IEC 61850 MMS Client PICS for the MGate 5192

1   Description

The following ACSI conformance statements provide an overview and details about the IEC 61850 protocol module in the MGate 5192 Series:

- ACSI basic conformance statement

- ACSI models conformance statement

- ACSI service conformance statement

Table Entries

The statements specify the communication features mapped to IEC 61850-8-1 Edition 2.0.

Y	Supported
N	Not supported
−	Not applicable, because of prerequisite features or conditions that are not supported or not present.

2   ACSI Basic Conformance Statement

Client-server roles		Client/ subscriber	Server/ publisher	Value/ comments
	Description			
B11	**Server** side (of TWO-PARTY-APPLICATION-ASSOCIATION)	−		
B12	**Client** side of (TWO-PARTY-APPLICATION-ASSOCIATION)	Y	−	
SCSMs supported				
B21	**SCSM**: IEC 61850-8-1 used	Y		
B22	**SCSM**: IEC 61850-9-1 used	−	−	Deprecated
B23	**SCSM**: IEC 61850-9-2 used	N		
B24	**SCSM**: other	N		
Generic substation event model (GSE)				
B31	**Publisher** side	−		
B32	**Subscriber** side	N	−	
Transmission of sampled value model (SVC)				
B41	**Publisher** side	−		
B42	**Subscriber** side	N	−	

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3 ACSI Models Conformance Statement

	Description	Client/ subscriber	Server/ publisher	Value/ comments
If Server side (B11) and/or Client side (B12) supported				
M1	Logical device	Y		
M2	Logical node	Y		
M3	Data	Y		
M4	Data set	Y		
M5	Substitution	N		
M6	Setting group control	N		
Reporting				
M7	Buffered report control	Y		
M7-1	sequence-number	Y		
M7-2	report-time-stamp	Y		
M7-3	reason-for-inclusion	Y		
M7-4	data-set-name	Y		
M7-5	data-reference	Y		
M7-6	buffer-overflow	Y		
M7-7	entryID	Y		
M7-8	BufTm	Y		
M7-9	IntgPd	Y		
M7-10	GI	Y		
M7-11	conf-revision	Y		
M8	Unbuffered report control			
M8-1	sequence-number	Y		
M8-2	report-time-stamp	Y		
M8-3	reason-for-inclusion	Y		
M8-4	data-set-name	Y		
M8-5	data-reference	Y		
M8-6	BufTm	Y		
M8-7	IntgPd	Y		
M8-8	GI	Y		
M8-9	conf-revision	Y		
Logging				
M9	Log control	N		
M9-1	IntgPd	N		
M10	Log	N		
M11	Control	Y		
If GSE (B31/B32) is supported				
M12	GOOSE	N		
M13	GSSE	N		Deprecated
If SVC (B41/B42) is supported				
M14	Multicast SVC	N		
M15	Unicast SVC	N		
For all IEDs				
M16	Time	Y		Time source with required accuracy shall be available
M17	File Transfer	N		

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4   ACSI Service Conformance Statement

Server					
	ACSI Services	**AA: TP/MC**	**Client/ subscriber**	**Server/ publisher**	**Comments**
S1	GetServerDirectory	TP	Y		

Application association					
S2	Associate	TP	Y		
S3	Abort	TP	Y		
S4	Release	TP	Y		

Logical device					
S5	GetLogicalDeviceDirectory	TP	N		

Logical node					
S6	GetLogicalNodeDirectory	TP	N		
S7	GetAllDataValues	TP	N		

Data					
S8	GetDataValues	TP	Y		
S9	SetDataValues	TP	N		
S10	GetDataDirectory	TP	N		
S11	GetDataDefinition	TP	N		

Data set					
S12	GetDataSetValues	TP	N		
S13	SetDataSetValues	TP	N		
S14	CreateDataSet	TP	N		
S15	DeleteDataSet	TP	N		
S16	GetDataSetDirectory	TP	N		

Setting group control					
	Services	**AA: TP/MC**	**Client/ subscriber**	**Server/ publisher**	**Comments**
S18	SelectActiveSG	TP	N		
S19	SelectEditSG	TP	N		
S20	SetEditSGValue	TP	N		
S21	ConfirmEditSGValues	TP	N		
S22	GetEditSGValue	TP	N		
S23	GetSGCBValues	TP	N		

Reporting					
Buffered report control block (BRCB)					
S24	Report	TP	Y		
S24-1	data-change (dchg)		Y		
S24-2	qchg-change (qchg)		Y		
S24-3	data-update (dupd)		Y		
S25	GetBRCBValues	TP	N		
S26	SetBRCBValues	TP	Y		
Buffered report control block (BRCB)					
S27	Report	TP	Y		
S27-1	data-change (dchg)		Y		
S27-2	qchg-change (qchg)		Y		
S27-3	data-update (dupd)		Y		
S28	GetURCBValues	TP	N		

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S29	SetURCBValues	TP	Y		

Logging					
Log control block					
S30	GetLCBValues	TP	N		
S31	SetLCBValues	TP	N		
Log					
S32	QueryLogByTime	TP	N		
S33	QueryLogAfter	TP	N		
S34	GetLogStatusValues	TP	N		

Generic substation event model (GSE)					
	Services	**AA: TP/MC**	**Client/ subscriber**	**Server/ publisher**	**Comments**
GOOSE					
S35	SendGOOSEMessage	MC	N		
S36	GetGoReference	TP	N		
S37	GetGOOSEElementNumber	TP	N		
S38	GetGOCBValues	TP	N		
S39	SetGOCBValues	TP	N		
GSSE					
S40	SendGSSEMessage	MC	N		
S41	GetGsReference	TP	N		
S42	GetGSSEDataOffset	TP	N		
S43	GetGsCBValues	TP	N		
S44	SetGsCBValues	TP	N		

Transmission of sampled value model (SVC)					
Multicast SVC					
S45	SendMSVMessage	MC	N		
S46	GetMSVCBValues	TP	N		
S47	SetMSVCBValues	TP	N		
Unicast SVC					
S48	SendUSVMessage	TP	N		
S49	GetUSVCBValues	TP	N		
S50	SetUSVCBValues	TP	N		

Control					
S51	Select		Y		
S52	SelectWithValue	TP	N		
S53	Cancel	TP	N		
S54	Operate	TP	Y		
S55	Command-Termination	TP	N		
S56	TimeActivated-Operate	TP	N		

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File transfer					
	Services	**AA: TP/MC**	**Client/ subscriber**	**Server/ publisher**	**Comments**
S57	GetFile	TP	N		
S58	SetFile	TP	N		
S59	DeleteFile	TP	N		
S60	GetFileAttributeValues	TP	N		

Time					
T1	Time resolution of internal clock		N		
T2	Time accuracy of internal clock		N		
T3	Supported TimeStamp resolution		N		