



Centro de Pesquisas de Energia Elétrica

Grupo Eletrobrás

**Protocolo
TASE.2/ICCP-MMS
no SAGE**

(PICS TASE.2 - MMS e OSI)

scadaems



OUTUBRO - 2012



Protocolo TASE.2/ICCP-MMS no SAGE

TASE.2 Protocol Implementation Conformance Statement (I) (PICS ou Profile)

Base	Base Standard
F/S	Functional Standard
m	mandatory
o	optional
c	conditional
x	excluded
l	outside the scope
Y	implementado no SAGE

Table A.1 -Client/Server Capability

PICS Proforma Reference	Capability	Base	F/S
I. /1	Client control centre		o.1Y
I. /2	Server control centre		o.1Y

Table A.2 -TASE.2 CBBs

PICS Proforma Reference	Conformance building block	Base	F/S	
			Client-CR	Server-CR
I. /1	Basic Services	m	mY	mY
I. /2	Extended Conditions	o	oY	oY
I. /3	Blocked Transfers	o	oY	oY
I. /4	Information Message	o	oY	oY
I. /5	SBO Device Control	o	oY	oY
I. /6	Programs	o	o	o
I. /7	Events	o	oY	oY
I. /8	Accounts	o	o	o
I. /9	Time Series	o	o	o



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TASE.2 Protocol Implementation Conformance Statement (II)

Table A.3 - Association Management

PICS Proforma Reference	Association Management	Base	F/S	
			Client-CR	Server-CR
I. /1	Supported Features	m ¹	m ¹ Y	m ¹ Y
I. /2	QOS	o	o	o
I. /3	Associate Operation	m ¹	m ¹ Y	m ¹ Y
I. /4	Conclude Operation	m ¹	m ¹ Y	m ¹ Y
I. /5	Abort Operation	m ¹	m ¹ Y	m ¹ Y

Table A.4 - Data Value

PICS Proforma Reference	Data Values	Base	F/S	
			Client-CR	Server-CR
I. /1	Data Value Model	m ¹	m ¹ Y	m ¹ Y
I. /2	VCC-specific scope**	o	m ¹ Y	o Y
I. /3	ICC-specific scope**	o	m ¹ Y	o Y
I. /4	Get Data Value Operation	o, m ¹	o Y	m ¹ Y
I. /5	Set Data Value Operation	o, m ¹	o	m ¹ Y
I. /6	Get Data Value Names Operation	o, m ¹	o Y	m ¹ Y
I. /7	Get Data Value Type Operation	o, m ¹	o	m ¹ Y
I. /8	IndicationPoint Object	m ¹ , m ¹	m ¹ Y	m ¹ Y
I. /9	ControlPoint Object	m ⁵ , m ⁵	m ⁵ Y	m ⁵ Y
I. /10	ProtectionEquipmentEvent Object	o, o	o	o

**Note: Either VCC-specific or ICC-specific scope must be supported by servers for block 1.



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TASE.2 Protocol Implementation Conformance Statement (III)

Table A.5 - Data Sets

PICS Proforma Reference	Data Sets	Base	F/S	
			Client-CR	Server-CR
I. /1	Data Set Model	m ¹	m ¹ Y	m ¹ Y
I. /2	VCC-specific scope**	o	m ¹	o
I. /3	ICC-specific scope**	o	m ¹ Y	o Y
I. /4	Create Data Set Operation	o	o Y	o Y
I. /5	Delete Data Set Operation	o	o Y	o Y
I. /6	Get Data Set Element Values Operation	o, m ¹	o Y	m ¹ Y
I. /7	Set Data Set Element Values Operation	o, m ¹	o	m ¹ Y
I. /8	Get Data Set Names Operation	o, m ¹	o	m ¹ Y
I. /9	Get Data Set Element Names Operation	o, m ¹	o	m ¹ Y

**Note: Either VCC-specific or ICC-specific scope must be supported by servers for block 1.

Table A.6 - Accounts

PICS Proforma Reference	Accounts	Base	F/S	
			Client-CR	Server-CR
I. /1	Account Model	m ⁸	m ⁸	m ⁸
I. /2	Query Operation	m ⁸	m ⁸	m ⁸



