SyncML V1.0.1 Release Notes

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SyncML Initiative

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1 Introduction

SyncML was released as Version 1.0 on December 7th, 2000. As with any 1.0 release, there were small problems that needed to be dealt with. Version 1.0.1 is our attempt to fix these errors and corrections.
2 Changes to Representation Specification

2.1 SCR of SftDel element
Chapter 9.1: change the SCR of SftDel element to look like:

<table>
<thead>
<tr>
<th>Command</th>
<th>Support of Synchronization Server</th>
<th>Support of Synchronization Client</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Sending</td>
<td>Receiving</td>
</tr>
<tr>
<td>SftDel</td>
<td>MAY</td>
<td>MAY</td>
</tr>
</tbody>
</table>

2.2 Status codes for authentication errors
Chapter 12: clarify the description of Status codes 401 and 407, and remove the Status code 509. The description of the Status codes is changed to:

<table>
<thead>
<tr>
<th>Status Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>401</td>
<td>Invalid credentials. The requested command failed because proper authentication MUST be provided by the requestor. If the property type of authentication was presented in the original request, then the response code indicates that the requested command has been refused for those credentials.</td>
</tr>
<tr>
<td>407</td>
<td>Missing credentials. This response code is similar to 401 except that the response code indicates that the originator MUST first authenticate with the recipient. The recipient SHOULD also return the suitable challenge in the Chal element type in the Status.</td>
</tr>
<tr>
<td>509</td>
<td>Reserved for future use.</td>
</tr>
</tbody>
</table>

2.3 SCR for RespURI
Chapter 5.1.15: the usage of the RespURI needs to be clarified to indicate that the server and database are the same logical entities as earlier. The receiver of the RespURI must not repeat the commands by default.

Chapter 9.1: change the SCR for RespURI to look like this:

<table>
<thead>
<tr>
<th>Command</th>
<th>Support of Synchronization Server</th>
<th>Support of Synchronization Client</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Sending</td>
<td>Receiving</td>
</tr>
<tr>
<td>RespURI</td>
<td>MAY</td>
<td>MUST</td>
</tr>
</tbody>
</table>

2.4 XML namespace declaration missing
Chapters 5.1.7, 5.1.16: change the <SyncML> tag to <SyncML xmlns='SYNCML:SYNCML 1.0'>
2.5 UserID in Authentication

Chapter 4.13: add the following text to the chapter:

To specify the userID for the credentials, when the credentials do not include it in the resolvable form, the userID must be transferred in the LocName element of Source in SyncHdr. If the userID can be resolved from the credentials, e.g., in the case of the Basic authentication, it can be omitted from the LocName element to reduce the number of bytes to be transferred.

Below, there is an example in which the MD5 digest access authentication is used and a userID is carried in the LocName element.

```
<SyncML>
  <SyncHdr>
    <VerDTD>1.0</VerDTD>
    <VerProto>SyncML/1.0</VerProto>
    <SessionID>1</SessionID>
    <MsgID>1</MsgID>
    <Target>
      <LocURI>http://www.syncml.org/sync-server</LocURI>
    </Target>
    <Source>
      <LocURI>IMEI:493005100592800</LocURI>
      <LocName>Bruce2</LocName> <!-- userId -->
    </Source>
    <Cred>
      <Meta><Type xmlns='syncml:metinf'>syncml:auth-md5</Type></Meta>
      <Data>NTI2OTJhMDAwNjYxODkwYmQ3NWUxN2RhN2ZmYmJ1Mzk=</Data>
      <!-- Base64 coded MD5 digest of "Bruce2:OhBehave:Nonce" -->
    </Cred>
  </SyncHdr>
  <SyncBody>...</SyncBody>
</SyncML>
```

2.6 vCard 2.1 and vCalendar 1.0 URLs missing

Chapter 11: the table defining the base media types needs to be updated to look like this:

