

2002-10-22

# 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.

2 of 18 Pages Version 2.0 2002-10-22

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# **Revision History**

| Date       | Comments                             |
|------------|--------------------------------------|
| 2002-10-22 | Signed off for integration into OMA. |
|            |                                      |
|            |                                      |
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3 of 18 Pages Version 2.0

2002-10-22

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# **Table of Contents**

| 1 | Intro | oduction                                  | 5  |
|---|-------|---|----|
| 2 | Pro   | duct Information                          | 6  |
|   | 2.1   | Device and Contact Information            |    |
|   | 2.2   | Content Formats Supported                 | 6  |
| 3 | Serv  | ver Conformance Tables                    | 7  |
|   | 3.1   | Representation Common Use Elements        |    |
|   | 3.2   | Representation Message container elements |    |
|   | 3.3   | Data description elements                 |    |
|   | 3.4   | Representation Protocol command elements  |    |
|   | 3.5   | Device Info                               |    |
|   | 3.6   | Meta Info                                 | 9  |
|   | 3.7   | Protocol                                  | 10 |
|   | 3.8   | Authentication                            | 10 |
|   | 3.9   | MIME header types                         | 10 |
| 4 | Clie  | nt Conformance Tables                     | 11 |
|   | 4.1   | Representation Common Use Elements        | 11 |
|   | 4.2   | Representation Message container elements |    |
|   | 4.3   | Data description elements                 |    |
|   | 4.4   | Representation Protocol command elements  |    |
|   | 4.5   | Device Info                               | 12 |
|   | 4.6   | Meta Info                                 | 13 |
|   | 4.7   | Protocol                                  | 14 |
|   | 4.8   | Authentication                            | 14 |
|   | 4.9   | MIME header types                         | 14 |
| 5 | Trar  | nsport Conformance                        | 15 |
|   | 5.1   | HTTP Transport                            |    |
|   | 5.2   | OBEX Transport                            | 16 |
|   | 5.3   | WSP Transport                             |    |
| 6 | Add   | litional Information                      | 17 |
| 7 | Ref   | arancas                                   | 18 |



5 of 18 Pages Version 2.0

2002-10-22

# 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: | Nokia 3650               |
|------------------------|--------------------------|
| Company:               | NOKIA                    |
| Contact Name:          | Janne Vento              |
| Contact Phone:         | +358 7180 08000          |
| Contact Email:         | Janne.Vento@nokia.com    |
| Product is:            | CLIENT[ X ]<br>SERVER[ ] |
| Transports supported:  | HTTP[X]<br>WSP[X]        |
|                        | OBEX[ ]                  |
| OBEX support:          | IrDA[ ]                  |
|                        | Bluetooth[ ]             |

#### Note s:

- 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                | Υ               |
|  | vCard 3.0 (optional)     | N               |
| Calendar   | vCalendar 1.0            | Υ               |
|  | iCalendar 2.0 (optional) | N               |
| Memos  | text/plain               | N               |
| Tasks  | vTodo 1.0                | Υ               |
| Email  | message/rfc822           | N               |
|  | message/rfc2822          | N               |
|  | message/rfc2045          | N               |
| Other (Please's pecify 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 | d 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

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

| Command  | Required of Server |           | Implemen | ted in Server |
|----------|--------------------|-----------|----------|---------------|
|          | Sending            | Receiving | Sending  | Receiving     |
| SyncML   | MUST               | MUST      |          |               |
| SyncHdr  | MUST               | MUST      |          |               |
| SyncBody | MUST               | MUST      |          |               |

8 of 18 Pages Version 2.0

2002-10-22

#### 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 |           | Implemen | ted in Server |
|---------|--------------------|-----------|----------|---------------|
|         | Sending            | Receiving | Sending  | Receiving     |
| Data    | MUST               | MUST      |          |               |
| Item    | MUST               | MUST      |          |               |
| Meta    | MUST               | MUST      |          |               |