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TASE.2 Protocol Implementation Conformance Statement (IV)

Table A.7 - DS Transfer Sets

PICS Proforma Reference	DS Transfer Sets	Base	F/S	
			Client-CR	Server-CR
I. /1	Data Set Transfer Set Model	m ¹	m ¹ Y	m ¹ Y
I. /2	Start Transfer Operation	m ¹	m ¹ Y	m ¹ Y
I. /3	Stop Transfer Operation	m ¹	m ¹	m ¹ Y
I. /4	Get Next DS Transfer Set Operation	m ¹	m ¹ Y	m ¹ Y
I. /5	IntervalTimeOut	o, m ¹	o Y	m ¹ Y
I. /6	ObjectChange	o, m ²	o Y	m ² Y
I. /7	OperatorRequest**	o, m ¹	o	m ¹ Y
I. /8	IntegrityTimeout	o, m ²	o Y	m ² Y
I. /9	OtherExternalEvent**	o, m ¹	o	m ¹ Y
I. /10	EventCodeRequested**	o, m ¹	o	m ¹ Y
I. /11	Start Time	m ¹	m ¹	m ¹ Y
I. /12	Interval	m ¹	m ¹ Y	m ¹ Y
I. /13	TLE	o, m ²	o	m ² Y
I. /14	Buffer Time	o, m ²	o Y	m ² Y
I. /15	Integrity Check	o, m ²	o Y	m ² Y
I. /16	DS Conditions Requested	o, m ¹	o Y	m ¹ Y
I. /17	Block Data	o, m ³	o Y	m ³ Y
I. /18	Critical	o, m ²	o Y	m ² Y
I. /19	RBE	o, m ²	o Y	m ² Y
I. /20	All Changes Reported**	o	o Y	o Y

**Servers must support the processing of these parameters. This does not imply the presence of the application.



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TASE.2 Protocol Implementation Conformance Statement (V)

Table A.8 - Time Series Transfer Set Objects

PICS Proforma Reference	Time Series Transfer Set Objects	Base	F/S	
			Client-CR	Server-CR
I. /1	Time Series Transfer Set Model	m ⁹	m ⁹	m ⁹
I. /2	Get Next TSTransfer Set Operation	m ⁹	m ⁹	m ⁹
I. /3	EndTimeArrived	o,m ⁹	o	m ⁹
I. /4	ReportIntervalTimeOut	o,m ⁹	o	m ⁹
I. /5	OperatorRequest	o,m ⁹	o	m ⁹

Table A.9 - Transfer Account Transfer Set Objects

PICS Proforma Reference	Transfer Account Transfer Set Objects	Base	F/S	
			Client-CR	Server-CR
I. /1	Transfer Account Transfer Set Model	m ⁸	m ⁸	m ⁸
I. /2	BeforeTheHour	o,m ⁸	o	m ⁸
I. /3	DispatchUpdate	o,m ⁸	o	m ⁸
I. /4	DuringTheHour	o,m ⁸	o	m ⁸
I. /5	AfterTheHour	o,m ⁸	o	m ⁸
I. /6	ActualDataUpdate	o,m ⁸	o	m ⁸
I. /7	PastHours	o,m ⁸	o	m ⁸
I. /8	ObjectChange	o,m ⁸	o	m ⁸
I. /9	OperatorRequest	o,m ⁸	o	m ⁸



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TASE.2 Protocol Implementation Conformance Statement (VI)

Table A.10 – Information Message Objects

PICS Proforma Reference	Special Transfer Set Objects	Base	F/S	
			Client-CR	Server-CR
I. /1	Information Message Transfer Set Model	m ⁴	Y m ⁴	Y m ⁴
I. /2	Information Buffer Object	m ⁴	Y m ⁴	Y m ⁴

