GE VERNOVA

MiCOM P40 Agile

P746

TICS
Tissues Conformance Statement - IEC 61850 Edition 2

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1 IEC 61850 TISSUES CONFORMANCE STATEMENT

1.1 INTRODUCTION

This document provides the TISSUEs Implementation Conformance Statement (TICS) for the IEC 61850 Edition 2 Server interface in P746 Version 91.

Based Upon UCAIug TICS Template version 1.3

1.2 MANDATORY EDITION 2 TISSUES

Below tables give an overview of the applicable mandatory TISSUEs.

Below tables give an overview of the applicable mandatory TISSUEs as specified in IEC 57/2445/INF.

The original TISSUE should be consulted for details of changes.

“Implemented by server”:

”Y”: means that the server has implemented the respective tissue

“ni”: no impact on testing

“na”: not applicable if the server does not support the corresponding ACSI service(s)

Part 6 Tissue	Description	Implemented by Server
658	Tracking related features	Na
663	FCDA element cannot be a "functionally constrained logical node"	Y
668	Autotransformer modelling	Na
687	SGCB ResvTms	Na
719	ConfDataSet - maxAttributes definition is confusing	Y
721	Log element name	Na
768	bType VisString65 is missing	Y
779	object references	Na
788	SICS S56 from optional to mandatory	Na
789	ConfLdName as services applies to both server and client	Na
804	valKind and IED versus System configuration	Y
806	Max length of log name inconsistent between -6 and -7-2	Na
807	Need a way to indicate if "Owner" present in RCB	Na
823	ValKind for structured data attributes	Y
824	Short addresses on structured data attributes	Na
825	Floating point value	Y
845	SGCB ResvTms	Na
853	SBO and ProtNs	Na
855	Recursive SubFunction	Na
856	VoltageLevel frequency and phases	Na
857	Function/SubFunction for ConductingEquipment	Na
886	Missing 8-1 P-types	Na
901	tServices as AP or as IED element	Y
936	SupSubscription parameter usage is difficult	Y
1147	tServices - FileHandling not consistent with -7-2	Y
1185	Valkind value Conf for EX FC data	Na
1284	SCSM mapping may require a communication section in an ICD file	Y
1328	Limitation on the size of data type templates identifiers	Y
1395	Client LN attributes	Na
1402	ExtRef during engineering	Na
1415	SICS-S110 IID import mandatory for Edition2	Na
1419	Support of IdName on other IEDs	Na

Part 6 Tissue	Description	Implemented by Server
1444	Need to support fixed and SCT controlled Datasets	Na
1445	ConfReportControl and a fixed ReportSettings	Na
1450	originalSclXxx computation rules	Y
1485	Need to supercede Tissue 1398 to clarify SCT behaviour	Na

Part 7-1 Tissue	Description	Implemented by Server
828	Data model namespace revision IEC 61850-7-4:2007[A]	Na
948	Enumeration (string) values format	Y
1151	Simulated GOOSE disappears after 1st appearance when LPHD.Sim = TRUE	Y
1396	The use and configuration flow of LGOS and LSVS is unclear	Y
1447	Restriction on ENUMtypes in SCL	Na
1457	Multiple DOI nodes with the same name	Y
1468	Re-use DO from other LN	Y
1491	CmdBlk blocks itself?	Na

Part 7-2 Tissue	Description	Implemented by Server
728	BRCB: could PurgeBuf be set when RptEna=TRUE?	Y
778	AddCause values - add value not-supported	Y
780	What is unsupported trigger option at a control block?	Y
783	TimOper Resp-; add Authorization check	Na
786	AddCause values 26 and 27 are switched	Y
820	Mandatory ACSI services (use for PICS template)	Y
858	Typo in enumeration ServiceType	Na
861	dchg of ConfRev attribute	Na
1050	GTS Phycomaddr definition in SCL	Na
1071	Length of DO name	Na
1127	Missing owner attribute in BTS and UTS	Na
1202	GI not optional	Na
1232	EntryID needs clarification	Y
1242	NTS definition	Na
1307	Segmented report with Buffer overflow	Y
1428	MTS and NTS should use svOptFlds	Na
1630	Attributes in CDC=LTS do not match 8-1 definition	Na

Part 7-3 Tissue	Description	Implemented by Server
697	persistent command/PulseConfig	Y
698	Wrong case is BAC.dB attribute	Na
711	blkEna freeze data update while setting its quality to operaterBlocked	Na
722	Units for 'h' and 'min' not in UnitKind enumeration	Y
919	Presence Condition for sVC	Na
925	Presence of i or f attribute - Problem with writing	Na
926	Presence Conditions within RangeConfig	Na
954	Data attributes with FC=CF should have trgOp=dchg	Y
1078	CMV.t update if rangeAng changed	Na
1565	db = 0 behaviour	Y
1578	dataAttribute NameSpace content	Y

