

High **PROTEC**

MCA4

IEC 61850 Edition 2 – TICS

**TISSUES Implementation Conformance Statement
for the IEC 61850 Edition 2 interface in MCA4
UCA International Users Group - Testing Sub Committee**

Build 62589

Revision A

Version: 3.11

Date: 2024-07-15

Original document English

© 2024 SEG Electronics GmbH. All rights reserved.

SEG Electronics GmbH

Krefelder Weg 47 • D-47906 Kempen (Germany)

Telephone: +49 (0) 21 52 145 0

Internet: www.SEGelectronics.de

Sales

Telephone: +49 (0) 21 52 145 331

Fax: +49 (0) 21 52 145 354

E-mail: sales@SEGelectronics.de

Service

Telephone: +49 (0) 21 52 145 600

Fax: +49 (0) 21 52 145 354

E-mail: support@SEGelectronics.de

SEG Electronics GmbH reserves the right to update any portion of this publication at any time.

Information provided by SEG Electronics GmbH is believed to be correct and reliable.

However, no responsibility is assumed by SEG Electronics GmbH unless otherwise expressly undertaken.

Complete address / phone / fax / email information for all locations is available on our website.

Table of Contents

1	Introduction	4
2	Mandatory Edition 2 Tissues	5

1 Introduction

This document provides a template for the Tissues conformance statement. According to the UCA IUG QAP the Tissue conformance statement is required to perform a conformance test and is referenced on the certificate.

This document is applicable for MCA4 with firmware version 3.11.

2 Mandatory Edition 2 Tissues

Below table gives an overview of the applicable mandatory Tissues.

Part 6 Tissue	Description	Implemented (Y/na)
658	Tracking related features	Y
663	FCDA element cannot be a "functionally constrained logical node"	Y
668	Autotransformer modeling	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	Y
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	na
806	Max length of log name inconsistent between -6 and -7-2	Y
807	Need a way to indicate if "Owner" present in RCB	Y
823	ValKind for structured data attributes	na
824	Short addresses on structured data attributes	Y
825	Floating point value	Y
845	SGCB ResvTms	na
853	SBO and ProtNs	Y
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	na
936	SupSubscription parameter usage is difficult	Y
1175	IPv6 address lowercase only	Y/na
Part 7-1 Tissue	Description	Implemented (Y/na)
828	Data model namespace revision IEC 61850-7-4:2007[A]	Y

Part 7-1 Tissue	Description	Implemented (Y/na)
1151	simulated GOOSE disappears after 1st appearance when LPHD.Sim = TRUE	na
1468	Re-use DO from other LN	Y

Part 7-2 Tissue	Description	Implemented (Y/na)
778	AddCause values - add value not-supported	Y
780	What are unsupported trigger options 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	Y
861	dchg of ConfRev attribute	na
876	GenLogicNodeClass and SGCB, GoCB, MsvCB, UsvCB	Y
1038	Loss of Info Detection After Resynch	Y
1050	GTS Phycomaddr definition in SCL	Y
1062	Entrytime not used in CDC	Y
1071	Length of DO name	Y
1091	The sentence "The initial value of EditSG shall be 0" has to be stated in part 7.2 not in 8.1	na
1127	Missing owner attribute in BTS and UTS	na
1202	GI not optional	Y

Part 7-3 Tissue	Description	Implemented (Y/na)
697	persistent command / PulseConfig	na
698	Wrong case is BAC.dB attribute	na
722	Units for 'h' and 'min' not in UnitKind enumeration.	na
919	Presence Condition for sVC	Y
925	Presence of i or f attribute - Problem with writing	Y
926	Presence Conditions within RangeConfig	Y

Part 7-4 Tissue	Description	Implemented (Y/na)
671	mistake in definition of Mod & Beh	Y
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	Y
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)	na
712	interpretation of quality operatorBlocked	na
713	DO Naming of time constants in FFIL	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
773	Loc, LockKey and LocSta YPSH and YLTC	na
774	ITCI.LockKey	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	Y
838	Testing in Beh=Blocked	Y
844	MFLK.PhPiMax, MFLK.PhPiLoFil, MFLK.PhPiRoot DEL->WYE	na
849	Presence conditions re-assessing in case of derived statistical calculation	na

Part 7-4 Tissue	Description	Implemented (Y/na)
877	QVUB -settings should be optional	na
909	Remove ANCR.ColOpR and ColOpL	na
920	Resetable Counter is NOT resetable	na
932	Rename AVCO.SptVol to AVCO.VolSpt	na
939	Change CDC for ANCR.FixCol	na
991	LGOS: GoCBRef (as well as LSVS.SvCBRef) should be mandatory	Y
1007	PTRC as fault indicator - Update of description required	na
1044	TapChg in AVCO	na
1077	Rename DOnames within LTIM	na

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

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

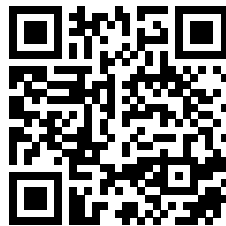
Compare the TISSUE database for more details: www.tissues.iec61850.com

High **PROTEC**

MCA4

IEC 61850 Edition 2 – TICS

docs.SEGelectronics.de/HighPROTEC



SEG Electronics GmbH reserves the right to update any portion of this publication at any time.
Information provided by SEG Electronics GmbH is believed to be correct and reliable.
However, SEG Electronics GmbH assumes no responsibility
unless otherwise expressly undertaken.



SEG Electronics GmbH
Krefelder Weg 47 • D-47906 Kempen (Germany)
Telephone: +49 (0) 21 52 145 0

Internet: www.SEGelectronics.de

Sales
Telephone: +49 (0) 21 52 145 331
Fax: +49 (0) 21 52 145 354
E-mail: sales@SEGelectronics.de

Service
Telephone: +49 (0) 21 52 145 600
Fax: +49 (0) 21 52 145 354
E-mail: support@SEGelectronics.de