<table>
<thead>
<tr>
<th>Media Type</th>
<th>Name</th>
<th>URI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application/vnd.syncml-devinf+xml</td>
<td>SyncML Device Info v1.0 (clear text xml)</td>
<td><a href="http://www.syncml.org/supporters/docs/syncml_devinf_v10_20001207.doc">http://www.syncml.org/supporters/docs/syncml_devinf_v10_20001207.doc</a></td>
</tr>
<tr>
<td>Application/vnd.syncml-devinf+wbxml</td>
<td>SyncML Device Info v1.0 (wbxml)</td>
<td><a href="http://www.syncml.org/supporters/docs/syncml_devinf_v10_20001207.doc">http://www.syncml.org/supporters/docs/syncml_devinf_v10_20001207.doc</a></td>
</tr>
<tr>
<td>Text/plain</td>
<td>Plain Text</td>
<td><a href="http://www.ietf.org/rfc/rfc2046.txt">http://www.ietf.org/rfc/rfc2046.txt</a></td>
</tr>
<tr>
<td>Application/vnd.syncml-xcard</td>
<td>XML vCard v3.0</td>
<td>TBD</td>
</tr>
<tr>
<td>Text/x-vcalendar</td>
<td>VCalendar</td>
<td><a href="http://www.imc.org/pdi/vcal-10.doc">http://www.imc.org/pdi/vcal-10.doc</a></td>
</tr>
<tr>
<td>Text/calendar</td>
<td>iCalendar</td>
<td><a href="http://www.ietf.org/rfc/rfc2445.txt">http://www.ietf.org/rfc/rfc2445.txt</a></td>
</tr>
</tbody>
</table>

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2.7 CmdID contradictory in text and DTD
Chapters 5.5.1, 5.5.2, 5.5.3, 5.5.4, 5.5.5, 5.5.6, 5.5.7, 5.5.8, 5.5.10, 5.5.11, 5.5.12, 5.5.13, 5.5.14, 5.5.15: Change the text to indicate that the CmdID element is mandatory.

2.8 Status for multiple items in a command
Change the "Restrictions" paragraph of chapter 5.4.1 to have the following text:

"If there were multiple Item elements specified in the command, and if the items’ status code were not the same, then a Status MUST be returned for each of the items. If all of the items had the same status code, a Status for all of the items MAY be returned. In these cases the SourceRef and TargetRef elements are used to identify the Item, which the status code applies to. If all of the items in the command had the same status code, then it is also allowed to return a single Status for the entire command. When returning a single Status for a command with multiple items, the SourceRef and TargetRef elements MUST NOT be specified in the Status command."

2.9 Content format for data types
Append new section 9.4 that provides a list of content formats that servers MUST support if they are supported that particular content. The section would look like this:

9.4 Required Content Formats

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Content Format</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact</td>
<td>vCard 2.1</td>
<td>MUST</td>
</tr>
<tr>
<td></td>
<td>vCard 3.0</td>
<td>SHOULD</td>
</tr>
<tr>
<td>Calendar</td>
<td>vCalendar 1.0</td>
<td>MUST</td>
</tr>
<tr>
<td></td>
<td>iCalendar 2.0</td>
<td>SHOULD</td>
</tr>
<tr>
<td>Memos</td>
<td>text/plain</td>
<td>MUST</td>
</tr>
<tr>
<td>Tasks</td>
<td>vTodo 1.0</td>
<td>MUST</td>
</tr>
</tbody>
</table>

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2.10 Nesting of Atomic and Sequence

Change the definition of both Atomic and Sequence to not allow nesting.

In the Atomic command (section 5.5.3), add a paragraph just before the content model with the following text:

"Nested Atomic commands are not legal. A nested Atomic command will generate an error 500 - command failed."

In the Sequence command (section 5.5.x), add a paragraph just before the content model with the following text:

"Nested Sequence commands are not legal. A nested Sequence command will generate an error 500 - command failed."

2.11 Status on SyncHdr

Chapter 5.4.1: add the following sentence as a new paragraph in the "Restrictions" section:

"A Status MUST also be returned for the SyncHdr. However, if a client creates a message containing only a successful Status on a SyncHdr, the entire message MUST NOT be sent. A server MUST send this message."
3 Changes to Synchronization Protocol Specification

3.1 Clarification on Slow Sync

Insert a new paragraph #4 to the protocol document in section 5.5 with the following text:

"After the server has sent the Sync Alert, and if the client does not agree with the sync anchor in that Alert, then the Client MUST start a slow sync. This is done by sending back a Status on that Alert with Refresh Required. In this same message, the client should start the slow sync. In this case, the client MUST NOT send another Alert to start the slow sync. Note that it is not necessary for the client to compare the sync anchor from the server."

