



SyncML Implementation Conformance Statement Proforma SyncML DataSync V1.0.1

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 you are submitting both a client and a server, you will need to fill out two separate forms.



SyncML Initiative

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Revision History

Revision	Date	Comments
2.0	2002-10-22	Signed off for integration into OMA.



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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 the two cases of packages 1 & 3 being sent separately and combined.

Please use section 6 to provide any additional information with regards to your Implementation Conformance Statement. Please do not annotate the SCR items in the following sections.



2 Product Information

2.1 Device and Contact Information

Device Name & Version:	SyncSuite Universal Personal Server - Linux
Company:	Nexthaus Corporation
Contact Name:	Randy Cramp
Contact Phone:	+1 (919) 862-8100
Contact Email:	randyc@nexthaus.com
Product is:	CLIENT[] SERVER[X]
Transports supported:	HTTP[X] WSP[] OBEX[]
OBEX support:	IrDA[] Bluetooth[]

Notes:

- The contents of the [Device Name & Version] field will appear in the List of compliant products on the SyncML web page.
- OBEX support for RS232 and USB is not defined scoped out within the SyncML bindings specifications. Devices cannot claim these transports until the specifications have been updated.

2.2 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	Y
	vCard 3.0 (optional)	Y
Calendar	vCalendar 1.0	
	iCalendar 2.0 (optional)	
Memos	text/plain	
Tasks	vTodo 1.0	
Email	message/rfc822	
	message/rfc2822	
	message/rfc2045	
Other (Please specify any other supported data types)		



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

This section contains the ICS proforma for the Static Conformance Requirements for the 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	YES
LocName	MAY	MAY	NO	YES
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	YES	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.

3.2 Representation Message container elements

This section contains the ICS Proforma for the Static Conformance Requirements for the 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



3.3 Data description elements

This section contains the ICS Proforma for the Static Conformance Requirements for the 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

3.4 Representation Protocol command elements

This section contains the ICS Proforma for the Static Conformance Requirements for the 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	YES	YES
Copy	MAY	MUST	NO	YES
Delete	MUST	MUST	YES	YES
Exec	MAY	SHOULD	NO	YES
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	YES
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.

3.5 Device Info

This section contains the ICS Proforma for the Static Conformance Requirements for SyncML Device Information.

Element Type	Required of Server		Implemented in Server	
	Sending	Receiving	Sending	Receiving
CTCap	SHOULD	MUST	YES	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	YES
DSMem	MAY	SHOULD	NO	NO



Ext	MAY	MAY	NO	NO
FwV	MAY	SHOULD	YES	YES
HwV	MAY	SHOULD	YES	YES
Man	MAY	SHOULD	YES	YES
MaxGUIDSize	MUST NOT	MUST	NO	YES
MaxID	MAY	SHOULD	NO	NO
MaxMem	MAY	SHOULD	NO	NO
Mod	MAY	MAY	YES	YES
OEM	MAY	MAY	YES	YES
ParamName	SHOULD	MUST	YES	YES
PropName	SHOULD	MUST	YES	YES
Rx	MAY	MUST	YES	YES
Rx-Pref	MUST	MUST	YES	YES
SharedMem	SHOULD	MAY	NO	NO
Size	MAY	MUST	YES	YES
SourceRef	MUST	MUST	YES	YES
SwV	MAY	SHOULD	YES	YES
SyncCap	MUST	MUST	YES	YES
SyncType	MUST	MUST	YES	YES
Tx	MAY	MUST	YES	YES
Tx-Pref	MUST	MUST	YES	YES
ValEnum	SHOULD	MUST	NO	YES
VerCT	MUST	MUST	NO	YES
VerDTD	MUST	MUST	NO	YES
Xnam	MAY	MAY	NO	NO
Xval	MAY	MAY	NO	NO

3.6 Meta Info

This section contains the ICS Proforma for the Static Conformance Requirements for SyncML Meta Information.

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



3.7 Protocol

This section contains the ICS Proforma for the Static Conformance Requirements for the Sync 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

3.8 Authentication

This section contains the ICS Proforma for the Static Conformance Requirements for SyncML Authentication.

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

3.9 MIME header types

This section contains the ICS Proforma for the Static Conformance Requirements for SyncML MIME Media Types.

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



4 Client Conformance Tables

4.1 Representation Common Use Elements

This section contains the ICS proforma for the Static Conformance Requirements for the Representation Common Use Elements.

Command	Required of Client		Implemented in Client	
	Sending	Receiving	Sending	Receiving
Archive	MAY	MAY		
Chal	MAY	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.

4.2 Representation Message container elements

This section contains the ICS Proforma for the Static Conformance Requirements for the Message Container elements.

Command	Required of Client		Implemented in Client	
	Sending	Receiving	Sending	Receiving
SyncML	MUST	MUST		
SyncHdr	MUST	MUST		
SyncBody	MUST	MUST		



4.3 Data description elements

This section contains the ICS Proforma for the Static Conformance Requirements for the Data Description elements.