# 3.4 Representation Protocol command elements

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

| Command  | Required | l of Server | Implement | ed in Server |
|----------|----------|-------------|-----------|--------------|
|          | Sending  | Receiving   | Sending   | Receiving    |
| Add      | MUST     | MUST        |           |              |
| Alert    | MUST     | MUST        |           |              |
| Atomic   | MAY      | MAY         |           |              |
| Copy     | 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

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

| Element Type | Required of Server In |           | Implement | 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    |           |               |

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9 of 18 Pages Version 2.0

2002-10-22

| 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    |  |
| 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    |  |
|             |          |        |  |

# 3.6 Meta Info

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

| Element Type | Required | l of Server | Implemented 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         |                       |           |
| Type         | MUST     | MUST        |                       |           |
| Version      | MUST     | MUST        |                       |           |



#### 3.7 Protocol

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

| Element Type                                | Server R | equirements |
|---|----------|-------------|
|   | 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         | MUST     |             |

#### 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                |             |
| MD5                       | MUST                |             |

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



# 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 | d of Client | Implemen | ted 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         | No       | 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

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

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

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

| Command  | Required | l of Client | Implement | ed in Client |
|----------|----------|-------------|-----------|--------------|
|          | Sending  | Receiving   | Sending   | Receiving    |
| Add      | SHOULD   | MUST        | No        | Yes          |
| Alert    | MUST     | MUST        | Yes       | Yes          |
| Atomic   | MAY      | MAY         | No        | No           |
| Copy     | MAY      | MAY         | No        | No           |
| Delete   | MUST     | MUST        | Yes       | Yes          |
| Exec     | MAY      | MAY         | No        | No           |
| Get*     | SHOULD   | MUST        | Yes       | 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       | Yes          |
| 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

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

| Element Type | Required 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       | No       | No            |

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13 of 18 Pages Version 2.0

2002-10-22

| 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      | No  | No  |
| MaxMem      | SHOULD | MAY      | No  | No  |
| Mod         | MAY    | MAY      | Yes | No  |
| OEM         | MAY    | MAY      | No  | No  |
| ParamName   | SHOULD | SHOULD   | No  | No  |
| PropName    | MUST   | SHOULD   | Yes | Yes |
| Rx          | MAY    | MUST     | Yes | Yes |
| Rx-Pref     | MUST   | MUST     | Yes | Yes |
| SharedMem   | SHOULD | MAY      | No  | No  |
| 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

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      | 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       | Yes                   | No        |
| MetInf       | MUST               | MUST      | Yes                   | Yes       |
| Next         | MUST               | MUST      | Yes                   | Yes       |
| NextNonce    | MAY                | MUST      | No                    | Yes       |
| SharedMem    | SHOULD             | MAY       | Yes                   | No        |
| Size         | MAY                | MAY       | No                    | No        |
| Type         | MUST               | MUST      | Yes                   | Yes       |
| Version      | MAY                | MAY       | No                    | No        |



#### 4.7 Protocol

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

| Element Type Client Requiremen              |          | equirements |
|---|----------|-------------|
|   | 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          |

#### 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 Implement  |     |
| Basic (name and password) | MUST                | Yes |
| MD5                       | MUST                | Yes |

# 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<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.

NOTE that the tables only indicate the required data.

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

| General Headers                  | Requi    | 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 | Yes          |  |
| User-Agent          | MUST                   | Yes          |  |

| Response Headers    | Requi                | Requirements |  |  |
|---------------------|----------------------|--------------|--|--|
|                     | Required             | Implemented  |  |  |
| Authentication-Info | MUST                 | Yes          |  |  |
| Proxy-Authenticate  | MUST if proxy client | Yes          |  |  |
| 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 Serve | 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         | Yes         |

17 of 18 Pages Version 2.0 2002-10-22

# 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. |  |  |  |  |  |  |
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18 of 18 Pages Version 2.0

2002-10-22

# 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