Table A.11 - Special Transfer Set Objects

PICS Proforma Reference	Special Transfer Set Objects	Base	F/S	
			Client-CR	Server-CR
I. /1	Transfer Set Name	o,m ¹	o Y	m ¹ Y
I. /2	Next DSTransfer Set	o	o Y	o Y
I. /3	Next TSTransfer Set	o	o	o
I. /4	Event Code	o,m ¹	o	m ¹ Y
I. /5	DSConditionsDetected	o,m ¹	o Y	m ¹ Y
I. /6	TSCConditionsDetected	o,m ¹	o	m ¹
I. /7	TACConditionsDetected	o,m ¹	o	m ¹
I. /8	Transfer Set Time Stamp	o,m ¹	o Y	m ¹ Y



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TASE.2 Protocol Implementation Conformance Statement (VII)

Table A.12 - SBO Devices

PICS Proforma Reference	Devices	Base	F/S	
			Client-CR	Server-CR
I. /1	Device Model	m ⁵	m ⁵ Y	m ⁵ Y
I. /2	Select Operation	m ⁵	m ⁵ Y	m ⁵ Y
I. /3	Operate Operation	m ⁵	m ⁵ Y	m ⁵ Y
I. /4	Get Tag	o	o Y	o Y
I. /5	Set Tag	o	o Y	o Y
I. /6	Timeout Action	o,m ⁷	o Y	m ⁷ Y
I. /7	Local Reset Action	o	o Y	o
I. /8	Success Action	o,m ⁷	o Y	m ⁷ Y
I. /9	Failure Action	o,m ⁷	o Y	m ⁷ Y

Table A.13 – Programs

PICS Proforma Reference	Programs	Base	F/S	
			Client-CR	Server-CR
I. /1	Program Model	m ⁶	m ⁶	m ⁶
I. /2	Start Operation	m ⁶	m ⁶	m ⁶
I. /3	Stop Operation	m ⁶	m ⁶	m ⁶
I. /4	Resume Operation	m ⁶	m ⁶	m ⁶
I. /5	Reset Operation	m ⁶	m ⁶	m ⁶
I. /6	Reset Operation	m ⁶	m ⁶	m ⁶
I. /7	Kill Operation	m ⁶	m ⁶	m ⁶
I. /8	Get Program Attributes Operation	o,m ⁶	o	m ⁶



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TASE.2 Protocol Implementation Conformance Statement (VIII)

Table A.14 - Event Enrollments

PICS Proforma Reference	Event Enrollments	Base	F/S	
			Client-CR	Server-CR
I. /1	Event Enrollment Model	m ⁷	m ⁷	m ⁷
I. /2	Create Event Enrollment Operation	m ⁷	m ⁷	m ⁷
I. /3	Delete Event Enrollment Operation	o,m ⁷	o	m ⁷
I. /5	Get Event Enrollment Attributes Operation	o,m ⁷	o	m ⁷

Table A.15 - Event Conditions

PICS Proforma Reference	Event Conditions	Base	F/S	
			Client-CR	Server-CR
I. /1	Event Condition Model	m ⁷	m ⁷ Y	m ⁷ Y
I. /2	Event Notification Action	m ⁷	m ⁷ Y	m ⁷ Y

Table A.16 – Object Models

PICS Proforma Reference	Object Models	Base	F/S	
			Client-CR	Server-CR
I. /1	IndicationPoint Object	m ¹	m ¹ Y	m ¹ Y
I. /2	ControlPoint Object	m ⁵	m ⁵ Y	m ⁵ Y
I. /3	ProtectionEquipmentEvent Object	o	o	o
I. /4	InformationBuffer Object	m ⁴	m ⁴ Y	m ⁴ Y



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MMS Protocol Implementation Conformance Statement (I)

Table A.17a - Environment and general management

Ref	MMS PDU	Client-CR			
		Sending		Receiving	
		Base	F/S	Base	F/S
1	InitiateRequest	o	m Y	o	-
2	InitiateResponse	o	-	o	m Y
3	InitiateError	o	-	o	m Y
4	ConcludeRequest	o	m Y	o	m Y
5	ConcludeResponse	o	m Y	o	m Y
6	ConcludeError	o	m Y	o	m Y
7	CancelRequest	o	i	o	i
8	CancelResponse	o	i	o	i
9	CancelError	o	i	o	i
10	Reject	m	m Y	m	m Y