3.2 Requirement for CmdID element within Status

Chapter 4.2: Remove the last bullet saying "The CmdID element inside the Status MUST NOT be used. This rule applies for all status elements used by this protocol" of the requirement regarding the Status element (requirement #2).

Add the CmdID element into the Status element in all the examples in the specification.

3.3 Content of Item in Result Alert

Chapter 2.11.2: Change the Target and Source elements inside the Item element within the Alert command in the example to point to the client and server devices, as defined below.

```
<SyncML>
  <SyncHdr>
    <VerDTD>1.0</VerDTD>
    <VerProto>SyncML/1.0</VerProto>
    <SessionID>1</SessionID>
    <MsgID>3</MsgID>
    <Target><LocURI>http://www.syncml.org/sync-server</LocURI></Target>
    <Source><LocURI>IMEI:493005100592800</LocURI></Source>
  </SyncHdr>
  <SyncBody>
    <Alert>
      <CmdID>1</CmdID>
      <Data>221</Data>
      <Item>
        <Target><LocURI>http://www.syncml.org/sync-server</LocURI></Target>
        <Source><LocURI>IMEI:493005100592800</LocURI></Source>
      </Item>
    </Alert>
  </SyncBody>
</SyncML>
```
3.4 Changing authentication type during a session
Chapter 3.1: Add the following paragraph to the end of the section: The authentication type for a security layer MUST be kept same for the whole session.

3.5 Slow sync when no separate initialization
Chapter 5.5: Modify the fourth paragraph of the section to "If the client or the server needs to initiate the slow sync after receiving the alert for the normal synchronization, they need to send back an error status for that Alert in addition the slow sync alert. The error code, which is used in this case, MUST be 508 (Refresh required). If the client has not used a separate synchronization initialization, as specified in Chapter 2.10, it MUST send all updates in the next message to the server after receiving the error status and the Alert for a slow sync."

3.6 Support of RespURI element
Chapter 2.6.1.1: Change the text "This protocol does not require the support of the RespURI element. Either the support of the re-direction status codes (3XX) is not required." to "This protocol requires that the devices support receiving the RespURI element as specified in the SyncML Representation Protocol specification, but the support of the re-direction status codes (3XX) is not required."

3.7 Multiple messages per package functionality
Change the text in Chapter 2.9 to:

This protocol provides the functionality to transfer one SyncML package in multiple SyncML messages. This may be necessary if one SyncML package is too large to be transferred in one SyncML message. This limitation may be caused e.g., by the transport protocol or by the limitations of a small footprint device.

If a SyncML package is transferred in multiple SyncML messages, the last message in the package MUST include the Final element (See SyncML Representation protocol.). Other messages belonging to the package MUST NOT include the Final element. The Final element must only be included when all necessary commands belonging to a specific package have been sent. The final element must not be included if the other end has not closed the preceding package. E.g., if the server is still sending the package #4 to the client, the client must not close the package #5 prior to receiving the last message belonging to the package #4. The exclusion of the Final element must not be used to indicate that a logical phase is not completed if an error occurs.

If a device receives a message in which the Final flag is missing and a Sync element for a database is included, the device MUST be able to handle the case that in the next message, there is another Sync element for the same database.

The device, which receives the SyncML package containing multiple messages, MUST be able to ask for more messages. This happens by sending an Alert command with a specific
alert code, 222 back to the originator of the package, or if there are other SyncML commands to be sent as a response, the Alert command with the 222 alert code can be omitted. After receiving the message containing the Final element, the Alert command MUST NOT be used anymore.

More messages may not be desired if errors, which prevent the continuation of synchronization, have occurred.

The receiver of a package may start to send its next package at the same time when asking more messages from the originator if this makes sense. Thus, in Chapters 3-7, it is specified which commands or elements are allowed to be sent before receiving the final message belonging to a package.

Below, there is depicted an example that the sync client is sending Package #3 in multiple messages (2 messages) and the server also sends Package #4 in multiple messages (2 messages).

