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2001-06-20

# SyncML Implementation Conformance Statement Proforma

### Version 0.8

#### **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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### SyncML Initiative

The following companies are Sponsors of the SyncML initiative:

Ericsson
IBM
Lotus
Matsushita Communications Industrial Co., Ltd.
Motorola
Nokia
Palm, Inc.
Psion

### **Revision History**

Starfish Software

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



### 2 Product Information

### 2.1 Device and Contact Information

| Device Name & Version | Ericsson T68, Version R1B         |
|-----------------------|-----------------------------------|
| Company               | Ericsson Mobile Communications AB |
| Contact Name          | Kristian Larsen                   |
| Contact Phone         | +46 703 180601                    |
| Contact Email         | kristian.larsen@ecs.ericsson.se   |
| Transports supported  | OBEX[] WSP[X] HTTP[]              |
| Product is            | Client [X] Server []              |

### 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                | Yes             |
|           | vCard 3.0 (optional)     |                 |
| Calendar  | vCalendar 1.0            | Yes             |
|           | iCalendar 2.0 (optional) |                 |
| Memos     | text/plain               |                 |
| Tasks     | vTodo 1.0                |                 |
| Email     | message/rfc822           |                 |
|           | message/rfc2822          |                 |
|           | Message/rfc2045          |                 |



### 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 | l of Server | Implemen | 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     | 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        |          |               |

<sup>\*</sup>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 |           | 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 |

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| Data | MUST | MUST |  |
|------|------|------|--|
| Item | MUST | MUST |  |
| Meta | MUST | MUST |  |

## 3.4 Representation Protocol command elements

| Command  | Required | l of Server | Implement | 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        |           |               |
| Map      | MAY      | MUST        |           |               |
| MapItem  | MAY      | MUST        |           |               |
| Put*     | MUST     | MUST        |           |               |
| Replace  | MUST     | MUST        |           |               |
| Result*  | MUST     | MUST        |           |               |
| Search   | MAY      | MAY         |           |               |
| Sequence | MAY      | MUST        |           |               |
| Status   | MUST     | MUST        |           |               |
| Sync     | MUST     | MUST        |           |               |

<sup>\*</sup>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 | Implemen | ted in Server |
|--------------|----------|-----------|----------|---------------|
|              | Sending  | Receiving | Sending  | Receiving     |
| CTCap        | SHOULD   | MUST      |          |               |
| CTType       | 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       |          |               |
| FwV          | MAY      | SHOULD    |          |               |
| HwV          | MAY      | SHOULD    |          |               |
| Man          | MAY      | SHOULD    |          |               |
| MaxGUIDSize  | MUST NOT | MUST      |          |               |
| MaxID        | MAY      | SHOULD    |          |               |
| MaxMem       | MAY      | SHOULD    |          |               |
| Mod          | MAY      | MAY       |          |               |
| OEM          | MAY      | MAY       |          |               |

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| ParamName | SHOULD | MUST   |  |
|-----------|--------|--------|--|
| PropName  | SHOULD | MUST   |  |
|           |        |        |  |
| Rx        | MAY    | MUST   |  |
| Rx-Pref   | MUST   | MUST   |  |
| SharedMem | SHOULD | MAY    |  |
| 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   |  |
| VerDTD    | MUST   | MUST   |  |
| Xnam      | MAY    | MAY    |  |
| Xval      | MAY    | MAY    |  |

#### **Meta Info** 3.6

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

#### 3.7 **Protocol**

| Element Type                                | Server 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                 |             |



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| 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         | MUST |  |

### 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 Implement  |  |
| "application/vnd.syncml+xml"   | MUST                |  |
| "application/vnd.syncml+wbxml" | MUST                |  |



### **4 Client Conformance Tables**

### 4.1 Representation Common Use Elements

| Command    | Required of Client |           | 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     | MAY                | 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       |

<sup>\*</sup>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      | 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           |



### 4.4 Representation Protocol command elements

| Command  | Required 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           |
| Map      | MUST               | MAY       | Yes      | No            |
| MapItem  | MUST               | MAY       | Yes      | No            |
| Put*     | MUST               | MUST      | Yes      | Yes           |
| Replace  | MUST               | MUST      | Yes      | Yes           |
| Result*  | MUST               | SHOULD    | Yes      | No            |
| Search   | MAY                | MAY       | No       | No            |
| Sequence | MAY                | MAY       | No       | No            |
| Status   | MUST               | MUST      | Yes      | Yes           |
| Sync     | MUST               | MUST      | Yes      | Yes           |

<sup>\*</sup>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      | 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            |
| 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           |



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| Rx-Pref   | MUST   | MUST   | Yes | Yes |
|-----------|--------|--------|-----|-----|
| SharedMem | SHOULD | MAY    | 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 |
| VerDTD    | MUST   | MUST   | Yes | Yes |
| Xnam      | MAY    | MAY    | No  | No  |
| Xval      | MAY    | MAY    | No  | No  |

### 4.6 Meta Info

| Element Type | Required | l of Client | Implemen | ted in Client |
|--------------|----------|-------------|----------|---------------|
|              | Sending  | Receiving   | Sending  | Receiving     |
| Anchor       | MUST     | MUST        | Yes      | Yes           |
| EMI          | MAY      | MAY         | No       | No            |
| Format       | MUST     | MUST        | Yes      | Yes           |
| FreeID       | SHOULD   | MAY         | Yes      | No            |
| FreeMem      | SHOULD   | MAY         | Yes      | No            |
| Last         | MUST     | MUST        | Yes      | Yes           |
| Mark         | MAY      | MAY         | No       | No            |
| MaxMsgSize   | MAY      | MUST        | Yes      | Yes           |
| Mem          | SHOULD   | MAY         | No       | No            |
| MetInf       | MUST     | MUST        | Yes      | Yes           |
| Next         | MUST     | MUST        | Yes      | Yes           |
| NextNonce    | MAY      | MUST        | No       | Yes           |
| SharedMem    | SHOULD   | MAY         | No       | No            |
| Size         | MAY      | MAY         | No       | No            |
| Type         | MUST     | MUST        | Yes      | Yes           |
| Version      | MAY      | MAY         | No       | No            |

### 4.7 Protocol

| Element Type                               | Client Re | 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                  |  |



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| Support of multiple messages per package | MUST | Yes |
|--|------|-----|
| Support of combined package 1 and 3      | MAY  | No  |

### 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                | 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<br>wbxml | No          |
| "application/vnd.syncml+wbxml" | MUST if no xml      | Yes         |



### **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         |             |

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

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

| Response Headers      | Requ                 | Requirements |  |
|-----------------------|----------------------|--------------|--|
|                       | Required             | Implemented  |  |
| Authenticati o n-Info | MUST                 |              |  |
| Proxy-Authenticate    | MUST if proxy client |              |  |
| WWW-Authenticate      | MUST                 |              |  |

### 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.

| Method | OBEX Server Requirements |             |
|--------|--------------------------|-------------|
|        | Required                 | Implemented |
| GET    | MUST                     |             |



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| 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 0.

NOTE that the tables only indicate the required data.

| Method | Requirements |             |
|--------|--------------|-------------|
|        | Required     | Implemented |
| POST   | MUST         | Yes         |



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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