Contents

1. SCOPE .............................................................................................................................................. 6

2. REFERENCES ......................................................................................................................................... 7
  2.1 NORMATIVE REFERENCES ........................................................................................................... 7
  2.2 INFORMATIVE REFERENCES ........................................................................................................ 7

3. TERMINOLOGY AND CONVENTIONS .............................................................................................. 8
  3.1 CONVENTIONS ............................................................................................................................... 8
  3.2 DEFINITIONS ................................................................................................................................. 8
  3.3 ABBREVIATIONS ............................................................................................................................ 8

4. INTRODUCTION .................................................................................................................................. 9
  4.1 VERSION HISTORY .......................................................................................................................... 9
    4.1.1 Version 1.0.1 .............................................................................................................................. 9
    4.1.2 Version 1.1 ............................................................................................................................... 9
    4.1.3 Version 1.2 ............................................................................................................................... 9
    4.1.4 Version 2.0 ............................................................................................................................. 9

5. DEVICE INFORMATION ....................................................................................................................... 10
  5.1 XML USAGE .................................................................................................................................. 10
  5.2 WBXML USAGE ............................................................................................................................. 11
  5.3 MIME USAGE ................................................................................................................................. 11
  5.4 DEFAULT VALUES .......................................................................................................................... 11
  5.5 SECURITY CONSIDERATIONS ....................................................................................................... 12

6. DEVICE INFORMATION MARKUP LANGUAGE .................................................................................. 13
  6.1 COMMON TYPE FOR DEVICE INFORMATION ELEMENTS .................................................... 13
    6.1.1 RxTxType .................................................................................................................................. 13
  6.2 DEVICE INFORMATION ELEMENT DESCRIPTIONS .................................................................... 13
    6.2.1 CTCap ....................................................................................................................................... 13
    6.2.2 CTTType ................................................................................................................................... 14
    6.2.3 DataStore ............................................................................................................................... 14
    6.2.4 DataType ............................................................................................................................... 16
    6.2.5 DevCap ..................................................................................................................................... 17
    6.2.6 DevID ....................................................................................................................................... 17
    6.2.7 DevInf ...................................................................................................................................... 18
    6.2.8 DevType ................................................................................................................................... 19
    6.2.9 DisplayName ............................................................................................................................ 20
    6.2.10 DSMem ................................................................................................................................... 20
    6.2.11 Ext .......................................................................................................................................... 20
    6.2.12 ExtURI .................................................................................................................................... 21
    6.2.13 FieldLevel .............................................................................................................................. 21
    6.2.14 FilterCap ............................................................................................................................... 22
    6.2.15 FilterKeyword ......................................................................................................................... 23
    6.2.16 Filter-Rx .................................................................................................................................. 23
    6.2.17 FPUuid ..................................................................................................................................... 24
    6.2.18 FwV ........................................................................................................................................ 24
    6.2.19 HwV ....................................................................................................................................... 25
    6.2.20 Man ....................................................................................................................................... 25
    6.2.21 MaxGUIDSize ......................................................................................................................... 25
    6.2.22 MaxID ..................................................................................................................................... 26
    6.2.23 MaxMem .................................................................................................................................. 26
    6.2.24 MaxOccur ............................................................................................................................... 26
    6.2.25 MaxSize .................................................................................................................................. 27
    6.2.26 MaxStoredAnchors .................................................................................................................. 27
    6.2.27 Model ..................................................................................................................................... 28
    6.2.28 OEM ....................................................................................................................................... 28
6.2.29  ParamName  ................................................................. 28
6.2.30  Property ........................................................................ 30
6.2.31  PropInfo ....................................................................... 31
6.2.32  PropName ..................................................................... 31
6.2.33  PropParam ..................................................................... 33
6.2.34  Rx ................................................................................... 34
6.2.35  Rx-Pref .......................................................................... 34
6.2.36  RXTx-CT ....................................................................... 34
6.2.37  SharedMem .................................................................... 35
6.2.38  SourceRef ...................................................................... 35
6.2.39  StoredAnchors ............................................................... 36
6.2.40  SupportAtomic ............................................................... 36
6.2.41  SupportEncryption ........................................................ 37
6.2.42  SupportFieldLevel ........................................................ 37
6.2.43  SupportHierarchicalSync ............................................. 37
6.2.44  SupportLargeObjs ........................................................ 38
6.2.45  SupportNumberOfChanges ......................................... 38
6.2.46  SupportSequence .......................................................... 39
6.2.47  SupportStfDel ................................................................. 39
6.2.48  SwV ............................................................................... 39
6.2.49  SyncCap ........................................................................ 40
6.2.50  Truncate ........................................................................ 40
6.2.51  Tx ................................................................................... 41
6.2.52  Tx-Pref .......................................................................... 41
6.2.53  UTC ............................................................................... 42
6.2.54  ValEnum ........................................................................ 42
6.2.55  ValidAnchor ................................................................. 45
6.2.56  VerCT ............................................................................ 45
6.2.57  Version ......................................................................... 45
6.2.58  XName .......................................................................... 46
6.2.59  XValue .......................................................................... 46

