

TISSUES Implementation Conformance Statement  
for the IEC 61850 interface in MRMV4

Version 2.0.u  
Date: 2013-04-29

## 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 MRMV4 Version 2.0.u (Firmware-Build **19933**).

## 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 Description Implemented	Nr	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	na
	219	operTm in ACT	na
270	WYE and DEL rms values	na	
7-2	30	control parameter T	Y
	31	Typo	Y
	32	Typo in syntax	Y
	35	Typo Syntax Control time	Y
	36	Syntax parameter DSet-Ref missing	Y
	37	Syntax GOOSE "T" type	Y
	39	Add DstAddr to GoCB	Y
	40	GOOSE Message "AppID" to "GoID"	Y
	41	GsCB "AppID" to "GsID"	Y
	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)	Y
	50	LNName start with number?	Y
	51	ARRAY [0..num] missing	na
	52	Ambiguity GOOSE SqNum	Y
	53	Add DstAddr to GsCB, SV	Y
	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)	Y	

<b>Part</b>	<b>Tissue Description Implemented</b>		<b>Y/na</b>
	<b>Nr</b>		
	<b>234</b>	New type CtxInt (Enums are mapped to 8 bit integer)	Y
	<b>275</b>	Confusing statement on GI usage (part of #453)	Y
	<b>278</b>	EntryId not valid for a server (part of #453)	Y
Part 6	<b>1</b>	Syntax	Y
	<b>5</b>	tExtensionAttributeNameEnum is restricted	Y
	<b>8</b>	SIUnit enumeration for W	Y
	<b>10</b>	Base type for bitstring usage	na
	<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	235	Extension of Name length	Y
8-1	246	Control negative response (SBOs) with LastApplError	na
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	Y
6	245	Attribute RptId in SCL	N
6	529	Replace sev - Unknown by unknown	na

### Revision history

Revision	Remarks
1.0	First version