Command	Required of Client		Implemented in Client	
	Sending	Receiving	Sending	Receiving
Data	MUST	MUST		
Item	MUST	MUST		
Meta	MUST	MUST		

4.4 Representation Protocol command elements

This section contains the ICS Proforma for the Static Conformance Requirements for the Protocol Command elements.

Command	Required of Client		Implemented in Client	
	Sending	Receiving	Sending	Receiving
Add	SHOULD	MUST		
Alert	MUST	MUST		
Atomic	MAY	MAY		
Copy	MAY	MAY		
Delete	MUST	MUST		
Exec	MAY	MAY		
Get*	SHOULD	MUST		
Map	MUST	MAY		
MapItem	MUST	MAY		
Put*	MUST	MUST		
Replace	MUST	MUST		
Result*	MUST	SHOULD		
Search	MAY	MAY		
Sequence	MAY	MAY		
Status	MUST	MUST		
Sync	MUST	MUST		

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

4.5 Device Info

This section contains the ICS Proforma for the Static Conformance Requirements for SyncML Device Information.

Element Type	Required of Client		Implemented in Client	
	Sending	Receiving	Sending	Receiving
CTCap	MUST	SHOULD		
CTType	MUST	MUST		
DataStore	MUST	MUST		
DataType	MAY	MAY		
DevId	MUST	MUST		
DevInf	MUST	MUST		
DevTyp	MUST	MUST		
DisplayName	MAY	MAY		
DSMem	SHOULD	MAY		



Ext	MAY	MAY		
FwV	SHOULD	MAY		
HwV	SHOULD	MAY		
Man	SHOULD	MAY		
MaxGUIDSize	MUST	MUST NOT		
MaxID	SHOULD	MAY		
MaxMem	SHOULD	MAY		
Mod	MAY	MAY		
OEM	MAY	MAY		
ParamName	SHOULD	SHOULD		
PropName	MUST	SHOULD		
Rx	MAY	MUST		
Rx-Pref	MUST	MUST		
SharedMem	SHOULD	MAY		
Size	MAY	MAY		
SourceRef	MUST	MUST		
SwV	SHOULD	MAY		
SyncCap	MUST	MUST		
SyncType	MUST	MUST		
Tx	MAY	MUST		
Tx-Pref	MUST	MUST		
ValEnum	MUST	SHOULD		
VerCT	MUST	MUST		
VerDTD	MUST	MUST		
Xnam	MAY	MAY		
Xval	MAY	MAY		

4.6 Meta Info

This section contains the ICS Proforma for the Static Conformance Requirements for SyncML Meta Information.

Element Type	Required of Client		Implemented in Client	
	Sending	Receiving	Sending	Receiving
Anchor	MUST	MUST		
EMI	MAY	MAY		
Format	MUST	MUST		
FreeID	SHOULD	MAY		
FreeMem	SHOULD	MAY		
Last	MUST	MUST		
Mark	MAY	MAY		
MaxMsgSize	MAY	MUST		
Mem	SHOULD	MAY		
MetInf	MUST	MUST		
Next	MUST	MUST		
NextNonce	MAY	MUST		
SharedMem	SHOULD	MAY		
Size	MAY	MAY		
Type	MUST	MUST		
Version	MAY	MAY		



4.7 Protocol

This section contains the ICS Proforma for the Static Conformance Requirements for the Sync Protocol.

Element Type	Client 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	
Support of 'one-way sync from server only'	MAY	
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	MAY	

4.8 Authentication

This section contains the ICS Proforma for the Static Conformance Requirements for SyncML Authentication.

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

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

4.9 MIME header types

This section contains the ICS Proforma for the Static Conformance Requirements for SyncML MIME Media 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	
"application/vnd.syncml+wbxml"	MUST if no xml	



5 Transport Conformance

5.1 HTTP Transport

Vendors should fill this section out ONLY if their product uses the HTTP Transport.

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	NO
WWW-Authenticate	MUST	YES



5.2 OBEX Transport

Vendors should fill this section out ONLY if their product uses the OBEX Transport

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	
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.

NOTE that the tables only indicate the required data.

Method	Requirements	
	Required	Implemented
POST	MUST	



6 Additional Information

Please use this section to provide any additional information with regards to your Implementation Conformance Statement. Please do not annotate the previous sections.

A large, empty rectangular area with a yellow background, intended for providing additional information related to the implementation conformance statement.



7 References

- [1] [SyncML Representation Protocol, version 1.0.1](#)
- [2] [SyncML Sync Protocol, version 1.0.1](#)
- [3] [SyncML Meta-Information DTD, version 1.0.1](#)
- [4] [SyncML Device Information DTD, version 1.0.1](#)
- [5] [SyncML HTTP Binding, version 1.0.1](#)
- [6] [SyncML OBEX Binding, version 1.0.1](#)
- [7] [SyncML WSP Binding, version 1.0.1](#)