SyncML Implementation Conformance Statement Proforma

Version 1.0

Abstract

The SyncML Implementation Conformance Statement is designed to be used by vendors to show their level of conformance with SyncML specifications.

Note that if your product can perform as both a client and a server, you will need to fill out both sets of forms.

SyncML Initiative

The following companies are Sponsors of the SyncML Initiative:

Ericsson
IBM
Lotus
Matsushita Communications Industrial Co., Ltd.
Motorola
Nokia
Openwave
Palm, Inc.
Psion
Starfish Software
Symbian

Revision History

Revision	Date	Comments
1.0	2001-11-02	Finalized for release.

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1 Product Information

1.1   Device and Contact Information

Device Name & Version	linkUall / Sinpag luaPIMSYNCServer v 1.0
Company	Sinpag
Contact Name	Philippe Cartier
Contact Phone	+33 1 55 26 73 52
Contact Email	pcartier@sinpag.com
Transports supported	OBEX [ ] WSP [ ] HTTP [X]
Product is	Client [ ] Server [X]

1.2   Content Formats Supported

NOTE: If a server supports a data type listed below, it must also support the associated content format.

Data Type	Content Format	Supported (Y/N)
Contact	vCard 2.1	Yes
	vCard 3.0 (optional)	No
Calendar	vCalendar 1.0	No
	iCalendar 2.0 (optional)	No
Memos	text/plain	No
Tasks	vTodo 1.0	No
Email	message/rfc822	No
	message/rfc2822	No
	Message/rfc2045	No

2 Server Conformance Tables

NOTE: Server SHOULD be able to log the XML and WBXML documents sent between the server and a client.

2.1 Representation Common Use Elements

Command	Required of Server		Implemented in Server	
	Sending	Receiving	Sending	Receiving
Archive	MAY	MUST	No	Yes
Chal	MUST	MUST	Yes	Yes
Cmd	MUST	MUST	Yes	Yes
CmdID	MUST	MUST	Yes	Yes
CmdRef	MUST	MUST	Yes	Yes
Cred	MUST	MUST	Yes	Yes
Final	MUST	MUST	Yes	Yes
Lang	MAY	MAY	No	No
LocName	MAY	MAY	No	No
LocURI	MUST	MUST	Yes	Yes
MsgID	MUST	MUST	Yes	Yes
MsgRef	MUST	MUST	Yes	Yes
NoResp	MAY	MUST	No	Yes
NoResults	MAY	MAY	No	No
RespURI	MAY	MUST	No	Yes
SessionID*	MUST	MUST	Yes	Yes
SftDel	MAY	MAY	No	No
Source	MUST	MUST	Yes	Yes
SourceRef	MUST	MUST	Yes	Yes
Target	MUST	MUST	Yes	Yes
TargetRef	MUST	MUST	Yes	Yes
VerDTD	MUST	MUST	Yes	Yes
VerProto	MUST	MUST	Yes	Yes

*The maximum length of a SessionID is 4 bytes. Note that a client having an 8 bit incrementing SessionID counter is enough for practical implementations.

2.2 Representation Message container elements

Command	Required of Server		Implemented in Server	
	Sending	Receiving	Sending	Receiving
SyncML	MUST	MUST	Yes	Yes
SyncHdr	MUST	MUST	Yes	Yes
SyncBody	MUST	MUST	Yes	Yes

2.3 Data description elements

Command	Required of Server		Implemented in Server	
	Sending	Receiving	Sending	Receiving

Data	MUST	MUST	Yes	Yes
Item	MUST	MUST	Yes	Yes
Meta	MUST	MUST	Yes	Yes

2.4 Representation Protocol command elements

Command	Required of Server		Implemented in Server	
	Sending	Receiving	Sending	Receiving
Add	MUST	MUST	Yes	Yes
Alert	MUST	MUST	Yes	Yes
Atomic	MAY	MAY	No	No
Copy	MAY	MUST	No	Yes
Delete	MUST	MUST	Yes	Yes
Exec	MAY	SHOULD	No	No
Get*	MUST	MUST	Yes	Yes
Map	MAY	MUST	No	Yes
MapItem	MAY	MUST	No	Yes
Put*	MUST	MUST	Yes	Yes
Replace	MUST	MUST	Yes	Yes
Result*	MUST	MUST	Yes	Yes
Search	MAY	MAY	No	No
Sequence	MAY	MUST	No	Yes
Status	MUST	MUST	Yes	Yes
Sync	MUST	MUST	Yes	Yes

*Minimum requirement for a SyncML device is to support Put, Get, and Result when exchanging device information.

