
802	CCGR and harmonized control authority	N/A	N/A
808	Presence condition of ZMOT.DExt and new DOs	N/A	N/A
831	Setting of ConfRevNum in LGOS	N/A	N/A
838	Testing in Beh=Blocked	N/A	N/A
844	MFLK.PhPiMax, MFLK.PhPiLoFil, MFLK.PhPiRoot DEL →WYE	N/A	N/A
849	Presence conditions re-assessing in case of derived statistical calculation	N/A	N/A
877	QVUB settings should be optional	N/A	N/A
909	Remove ANCR.ColOpR and ColOpL	N/A	N/A
912	Clarification of PwrRtg/VARtg	N/A	N/A
920	Resettable counter is not resettable	N/A	N/A
932	Rename AVCO.SptVol to AVCO.VolSpt	N/A	N/A
939	Change CDC for ANCR.FixCol	N/A	N/A
991	LGOS: GoCBRef (as well as LSVS.SvCBRef) should be mandatory	N/A	N/A
1007	PTRC as fault indicator - Update of description required	N/A	N/A
1044	TapChg in AVCO	N/A	N/A
1077	Rename DOnames within LTIM	N/A	N/A



Tissues 675, 735, 772, 775, 776, 878 are not relevant for conformance testing.

Part 8-1 Tissue

Part 8-1 Tissue	Description	Implemented by server	Supported by client
784	Tracking of control (CTS)	N/A	N/A
817	Fixed-length GOOSE float encoding	Y	Y
834	File dir name length 64	N/A	N/A
951	Encoding of Owner attribute	N/A	N/A
1040	More associate error codes	Y	Y
1178	Select Response+ is non-null value	Y	Y

Compare the TISSUE database for more details on <https://iec61850.tissue-db.com>

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