Table A.17b

Ref	MMS PDU	Server-CR			
		Sending		Receiving	
		Base	F/S	Base	F/S
1	InitiateRequest	o	-	m	m Y
2	InitiateResponse	m	m Y	o	-
3	InitiateError	m	m Y	o	-
4	ConcludeRequest	o	m Y	m	m Y
5	ConcludeResponse	m	m Y	o	m Y
6	ConcludeError	m	m Y	o	m Y
7	CancelRequest	o	i	o	i Y
8	CancelResponse	o	i	o	i Y
9	CancelError	o	i	o	i Y
10	Reject	m	m Y	m	m Y

NOTE - Abort service is provided by ACSE.



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MMS Protocol Implementation Conformance Statement (II)

Table A.18 -MMS Modifiers

Ref	Modifier	Client-CR		Server-CR	
		Base	F/S	Base	F/S
1	attachToEventCondition	o	i	o	i
2	attachToSemaphore	o	i	o	i

Table A.19 - Parameter CBBs

Ref	Parameter CBB	Base	Client-CR		Server-CR	
			F/S	Value/Ref	F/S	Value/Ref
1	str1	m	m Y		m Y	
2	str2	m	m Y		m Y	
3	vnam	m	m Y		m Y	
4	valt	o	o		o	
5	vadr	o	i		i Y	
6	vsca	o	i		i	
7	tpy	o	i		i	
8	vlis	m	m Y		m Y	
9	real	o	i		i	
10	akec	o	x		x	
11	cei	o	i		i	

NOTE - akec has been removed from the base standards.



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MMS Protocol Implementation Conformance Statement (III)

Table A.20 -VMD Support

Ref	MMS PDU	Client-CR		Server-CR	
		Base	F/S	Base	F/S
1	Status	o	i	o	i
2	UnsolicitedStatus	o	i	o	i
3	GetNameList	o	o Y	o	m Y
4	Identify	o	o Y	m	m Y
5	Rename	o	i	o	i
6	GetCapabilityList	o	i	o	i

Table A.21 -Domain Management

Ref	MMS PDU	Client-CR		Server-CR	
		Base	F/S	Base	F/S
1	InitiateDownloadSequence	o	i	o	i
2	DownloadSegment	o	i	o	i
3	TerminateDownloadSequence	o	i	o	i
4	InitiateUploadSequence	o	i	o	i
5	UploadSegment	o	i	o	i
6	TerminateUploadSequence	o	i	o	i
7	RequestDomainDownload	o	i	o	i
8	RequestDomainUpload	o	i	o	i
9	LoadDomainContent	o	i	o	i
10	StoreDomainContent	o	i	o	i
11	DeleteDomain	o	i	o	i
12	GetDomainAttributes	o	i	o	i



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MMS Protocol Implementation Conformance Statement (IV)

Table A.22 -Program Invocation Management

Ref	MMS PDU	Client-CR		Server-CR	
		Base	F/S	Base	F/S
1	CreateProgramInvocation	o	i	o	i
2	DeleteProgramInvocation	o	i	o	i
3	Start	o	c2*	o	c2
4	Stop	o	c2	o	c2
5	Resume	o	c2	o	c2
6	Reset	o	c2	o	c2
7	Kill	o	c2	o	c2
8	GetProgramInvocationAttributes	o	c2	o	c2

*c2: if the TASE.2 CBB Block 6 - Programs is supported, then "m", else "i".