7.  DEVICE INFORMATION SCHEMA ................................................................. 48

8.  WBXML DEFINITIONS ................................................................. 49
8.1  ELEMENTS ........................................................................ 49
8.2  ATTRIBUTE START TOKENS ................................................. 53
8.3  ATTRIBUTE VALUE TOKENS ............................................... 54

9.  EXAMPLES ........................................................................ 56
9.1  XML ................................................................................... 56
9.2  WBXML ............................................................................ 58

10. MIME MEDIA TYPE REGISTRATION ................................................ 67
10.1  APPLICATION/VND.SYNCML-DEVINF+XML ....................... 67
10.2  APPLICATION/VND.SYNCML-DEVINF+WBXML ..................... 68

APPENDIX A.  STATIC CONFORMANCE REQUIREMENTS (NORMATIVE) ...... 70
A.1  CLIENT DEVICE INFORMATION ........................................ 70
A.2  SERVER DEVICE INFORMATION ......................................... 72

APPENDIX B.  CHANGE HISTORY (INFORMATIVE) .................................. 75
B.1  APPROVED VERSION 2.0 HISTORY ........................................ 75

TABLES

Table 1: WBXML Element Token Definitions – Tag Order ........................................ 50
Table 2: WBXML Element Token Definitions – Alphabetical Order ........................ 52
Table 3: Attribute Start Token Definitions – Alphabetical ........................................ 54

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Table 4: WBXML Attribute Value Token Definitions

55
1. Scope

This document specifies the device information syntax and semantics used by the OMA data synchronization protocol.

Please refer to [DSCONCEPTS] for further information on the OMA DS organization and history.
2. References

2.1 Normative References


[DSHISTORY]  “OMA DS Standards Change History”, Open Mobile Alliance™, OMA-WP-SyncML_ChangeHistory, URL: http://www.openmobilealliance.org/


2.2 Informative References

None.

Please refer to [DSCONCEPTS] for the other Informative References.
3. Terminology and Conventions

3.1 Conventions

The key words “MUST”, “MUST NOT”, “REQUIRED”, “SHALL”, “SHALL NOT”, “SHOULD”, “SHOULD NOT”, “RECOMMENDED”, “MAY”, and “OPTIONAL” in this document are to be interpreted as described in [RFC2119].

All sections and appendixes, except “Scope” and “Introduction”, are normative, unless they are explicitly indicated to be informative.

Any reference to components of the Data Synchronization XML Schema or XML snippets is specified in this typeface.

3.2 Definitions

Please refer to the [DSCONCEPTS] document.

3.3 Abbreviations

Please refer to the [DSCONCEPTS] document.
4. Introduction

This document defines the Schema for the XML representation of the Device Information (DevInf Schema). The DevInf
Schema is intended to be used to exchange device specific information. Exchange of device specific information such as
available memory and item identifiers, supported local databases is a prerequisite to successful data synchronization.

Data synchronization provides the means for two different networked object stores to remain in identical states. Different
forms of data synchronization can be categorized into one of a number of topologies, based on the architecture used by a data
synchronization server, or sync engine. Sync engines need to understand the features of a device they synchronize with. This
information is often stored in a Device Information document on the target device.

4.1 Version History

For a detailed change history of OMA-DS, refer to [DSHISTORY].

Specific Device Information changes include:

4.1.1 Version 1.0.1

CTCap was moved from the Syntax to the Device Information, and Version (named VerDTD at the time) was added.

4.1.2 Version 1.1

UTC, SupportNumberOfChanges, and SupportLargeObjs were added.