3.8 MD5 digest access authentication example

Chapter 3.5.2: Add the LocName element into the Pkg#1 (with credentials) in the example:

```xml
<SyncML>
  <SyncHdr>
    <VerDTD>1.0</VerDTD>
    <VerProto>SyncML/1.0</VerProto>
    <SessionID>1</SessionID>
    <MsgID>2</MsgID>
    <Target><LocURI>http://www.syncml.org/sync-server</LocURI></Target>
    <Source>
      <LocURI>IMEI:493005100592800</LocURI>
      <LocName>Bruce2</LocName> <!-- userId -->
    </Source>
  </SyncHdr>
</SyncML>
```
3.9 Authentication failure

It needs to be clarified in chapter 3.1 that in case of authentication failure (either the userid and/or password was wrong or authentication was required) requirements are:

- The response message indicating the authentication failure on server layer (see chapter 3.3) must contain only Status commands (i.e. Put, Get etc. commands MUST NOT be specified in the response)

- In case the session is continued, the next message containing the proper credentials MUST contain a Status for the SyncHdr, MUST have the same SessionID than the previous messages and the message MUST be sent to the RespURI, if it was specified in the response indicating the authentication failure.
4 Changes to Meta Information DTD Specification

4.1 Content model of SharedMem in DTD incorrect
Chapter 6: change the DTD definition in the chapter to define that the content type of the SharedMem is EMPTY:

```xml
<!ELEMENT SharedMem EMPTY>
```

4.2 Parent element of MaxMsgSize element incorrect
Chapter 5.8: change the following text in the chapter from "Parent Elements: Root element type." to Parent Elements: MetInf

4.3 FreeID element mistyped in example
Chapter 5.9: change the element in the example from `<Freel< ...>` to `<FreeID ...>`

4.4 SCR of NextNonce element
Chapter 8: change the SCR of NextNonce element to look like:

<table>
<thead>
<tr>
<th>Command</th>
<th>Support of Synchronization Server</th>
<th>Support of Synchronization Client</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Sending</td>
<td>Receiving</td>
</tr>
<tr>
<td>NextNonce</td>
<td>MUST</td>
<td>MUST</td>
</tr>
</tbody>
</table>
5 Changes to Device Information DTD Specification

5.1 SCR of DSMem element not appropriate
Chapter 8: the SCR of the DSMem element should look like:

<table>
<thead>
<tr>
<th>Element Type</th>
<th>Support of Synchronization Server</th>
<th>Support of Synchronization Client</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSMem</td>
<td>Sending: MAY, Receiving: SHOULD</td>
<td>Sending: SHOULD, Receiving: MAY</td>
</tr>
</tbody>
</table>

5.2 Content model of SharedMem in DTD incorrect
Chapter 6: change the DTD definition in the chapter to define that the content type of the SharedMem is EMPTY:

```xml
<!ELEMENT SharedMem EMPTY>
```

5.3 DevID element mistyped in some examples
The correct format of the DevID element is ‘DevID’. This needs to be corrected in all the examples, the DevID element is mistyped.

5.4 SCR of ParamName element not appropriate
Chapter 5.19: clarify that for a client it sending the ParamName element is optional if the client supports all the parameters of all the supported properties (e.g. for property TEL, parameters WORK, VOICE, HOME etc. are all supported).

Chapter 8: the SCR of the ParamName element should look like:

<table>
<thead>
<tr>
<th>Element Type</th>
<th>Support of Synchronization Server</th>
<th>Support of Synchronization Client</th>
</tr>
</thead>
<tbody>
<tr>
<td>ParamName</td>
<td>Sending: SHOULD, Receiving: MUST</td>
<td>Sending: SHOULD, Receiving: SHOULD</td>
</tr>
</tbody>
</table>

5.5 CTCap ambiguity
Changing the `<CTCap>` to look like this:

```xml
<!ELEMENT CTCap ((CTType, (PropName, (ValEnum+ | (DataType, Size?)), DisplayName?, (ParamName, (ValEnum+ | (DataType, Size?)), DisplayName?)*)*)*)+>
```
5.6 Wrong MIME type for iCalendar 2.0.
Section 5.2, 5.21, 5.22, 5.33: text/vcalendar should be text/calendar (implying iCalendar 2.0). (text/x-vcalendar implies vCalendar 1.0).
6 Changes to OBEX Binding Specification

6.1 OBEX Client/Server Clarifications

Change the third paragraph of section 3 to say:

In this specification, the SyncML client can work either as an OBEX client or as an OBEX server at the OBEX protocol layer. In consequence, the SyncML server can work either as an OBEX client or as an OBEX server. The OBEX role depends on the fact which one, the SyncML client or the SyncML server, initiates sync. Thus the SyncML Client is not necessarily the OBEX Client.

