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1 of 17 Pages Version 0.5 2001-06-13

SyncML Implementation Conformance Statement Proforma

Version 0.5

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.

http://www.syncml.org/supporters/docs/syncml_ics_v05_20010309.doc

Draft

Version 0.5 2001-06-13

2 of 17 Pages

Consortium

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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.

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3 of 17 Pages

Version 0.5

Draft

2001-06-13

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4 of 17 Pages

http://www.syncml.org/supporters/docs/syncml ics v05 20010309.doc

Draft

Version 0.5 2001-06-13

Table of Contents

1	Intro	duction	5
2	Prod	luct Information	6
3	Serve	er Conformance Tables	7
	3.1	Representation Common Use Elements	7
	3.2	Representation Message container elements	
	3.3	Data description elements	7
	3.4	Representation Protocol command elements	8
	3.5	Device Info	8
	3.6	Meta Info	9
	3.7	Protocol	9
	3.8	Authentication	10
	3.9	MIME header types	10
4	Clien	nt Conformance Tables	11
	4.1	Representation Common Use Elements	11
	4.2	Representation Message container elements	11
	4.3	Data description elements	11
	4.4	Representation Protocol command elements	12
	4.5	Device Info	12
	4.6	Meta Info	13
	4.7	Protocol	13
	4.8	Authentication	14
	4.9	MIME header types	14
5	Trans	sport Conformance	15
	5.1	HTTP Transport	15
	5.2	OBEX Transport	15
	5.3	WSP Transport	16
6	Refe	rences	17



Draft

Version 0.5 2001-06-13

1 Introduction

The purpose of this statement is to define a methodology for showing conformance with the SyncML Representation protocol [1], SyncML Sync Protocol [2] 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.



Draft

Version 0.5

6 of 17 Pages

2001-06-13

2 Product Information

Device Name & Version	Neosteps Client
Company	Neosteps Inc.
Contact Name	Kyung Nyong Kim, Shi Won Ryu
Contact Phone	+82-31-712-5080
Contact Email	knkim@neostpes.com wonrs@neosteps.com
Transports supported	OBEX [] WSP [] HTTP [X]
Product is	Client [X] Server []
Datatypes product uses	vCard2.1 and vCalendar 1.0



Draft

2001-06-13

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

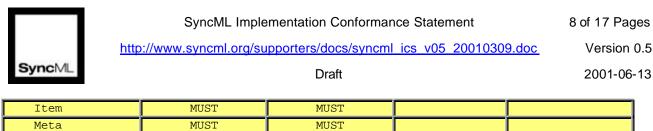
Command	Required	of Server	Implement	ted in Server
	Sending	Receiving	Sending	Receiving
Archive	MAY	MUST		
Chal	MUST	MUST		
Cmd	MUST	MUST		
CmdID	MUST	MUST		
CmdRef	MUST	MUST		
Cred	MUST	MUST		
Final	MUST	MUST		
Lang	MAY	MAY		
LocName	MAY	MAY		
LocURI	MUST	MUST		
MsgID	MUST	MUST		
MsgRef	MUST	MUST		
NoResp	MUST	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		

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	Receiving	Sending	Receiving
Data	MUST	MUST		



3.4 Representation Protocol command elements

Command	Required	l 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	МАҮ	MUST		
Status	MUST	MUST		
Sync	MUST	MUST		

3.5 Device Info

Element Type	Required	of Server	Implement	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		
FreeID	MAY	MUST		
FreeMem	MAY	MUST		
FwV	MAY	SHOULD		
HwV	MAY	SHOULD		
Man	MAY	SHOULD		
MaxGUIDSize	MUST NOT	MUST		
MaxID	MAY	SHOULD		
MaxMem	MAY	SHOULD		
Mod	MAY	MAY		
OEM	МАҮ	MAY		

9 of 17 Pages



http://www.syncml.org/supporters/docs/syncml ics v05 20010309.doc

Draft

Version 0.5 2001-06-13

ParamName	SHOULD	MUST	
PropName	SHOULD	MUST	
Rx	MAY	MUST	
Rx-Pref	MUST	MUST	
SharedMem	SHOULD	MUST	
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	
Xnam	MAY	МАҮ	
Xval	MAY	МАҮ	

3.6 Meta Info

Element Type	Required of Server		Implement	ted in Server
	Sending	Receiving	Sending	Receiving
Anchor	MUST	MUST		
Format	MUST	MUST		
Last	MUST	MUST		
Mark	MAY	MAY		
MaxMsgSize	MAY	MUST		
MetInf	MUST	MUST		
Next	MUST	MUST		
NextNonce	MUST	MUST		
Size	MAY	MAY		
Туре	MUST	MUST		
Version	MUST	MUST		

3.7 Protocol

Element Type	Server Re	equirements
	Required	Implemented
Support of 'two-way sync'	MUST	
Support of 'slow two-way sync'	MUST	
Support of 'one-way sync from client only'	МАҮ	
Support of 'refresh sync from client only'	MAY	
Support of 'one-way sync from server only'	MAY	
Support of 'refresh sync from server only'	МАҮ	
Support of 'sync alert'	MAY	
Support of multiple messages per package	MUST	
Support of combined package 1 and 3	MUST	



