Change Document for SyncML Device Info

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SyncML Initiative

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1 Formatting Conventions

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "NOT RECOMMENDED", "MAY" and "OPTIONAL" in this document are to be interoperated as described in [RFC 2119].

1.1 Errata Type Classifications

The errata types are classified according to the following scheme:

CLARIFICATION: Textual enhancement that provides a clearer explanation of a specification item without changing any behaviour.

CORRECTION: A modification that obsoletes some items in the current published specification.

PROBLEM: A known problem for which an erratum has yet to be proposed.

2 Errata

2.1 Changing the CTCap restriction in the SCR table

2.1.1 Problem

Section 5.1 (CTCap) states that “The content type capabilities of the device SHOULD be defined”. Section 8 (Static Conformance Requirements) states that, for a client, sending CTCap is a MUST, which is inconsistent with the first statement.

2.1.2 Solution

Change the Static Conformance Requirements for a client sending CTCap to SHOULD

2.1.3 Other specifications/errata affected

SICS Proforma

2.2 Rfc 2119

2.2.1 Problem

The current definition is unclear about how to interpret a receiving element when the “Static Conformance Requirements” column defines an element as MAY.

In almost every document we have a reference to `www.ietf.org` and in chapter “Static Conformance Requirements” we have:

“In these tables, optional features are specified by a "MAY", mandatory features are specified by a "MUST" and recommended features are specified by a "SHOULD".”

2.2.2 Solution

Change the reference to RFC2119 and include the MAY definition from the RFC under the chapter “Static Conformance Requirements”:

“An implementation which does not include a particular option MUST be prepared to interoperate with another implementation which does include the option, though perhaps with reduced functionality.”

2.2.3 Other specifications/erratas affected

None.

3 Enhancements

3.1 UTC

3.1.1 Abstract

Specifies that the device supports UTC based time.

3.1.2 Added wording to Device Info

Usage: Specifies that the device supports UTC based time.

Parent Element: DevInf

Restrictions: If the client specifies UTC flag, then the server SHOULD send time in UTC form, else MUST send in local time. Client MAY send time in local or UTC format.

Content Model:

```
(EMPTY)
```

Attributes: None.

Example:

```
<DevInf>
   <VerDTD>1.1</VerDTD>
   <DevID>1218182THD012345-2</DevID>
   <DevTyp>pager</DevTyp>
   <UTC/>
   <DataStore>
   ...
   </DataStore>
</DevInf>
```

WBXML Definition:

Element Type Name	WBXML Tag Token (Hex Value)
UTC	28

Static Conformance Requirements:

UTC	MAY	MUST	MAY	MAY

3.2 SupportNumberOfChanges

3.2.1 Abstract

Specifies that the device supports number of changes

3.2.2 Added wording to Device Info

Usage: Specifies that the device supports number of changes

ParentElement: DevInf

Restrictions: Server SHOULD send <NumberOfChanges>, specified in Representation protocol specification v1.1 [1], if the client specifies <SupportNumberOfChanges/>. Server MUST NOT send <NumberOfChanges> if the client has not specified <SupportNumberOfChanges/> element in its Device Information.

Content Model:

```
(EMPTY)
```

Attributes: None.

Example:

```
(<DevInf>
   <VerDTD>1.1</VerDTD>
   <DevID>1218182THD012345-2</DevID>
   <DevTyp>pager</DevTyp>
   <SupportNumberOfChanges/>
   <DataStore>
   ...
   </DataStore>
</DevInf>
```

WBXML Definition:

Element Type Name	WBXML Tag Token (Hex Value)
SupportNumberOfChanges	29

Static Conformance Requirements:

SupportNumberOfChanges	MAY	MUST	MAY	MAY

3.3 SupportLargeObjs

3.3.1 Abstract

Specifies that the device supports handling of large objects.

3.3.2 Added wording to Device Info

Usage: Specifies that the device supports handling of large objects.

Parent Element: DevInf

Restrictions: If the sending device has specified <SupportLargeObjs/> elements in its Device Information then the receiving device MUST (for server) or SHOULD (for client) specify <MaxObjSize> in its Meta Information as specified in the Meta Information specification v1.1 [8].

Content Model:

```
(EMPTY)
```

Attributes: None.

Example:

```
<DevInf>
   <VerDTD>1.1</VerDTD>
   <DevID>1218182THD012345-2</DevID>
   <DevTyp>pager</DevTyp>
   <SupportLargeObjs/>
   <DataStore>
   ...
   </DataStore>
</DevInf>
```

WBXML Definition:

Element Type Name	WBXML Tag Token (Hex Value)
SupportLargeObjs	2A

Static Conformance Requirements:

SupportLargeObjs	SHOULD	MUST	SHOULD	SHOULD

4 References

[RFC 2119] Key words for use in RFCs to Indicate Requirement Levels, IETF.