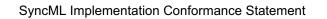


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#### Abstract

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.





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The following companies are Sponsors of the SyncML initiative:

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### **Revision History**

Revision	Date	Comments	
0.1	2000-11-17	1 <sup>st</sup> 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 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.



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2 **Product Information** 

### 2.1 Device and Contact Information

Device Name & Version	Weblicon SyncML Server 2.0
Company	weblicon technologies AG
Contact Name	Jeff Nichols
Contact Phone	+49 30 72 62 69 118
Contact Email	jeff@weblicon.net
Transports supported	OBEX [] WSP [] HTTP [X]
Product is	Client [] Server [X]

### 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	Y
	iCalendar 2.0 (optional)	Y
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	Command Required of Server		Implement	ted in Server
	Sending	Receiving	Sending	Receiving
Archive	МАҮ	MUST	N	Y
Chal	MUST	MUST	Y	Y
Cmd	MUST	MUST	Y	Y
CmdID	MUST	MUST	Y	Y
CmdRef	MUST	MUST	Y	Y
Cred	MUST	MUST	Y	Y
Final	MUST	MUST	Y	Y
Lang	МАҮ	MAY	N	N
LocName	МАҮ	MAY	Y	Y
LocURI	MUST	MUST	Y	Y
MsgID	MUST	MUST	Y	Y
MsgRef	MUST	MUST	Y	Y
NoResp	МАҮ	MUST	Y	Y
NoResults	МАҮ	MAY	N	N
RespURI	МАҮ	MUST	Y	Y
SessionID*	MUST	MUST	Y	Y
SftDel	МАҮ	MAY	N	N
Source	MUST	MUST	Y	Y
SourceRef	MUST	MUST	Y	У
Target	MUST	MUST	Y	Y
TargetRef	MUST	MUST	Y	Y
VerDTD	MUST	MUST	Y	Y
VerProto	MUST	MUST	Y	Y

\*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		Implement	ted in Server
	Sending Receiving		Sending	Receiving
SyncML	MUST	MUST	У	У
SyncHdr	MUST	MUST	Y	У
SyncBody	MUST	MUST	Y	У

### 3.3 Data description elements



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	Sending	Receiving	Sending	Receiving
Data	MUST	MUST	Y	У
Item	MUST	MUST	Y	У
Meta	MUST	MUST	Y	У

### 3.4 Representation Protocol command elements

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

\*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		Implement	ted in Server
	Sending	Receiving	Sending	Receiving
СТСар	SHOULD	MUST	Y	Y
СТТуре	MUST	MUST	Y	Y
DataStore	MUST	MUST	Y	Y
DataType	МАҮ	MUST	N	Y
DevID	MUST	MUST	Y	Y
DevInf	MUST	MUST	Y	Y
DevTyp	MUST	MUST	Y	Y
DisplayName	МАҮ	MAY	N	N
DSMem	МАҮ	SHOULD	N	N
Ext	МАҮ	МАҮ	Y	N
FwV	МАҮ	SHOULD	N	Y
HwV	МАҮ	SHOULD	N	Y

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MaxID	МАҮ	SHOULD	N	N
MaxMem	МАҮ	SHOULD	N	N
Mod	МАҮ	МАҮ	Y	Y
OEM	МАҮ	МАҮ	N	N
ParamName	SHOULD	MUST	У	Y
PropName	SHOULD	MUST	У	Y
Rx	МАҮ	MUST	У	Y
Rx-Pref	MUST	MUST	У	Y
SharedMem	SHOULD	МАҮ	N	N
Size	МАҮ	MUST	N	Y
SourceRef	MUST	MUST	Y	У
SwV	МАҮ	SHOULD	У	Y
SyncCap	MUST	MUST	Y	У
SyncType	MUST	MUST	У	Y
Тх	МАҮ	MUST	Y	У
Tx-Pref	MUST	MUST	Y	У
ValEnum	SHOULD	MUST	Y	Y
VerCT	MUST	MUST	Y	У
VerDTD	MUST	MUST	Y	У
Xnam	МАҮ	МАҮ	Y	N
Xval	МАҮ	МАҮ	Y	N

### 3.6 Meta Info

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



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

### 3.8 Authentication

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

### 3.9 MIME header types

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



# 4 Client Conformance Tables

### 4.1 Representation Common Use Elements

Command	Required	d of Client	Implemen	ted in Client
	Sending	Receiving	Sending	Receiving
Archive	МАҮ	MAY		
Chal	МАҮ	MUST		
Cmd	MUST	MUST		
CmdID	MUST	MUST		
CmdRef	MUST	MUST		
Cred	MUST	MUST		
Final	MUST	MUST		
Lang	МАҮ	МАҮ		
LocName	МАҮ	МАҮ		
LocURI	MUST	MUST		
MsgID	MUST	MUST		
MsgRef	MUST	MUST		
NoResp	МАҮ	MUST		
NoResults	МАҮ	МАҮ		
RespURI	МАҮ	MUST		
SessionID*	MUST	MUST		
SftDel	МАҮ	МАҮ		
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

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

#### 4.3 Data description elements

Command	Required of Client		Implemen	ted in Client
	Sonding	Pocoiving	Sonding	Pacaiving



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Item	MUST	MUST	
Meta	MUST	MUST	

### 4.4 Representation Protocol command elements

Command	Required	l of Client	Implemen	ted in Client
	Sending	Receiving	Sending	Receiving
Add	SHOULD	MUST		
Alert	MUST	MUST		
Atomic	МАҮ	МАҮ		
Сору	МАҮ	МАҮ		
Delete	MUST	MUST		
Exec	МАҮ	МАҮ		
Get*	SHOULD	MUST		
Мар	MUST	МАҮ		
MapItem	MUST	МАҮ		
Put*	MUST	MUST		
Replace	MUST	MUST		
Result*	MUST	SHOULD		
Search	МАҮ	МАҮ		
Sequence	МАҮ	МАҮ		
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

Element Type	Required	l of Client	Implemen	ted in Client
	Sending	Receiving	Sending	Receiving
CTCap	MUST	SHOULD		
СТТуре	MUST	MUST		
DataStore	MUST	MUST		
DataType	МАҮ	МАҮ		
DevId	MUST	MUST		
DevInf	MUST	MUST		
DevTyp	MUST	MUST		
DisplayName	МАҮ	МАҮ		
DSMem	SHOULD	МАҮ		
Ext	МАҮ	МАҮ		
FwV	SHOULD	МАҮ		
HwV	SHOULD	МАҮ		
Man	SHOULD	МАҮ		
MaxGUIDSize	MUST	MUST NOT		

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

### 4.6 Meta Info

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

### 4.7 Protocol

Ī

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

### 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	
MD5	MUST	

### 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	
"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. 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	У

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

Request Headers	Requirements	
	Required	Implemented
Accept	MUST	У
Accept-Charset	MUST	У
Authorization	MUST	Y
Proxy-Authorization	MUST if a	У
	proxy client	
User-Agent	MUST	У

Response Headers	Requirements	
	Required	Implemented
Authentication-Info	MUST	У
Proxy-Authenticate	MUST if proxy	У
	client	
WWW-Authenticate	MUST	У

### 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.

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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

SyncML

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