
SystemCORP Pty Ltd



IEC 61850

SystemCORP Protocol
Implementation
Conformance Statement
(PICS)

Copyright: All rights reserved. None of the information contained in this document may be reproduced or stored in a database or retrieval system or disclosed to others without written authorization by SystemCORP Pty Ltd.

The information in this document is subject to change without prior notice and should not be construed as a commitment by SystemCORP Pty Ltd. SystemCORP Pty Ltd do not assume responsibility for any errors, which may be in this document.

Documentation Control

Author:	Oscar Naval
Revision:	1.00
Revision History:	1.00 Initial release
Creation Date:	14 March 2010
Last Revision Date:	25 March 2010
Product Reference:	161-0100-0108
Document Status:	Released

Table of Contents

1	IEC 61850 Protocol Implementation Conformance Statement	3
1.1	ACSI Basic conformance	3
1.1.1	Client-Server Roles	3
1.1.2	Specific Communication Service Mapping (SCSM) supported.....	3
1.1.3	Generic substation event model (GSE).....	3
1.1.4	Transmission of sampled value model (SVC).....	3
1.2	ACSI Models conformance	4
1.2.1	If Server side (B11) is supported.....	4
1.2.2	Reporting (Buffered & Unbuffered)	5

1 IEC 61850 Protocol Implementation Conformance Statement

Protocol Implementation Conformance Statements (PICS) contain information regarding the Abstract Communication Service Interface (ACSI) {IEC61850-7-2 First edition 2003-05} components that may be tested. This tick list is a summary of the ACSI that has not been implemented and has been implemented by SystemCORP Pty Ltd.

1.1 ACSI Basic conformance

1.1.1 Client-Server Roles		Client/ subscriber	Server/ publisher
B11	Server side of two party application association	<input type="checkbox"/>	<input checked="" type="checkbox"/>
B12	Client side of two party application association	<input checked="" type="checkbox"/>	<input type="checkbox"/>

1.1.2 Specific Communication Service Mapping (SCSM) supported		Client/ subscriber	Server/ publisher
B21	IEC 61850-8-1 (MMS and GOOSE)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B22	IEC 61850-9-1 (Sample value over point to point link)	<input type="checkbox"/>	<input type="checkbox"/>
B23	IEC 61850-9-2 (Sample value over Ethernet)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B24	Other	<input type="checkbox"/>	<input type="checkbox"/>

1.1.3 Generic substation event model (GSE)		Client/ subscriber	Server/ publisher
B31	Publisher side	<input type="checkbox"/>	<input checked="" type="checkbox"/>
B32	Subscriber side	<input checked="" type="checkbox"/>	<input type="checkbox"/>

1.1.4 Transmission of sampled value model (SVC)		Client/ subscriber	Server/ publisher
B41	Publisher side	<input type="checkbox"/>	<input checked="" type="checkbox"/>
B42	Subscriber side	<input checked="" type="checkbox"/>	<input type="checkbox"/>

1.2 ACSI Models conformance

1.2.1 If Server side (B11) is supported		Client/ subscriber	Server/ publisher
M1	Logical Device	<input type="checkbox"/>	<input checked="" type="checkbox"/>
S5	<i>LogicalDeviceDirectory</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
M2	Logical Node	<input type="checkbox"/>	<input checked="" type="checkbox"/>
S6	<i>LogicalNodeDirectory</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
S7	<i>GetAllDataValues</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
M3	Data	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
S8	<i>GetDataValues</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
S9	<i>SetDataValues</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
S10	<i>GetDataDirectory</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
S11	<i>GetDataDefinition</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
M4	Data Set	<input type="checkbox"/>	<input checked="" type="checkbox"/>
S12	<i>GetDataSetValues</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
S13	<i>SetDataSetValues</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
S14	<i>CreateDataSet</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
S15	<i>DeleteDataSet</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
S16	<i>GetDataSetDirectory</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
M5	Substitution	<input type="checkbox"/>	<input checked="" type="checkbox"/>
M6	Setting group control	<input type="checkbox"/>	<input type="checkbox"/>
S18	<i>SelectActiveSG</i>	<input type="checkbox"/>	<input type="checkbox"/>
S19	<i>SelectEditSG</i>	<input type="checkbox"/>	<input type="checkbox"/>
S20	<i>SetEditSGValue</i>	<input type="checkbox"/>	<input type="checkbox"/>
S21	<i>ConfirmEditSGValues</i>	<input type="checkbox"/>	<input type="checkbox"/>
S22	<i>GetEditSGValue</i>	<input type="checkbox"/>	<input type="checkbox"/>
S23	<i>GetSGCBValues</i>	<input type="checkbox"/>	<input type="checkbox"/>

