



# CimWay - IEC 61850 TICS

Description: This document contains Tissues Implementation Conformance Statement of the CimWay built-in driver for IEC 61850.

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The last revision of the technical content accommodates changes in PcVue 11. Unless otherwise stated, this document is valid for releases made publicly available since.

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## Authorization

	Name	Date
Written by	JSB	Apr 19 <sup>th</sup> , 2013
Checked by	BL	August 14 <sup>th</sup> , 2013
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## SUMMARY

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# 1 Introduction

This document specifies the Tissues Implementation Conformance Statement (TICS) of the CimWay built-in driver for IEC 61850, further referred to as "the Client".

Together with the PICS, PIXIT and MICS, the TICS forms the basis for conformance testing according to IEC 61850-10.

According to the UCA IUG QAP the TICS document is required to perform conformance testing and is referenced on the certificate.

The following documents are available separately:

- The Protocol Implementation Conformance Statement (PICS),
- The Protocol Implementation eXtra Information for Testing (PIXIT),
- The Model Implementation Conformance Statement (MICS),
- The Tissues Implementation Conformance Statement (TICS).

## 2 Mandatory InterOp 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.

The table below gives an overview of the implemented InterOp Tissues.

Part	Tissue Description Nr	Implemented Y/na
<b>8-1</b>	<b>116</b> GetNameList with empty response?	Y
	<b>165</b> Improper Error Response for GetDataSetValues	Y
	<b>183</b> GetNameList error handling	Y
<b>7-4</b>	<b>None</b>	
<b>7-3</b>	<b>28</b> Definition of APC	na
	<b>54</b> Point def xVal, not cVal	na
	<b>55</b> Ineut = Ires ?	na
	<b>60</b> Services missing in tables	na
	<b>63</b> mag in CDC CMV	na
	<b>219</b> operTm in ACT	na
	<b>270</b> WYE and DEL rms values	na
<b>7-2</b>	<b>30</b> control parameter T	na
	<b>31</b> Typo	na
	<b>32</b> Typo in syntax	na
	<b>35</b> Typo Syntax Control time	na
	<b>36</b> Syntax parameter DSet-Ref missing	na
	<b>37</b> Syntax GOOSE "T" type	na
	<b>39</b> Add DstAddr to GoCB	na
	<b>40</b> GOOSE Message "AppID" to "GoID"	na
	<b>41</b> GsCB "AppID" to "GsID"	na
	<b>42</b> SV timestamp: "EntryTime" to "TimeStamp"	na
	<b>43</b> Control "T" semantic	na
	<b>44</b> AddCause - Object not sel	na
	<b>45</b> Missing AddCauses (neg range)	na
	<b>46</b> Synchro check cancel	na
	<b>47</b> "." in LD Name?	na
	<b>49</b> BRCB TimeOfEntry (part of #453)	na
	<b>50</b> LNName start with number?	na
	<b>51</b> ARRAY [0..num] missing	na
	<b>52</b> Ambiguity GOOSE SqNum	na
	<b>53</b> Add DstAddr to GsCB, SV	na
	<b>151</b> Name constraint for control blocks etc.	na
	<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)	na
	<b>191</b> BRCB: Integrity and buffering reports (part of #453)	na
	<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)	na
	<b>278</b> EntryId not valid for a server (part of #453)	na
<b>Part 6</b>	<b>1</b> Syntax	na
	<b>5</b> tExtensionAttributeNameEnum is restricted	na
	<b>8</b> SIUnit enumeration for W	na
	<b>10</b> Base type for bitstring usage	na
	<b>17</b> DAI/SDI elements syntax	na
	<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

## 3 Optional InterOp Tissues

After the approval of the server conformance test procedures version 2.2 the following InterOp 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	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	na
6	245	Attribute RptId in SCL is optional	na
6	529	Replace sev - Unknown by unknown	na