

TISSUES Implementation Conformance Statement
for the IEC 61850 interface in AQ-F215

UCA International Users Group
Testing Sub Committee

Template version 1.0
Date: April 2, 2012

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 AQ-F215 with firmware version v1.0.3.

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 ?	na
	63	mag in CDC CMV	na
	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	na
	32	Typo in syntax	na
	35	Typo Syntax Control time	na
	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)	Y
	46	Synchro check cancel	na
	47	"." in LD Name?	na
	49	BRCB TimeOfEntry (part of #453)	-
	50	LNNName start with number?	na
	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)	-	
191	BRCB: Integrity and buffering reports (part of #453)	-	
234	New type CtxInt (Enums are mapped to 8 bit integer)	na	
275	Confusing statement on GI usage (part of #453)	-	
278	EntryId not valid for a server (part of #453)	-	
Part 6	1	Syntax	Y

Part	Tissue Description Nr	Implemented Y/na
	5 tExtensionAttributeNameEnum is restricted	Y
	8 SIUnit enumeration for W	na
	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	Y
6	245	Attribute RptId in SCL	N
6	529	Replace sev - Unknown by unknown	N

Other Implemented Tissues

<Complete below table of other implemented tissues, these tissues should have no impact on interoperability>

Part	Tissue Nr	Description

Instruction and comments on using this template

Comments

- Tissue 235 "Extension of name length" for dataset references has been changed from IntOp to Ed.2 and has been removed from the IntOp list
- Tissue 38 "Change Appld into Gold" to match part 7-2 with part 8-1 has been changed from IntOp to Ed.2 and has been removed from the IntOp list
- Tissue 45 "Additional AddCauses" has been changed from green to red
- Even intop tissues may change. Compare <http://www.tissues.iec61850.com> for most recent status
- Questions and comments can be e-mailed to: helpdesk@ucausersgroup.org

Instructions

- format of the document may be changed into your company format
- enter the applicable IED name and firmware version
- update the Y/na values in the Mandatory tissue table
- update the Y/N/na values in the Optional tissue table
- remove the instructions, comments and revision history of the template

Revision history

Revision	Remarks
0.1	First version of the UCAIUG template
0.2	Removed tissue 38 from the list Added a note on tissue 45