4.1.3 Version 1.2

Size was renamed to MaxSize. Property, PropParam, MaxOccur, Truncate (named NoTruncate at the time),
Filter-Rx, FilterCap, FilterKeyword, FieldLevel, and SupportHierarchicalSync were added.
Version (named VerDTD at the time) was added.

4.1.4 Version 2.0

DevCap, ExtURI, FPUnique, MaxStoredAnchors, SupportAtomic, SupportEncryption,
SupportFieldLevel, SupportSequence, SupportSftDel, PropInfo, Rxtx-CT, StoredAnchors, and
ValidAnchor were added. DevTyp was renamed to DevType. XNam was renamed to XName. XVal was renamed to
XValue. VerDTD was renamed to Version. The flags and simple values of DisplayName, FieldLevel,
FPUnique, MaxGUIDSize, MaxID, MaxMem, MaxStoredAnchors, ParamName, SharedMem, SupportAtomic,
SupportEncryption, SupportFieldLevel, SupportHierarchicalSync, SupportLargeObjs,
SupportNumberOfChanges, SupportSequence, SupportSftDel, Truncate, UTC, and Version were
converted from elements to attributes.
5. Device Information

5.1 XML Usage

The device information is represented in a mark up language defined by [XML]. The Device Information Schema defines the XML schema used to represent information about the capabilities of a data synchronization device.

The Device Information Schema makes use of XML name spaces. Name spaces must be declared on the first element type that uses an element type from the name space.

Names in XML are case sensitive. By convention in the Device Information Schema, the element type and attribute list names are specified with a "Hungarian" like notation of the first character in each word in upper case text and remainder of the characters in each word of the names specified in lower case text. For example, DevInf for the Device Information root element type tag.

The formal public identifier (FPI) is the traditional format for specifying unique identifiers for XML entities. The FPI for the Schema described in this specification is:

-//SyncML//Schema DevInf 2.0//EN

The name for the file object corresponding to this document on a device MUST be:

devinf20

The Device Information Schema also makes use of XML standard attributes, such as xml:lang. Any XML standard attribute can be used in a SyncML document.

Device Information documents are specified using well-formed XML. However, they need not be valid XML. That is, the Device Information documents do not need to specify the XML prolog, schema references, and namespaces. They only need to specify the body of the XML document. This restriction allows for Device Information documents to be specified with greater terseness than well-formed, valid XML documents.

The following examples should be considered equivalent:

**Fully Qualified:** This style is both well-formed and valid (provided a copy of the DevInf schema is available). This style is recommended for file formats, such as storing device information for later use, and SHOULD be used for external URI references.

```xml
<?xml version="1.0" encoding="UTF-8"?>
<DevInf xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:noNamespaceSchemaLocation="OMA-SUP-XSD_DS_DevInf_Schema-V2_0.xsd"
    Version="2.0">
    ...
</DevInf>
```

**Minimally Qualified:** This style uniquely identifies the namespace as being OMA-DS Device Information, and is well-formed, but not valid. This style SHOULD be used when Device Information is included in an OMA-DS message.

```xml
<DevInf xmlns='syncml:devinf' Version="2.0">
    ...
</DevInf>
```

**Unqualified:** This style MAY be used where the context is clear through other information.
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One of the main advantages of XML is that it is a widely accepted International recommendation for text document markup. It provides for both human readability and machine process ability. In addition, XML allows the originator to capture the structure of a document, not just its content. This is extremely useful for applications such as data synchronization, where not just content, but structure semantics is often exchanged.

The SyncML Device Information document also can be identified as a MIME content type. MIME is the Internet standard for identifying multipurpose message contents. It provides a useful mechanism for differentiating between different content and document types.

5.2 WBXML Usage

XML can be viewed as more verbose than alternative binary representations. This is often cited as a reason why it may not be appropriate for low bandwidth network protocols. In most cases, this specification uses shortened element type and attribute names. This provides a minor reduction in verbosity. Additionally, the Device Information documents can be encoded in a tokenized, binary format defined by [WBXML]. The token values used to encode the Device Information documents are defined in chapter 8 of this document. The use of [WBXML] format is external to this specification and should be transparent to any XML application supporting this Schema. The combination of the use of shortened element type and attribute names and an alternative binary format makes this specification competitive, from a compressed format perspective, with alternative, but private, binary representations for Device Information documents.

