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SyncML Implementation Conformance Statement Proforma

Version 0.7

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

http://www.syncml.org/docs/syncml ics v07 20010601.doc

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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	1 st 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.

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1 Introduction

The purpose of this statement is to define a methodology for showing conformance with the SyncML Representation protocol 0, SyncML Sync Protocol 0 and appropriate transport. Vendors filling in this form will mark the items with either YES or NO, indicating whether the items are implemented or not. Mandatory items marked NO MUST have explanatory text.

NOTE: Server must be able to deal with with the two cases or packages 1 & 3 being sent seperately and combined.



2 **Product Information**

2.1 Device and Contact Information

Device Name & Version	Symbian OS SyncML Client v1
Company	Symbian
Contact Name	Gilad Tiefenbrun
Contact Phone	+44 (0) 20 7563 2250
Contact Email	gilad.tiefenbrun@symbian.com
Transports supported	HTTP
Product is	Client

2.2 Content Formats Supported

Note: A server MUST support these content formats only if they are supporting the data type.

Data Type	Content Format	Supported (Y/N)
Contact	vCard 2.1	Y
	vCard 3.0	Ν
Calendar	vCalendar 1.0	Y
	vCalendar 2.0	Ν
Memos	Text/plain	Ν
Tasks	vTodo 1.0	Y
Email	Message/rfc822	Ν
	message/rfc2822	Ν
	Message/rfc2045	Ν



3 Server Conformance Tables

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

3.1 Representation Common Use Elements

Command	Required	l of Server	Implemen	ted in Server
	Sending	Receiving	Sending	Receiving
Archive	MAY	MUST		
Chal	MUST	MUST		
Cmd	MUST	MUST		
CmdID	MUST	MUST		
CmdRef	MUST	MUST		
Cred	MUST	MUST		
Final	MUST	MUST		
Lang	MAY	MAY		
LocName	MAY	MAY		
LocURI	MUST	MUST		
MsgID	MUST	MUST		
MsgRef	MUST	MUST		
NoResp	MAY	MUST		
NoResults	MAY	MAY		
RespURI	MAY	MUST		
SessionID*	MUST	MUST		
SftDel	MAY	MAY		
Source	MUST	MUST		
SourceRef	MUST	MUST		
Target	MUST	MUST		
TargetRef	MUST	MUST		
VerDTD	MUST	MUST		
VerProto	MUST	MUST		

*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.

3.2 Representation Message container elements

Command	Required of Server		Implemen	ted in Server
	Sending	Receiving	Sending	Receiving
SyncML	MUST	MUST		
SyncHdr	MUST	MUST		
SyncBody	MUST	MUST		

3.3 Data description elements

Command	Required of Server		Implemented in Server	
	Sending	Sending Receiving		Receiving



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Data	MUST	MUST	
Item	MUST	MUST	
Meta	MUST	MUST	

3.4 Representation Protocol command elements

Command	Required of Server		Implemen	ted in Server
	Sending	Receiving	Sending	Receiving
Add	MUST	MUST		
Alert	MUST	MUST		
Atomic	MAY	MAY		
Сору	MAY	MUST		
Delete	MUST	MUST		
Exec	MAY	SHOULD		
Get*	MUST	MUST		
Мар	MAY	MUST		
MapItem	MAY	MUST		
Put*	MUST	MUST		
Replace	MUST	MUST		
Result*	MUST	MUST		
Search	MAY	MAY		
Sequence	MAY	MUST		
Status	MUST	MUST		
Sync	MUST	MUST		

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

3.5 Device Info

Element Type	Required of Server		Implemen	ted in Server
	Sending	Receiving	Sending	Receiving
CTCap	SHOULD	MUST		
СТТуре	MUST	MUST		
DataStore	MUST	MUST		
DataType	MAY	MUST		
DevID	MUST	MUST		
DevInf	MUST	MUST		
DevTyp	MUST	MUST		
DisplayName	MAY	MAY		
DSMem	MAY	SHOULD		
Ext	MAY	MAY		
FwV	MAY	SHOULD		
HwV	MAY	SHOULD		
Man	MAY	SHOULD		
MaxGUIDSize	MUST NOT	MUST		
MaxID	MAY	SHOULD		
MaxMem	MAY	SHOULD		
Mod	MAY	MAY		
OEM	MAY	MAY		

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ParamName	SHOULD	MUST	
PropName	SHOULD	MUST	
Rx	MAY	MUST	
Rx-Pref	MUST	MUST	
SharedMem	SHOULD	MAY	
Size	MAY	MUST	
SourceRef	MUST	MUST	
SwV	MAY	SHOULD	
SyncCap	MUST	MUST	
SyncType	MUST	MUST	
Tx	MAY	MUST	
Tx-Pref	MUST	MUST	
ValEnum	SHOULD	MUST	
VerCT	MUST	MUST	
VerDTD	MUST	MUST	
Xnam	MAY	MAY	
Xval	MAY	MAY	

3.6 Meta Info

Element Type	Required	of Server	Implemen	ted in Server
	Sending	Receiving	Sending	Receiving
Anchor	MUST	MUST		
EMI	MAY	MAY		
Format	MUST	MUST		
FreeID	MAY	MUST		
FreeMem	MAY	MUST		
Last	MUST	MUST		
Mark	MAY	MAY		
MaxMsgSize	MAY	MUST		
Mem	MAY	MUST		
MetInf	MUST	MUST		
Next	MUST	MUST		
NextNonce	MUST	MUST		
SharedMem	MAY	MUST		
Size	MAY	MAY		
Туре	MUST	MUST		
Version	MUST	MUST		

3.7 Protocol

Element Type	Server Requirements	
	Required	Implemented
Support of 'two-way sync'	MUST	
Support of 'slow two-way sync'	MUST	
Support of 'one-way sync from client only'	MAY	
Support of 'refresh sync from client only'	MAY	

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Support of 'one-way sync from server only'	МАҮ	
Support of 'refresh sync from server only'	MAY	
Support of 'sync alert'	MAY	
Support of multiple messages per package	MUST	
Support of combined package 1 and 3	MUST	

3.8 Authentication

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

3.9 MIME header types

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



4 **Client Conformance Tables**

4.1 Representation Common Use Elements

Command	Required	l of Client	Implemen	ted 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	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.

