SyncML Implementation Conformance Statement

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

Draft

1 of 13 Pages

Version 0.5

2001-03-26

Starfish TrueSync Server

SyncML Implementation Conformance Statement

Version 0.5

SyncML Implementation Conformance Statement

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

Draft

2 of 13 Pages

Version 0.5

2001-03-26

1 Product Information

Device Name & Version	Starfish TrueSync Server, version 2.2
Company	Motorola / Starfish
Contact Name	Peter Thompson
Contact Phone	+ 1 (831) 461-5814
Contact Email	peter.thompson@starfish.com
Transports supported	OBEX [ ] WSP [ ] HTTP [x]
Product is	Client [ ] Server [x]
Datatypes product uses	vCard 2.1 & 3.0, vCalendar 1.0, iCalendar 2.0, text/plain

SyncML Implementation Conformance Statement

3 of 13 Pages

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

Version 0.5

Draft

2001-03-26

2 Server Conformance Tables

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

2.1 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	NO
LocName	MAY	MAY	YES	YES
LocURI	MUST	MUST	YES	YES
MsgID	MUST	MUST	YES	YES
MsgRef	MUST	MUST	YES	YES
NoResp	MUST	MUST	YES	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

2.2 Representation 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

2.3 Data description elements

Command	Required of Server		Implemented in Server	
	Sending	Receiving	Sending	Receiving
Data	MUST	MUST	YES	YES

SyncML Implementation Conformance Statement

4 of 13 Pages

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

Version 0.5

Draft

2001-03-26

Item	MUST	MUST	YES	YES
Meta	MUST	MUST	YES	YES

2.4 Representation 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	NO	NO
Copy	MAY	MUST	NO	YES
Delete	MUST	MUST	YES	YES
Exec	MAY	SHOULD	NO	NO
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	NO
Sequence	MAY	MUST	NO	YES
Status	MUST	MUST	YES	YES
Sync	MUST	MUST	YES	YES

2.5 Device Info

Element Type	Required of Server		Implemented in Server	
	Sending	Receiving	Sending	Receiving
CTCap	SHOULD	MUST	NO	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	YES
Ext	MAY	MAY	NO	NO
FreeID	MAY	MUST	NO	YES
FreeMem	MAY	MUST	NO	YES
FwV	MAY	SHOULD	NO	NO
HwV	MAY	SHOULD	NO	NO
Man	MAY	SHOULD	NO	NO
MaxGUIDSize	MUST NOT	MUST	NO	YES
MaxID	MAY	SHOULD	NO	YES
MaxMem	MAY	SHOULD	NO	YES
Mod	MAY	MAY	NO	NO
OEM	MAY	MAY	NO	NO

SyncML Implementation Conformance Statement

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

Draft

5 of 13 Pages

Version 0.5

2001-03-26

ParamName	SHOULD	MUST	NO	YES
PropName	SHOULD	MUST	NO	YES
Rx	MAY	MUST	YES	YES
Rx-Pref	MUST	MUST	YES	YES
SharedMem	SHOULD	MUST	NO	YES
Size	MAY	MUST	NO	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	YES	YES
Xnam	MAY	MAY	NO	YES
Xval	MAY	MAY	NO	YES

2.6 Meta Info

Element Type	Required of Server		Implemented in Server	
	Sending	Receiving	Sending	Receiving
Anchor	MUST	MUST	YES	YES
Format	MUST	MUST	YES	YES
Last	MUST	MUST	YES	YES
Mark	MAY	MAY	NO	NO
MaxMsgSize	MAY	MUST	NO	YES
MetInf	MUST	MUST	YES	YES
Next	MUST	MUST	YES	YES
NextNonce	MUST	MUST	YES	YES
Size	MAY	MAY	NO	NO
Type	MUST	MUST	YES	YES
Version	MUST	MUST	YES	YES

2.7 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	YES
Support of 'refresh sync from client only'	MAY	YES
Support of 'one-way sync from server only'	MAY	YES
Support of 'refresh sync from server only'	MAY	YES
Support of 'sync alert'	MAY	NO
Support of multiple messages per package	MUST	YES
Support of combined package 1 and 3	MUST	YES

SyncML Implementation Conformance Statement

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

Draft

6 of 13 Pages

Version 0.5

2001-03-26

2.8   Authentication

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

2.9   MIME header types

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

SyncML Implementation Conformance Statement

7 of 13 Pages

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

Version 0.5

Draft

2001-03-26

3 Client Conformance Tables

3.1 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	SHOULD	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 Client		Implemented in Client	
	Sending	Receiving	Sending	Receiving
SyncML	MUST	MUST		
SyncHdr	MUST	MUST		
SyncBody	MUST	MUST		

3.3 Data description elements

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

SyncML Implementation Conformance Statement

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

Draft

8 of 13 Pages

Version 0.5

2001-03-26

3.4 Representation 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		

3.5 Device Info

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		
FreeID	MUST	MAY		
FreeMem	MUST	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		

SyncML Implementation Conformance Statement

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

Draft

9 of 13 Pages

Version 0.5

2001-03-26

SharedMem	SHOULD	MUST		
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		
Xnam	MAY	MAY		
Xval	MAY	MAY		

3.6 Meta Info

Element Type	Required of Client		Implemented in Client	
	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		
Type	MUST	MUST		
Version	MAY	MAY		

3.7 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	

SyncML Implementation Conformance Statement

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

Draft

10 of 13 Pages

Version 0.5

2001-03-26

3.8   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	
MD5	MUST	

3.9   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	

SyncML Implementation Conformance Statement

11 of 13 Pages

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

Version 0.5

Draft

2001-03-26

4 Transport Conformance

4.1 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	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

4.2 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	

SyncML Implementation Conformance Statement

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

Draft

12 of 13 Pages

Version 0.5

2001-03-26

PUT	MUST	
DISCONNECT	MUST	
CONNECT	MUST	
ABORT	MUST	

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

4.3   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.

SyncML Implementation Conformance Statement

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

Draft

13 of 13 Pages

Version 0.5

2001-03-26

5 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