

Easergy MiCOM P746

Numerical Busbar Protection Relay

P746/EN TC/L72

Software Version	B3/C3
Hardware Suffix	M
IEC61850 Edition	1

Tissues Conformance Statement (TICS)

Note

The technical manual for this device gives instructions for its installation, commissioning, and operation. However, the manual cannot cover all conceivable circumstances or include detailed information on all topics. In the event of questions or specific problems, do not take any action without proper authorization. Contact the appropriate Schneider Electric technical sales office and request the necessary information.

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TISSUES CONFORMANCE
STATEMENT (TICS)

Date (month/year):	09/2016
Products covered by this chapter:	This chapter covers the specific versions of the MiCOM products listed below. This includes only the following combinations of Software Version and Hardware Suffix.
Hardware suffix:	M
Software version:	B3/C3
IEC61850 Edition:	1
Connection diagrams:	This includes a list of the Connection Diagrams for the Products covered by this document. 10P746xx (xx = 00 to 21)

CONTENTS

Page (TC) -

1	Introduction	5
2	Mandatory IntOp Tissues	6
3	Other Tissues	8

Notes:

1 INTRODUCTION

According to the UCA IUG QAP, the Technical Issues Conformance Statement is required to perform a conformance test and is referenced on the certificate.

This document specifies the conformance level of MiCOM P746 with firmware version B3/C3 to the logged Technical Issues (TISSUES) against the IEC 61850 set of standards.

For more details on the logged Technical Issues, refer to the website:

<http://www.tissues.iec61850.com>

2 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
- Green Tissues with the category “Ed.2” should not be implemented.

Below table gives an overview of the implemented IntOp Tissues.

Part	Tissue	Description	Category IntOp/IntOp2	Implemented Y/na	Notes
6	1	Syntax	IntOp	Y	
	5	tExtensionAttributeNameEnum is restricted	IntOp	Y	
	8	SIUnit enumeration for W	IntOp	Y	
	10	Base type for bitstring usage	IntOp	Y	
	17	DAI/SDI elements syntax	IntOp	Y	
	169	Ordering of enum differs from 7-3	IntOp	na	angRef is Optional in WYE, not included in P40 products
	245	Attribute RptId in SCL	IntOp	Y	
	529	Replace sev - Unknown by unknown	IntOp	Y	
7-2	30	control parameter T	IntOp	Y	
	31	Typo	IntOp	Y	Documentation only
	32	Typo in syntax	IntOp	Y	
	35	Typo Syntax Control time	IntOp	Y	
	36	Syntax parameter DSet-Ref missing	IntOp	Y	
	37	Syntax GOOSE "T" type	IntOp	Y	
	39	Add DstAddr to GoCB	IntOp	Y	
	40	GOOSE Message “AppID” to “GoID”	IntOp	Y	
	41	GsCB “AppID” to “GsID”	IntOp	na	GSSE not implemented
	42	SV timestamp: “EntryTime” to “TimeStamp”	IntOp	na	SV model not implemented
	43	Control "T" semantic	IntOp	Y	
	44	AddCause - Object not sel	IntOp	Y	
	45	Missing AddCauses	IntOp		
	46	Synchro check cancel	IntOp	na	Syncro check not supported in P40 products
	47	"." in LD Name?	IntOp	Y	
	49	BRCB TimeOfEntry (part of #453)	IntOp	-	
	50	LNNName start with number?	IntOp	Y	
	51	ARRAY [0..num] missing	IntOp	Y	
	52	Ambiguity GOOSE SqNum	IntOp	Y	
	53	Add DstAddr to GsCB, SV	IntOp	na	SV model not implemented
	151	Name constraint for control blocks etc.	IntOp	Y	
	166	DataRef attribute in Log	IntOp	na	Logging not implemented

Part	Tissue	Description	Category IntOp/IntOp2	Implemented Y/na	Notes
	185	Logging - Integrity period	IntOp	na	Logging not implemented
	189	SV Format	IntOp	na	SV model not implemented
	190	BRCB: EntryId and TimeOfEntry (part of #453)	IntOp	-	
	191	BRCB: Integrity and buffering reports (part of #453)	IntOp	-	
	278	EntryId not valid for a server (part of #453)	IntOp	-	
	297	BRCB: SqNum generation	IntOp	Y	
	298	BRCB: SqNum attribute data type	IntOp	Y	
	305	BufTim=0 with 2 or more data set changes	IntOp	Y	
	322	BRCB: Buffer purge when changing configuration	IntOp	na	
	329	BRCB: Conditions for setting buffer overflow	IntOp	na	
	333	Enabling of an incomplete GoCB	IntOp	Y	
	335	BRCB: Clearance of BufOvl flag	IntOp	Y	
	348	TimeOfEntry is independent of EntryId	IntOp	Y	
	349	TimeOfEntry has two definitions	IntOp	na	
	453	Reporting & Logging model revision	IntOp	na	
	1281	Default for TrgPos.GI is TRUE	IntOp		
7-3	28	Definition of APC	IntOp	Y	
	54	Point def xVal, not cVal	IntOp	Y	Documentation only
	55	Ineut = Ires?	IntOp	Y	
	63	mag in CDC CMV	IntOp	Y	
	65	Deadband calculation of a Vector and trigger option	IntOp	Y	
	219	operTm in ACT	IntOp	na	operTm is Optional in ACT, not included in P746 products.
	270	WYE and DEL rms values	IntOp	Y	
	1199	BCR	IntOp	Y	
7-4	252	AlmThm should have CDC SPS	IntOp		
8-1	116	GetNameList with empty response?	IntOp	Y	
	165	Improper Error Response for GetDataSetValues	IntOp	Y	
	183	GetNameList error handling	IntOp	Y	
	246	Control negative response (SBOs) with LastApplError	IntOp	Y	
	545	Skip file directories with no files	IntOp	na	

Note *Tissue** = Tissue is not clarified in enough detail for testing
*Tissue*** = Tissue status is not green, but is clarified in enough detail for testing

3 OTHER TISSUES

Complete below table of other implemented tissues, these tissues with the category "Ed2" should have no impact on interoperability.

Part	Tissue	Description	Implemented Y/na	Notes
6	7	Duplication of attributes	Y	
	9	Data Set reference in CBs Y	Y	
	272	Private section type	Y	
	285	Inconsistent uniqueness constraints	Y	
	307	Flag buffered/unbuffered reporting in element service	Y	
	315	Number of client associations	Y	
	425	SCL does not support VisString65	Y	
7-1	250	Trigger option used, if not defined	Y	
7-2	236	Name length	Y	
	300	Attribute Resv in BRCB	Y	
	325	TimeStamp definition	Y	
7-3	205	Device name plate – missing description "d" and "dU"	Y	
7-4	79	AutoRecSt and Lockout	Y	
	147	Mod	Y	
	263	Setting Local time or summer/winter time	Y	
	830	Mode/Behaviour & Quality	Y	Partly supported
8-1	118	File directory	Y	
	177	Ignoring OptFlds bits for URCB	Y	
	231	ConfRev definition	Y	
	777	AddCause values	Y	
	827	Mandatory ACSI services	Y	



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