Part 7-4 Tissue	Description	Implemented by Server
671	Mistake in definition of Mod & Beh	Na
674	CDC of ZRRC.LocSta is wrong	Na
676	Same data object name used with different CDC	Na
677	MotStr is used with different CDC in PMMS and SOPM LN classes	Na
679	Remove CycTrMod Enum	Na
680	SI unit for MHYD.Cndct	Na
681	Enum PIDAlg	Na
682	ANCR.ParColMod	Na
683	Enum QVVR.IntrDetMth	Na
685	Enum ParTraMod	Na
686	New annex H - enums types in XML	Y
694	Data object CmdBlk	Na
696	LSVS.St (Status of subscription)	Y
712	Interpretation of quality operatorBlocked	Y
713	DO Naming of time constants in FFIL	Na
714	Enums for ShOpCap and SwOpCap	Na
715	RBDR.ChNum1	Na
716	TAXD text for condition	Na
724	ANCR.Auto	Na
725	Loc in LN A-group	Na
734	LLN0.OpTmh vs. LPHD.OpTmh	Na
736	PFSign	Na
742	GAPC.Str, GAPC.Op and GAPC.StrVal	Na
743	CCGR.PmpCtl and CCGR.FanCtl	Na
744	LN STMP, EEHealth and EEName	Na
772	LPHD.PwrUp/PwrDn should be transient	N (only supports PwrUp)
773	Loc, LocKey and LocSta YPSH and YLTC	Na
774	ITCI.LocKey	Na
776	LPHD.OutOv/InOv and LCCH.OutOv/InOv	Na
800	Misspelling in CSYN	Na
802	CCGR and harmonized control authority	Na
808	Presence condition of ZMoT.DExt and new DOs	Na
831	Setting of ConfRevNum in LGOS	Na
838	Testing in Beh=Blocked	Na
844	MFLK.PhPiMax, MFLK.PhPiLoFil, MFLK.PhPiRoot DEL->WYE	Na
877	QVUB -settings should be optional	Na
908	ARIS.StrSeq – transient	Na
909	Remove ANCR.ColOpR and ColOpL	Na
912	Clarification of PwrRtg/VARtg	Na
920	Resettable Counter is NOT resettable	Na
932	Rename AVCO.SptVol to AVCO.VolSpt	Na
933	Presence of LCCH.RedFerCh and RedRxCnt	Na
939	Change CDC for ANCR.FixCol	Na
991	LGOS: GoCBRef (as well as LSVS.SvCBRef) should be mandatory	Na
1007	PTRC as fault indicator - Update of description required	Na
1044	TapChg in AVCO	Na
1077	Rename DOnames within LTIM	Na
1256	New DO for LTIM to set time "manually"	Na
1331	Mod, Beh and Health with q=TEST, client can't receive their states	Y
1426	Add two DO for leap seconds in LTIM	Na

Part 7-4 Tissue	Description	Implemented by Server
1456	Annex A and Mod/Beh/Health	Y
1568	ISAF.AlmReset ->transient	Na

Part 8-1 Tissue	Description	Implemented by Server
770	GoID type mitmatch 18.1.1 and 18.1.2.5.2	Na
784	Tracking of control (CTS)	Na
817	Fixed-length GOOSE float encoding	Y
827	Mandatory ACSI services (Part of 7-2 TISSUE resolution)	Y
834	File dir name length 64	Na
951	Encoding of Owner attribute	Na
1040	More associate error codes	Na
1178	Select Response+ is non-null value	Na
1324	The response- for DeleteNamedVariableList is not defined	Na
1345	Fixed-length GOOSE ASN.1 length encoding	Y
1441	Optonal fields in buffered reports	Y
1442	Journal variableTag for ReasonCode	Na
1453	Purge buffer on write to BRCB	Y
1454	Reports can be transmitted before write (RptEna=true) is confirmed	Na
1495	GetVariableAccessAttributes error code	Y
1500	The response for DeleteNamedVariableList with a non-existent LN is not specified	Na
1626	PICS for Information Report is incorrect	Na

Note:
Part 7.4 Tissues 675, 735, 772, 775, 878 are not relevant for conformance testing.
Compare the TISSUE database for more details: http://iec61850.tissue-db.com

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