Table A.23 -Variable Access

Ref	MMS PDU	Client-CR		Server-CR	
		Base	F/S	Base	F/S
1	Read	o	m Y	o	m Y
2	Write	o	m Y	o	m Y
3	InformationReport	o	m Y	o	m Y
4	GetVariableAccessAttributes	o	m	o	m Y
5	DefineNamedVariable	o	i	o	i
6	DefineScatteredAccess	o	i	o	i
7	GetScatteredAccessAttributes	o	i	o	i
8	DeleteVariableAccess	o	i	o	i
9	DefineNamedVariableList	o	m Y	o	m Y
10	GetNamedVariableListAttribute	o	m	o	m Y
11	DeleteNamedVariableList	o	m Y	o	m Y
12	DefineNamedType	o	i	o	i
13	GetNamedTypeAttributes	o	i	o	i
14	DeleteNamedType	o	i	o	i



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MMS Protocol Implementation Conformance Statement (V)

Table A.24 -Semaphore Management

Ref	MMS PDU	Client-CR		Server-CR	
		Base	F/S	Base	F/S
1	TakeControl	o	i	o	i
2	RelinquishControl	o	i	o	i
3	DefineSemaphore	o	i	o	i
4	DeleteSemaphore	o	i	o	i
5	ReportSemaphoreStatus	o	i	o	i
6	ReportPoolSemaphoreStatus	o	i	o	i
7	ReportSemaphoreEntryStatus	o	i	o	i

Table A.25 -Operator Communication

Ref	MMS PDU	Client-CR		Server-CR	
		Base	F/S	Base	F/S
1	Input	o	i	o	i
2	Output	o	i	o	i



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MMS Protocol Implementation Conformance Statement (VI)

Table A.26 -Event Management

Ref	MMS PDU	Client-CR		Server-CR	
		Base	F/S	Base	F/S
1	DefineEventCondition	o	i	o	i
2	DeleteEventCondition	o	i	o	i
3	GetEventConditionAttributes	o	i	o	i
4	ReportEventConditionStatus	o	i	o	i
5	AlterEventConditionMonitoring	o	i	o	i
6	TriggerEvent	o	i	o	i
7	DefineEventAction	o	i	o	i
8	DeleteEventAction	o	i	o	i
9	GetEventActionAttributes	o	i	o	i
10	ReportEventActionStatus	o	i	o	i
11	DefineEventEnrollment	o	c3*	o	c3
12	DeleteEventEnrollment	o	c3	o	c3
13	GetEventEnrollmentAttributes	o	c3	o	c3
14	ReportEventEnrollmentStatus	o	i	o	i
15	AlterEventEnrollment	o	i	o	i
16	EventNotification	o	c3 Y	o	c3 Y
17	AcknowledgeEventNotification	o	i	o	i
18	GetAlarmSummary	o	i	o	i
19	GetAlarmEnrollmentSummary	o	i	o	i

*c3: if the TASE.2 CBB Block 7 - Events is supported, then "m", else "i".



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MMS Protocol Implementation Conformance Statement (VII)

Table A.27 -Journal Management

Ref	MMS PDU	Client-CR		Server-CR	
		Base	F/S	Base	F/S
1	ReadJournal	o	i	o	i
2	WriteJournal	o	i	o	i
3	InitializeJournal	o	i	o	i
4	ReportJournalStatus	o	i	o	i
5	CreateJournal	o	i	o	i
6	DeleteJournal	o	i	o	i

Table A.28 -File Access

Ref	MMS PDU	Client-CR		Server-CR	
		Base	F/S	Base	F/S
1	ObtainFile	o	i	o	i



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MMS Protocol Implementation Conformance Statement (VIII)

Table A.29 -File Management

Ref	MMS PDU	Client-CR		Server-CR	
		Base	F/S	Base	F/S
1	FileOpen	o	i	o	i
2	FileRead	o	i	o	i
3	FileClose	o	i	o	i

Table A.30 -Data Exchange Management

Ref	MMS PDU	Client-CR		Server-CR	
		Base	F/S	Base	F/S
1	GetDataExchangeAttributes	o	i	o	i
2	ExchangeData	o	i	o	i

Table A.31 -Additional PDUs

Ref	MMS PDU	Client-CR		Server-CR	
		Base	F/S	Base	F/S
1	AdditionalPDU	o	i	o	i



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ACSE Protocol Implementation Conformance Statement (I)

