SyncML

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

Draft

2001-03-29

SyncML Implementation Conformance Statement Ericsson Client1

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 2001-03-29

Consortium

The following companies are sponsors in the SyncML initiative: Ericsson IBM Lotus Motorola Nokia Palm, Inc. Matsushita Communications Industrial Co. 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.

Copyright Notice

Copyright (c) Ericsson, IBM, Lotus, Matsushita Communication Industrial Co., LTD, Motorola, Nokia, Palm, Inc., Psion, Starfish Software (2000-2001).

All Rights Reserved.

Implementation of all or part of any Specification may require licenses under third party intellectual property rights, including without limitation, patent rights (such a third party may or may not be a Supporter). The Sponsors of the Specification are not responsible and shall not be held responsible in any manner for identifying or failing to identify any or all such third party intellectual property rights.

THIS DOCUMENT AND THE INFORMATION CONTAINED HEREIN ARE PROVIDED ON AN "AS IS" BASIS WITHOUT WARRANTY OF ANY KIND AND ERICSSON, IBM, LOTUS, MATSUSHITA COMMUNICATION INDUSTRIAL CO. LTD, MOTOROLA, NOKIA, PALM INC., PSION, STARFISH SOFTWARE AND ALL OTHER SYNCML SPONSORS DISCLAIM ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTY THAT THE USE OF THE INFORMATION HEREIN WILL NOT INFRINGE ANY RIGHTS OR ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL ERICSSON, IBM, LOTUS, MATSUSHITA COMMUNICATION INDUSTRIAL CO., LTD, MOTOROLA, NOKIA,

SyncML

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

Draft

Version 0.5 2001-03-29

PALM INC., PSION, STARFISH SOFTWARE OR ANY OTHER SYNCML SPONSOR BE LIABLE TO ANY PARTY FOR ANY LOSS OF PROFITS, LOSS OF BUSINESS, LOSS OF USE OF DATA, INTERRUPTION OF BUSINESS, OR FOR DIRECT, INDIRECT, SPECIAL OR EXEMPLARY, INCIDENTAL, PUNITIVE OR CONSEQUENTIAL DAMAGES OF ANY KIND IN CONNECTION WITH THIS DOCUMENT OR THE INFORMATION CONTAINED HEREIN, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH LOSS OR DAMAGE.

The above notice and this paragraph must be included on all copies of this document that are made.

SyncML

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

Draft

Version 0.5 2001-03-29

Table of Contents

1	Intro	oduction	5
2	Proc	duct Information	6
3	Clie	nt Conformance Tables	7
	3.1	Representation Common Use Elements	7
	3.2	Representation Message container elements	7
	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	Tran	nsport Conformance	11
	4.1	HTTP Transport	11
	4.2	OBEX Transport	11
	4.3	WSP Transport	12
5	Refe	erences	13



2001-03-29

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.

Conviriant @ Friceson IRM Latus Matsushita Communication Industrial Co. Matarala Nakia Palm Inc. Peion Starfish



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

Draft

Version 0.5

2001-03-29

2 **Product Information**

Device Name & Version	Ericsson Client 1
Company	Ericsson Mobile Communications AB
Contact Name	Kristian Larsen
Contact Phone	+46703-180601
Contact Email	Kristian.larsen@ecs.ericsson.se
Transports supported	OBEX [] WSP [X] HTTP []
Product is	Client [X] Server []
Datatypes product uses	VCard2.1 and vCalendar 1.0

Version 0.5 2001-03-29



Draft

3 Client Conformance Tables

3.1 Representation Common Use Elements

Command	Required of Client		Implemer	Implemented 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	Yes	No	
LocURI	MUST	MUST	Yes	Yes	
MsgID	MUST	MUST	Yes	Yes	
MsgRef	MUST	MUST	Yes	Yes	
NoResp	SHOULD	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	

3.2 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

3.3 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

Conviriant @ Friesson IRM Latus Matsushita Communication Industrial Co. Motorola Nokia Palm Inc. Psion Starfish

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

Draft



Version 0.5 2001-03-29

3.4 Representation Protocol command elements

Command	Required	l of Client	Implemen	ted in Client
	Sending	Receiving	Sending	Receiving
Add	SHOULD	MUST	No	Yes
Alert	MUST	MUST	Yes	Yes
Atomic	MAY	MAY	No	No
Сору	MAY	MAY	No	No
Delete	MUST	MUST	Yes	Yes
Exec	MAY	MAY	No	No
Get	SHOULD	MUST	No	Yes
Мар	MUST	MAY	Yes	No
MapItem	MUST	МАҮ	Yes	No
Put	MUST	MUST	Yes	Yes
Replace	MUST	MUST	Yes	Yes
Result	MUST	SHOULD	Yes	No
Search	MAY	MAY	No	No
Sequence	МАҮ	МАҮ	No	No
Status	MUST	MUST	Yes	Yes
Sync	MUST	MUST	Yes	Yes

3.5 Device Info

Element Type	Require	d of Client	Implemen	ted in Client
	Sending	Receiving	Sending	Receiving
CTCap	MUST	SHOULD	Yes	Yes
CTType	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
FreeID (Move to MetaInfo)	MUST	MAY	N/A	N/A
FreeMem (Move to Meta Info)	MUST	MAY	N/A	N/A
FwV	SHOULD	MAY	No	No
HwV	SHOULD	MAY	Yes	No
Man	SHOULD	MAY	Yes	No
MaxGUIDSize	MUST	MUST NOT	Yes	No
MaxID	SHOULD	MAY	Yes	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	Yes
Rx	MAY	MUST	Yes	Yes

Convirant @ Friesson IRM Latus Matsushita Communication Industrial Co. Matarala Nakia Palm Inc. Peion Starfish

SyncML

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

Draft

Version 0.5 2001-03-29

Rx-Pref	MUST	MUST	Yes	Yes
SharedMem	SHOULD	MUST	No	Yes
Size	MAY	MAY	No	No
SourceRef	MUST	MUST	Yes	Yes
SwV	SHOULD	MAY	Yes	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	Yes
VerCT	MUST	MUST	Yes	Yes
Xnam	MAY	MAY	No	No
Xval	MAY	MAY	No	No

3.6 Meta Info

Element Type	Required of Client		Implemen	ted in Client
	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	Yes	Yes
MetInf	MUST	MUST	Yes	Yes
Next	MUST	MUST	Yes	Yes
NextNonce	MUST	MUST	No	Yes
Size	MAY	MAY	No	No
Туре	MUST	MUST	Yes	Yes
Version	MAY	MAY	No	No

3.7 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	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	MAY	No	



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

Draft

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	Yes
MD5	MUST	Yes

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	No
"application/vnd.syncml+wbxml"	MUST if no xml	Yes

Version 0.5

2001-03-29

4 Transport Conformance

4.1 HTTP Transport

SyncM

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	

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

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

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

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	

Conviriant @ Friceson IRM Latus Matsushita Communication Industrial Co. Matarala Nakia Palm Inc. Peion Starfish

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

Version 0.5 2001-03-29

PUT	MUST	
CONNECT	MUST	
DISCONNECT	MUST	
ABORT	MUST	

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

WSP Transport 4.3

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.

SyncM

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