1.2.2 Reporting (Buffered & Unbuffered)		Client/ subscriber	Server/ publisher
M7	Buffered Report Control	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
M7-1	Sequence-numbered	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
M7-2	Logical Node	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
M7-3	report-time-stamp	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
M7-4	data-set-name	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
M7-5	data-reference	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
M7-6	buffer-overflow	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
M7-7	entryID	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
M7-8	BufTm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
M7-9	IntgPd	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
M7-10	GI	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
M7-11	Configuration-revision	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
S24	<i>Report</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
S25	<i>GetBRCBValues</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
S26	<i>SetBRCBValues</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
M8	Unbuffered report control	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
M8-1	sequence-number	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
M8-2	report-time-stamp	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
M8-3	reason-for-inclusion	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
M8-4	data-set-name	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
M8-5	data-reference	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
M8-6	BufTm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
M8-7	IntgPd	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
M8-8	GI	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
M8-9	conf-revision	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
S24	<i>Report</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
S25	<i>GetURCBValues</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
S26	<i>SetURCBValues</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

1.2.2.1 Logging		Client/ subscriber	Server/ publisher
M9	Log control	<input type="checkbox"/>	<input checked="" type="checkbox"/>
M9-1	IntgPd	<input type="checkbox"/>	<input checked="" type="checkbox"/>
S30	GetLCBValues	<input type="checkbox"/>	<input checked="" type="checkbox"/>
S31	SetLCBValues	<input type="checkbox"/>	<input checked="" type="checkbox"/>
M10	Log	<input type="checkbox"/>	<input checked="" type="checkbox"/>
S32	QueryLogByTime	<input type="checkbox"/>	<input type="checkbox"/>
S33	QueryLogAfter	<input type="checkbox"/>	<input type="checkbox"/>
S34	GetLogStatusValues	<input type="checkbox"/>	<input type="checkbox"/>

1.2.2.2 Control		Client/ subscriber	Server/ publisher
M11	Control	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
S51	Select	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
S52	SelectWithValue	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
S53	Cancel	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
S54	Operate	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
S55	Command-Termination	<input type="checkbox"/>	<input type="checkbox"/>
S56	TimeActivated-Operate	<input type="checkbox"/>	<input type="checkbox"/>

1.2.2.3 GOOSE		Client/ subscriber	Server/ publisher
M12	GOOSE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
S35	SendGOOSEMessage	<input type="checkbox"/>	<input checked="" type="checkbox"/>
S36	GetGoReference	<input type="checkbox"/>	<input checked="" type="checkbox"/>
S37	GetGOOSEElementNumber	<input type="checkbox"/>	<input checked="" type="checkbox"/>
S38	GetGoCBValues	<input type="checkbox"/>	<input checked="" type="checkbox"/>
S39	SetGoCBValues	<input type="checkbox"/>	<input checked="" type="checkbox"/>
M12-1	entryID	<input type="checkbox"/>	<input checked="" type="checkbox"/>
M12-2	DataRefinc	<input type="checkbox"/>	<input checked="" type="checkbox"/>

1.2.2.4 GSSE		Client/ subscriber	Server/ publisher
M13	GSSE	<input type="checkbox"/>	<input type="checkbox"/>
S40	<i>SendGSSEMessage</i>	<input type="checkbox"/>	<input type="checkbox"/>
S41	<i>GetGsReference</i>	<input type="checkbox"/>	<input type="checkbox"/>
S42	<i>GetGSSEElementNumber</i>	<input type="checkbox"/>	<input type="checkbox"/>
S43	<i>GetGsCBValues</i>	<input type="checkbox"/>	<input type="checkbox"/>
S44	<i>SetGsCBValues</i>	<input type="checkbox"/>	<input type="checkbox"/>

1.2.2.5 Multicast SVC		Client/ subscriber	Server/ publisher
M14	Multicast SVC	<input type="checkbox"/>	<input checked="" type="checkbox"/>
S45	<i>SendMSVMessage</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
S46	<i>GetMSVCBValues</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
S47	<i>SetMSVCBValues</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

1.2.2.6 Unicast SVC		Client/ subscriber	Server/ publisher
M15	Unicast SVC	<input type="checkbox"/>	<input checked="" type="checkbox"/>
S48	<i>SendUSVMessage</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
S49	<i>GetUSVCBValues</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
S50	<i>SetUSVCBValues</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

1.2.2.7 Time		Client/ subscriber	Server/ publisher
M16	Time	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

1.2.2.8 File Transfer		Client/ subscriber	Server/ publisher
M17	File Transfer	<input type="checkbox"/>	<input type="checkbox"/>
S57	<i>GetFile</i>	<input type="checkbox"/>	<input type="checkbox"/>
S58	<i>SetFile</i>	<input type="checkbox"/>	<input type="checkbox"/>
S59	<i>DeleteFile</i>	<input type="checkbox"/>	<input type="checkbox"/>
S60	<i>GetFileAttributeValues</i>	<input type="checkbox"/>	<input type="checkbox"/>