Supported Functions

Table A.32 - Protocol Versions

PICS Proforma Ref.	Protocol Version	Client-CR		Server-CR	
		Base	F/S	Base	F/S
A.A.2/1	Version 1	0,1	Y	0,1	Y
A.A.2/2	Version 2	0,1		0,1	

Table A.34 - Technical Corrigenda Implemented

PICS Proforma Ref.	Corrigenda Implemented

Table A.33 -Other Protocol Versions

PICS Proforma Ref.	Protocol Version	Client-CR		Server-CR	
		Base	F/S	Base	F/S
A.A.2/1	Version 1	0		0	
A.A.2/2	Version 2	0		0	

Table A.35 - Global Statement of Conformance

PICS Proforma Ref.	
A.A.5/1	Are all mandatory features implemented? (yes or no)

Table A.36 - Protocol Mechanisms

PICS Proforma Ref.	Protocol Mechanism	Client-CR		Server-CR	
		Base	F/S	Base	F/S
A.A.7/1	Normal mode	0,01	mY	0,01	mY
A.A.7/2	X.410-1984 mode	0,01	i	0,01	i
A.A.7/3	Rules for extensibility	m	m	m	m
A.A.7/4	Supports operation of SessionV2	o	m	o	m



Protocolo TASE.2/ICCP-MMS no SAGE

ACSE Protocol Implementation Conformance Statement (II) Initiator / Responder Capability (I)

Table A.37 -Association Establishment Procedure

PICS Proforma Ref.	Role	Client-CR		Server-CR	
		Base	F/S	Base	F/S
A.A.6.1/1	Initiator	0,2*	mY	0,2	i
A.A.6.1/2	Responder	0,2	i	0,2	mY

*0,2: a conforming implementation shall support at least one of the roles.

Table A.38 -Normal Release Procedure

PICS Proforma Ref.	Role	Client-CR		Server-CR	
		Base	F/S	Base	F/S
A.A.6.2/1	Initiator	o	mY	o	i
A.A.6.2/2	Responder	o	i	o	mY



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ACSE Protocol Implementation Conformance Statement (III) Initiator / Responder Capability (II)

Table A.39 -Abnormal Release Procedure

PICS Proforma Ref.	Role	Client-CR		Server-CR	
		Base	F/S	Base	F/S
A.A.6.3/1	Initiator	m	mY	m	mY
A.A.6.3/2	Responder	m	mY	m	mY

Table A.40 -Functional Units

PICS Proforma Ref.	Protocol Mechanism	Client-CR		Server-CR	
		Base	F/S	Base	F/S
A.A.8/1	Normal mode	m	mY	m	mY
A.A.8/2	Authentication	m	m	m	m



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ACSE Protocol Implementation Conformance Statement (IV) Supported APDUs

Table A.41 -Supported APDUs

PICS Proforma Ref.	APDU	Status	Profile	
			Client-CR	Server-CR
A.A.9/1	A-associate-request (AARQ)	c1	m, iY	i, mY
A.A.9/2	A-associate-response (AARE)	c2	i, mY	m, iY
A.A.9/3	A-release-request (RLRQ) ¹	c3	o, mY	o, mY
A.A.9/4	A-release-response (RLRE)	c4	m, oY	m, oY
A.A.9/5	A-abort (ABRT) ¹	c5	o, mY	o, mY

Note 1: There is no requirement on either TASE.2 party to terminate an association. This means that it is possible to have an TASE.2 Client and Server where an association stops only if the underlying connection is lost.



