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## **EMR-4000**

Software-Version: 3.0.d

TD026074EN

Tissue Implementation Conformance Statement (TICS)

UCA International Users Group Testing Sub Committee

## 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 EMR-4000 Version 3.0.d (Firmware-Build **29322**).

## 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 Nr	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	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

Part	Tissue Description Nr	Implemented Y / na
	<b>52</b> Ambiguity GOOSE SqNum	Y
	<b>53</b> Add DstAddr to GsCB, SV	Y
	<b>151</b> Name constraint for control blocks etc.	Y
	<b>166</b> DataRef attribute in Log	na
	<b>185</b> Logging - Integrity periode	na
	<b>189</b> SV Format	na
	<b>190</b> BRCB: EntryId and TimeOfEntry (part of #453)	Y
	<b>191</b> BRCB: Integrity and buffering reports (part of #453)	Y
	<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.

Part	Tissue Nr	Description	Implemented Y/N/na
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