For the purposes of OMA-DS, WBXML 1.1, WBXML 1.2 and WBXML 1.3 are functionally equivalent, and all MUST be accepted in implementations that support WBXML. Effectively, this merely requires the WBXML parser to accept 01, 02 or 03 as the first byte of the document.

5.3 MIME Usage

The [RFC2045] Internet standard provides an industry-accepted mechanism for identifying different content types. A MIME media type identifies the SyncML Device Information document. The media type for the Device Information document is registered within the vendor tree. There are two MIME content types for the Device Information document. The MIME content type of *application/vnd.syncml-devinf+xml* identifies the clear-text XML representation for the Device Information document. The MIME content type of *application/vnd.syncml-devinf+wbxml* identifies the WBXML binary representation for the Device Information document. Section 9 of this specification specifies the MIME content type registration for these two MIME media types.

One of these two MIME content types MUST BE used for identifying Device Information documents within transport and session level protocols that support MIME content types.

5.4 Default Values

Various settings in the Device Information document have default values that apply if not specified. These default values were chosen to be representative of the minimum set of features for a simple, but reasonably efficient client, such that the

```xml
<DevInf Version="2.0">
  ...
</DevInf>
```

**Namespace Qualified:** This style MAY be used where Device Information is included inside other XML documents, and the appropriate namespaces are declared. This style MUST be both well-formed and valid. The choice of namespaces (for elements, and attributes) is arbitrary. The use of any style like this SHOULD NOT be used for over-the-air communications.

```xml
<devinf:DevInf devinfA:Version="2.0">
  ...
</devinf:DevInf>
```
client would only have to specify a minimum number of settings. Clients MAY override the default values, including removing support for functionality, but are cautioned to consider those choices carefully.

The features that are optional, but should generally be supported include:

- FPUnique
- Truncate
- SupportLargeObjs
- SupportNumberOfChanges

### 5.5 Security Considerations

Security considerations for Device Information are generally the same as the OMA-DS messages that they are contained in, and are addressed by the methods contained in [DSPRO].

One Device Information specific concern is to allow for receiving different device information from devices that otherwise appear to be of the same type. This would prevent a modified device implementation from sending different device information (or a new device with old identifiers), and having that information be used on inappropriate devices. In other words, device information cannot always be assumed to be the same within an entire class of devices, and the device information from a specific device may vary over time.
6. Device Information Markup Language

6.1 Common Type for Device Information Elements

The following common type is defined for the Device Information Elements.

6.1.1 RxTxType

Usage: This type definition is used in the Device Information Elements definition. It is used to specify the content type capabilities.

Used in Elements: Filter-Rx, Rx, Rx-Pref, Tx, Tx-Pref

Content Model:

```xml
<xs:complexType name="RxTxType">
  <xs:sequence>
    <xs:element ref="CTType"/>
    <xs:element ref="VerCT"/>
  </xs:sequence>
</xs:complexType>
```

Example:

```xml
<xs:element name="Rx" type="RxTxType"/>
```

6.2 Device Information Element Descriptions

The following element and attribute types are included in the Device Information Schema.

6.2.1 CTCap

Usage: Specifies the content type capabilities of the specific data store.

Parent Element: DataStore

Restrictions: The content type capabilities of the device SHOULD be defined.

Content Model:

```xml
<xs:element name="CTCap" type="CTCapType"/>
<xs:complexType name="CTCapType">
  <xs:sequence>
    <xs:element ref="CTType"/>
    <xs:element ref="VerCT"/>
    <xs:element ref="Property" maxOccurs="unbounded"/>
  </xs:sequence>
  <xs:attribute ref="FieldLevel" use="optional"/>
</xs:complexType>
```

Attributes: FieldLevel

Example:

```xml
<CTCap>
```

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<CTType>text/x-vcard</CTType>
<VerCT>2.1</VerCT>
<Property>
  <PropName>BEGIN</PropName>
  <ValEnum>VCARD</ValEnum>
</Property>
<Property>
  <PropName>END</PropName>
  <ValEnum>VCARD</ValEnum>
</Property>
<Property>
  <PropName>VERSION</PropName>
  <ValEnum>2.1</ValEnum>
</Property>
<Property>
  <PropName>N</PropName>
</Property>
<Property>
  <PropName>TEL</PropName>
  <PropParam ParamName="TYPE">
    <ValEnum>VOICE,HOME</ValEnum>
    <ValEnum>FAX,HOME</ValEnum>
    <ValEnum>VOICE,CELL</ValEnum>
  </PropParam>
</Property>
</CTCap>

6.2.2  CTType

Usage: Specifies the type of a supported content type.

