SyncML Implementation Conformance Statement

Nokia 3285 – SyncML Client

SyncML Initiative

The following companies are Sponsors of the SyncML initiative:

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

Revision History

Revision	Date	Comments
0.1	2000-11-17	1st pass
0.2	2000-12-14	Incorporate initial comments – such as adding in Protocol SCR, Authentication, and Transport section.
0.3	2001-01-15	Incorporated transport conformance tables.
0.4	2001-02-20	Corrected MIME type.
0.5	2001-03-08	Updated SCR tables to match errata. Updated Copyright.
0.6	2001-05-10	Corrected MetaInf and DevInfo tables. Added WSP table.
0.7	2001-06-01	Updated tables to match version 1.0.1 specifications.
0.8	2001-06-20	Updated media format table.

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1 Product Information

1.1 Device and Contact Information

Device Name & Version	Nokia 3285
Company	Nokia
Contact Name	George Bernhart
Contact Phone	(972) 894-4848
Contact Email	george.bernhart@nokia.com
Transports supported	OBEX [ ] WSP [ ] HTTP [X]
Product is	Client [X] Server [ ]

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	Yes
	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 Client Conformance Tables

2.1 Representation Common Use Elements

Command	Required of Client		Implemented in Client	
	Sending	Receiving	Sending	Receiving
Archive	MAY	MAY	No	No
Chal	MAY	MUST	No	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	Yes	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 Client		Implemented in Client	
	Sending	Receiving	Sending	Receiving
SyncML	MUST	MUST	Yes	Yes
SyncHdr	MUST	MUST	Yes	Yes
SyncBody	MUST	MUST	Yes	NYes

2.3 Data description elements

Command	Required of Client		Implemented in Client	
	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 Client		Implemented in Client	
	Sending	Receiving	Sending	Receiving
Add	SHOULD	MUST	No	Yes
Alert	MUST	MUST	Yes	Yes
Atomic	MAY	MAY	No	No
Copy	MAY	MAY	No	No
Delete	MUST	MUST	Yes	Yes
Exec	MAY	MAY	No	No
Get*	SHOULD	MUST	No	Yes
Map	MUST	MAY	Yes	No
MapItem	MUST	MAY	Yes	No
Put*	MUST	MUST	Yes	Yes
Replace	MUST	MUST	Yes	Yes
Result*	MUST	SHOULD	Yes	No
Search	MAY	MAY	No	No
Sequence	MAY	MAY	No	No
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 Client		Implemented in Client	
	Sending	Receiving	Sending	Receiving
CTCap	MUST	SHOULD	Yes	No
CTType	MUST	MUST	Yes	Yes
DataStore	MUST	MUST	Yes	Yes
DataType	MAY	MAY	Yes	No
DevId	MUST	MUST	Yes	Yes
DevInf	MUST	MUST	Yes	Yes
DevTyp	MUST	MUST	Yes	Yes
DisplayName	MAY	MAY	Yes	No
DSMem	SHOULD	MAY	Yes	No
Ext	MAY	MAY	No	No
FwV	SHOULD	MAY	Yes	No
HwV	SHOULD	MAY	No	No
Man	SHOULD	MAY	Yes	No
MaxGUIDSize	MUST	MUST NOT	Yes	No
MaxID	SHOULD	MAY	Yes	No
MaxMem	SHOULD	MAY	No	No
Mod	MAY	MAY	Yes	No
OEM	MAY	MAY	No	No
ParamName	SHOULD	SHOULD	No	No
PropName	MUST	SHOULD	Yes	No
Rx	MAY	MUST	No	Yes

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

2.6 Meta Info

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

2.7 Protocol

Element Type	Client 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	MAY	No

2.8   Authentication

Note that authentication is only required for SyncHdr, optional for datastore.

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

2.9   MIME header types

NOTE: the client MUST support one of the two MIME header types.

MIME Header Type	Client Requirements	
	Required	Implemented
"application/vnd.syncml+xml"	MUST if no wbxml	No
"application/vnd.syncml+wbxml"	MUST if no xml	Yes

3 Transport Conformance

3.1 HTTP Transport

Vendors should fill this section out ONLY if their product uses the HTTP Transport. The specification for HTTP Transport is fully described in **Error! Reference source not found.**.

NOTE that the tables only indicate the required data.

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	
WWW-Authenticate	MUST	YES