4.2 Representation Message container elements

Command	Required of Client		Implemen	ted in Client
	Sending	Receiving	Sending	Receiving
SyncML	MUST	MUST	YES	YES
SyncHdr	MUST	MUST	YES	YES
SyncBody	MUST	MUST	YES	YES

4.3 Data description elements

Command	Required of Client		Implemen	ted in Client
	Sending	Receiving	Sending	Receiving
Data	MUST	MUST	YES	YES
Item	MUST	MUST	YES	YES
Meta	MUST	MUST	YES	YES

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4.4 Representation Protocol command elements

Command	Required	l of Client	Implemen	ted in Client
	Sending	Receiving	Sending	Receiving
Add	SHOULD	MUST	YES	YES
Alert	MUST	MUST	YES	YES
Atomic	MAY	МАҮ	NO	NO
Сору	MAY	MAY	NO	NO
Delete	MUST	MUST	YES	YES
Exec	MAY	MAY	NO	NO
Get*	SHOULD	MUST	YES	YES
Мар	MUST	МАҮ	YES	NO
MapItem	MUST	MAY	YES	NO
Put*	MUST	MUST	YES	YES
Replace	MUST	MUST	YES	YES
Result*	MUST	SHOULD	YES	YES
Search	MAY	МАҮ	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.

4.5 Device Info

Element Type	Required	d of Client	Implemen	ted in Client
	Sending	Receiving	Sending	Receiving
CTCap	MUST	SHOULD	YES	NO
СТТуре	MUST	MUST	YES	YES
DataStore	MUST	MUST	YES	YES
DataType	MAY	MAY	NO	NO
DevId	MUST	MUST	YES	YES
DevInf	MUST	MUST	YES	YES
DevTyp	MUST	MUST	YES	YES
DisplayName	MAY	MAY	NO	NO
DSMem	SHOULD	MAY	YES	NO
Ext	MAY	MAY	NO	NO
FwV	SHOULD	MAY	NO	NO
HwV	SHOULD	MAY	NO	NO
Man	SHOULD	MAY	NO	NO
MaxGUIDSize	MUST	MUST NOT	YES	YES
MaxID	SHOULD	MAY	NO	NO
MaxMem	SHOULD	MAY	NO	NO
Mod	MAY	MAY	NO	NO
OEM	MAY	MAY	NO	NO
ParamName	SHOULD	SHOULD	YES	NO
PropName	MUST	SHOULD	YES	NO
Rx	MAY	MUST	NO	YES

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Rx-Pref	MUST	MUST	YES	YES
SharedMem	SHOULD	МАҮ	NO	YES
Size	MAY	MAY	NO	NO
SourceRef	MUST	MUST	YES	YES
SwV	SHOULD	MAY	NO	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

4.6 Meta Info

Element Type	Required	l of Client	Implemen	ted in Client
	Sending	Receiving	Sending	Receiving
Anchor	MUST	MUST	YES	YES
EMI	MAY	MAY	NO	NO
Format	MUST	MUST	YES	YES
FreeID	SHOULD	MAY	NO	NO
FreeMem	SHOULD	MAY	NO	NO
Last	MUST	MUST	YES	YES
Mark	MAY	MAY	NO	NO
MaxMsgSize	MAY	MUST	YES	YES
Mem	SHOULD	MAY	NO	NO
MetInf	MUST	MUST	YES	YES
Next	MUST	MUST	YES	YES
NextNonce	MAY	MUST	NO	YES
SharedMem	SHOULD	MAY	NO	NO
Size	MAY	МАҮ	NO	NO
Туре	MUST	MUST	YES	YES
Version	MAY	MAY	NO	NO

4.7 Protocol

Element Type	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

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Support of multiple messages per package	MUST	YES
Support of combined package 1 and 3	MAY	NO

4.8 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

4.9 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	YES
"application/vnd.syncml+wbxml"	MUST if no xml	NO



5 Transport Conformance

5.1 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 0.

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	NO
	proxy client	
User-Agent	MUST	YES

Response Headers	Requirements	
	Required	Implemented
Authentication-Info	MUST	YES
Proxy-Authenticate	MUST if proxy client	NO
WWW-Authenticate	MUST	YES

5.2 **OBEX Transport**

Vendors should fill this section out ONLY if their product uses the OBEX Transport. The specification for OBEX Transport is fully described in 0. Note that these definitions of client and server are the OBEX definition, not the SyncML definition.

NOTE that the tables only indicate the required data.

Method	OBEX Server Requirements	
	Required	Implemented
GET	MUST	

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PUT	MUST	
CONNECT	MUST	
DISCONNECT	MUST	
ABORT	MUST	

Method	OBEX Client Requirements	
	Required	Implemented
GET	MUST	
PUT	MUST	
CONNECT	MUST	
DISCONNECT	MUST	

5.3 WSP Transport

Vendors should fill this section out ONLY if their product uses the WSP Transport. The specification for WSP Transport is fully described in 0.

NOTE that the tables only indicate the required data.

Method	Requirements	
	Required	Implemented
POST	MUST	



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6 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