Parent Elements: CTCap, Filter-Rx, FilterCap, Rx, Rx-Pref, Tx, Tx-Pref

Restrictions: If a parent element is present, this element type is required. Possible values for this element are specified in the section “Base Media and Content Formats” of [DSSYNTAX]. Other values can also be specified.

Content Model:

```xml
<x:element name="CTType" type="xs:string"/>
```

Attributes: None.

Example:

```
<CTCap>
  <CTType>text/vcard</CTType>
  ...
</CTCap>
```

6.2.3  DataStore

Usage: Specifies the properties of a given local datastore.

Parent Element: DevInf
Restrictions: One or more of the element types are required. One element type is required for each of the local datastores.

Content Model:

```xml
<xs:element name="DataStore" type="DataStoreType" />
<xs:complexType name="DataStoreType">
  <xs:sequence>
    <xs:element ref="SourceRef" />
    <xs:element ref="RxTx-CT" />
    <xs:element ref="CTCap" maxOccurs="unbounded" />
    <xs:element ref="DSMem" minOccurs="0" />
    <xs:element ref="SyncCap" />
    <xs:element ref="Filter-Rx" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element ref="FilterCap" minOccurs="0" maxOccurs="unbounded"/>
  </xs:sequence>
  <xs:attribute ref="DisplayName" use="optional"/>
  <xs:attribute ref="MaxGUIDSize" use="optional"/>
</xs:complexType>
```

Attributes: DisplayName, MaxGUIDSize

Example:

```xml
<DataStore DisplayName="Addressbook" MaxGUIDSize="32">
  <SourceRef>contacts</SourceRef>
  <RxTx-CT>
    ...
  </RxTx-CT>
  <CTCap>
    <CTType>text/vcard</CTType>
    <VerCT>3.0</VerCT>
    <Property>
      <PropName>BEGIN</PropName>
      <ValEnum>VCARD</ValEnum>
    </Property>
    <Property>
      <PropName>END</PropName>
      <ValEnum>VCARD</ValEnum>
    </Property>
    <Property>
      <PropName>VERSION</PropName>
      <ValEnum>3.0</ValEnum>
    </Property>
    <Property>
      <PropName>N</PropName>
    </Property>
    <Property>
      <PropName>TEL</PropName>
      <PropParam ParamName="TYPE">
        <ValEnum>VOICE,HOME</ValEnum>
        <ValEnum>FAX, HOME</ValEnum>
        <ValEnum>VOICE, CELL</ValEnum>
      </PropParam>
    </Property>
  </CTCap>
  <CTCap>
    <CTType>text/x-vcard</CTType>
  </CTCap>
</DataStore>
```
6.2.4 **DataType**

**Usage:** Specifies the datatype of a given content type property or parameter.

**Parent Elements:** PropInfo, PropParam

**Restrictions:** Type values for this element type are specified together with the relevant definition of the content type (e.g. for email). **DataType** MUST NOT be used for Versit types.

**Content Model:**

```xml
<xs:element name="DataType" type="xs:string" />
```

**Attributes:** None.

**Example:**

```xml
<Property>
  <PropName>read</PropName>
  <PropInfo>
    <DataType>bool</DataType>
  </PropInfo>
</Property>
```
6.2.5 DevCap

Usage: The placeholder element for some specific device capability elements.

Parent Elements: DevInf

Restrictions: This element is mandatory.

Content Model:

```
<xs:element name="DevCap" type="DevCapType"/>
<xs:complexType name="DevCapType">
  <xs:sequence>
    <xs:element ref="Man" />
    <xs:element ref="Model" />
    <xs:element ref="OEM" minOccurs="0" />
    <xs:element ref="FwV" />
    <xs:element ref="SwV" />
    <xs:element ref="HwV" />
    <xs:element ref="DevID" />
    <xs:element ref="DevType" />
  </xs:sequence>
  <xs:attribute ref="SupportAtomic" use="optional"/>
  <xs:attribute ref="SupportEncryption" use="optional"/>
  <xs:attribute ref="SupportFieldLevel" use="optional"/>
  <xs:attribute ref="SupportLargeObjs" use="optional"/>
  <xs:attribute ref="SupportNumberOfChanges" use="optional"/>
  <xs:attribute ref="SupportSftDel" use="optional"/>
  <xs:attribute ref="SupportSequence" use="optional"/>
  <xs:attribute ref="UTC" use="optional"/>
</xs:complexType>
```