2.5 Device Info

Element Type	Required of Server		Implemented in Server	
	Sending	Receiving	Sending	Receiving
CTCap	SHOULD	MUST	No	Yes
CTType	MUST	MUST	Yes	Yes
DataStore	MUST	MUST	Yes	Yes
DataType	MAY	MUST	No	Yes
DevID	MUST	MUST	Yes	Yes
DevInf	MUST	MUST	Yes	Yes
DevTyp	MUST	MUST	Yes	Yes
DisplayName	MAY	MAY	No	No
DSMem	MAY	SHOULD	No	No
Ext	MAY	MAY	No	No
FwV	MAY	SHOULD	No	No
HwV	MAY	SHOULD	No	No
Man	MAY	SHOULD	No	No
MaxGUIDSize	MUST NOT	MUST	Yes*	Yes
MaxID	MAY	SHOULD	No	No
MaxMem	MAY	SHOULD	No	No

Mod	MAY	MAY	No	No
OEM	MAY	MAY	No	No
ParamName	SHOULD	MUST	No	Yes
PropName	SHOULD	MUST	No	Yes
Rx	MAY	MUST	No	Yes
Rx-Pref	MUST	MUST	Yes	Yes
SharedMem	SHOULD	MAY	No	No
Size	MAY	MUST	No	Yes
SourceRef	MUST	MUST	Yes	Yes
SwV	MAY	SHOULD	No	No
SyncCap	MUST	MUST	Yes	Yes
SyncType	MUST	MUST	Yes	Yes
Tx	MAY	MUST	No	Yes
Tx-Pref	MUST	MUST	Yes	Yes
ValEnum	SHOULD	MUST	No	Yes
VerCT	MUST	MUST	Yes	Yes
VerDTD	MUST	MUST	Yes	Yes
Xnam	MAY	MAY	No	No
Xval	MAY	MAY	No	No

* means not sending MaxGUIDSize

2.6 Meta Info

Element Type	Required of Server		Implemented in Server	
	Sending	Receiving	Sending	Receiving
Anchor	MUST	MUST	Yes	Yes
EMI	MAY	MAY	No	No
Format	MUST	MUST	Yes	Yes
FreeID	MAY	MUST	No	Yes
FreeMem	MAY	MUST	No	Yes
Last	MUST	MUST	Yes	Yes
Mark	MAY	MAY	No	No
MaxMsgSize	MAY	MUST	No	Yes
Mem	MAY	MUST	No	Yes
MetInf	MUST	MUST	Yes	Yes
Next	MUST	MUST	Yes	Yes
NextNonce	MUST	MUST	Yes	Yes
SharedMem	MAY	MUST	No	Yes
Size	MAY	MAY	No	No
Type	MUST	MUST	Yes	Yes
Version	MUST	MUST	Yes	Yes

2.7 Protocol

Element Type	Server Requirements	
	Required	Implemented
Support of 'two-way sync'	MUST	Yes
Support of 'slow two-way sync'	MUST	Yes

Support of 'one-way sync from client only'	MAY	No
Support of 'refresh sync from client only'	MAY	No
Support of 'one-way sync from server only'	MAY	No
Support of 'refresh sync from server only'	MAY	No
Support of 'sync alert'	MAY	No
Support of multiple messages per package	MUST	Yes
Support of combined package 1 and 3	MUST	Yes

2.8   Authentication

Authentication Type	Server Requirements	
	Required	Implemented
Basic (name and password)	MUST	Yes
MD5	MUST	Yes

2.9   MIME header types

MIME Header Type	Server Requirements	
	Required	Implemented
"application/vnd.syncml+xml"	MUST	Yes
"application/vnd.syncml+wbxml"	MUST	Yes

3 Transport Conformance

3.1 HTTP Transport

Method	Requirements	
	Required	Implemented
POST	MUST	Yes

General Headers	Requirements	
	Required	Implemented
Cache-Control: no-store, private	MUST	Yes
Transfer-Encoding: chunked	MUST	Yes

Request Headers	Requirements	
	Required	Implemented
Accept	MUST	Yes
Accept-Charset	MUST	Yes
Authorization	MUST	Yes
Proxy-Authorization	MUST if a proxy client	No
User-Agent	MUST	Yes

Response Headers	Requirements	
	Required	Implemented
Authentication-Info	MUST	Yes
Proxy-Authenticate	MUST if proxy client	No
WWW-Authenticate	MUST	Yes

4 Sinpag additional Note:

In order to comply with SyncML V1.1, the following elements are also taken into account:

Additonal elements	Requirements	
	Required	Implemented
NumberOfChanges	See SyncML Protocol V1.1	Yes
MoreData	See SyncML Protocol V1.1	Yes
MaxObjSize	See SyncML Protocol V1.1	Yes
UTC	See SyncML Protocol V1.1	Yes
SupportNumberOfChanges	See SyncML Protocol V1.1	Yes
SupportLargeObjs	See SyncML Protocol V1.1	Yes

5 References

[1]   SyncML Representation Protocol Specification

[2]   SyncML Sync Protocol

[3]   Meta Information Specification and DTD

[4]   Device Information Specification and DTD

[5]   SyncML HTTP Binding

[6]   SyncML OBEX Binding

[7]   SyncML WSP Binding