Draft

Version 0.5 2001-06-13

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 Implemente	
"application/vnd.syncml+xml"	MUST	
"application/vnd.syncml+wbxml"	MUST	



Draft

11 of 17 Pages Version 0.5 2001-06-13

4 Client Conformance Tables

4.1 Representation Common Use Elements

Command	Required	d of Client	Implemen	ted in Client
	Sending	Receiving	Sending	Receiving
Archive	MAY	MAY		
Chal	МАҮ	MUST		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		
LocName	MAY	MAY		
LocURI	MUST	MUST	Yes	Yes
MsgID	MUST	MUST	Yes	Yes
MsgRef	MUST	MUST	Yes	Yes
NoResp	SHOULD	MUST		Yes
NoResults	MAY	MAY		
RespURI	МАҮ	MUST		Yes
SessionID	MUST	MUST	Yes	Yes
SftDel	МАҮ	MAY		
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

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

12 of 17 Pages



http://www.syncml.org/supporters/docs/syncml_ics_v05_20010309.doc Draft

Version 0.5 2001-06-13

4.4 Representation Protocol command elements

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

4.5 Device Info

Element Type	Required	d of Client	Implemen	ted in Client
	Sending	Receiving	Sending	Receiving
CTCap	MUST	SHOULD	Yes	
СТТуре	MUST	MUST	Yes	Yes
DataStore	MUST	MUST	Yes	Yes
DataType	MAY	MAY		
DevId	MUST	MUST	Yes	Yes
DevInf	MUST	MUST	Yes	Yes
DevTyp	MUST	MUST	Yes	Yes
DisplayName	MAY	MAY		
DSMem	SHOULD	MAY		
Ext	MAY	MAY		
FreeID 1)	MUST	MAY		
FreeMem 2)	MUST	MAY		
FwV	SHOULD	MAY		
HwV	SHOULD	MAY		
Man	SHOULD	MAY		
MaxGUIDSize	MUST	MUST NOT	Yes	
MaxID	SHOULD	MAY		
MaxMem	SHOULD	MAY		
Mod	MAY	MAY		
OEM	MAY	MAY		
ParamName	SHOULD	SHOULD		
PropName	MUST	SHOULD	Yes	
Rx	MAY	MUST		Yes
Rx-Pref	MUST	MUST	Yes	Yes



http://www.syncml.org/supporters/docs/syncml ics v05 20010309.doc

Draft

Version 0.5 2001-06-13

·				
SharedMem	SHOULD	MUST		Yes
Size	MAY	МАҮ		
SourceRef	MUST	MUST	Yes	Yes
SwV	SHOULD	MAY		
SyncCap	MUST	MUST	Yes	Yes
SyncType	MUST	MUST	Yes	Yes
Tx	MAY	MUST		Yes
Tx-Pref	MUST	MUST	Yes	Yes
ValEnum	MUST	SHOULD	Yes	
VerCT	MUST	MUST	Yes	Yes
Xnam	МАҮ	MAY		
Xval	MAY	MAY		

1) This element is moved to Meta Info DTD and changed to SHOULD / MAY.

2) This element is moved to Meta Info DTD and changed to SHOULD / MAY.

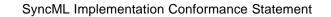
4.6 Meta Info

Element Type	Required	l of Client	Implement	ted in Client
	Sending	Receiving	Sending	Receiving
Anchor	MUST	MUST	Yes	Yes
Format	MUST	MUST	Yes	Yes
FreeID	SHOULD	MAY		
FreeMem	SHOULD	MAY		
Last	MUST	MUST	Yes	Yes
Mark	MAY	MAY		
MaxMsgSize	MAY	MUST		Yes
MetInf	MUST	MUST	Yes	Yes
Next	MUST	MUST	Yes	Yes
NextNonce	MUST 3)	MUST		Yes
Size	MAY	MAY		
Туре	MUST	MUST	Yes	Yes
Version	MAY	MAY		

3) This should be MAY, because it is optional for a client to send the Chal element, and this information is carried within Chal element.

4.7 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	
Support of 'refresh sync from client only'	MAY	
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	Yes
Support of combined package 1 and 3	MAY	



14 of 17 Pages



http://www.syncml.org/supporters/docs/syncml_ics_v05_20010309.doc

Draft

Version 0.5 2001-06-13

4.8 Authentication

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

TODO: build this up to have separate levels (SyncHdr, datastore, etc).

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	



Draft

Version 0.5

15 of 17 Pages

2001-06-13

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 [4].

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	
User-Agent	MUST	Yes

Response Headers	Requirements	
	Required	Implemented
Authentication-Info	MUST	Yes
Proxy-Authenticate	MUST if proxy client	
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 [6]. 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	



http://www.syncml.org/supporters/docs/syncml ics v05 20010309.doc

Draft

Version 0.5

2001-06-13

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 [7].

NOTE that the tables only indicate the required data.

TBD.



http://www.syncml.org/supporters/docs/syncml ics v05 20010309.doc

Draft

Version 0.5 2001-06-13

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