Protocolo TASE.2/ICCP-MMS no SAGE

ACSE Protocol Implementation Conformance Statement (V) Supported APDUs Parameters (I)

Table A.42 -A-associate-request APDU

PICS Proforma Ref.	AARQ Parameter	Status	Profile	
			Client-CR	Server-CR
A.A.10.1/1	Protocol version	c, m		Y
A.A.10.1/2	Application context name	m	Y	Y
A.A.10.1/3	Calling AP title	o, m	Y	Y
A.A.10.1/4	Calling AE qualifier	o, m	Y	Y
A.A.10.1/5	Calling AP invocation-id	o, m		Y
A.A.10.1/6	Calling AE invocation-id	o, m		Y
A.A.10.1/7	Called AP title	o, m	Y	Y
A.A.10.1/8	Called AE qualifier	o, m	Y	Y
A.A.10.1/9	Called AP invocation-id	o, m		Y
A.A.10.1/10	Called AE invocation-id	o, m		Y
A.A.10.1/11	Implementation information	o, m	Y	Y
A.A.10.1/12	User information	o, m	Y	Y

Table A.43 -A-associate-response APDU

PICS Proforma Ref.	AARE Parameter	Status	Profile	
			Client-CR	Server-CR
A.A.10.2/1	Protocol version	c, m	Y	Y
A.A.10.2/2	Application context name	m	Y	Y
A.A.10.2/3	Responding AP title	o, m	Y	Y
A.A.10.2/4	Responding AE qualifier	o, m	Y	Y
A.A.10.2/5	Responding AP invocation-id	o, m		Y
A.A.10.2/6	Responding AE invocation-id	o, m		Y
A.A.10.2/7	Result	m	Y	Y
A.A.10.2/8	Result source diagnostic	m	Y	Y
A.A.10.2/9	Implementation information	o, m		Y
A.A.10.2/10	User information		Y	Y



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ACSE Protocol Implementation Conformance Statement (VI) Supported APDUs Parameters (II)

Table A.44 -A-release-request APDU

PICS Proforma Ref.	RLRQ Parameter	Status	Profile	
			Client-CR	Server-CR
A.A.10.3/1	Reason	o, m		Y
A.A.10.3/2	User information	o, m	Y	Y

Table A.45 -A-release-response APDU

PICS Proforma Ref.	RLRE Parameter	Status	Profile	
			Client-CR	Server-CR
A.A.10.4/1	Reason	o, m		Y
A.A.10.4/2	User information	o, m	Y	Y

Table A.46 -Abort APDU

PICS Proforma Ref.	ABRT Parameter	Status	Profile	
			Client-CR	Server-CR
A.A.10.5/1	Reason	m		Y
A.A.10.5/2	User information	o, m	Y	Y



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ACSE Protocol Implementation Conformance Statement (VII)

Supported Parameters Forms

Table A.47 - AE Title Syntax Name-Form

PICS Proforma Ref.	Syntax Form	Sending		Receiving	
		Base	F/S	Base	F/S
A.A.11/1	Form 1 (Directory Name)	o	i	m	m
A.A.11/2	Form 2 (Object Id and Integer)	o	mY	m	mY

Table A.48 - Authentication Value Form

PICS Proforma Ref.	Authentication Value Form	Status	Profile	
			Client-CR	Server-CR
A.A.11.2/1	GraphicString		o	o
A.A.11.2/2	BIT STRING		o	o
A.A.11.2/3	EXTERNAL		o	o
A.A.11.2/4	Other		o	o



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Presentation Protocol Implementation Conformance Statement

Table A.49 - Presentation PRL

PICS Proforma Ref.	Name of Item	Status	Profile	
			Client-CR	Server-CR
P.A.5.1/1	X.410 (1984)	o.01	i	i
P.A.5.1/2	Normal	o.01	mY	mY
P.A.5.2/1	Kernel functional unit		Y	Y
P.A.5.2/2	Presentation Context Management functional unit		Y	Y
P.A.5.2/3	Presentation Context Restoration functional unit			
P.A.6.1.1.1/1	Initiator (presentation connection)	o.03	C21Y	C21
P.A.6.1.1.1/2	Responder (presentation connection)	o.03	C22	C22Y
P.A.6.1.1.2/1	Requestor (normal data)		Y	
P.A.6.1.1.2/2	Acceptor (normal data)			Y
P.A.6.1.1.3/1	Requestor (orderly release)	o.05	Y	C23Y
P.A.6.1.1.3/2	Acceptor (orderly release)	o.05	Y	C24Y