6.2 SCR for OBEX Binding Correction

Replace the SCR table in section 4.1 to show the table below:

<table>
<thead>
<tr>
<th>OBEX Operation</th>
<th>SyncML Server</th>
<th>SyncML Client</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>OBEX Client</td>
<td>OBEX Server</td>
</tr>
<tr>
<td>Connect</td>
<td>MAY</td>
<td>MUST</td>
</tr>
<tr>
<td>Disconnect</td>
<td>MAY</td>
<td>MUST</td>
</tr>
<tr>
<td>Put</td>
<td>MAY</td>
<td>MUST</td>
</tr>
<tr>
<td>Get</td>
<td>MAY</td>
<td>MUST</td>
</tr>
<tr>
<td>Abort</td>
<td>MAY</td>
<td>MUST</td>
</tr>
</tbody>
</table>

6.3 Diagram clarification

 Clarify the text with the following replacements for paragraph 2 and 3 in this section:

The following example shows the creation of an OBEX connection, the mapping of PUT and GET requests to the SyncML message transfers, and the OBEX disconnection.

This example is not intended to show a complete a SyncML Session but merely illustrates the use of PUT and GET within a SyncML OBEX binding implementation.

6.4 Mime type Corrections

Section 4.2.2 changed to:

Client implementations conforming to this specification MUST support the header with either the "application/vnd.syncml+xml" or "application/vnd.syncml+wbxml" media type values. Server implementations conforming to this specification MUST support
both "application/vnd.syncml+xml" and "application/vnd.syncml+wbxml"
media type values, as requested by the SyncML Client.
7 Changes to WSP Binding Specification

7.1 WAP version clarification
Change from WAP version 1.2 to WAP Release 2000 on page 1, 5 and 9.

7.2 Removal of confusing information
The last sentence in chapter 5.1 does not clarify anything, instead it’s only confusing.

7.3 Solution
In chapter 5.1, remove the sentence ‘This version of the specification does NOT support transferring SyncML messages across WSP using a “multipart” MIME media type.’

7.4 Wrong SyncML MIME type
Change the ‘-‘ in the MIME types in chapter 5.2 to a ‘+‘. This will have MIME types of "application/vnd.syncml+xml" or "application/vnd.syncml+wbxml".

7.5 Removal of confusing information
The fifth row in chapter 5.3.2.2 goes ‘The implementations complying with this specification MUST support the POST method.’ Actually a WAP device MUST support both the GET and the POST method and that makes this sentence a bit confusing.

7.6 Solution
In chapter 5.3.2.2, change the sentence from ‘The implementations complying with this specification MUST support the POST method.’ to ‘Of all the HTTP methods supported by WSP, the SyncML functionality only requires the POST method’.

7.7 Better explanation regarding the usage of PUSH
Add the following sentence to chapter 5.5:

‘When pushing SyncML data from the server to the client, the PUSH id 0x05 MUST be used and either of the content types defined in chapter 5.2 MUST be used.’
7.8 Update reference section
Update the current references to the proper ones (June Release 2000) and add the PUSH OTA and the PUSH Message specifications as references.

7.9 Add SCR chapter
Add the following to chapter 6, Static Conformance Requirements:

The following specifies the static conformance requirements for SyncML over WSP devices conforming to this specification.

<table>
<thead>
<tr>
<th>Element Type</th>
<th>Support of Synchronization Server</th>
<th>Support of Synchronization Client</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Sending</td>
<td>Receiving</td>
</tr>
<tr>
<td>POST</td>
<td>MUST</td>
<td>MUST</td>
</tr>
<tr>
<td>PUSH</td>
<td>MAY</td>
<td>MAY</td>
</tr>
</tbody>
</table>
8 Changes to HTTP Binding Specification

8.1 Mime type Corrections
Corrected MIME types to be either "application/vnd.syncml+xml" or "application/vnd.syncml+wbxml".

8.2 Abstract Correction
Removed paragraphs 1 and 3 from abstract, as this is no longer a draft document.