

Technical Issues  
Conformance Statement  
(TICS)  
  
for  
“Ekip Com IEC 61850”

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## Document Versions

Version	Ekip COM IEC 61850 SW version	Modifications	Release Date	Author
1.0	2.09	First emission	03 Jun, 2015	M. Stucchi
1.1	2.10, 3.00, 3.01,	Corrected typo in 8-1 part (183 was 83) TISSUE 8-1 235 marked as Ed.2 TISSUE 7-3 1199 added TISSUE 7-3 60 marked as Ed.2 TISSUE 7-2 1281 added TISSUE 7-2 275 removed	22 Jul, 2015	M. Stucchi
1.2	3.02 3.04 3.05 3.06	Removed references to Emax2, transformed into references to Ekip Com IEC 61850 communication module instead.	21 Nov, 2017	M. Stucchi

## References

[1] – SACE Emax2, New low voltage air circuit breaker – Technical catalogue

[2] – “61850 Tissues Conformance Statement” – Rev 3, Feb 2015 from TriangleMicroworks, Inc.

## Introduction

This documents addresses the approach to TISSUES as adopted in the Ekip COM IEC 61850 communication module. It is based to and derived from [2].

## Mandatory 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 IntOp Tissues and testing status.

Standard Part	LN instance	IntOp	Implemented
8-1	<b>116</b> GetNameList with empty response?	IntOp	Yes
	<b>165</b> Improper Error Response for GetDataSetValues	IntOp	Yes
	<b>183</b> GetNameList error handling	IntOp	Yes
	<b>235</b> Extension of Name length	IntOp	Ed.2
	<b>246</b> Control negative response (SBOs) with LastApplError		No
	<b>545</b> Skip file directories with no files		No
7-4	None		
7-3	<b>28</b> Definition of APC	IntOp	Yes
	<b>54</b> Point def xVal, not cVal	IntOp	Yes
	<b>55</b> lneut = lres ?	IntOp	No
	<b>60</b> Services missing in tables	IntOp	Ed.2
	<b>63</b> mag in CDC CMV	IntOp	Yes
	<b>65</b> Deadband calculation of a Vector and trigger option	IntOp	No
	<b>219</b> operTm in ACT	IntOp	Yes
	<b>270</b> WYE and DEL rms values	IntOp	Yes
	<b>1199</b> Allow INT32 for CDC BCR	IntOp	Yes
7-2	<b>30</b> control parameter T	IntOp	Yes
	<b>31</b> Typo	IntOp	Yes
	<b>32</b> Typo in syntax	IntOp	Yes
	<b>35</b> Typo Syntax Control time	IntOp	Yes
	<b>36</b> Syntax parameter DSet-Ref missing	IntOp	Yes
	<b>37</b> Syntax GOOSE "T" type	IntOp	Yes
	<b>39</b> Add DstAddr to GoCB	IntOp	Yes
	<b>40</b> GOOSE Message “AppID” to “GoID”	IntOp	Yes
	<b>41</b> GsCB “AppID” to “GslD”	IntOp	Yes
	<b>42</b> SV timestamp: “EntryTime” to “TimeStamp”	IntOp	Yes
	<b>43</b> Control "T" semantic	IntOp	Yes
	<b>44</b> AddCause - Object not sel	IntOp	Yes
	<b>45</b> Missing AddCauses	IntOp	Yes
	<b>46</b> Synchro check cancel	IntOp	No
	<b>47</b> "." in LD Name?	IntOp	Yes
	<b>49</b> BRCB TimeOfEntry?	IntOp	Yes

	<b>50</b>	LNName start with number?	IntOp	Yes
	<b>51</b>	ARRAY [0..num] missing	IntOp	Yes
	<b>52</b>	Ambiguity GOOSE SqNum	IntOp	Yes
	<b>53</b>	Add DstAddr to GsCB, SV	IntOp	Yes
	<b>151</b>	Name constraint for control blocks etc.	IntOp	Yes
	<b>166</b>	DataRef attribute in Log	IntOp	Yes
	<b>185</b>	Logging - Integrity periode	IntOp	Yes
	<b>189</b>	SV Format	IntOp	No
	<b>190</b>	BRCB: EntryId and TimeOfEntry	IntOp	Yes
	<b>191</b>	BRCB: Integrity and buffering reports	IntOp	Yes
	<b>234</b>	New type CtxInt	IntOp	Ed.2
	<b>278</b>	EntryId not valid for a server	IntOp	Yes
	<b>333</b>	Enabling of an incomplete GoCB		Yes
	<b>453</b>	Combination of all reporting and logging tissues		Yes
	<b>1281</b>	Default for TrgOps.GI is TRUE	IntOp	Yes
6	<b>1</b>	Syntax	IntOp	Yes
	<b>5</b>	tExtensionAttributeNameEnum is restricted	IntOp	Yes
	<b>8</b>	SIUnit enumeration for W	IntOp	Yes
	<b>10</b>	Base type for bitstring usage	IntOp	Yes
	<b>17</b>	DAI/SDI elements syntax	IntOp	Yes
	<b>169</b>	Ordering of enum differs from 7-3	IntOp	Yes
	<b>245</b>	Attribyte RptId in SCL		Yes
	<b>529</b>	Replace sev – Unknown by unknown		Yes

Table 1 – TISSUE list

## Implementation notes:

Yes – implemented in the library

Appl – must be implemented in application (user) code

N/A – doesn't apply (Sampled values not implemented)

Ed2 – adds classes that are new in Edition 2