- C21: m if the implementation supports the MMS Initiate service in the requestor role, o otherwise
- C22: m if the implementation supports the MMS Initiate service in the responder role, o otherwise
- C23: m if the implementation supports the MMS Conclude service in the requestor role, o otherwise
- C24: m if the implementation supports the MMS Conclude service in the responder role, o otherwise



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Session Protocol Implementation Conformance Statement (I)

Table A.50 - Session PRL (1 of 2)

PICS Proforma Ref.	Name of Item	Status	Profile	
			Client-CR	Server-CR
S.A.3.1/2	Version 2	o.1	mY	mY
S.A.6.1/4	Duplex	o.2	mY	mY
S.A.6.2/2	Reuse of transport connection	o	i	i
S.A.6.2/4	Extended Concatenation (sending)	o	i	i
S.A.6.2/5	Extended Concatenation (receiving)	o	i	i
S.A.7.1.1.1	Initiator (session connection)	o.3	C21Y	C21
S.A.7.1.1.1	Responder (session connection)	o.3	C22	C22Y
S.A.7.1.1.2	Requestor (orderly release)	o.4	C23Y	C23Y
S.A.7.1.1.2	Acceptor (orderly release)	o.4	C24Y	C24Y
S.A.7.1.1.3	Requestor (normal data transfer)	o.5	mY	mY
S.A.7.1.1.3	Acceptor (normal data transfer)	o.5	mY	mY
S.A.7.1.2/2	Overflow Accept (OA)	C5,C6	i	i
S.A.7.1.2/3	Connect Data Overflow (CDO)	C6,C5	i	i
S.A.7.5.1/1	Requestor (expedited data)	o.6	-	-
S.A.7.5.1/2	Acceptor (expedited data)	o.6	-	-
S.A.7.6.1/1	Requestor (typed data)	o.7	-	-
S.A.7.6.1/2	Acceptor (typed data)	o.7	-	-
S.A.7.7.1/1	Requestor (capability data)	o.8	-	-
S.A.7.7.1/2	Acceptor (capability data)	o.8	-	-
S.A.7.8.1/1	Requestor (minor synchronize)	o.9	-	-
S.A.7.8.1/2	Acceptor (minor synchronize)	o.9	-	-
S.A.7.10.1/	Requestor (major synchronize)	o.10	-	-
S.A.7.10.1/	Acceptor (major synchronize)	o.10	-	-



Protocolo TASE.2/ICCP-MMS no SAGE

Session Protocol Implementation Conformance Statement (II)

Table A.50 - Session PRL (2 of 2)

PICS Proforma Ref.	Name of Item	Status	Profile	
			Client-CR	Server-CR
S.A.7.13.1	Requestor (activity start)	o.12	-	-
S.A.7.13.1	Acceptor (activity start)	o.12	-	-
S.A.7.13.1	Requestor (activity resume)	o.13	-	-
S.A.7.13.1	Acceptor (activity resume)	o.13	-	-
S.A.7.13.1	Requestor (activity interrupt)	o.14	-	-
S.A.7.13.1	Acceptor (activity interrupt)	o.14	-	-
S.A.7.13.1	Requestor (activity discard)	o.15	-	-
S.A.7.13.1	Acceptor (activity discard)	o.15	-	-
S.A.7.13.1	Requestor (activity end)	o.16	-	-
S.A.7.13.1	Acceptor (activity end)	o.16	-	-
S.A.7.13.1	Requestor (give tokens confirm)	o	o	o
S.A.7.13.1	Acceptor (give tokens confirm)	o	o	o
S.A.8.1.3/4	Data Overflow Item	c6,c5	i	i
S.A.8.2/1	TSDU Maximum Size (OA)	c64,c65	i	i
S.A.8.2/2	Version Nuber (OA)	c66,c67	i	i
S.A.8.3/1	Enclosure Item (CDO)	c68,c69	i	i
S.A.8.3/1	User Data (CDO)	c68,c69	i	i