

TISSUES Implementation Conformance Statement
for the IEC 61850 interface in SEL-710

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UCA International Users Group
Testing Sub Committee

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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 SEL-710 with firmware version R406.

Mandatory Intop Tissues

During the October 2006 meeting IEC TC57 working group 10 decided that:

- green Tissues with the category “IntOp” are mandatory for IEC 61850 edition 1
- Tissues with the category “Ed.2” Tissues should not be implemented.

Below table gives an overview of the implemented IntOp Tissues.

Part	Tissue Nr	Description	Implemented Y/na
8-1	116	GetNameList with empty response?	Y
	165	Improper Error Response for GetDataSetValues	Y
	183	GetNameList error handling	Y
7-4	None		
7-3	28	Definition of APC	na
	54	Point def xVal, not cVal	na
	55	Ineut = Ires ?	Y
	60	Services missing in tables	na
	63	mag in CDC CMV	Y
	65	Deadband calculation of a Vector and trigger option	N
	219	operTm in ACT	na
	270	WYE and DEL rms values	Y
7-2	30	control parameter T	Y
	31	Typo	na
	32	Typo in syntax	na
	35	Typo Syntax Control time	na
	36	Syntax parameter DSet-Ref missing	na
	37	Syntax GOOSE "T" type	Y
	39	Add DstAddr to GoCB	Y
	40	GOOSE Message "AppID" to "GoID"	Y
	41	GsCB "AppID" to "GsID"	na
	42	SV timestamp: "EntryTime" to "TimeStamp"	na
	43	Control "T" semantic	Y
	44	AddCause - Object not sel	Y
	45	Missing AddCauses (neg range)	na
	46	Synchro check cancel	na
	47	"," in LD Name?	Y
	49	BRCB TimeOfEntry (part of #453)	N
	50	LNNName start with number?	Y
	51	ARRAY [0..num] missing	na
	52	Ambiguity GOOSE SqNum	Y
	53	Add DstAddr to GsCB, SV	na
	151	Name constraint for control blocks etc.	Y
166	DataRef attribute in Log	na	
185	Logging - Integrity periode	na	
189	SV Format	na	
190	BRCB: EntryId and TimeOfEntry (part of #453)	Y	
191	BRCB: Integrity and buffering reports (part of #453)	N	

Part	Tissue Description Nr	Implemented Y/na
	234 New type CtxInt (Enums are mapped to 8 bit integer)	na
	275 Confusing statement on GI usage (part of #453)	Y
	278 EntryId not valid for a server (part of #453)	na
Part 6	1 Syntax	na
	5 tExtensionAttributeNameEnum is restricted	Y
	8 SIUnit enumeration for W	Y
	10 Base type for bitstring usage	Y
	17 DAI/SDI elements syntax	Y
	169 Ordering of enum differs from 7-3	na

NOTE: Tissue 49, 190, 191, 275 and 278 are part of the optional tissue #453, all other technical tissues in the table are mandatory if applicable.

NOTE: Editorial tissues are marked as "na".

NOTE: Final proposal on tissue 45 is not defined yet

Optional IntOp Tissues

After the approval of the server conformance test procedures version 2.2 the following IntOp tissues were added or changed. It is optional to implement these tissues.

Part	Tissue Nr	Description	Implemented Y/N/na
8-1	246	Control negative response (SBOs) with LastApplError	Y
8-1	545	Skip file directories with no files	na
7-2	333	Enabling of an incomplete GoCB	na
7-2	453	Combination of all reporting and logging tissues	N
6	245	Attribute RptId in SCL	N
6	529	Replace sev - Unknown by unknown	na