

TISSUES Implementation Conformance Statement  
for the IEC 61850 interface in SEL-787

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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-787 with firmware version R206.

## 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	

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

<b>Part</b>	<b>Tissue Nr</b>	<b>Description</b>	<b>Implemented Y/N/na</b>
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