Attributes: SupportAtomic, SupportEncryption, SupportFieldLevel, SupportLargeObjs, SupportNumberOfChanges, SupportSequence, UTC

Example:

```
<DevCap UTC="false">
  <Man>SomeManufacturer</Man>
  <Model>SomeModel</Model>
  <OEM>MyOEM</OEM>
  <FwV>1.0</FwV>
  <SwV>2.99</SwV>
  <HwV>2.1</HwV>
  <DevID>1218182THD012345-2</DevID>
  <DevType>pager</DevType>
</DevCap>
```

6.2.6 DevID

Usage: Specifies the identifier of the source synchronization device.

Parent Element: DevCap

Restrictions: The content information MUST specify a theoretically, globally unique identifier. This element type is mandatory. For servers the value of this identifier MUST be the same value as used for ServerID used for DS Notification.
Content Model:

```xml
<xs:element name="DevID" type="xs:string" />
```

Attributes: None.

Example:

```xml
<DevID>1218182THD012345-2</DevID>
```

### 6.2.7 DevInf

Usage: Specifies the root or document element type of the Device Information document.

Parent Element: None.

Restrictions: This element type is mandatory and MUST be the root or document element.

Content Model:

```xml
<xs:element name="DevInf" type="DevInfType">
  <xs:annotation>
    <xs:documentation>Root</xs:documentation>
  </xs:annotation>
</xs:element>

<xs:complexType name="DevInfType">
  <xs:sequence>
    <xs:element ref="ExtURI" minOccurs="0"/>
    <xs:element ref="DevCap" />
    <xs:element ref="DataStore" maxOccurs="unbounded"/>
    <xs:element ref="Ext" minOccurs="0" maxOccurs="unbounded"/>
  </xs:sequence>
  <xs:attribute ref="Version" use="required"/>
</xs:complexType>
```

Attributes:

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Occurrence</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>xmlns</td>
<td>CDATA</td>
<td>IMPLICIT</td>
<td>SHOULD be present with a value of 'syncml:devinf' for Device Information included in an OMA-DS Message. See section 5.1</td>
</tr>
</tbody>
</table>

Example:
<DevInf xmlns='syncml:devinf' Version="2.0">
  <DevCap>
    <Man>SomeManufacturer</Man>
    <Model>SomeModel</Model>
    <OEM>MyOEM</OEM>
    <FwV>1.0</FwV>
    <SwV>2.99</SwV>
    <HwV>2.1</HwV>
    <DevID>1218182THD012345-2</DevID>
    <DevType>pager</DevType>
  </DevCap>
  <DataStore>
    ...
  </DataStore>
</DevInf>

6.2.8  DevType

Usage: Specifies the type of the source synchronization device.

Parent Element: DevCap

Restrictions: Type values for this element type can be e.g. pager, handheld, pda, phone, smartphone, server, workstation, as defined in the table below. Other values can also be specified. This element type is mandatory.

<table>
<thead>
<tr>
<th>DevType</th>
<th>Type of the device</th>
</tr>
</thead>
<tbody>
<tr>
<td>pager</td>
<td>Pager</td>
</tr>
<tr>
<td>handheld</td>
<td>Handheld PC/PDA</td>
</tr>
<tr>
<td>pda</td>
<td>Palm sized PC/PDA</td>
</tr>
<tr>
<td>phone</td>
<td>Cellular phone</td>
</tr>
<tr>
<td>smartphone</td>
<td>Smartphone</td>
</tr>
<tr>
<td>server</td>
<td>Server-class computer</td>
</tr>
<tr>
<td>workstation</td>
<td>Workstation-class computer</td>
</tr>
</tbody>
</table>

Content Model:

```xml
<xs:element name="DevType" type="xs:string" />
```

Attributes: None.

Example:

```xml
<DevType>pager</DevType>
```
6.2.9 DisplayName

Usage: Specifies the display name of a given local datastore, or the display name of a given content type property or parameter.

Parent Elements: DataStore, PropInfo, PropParam

Restrictions: This attribute is optional.

Content Model:

```xml
<xs:attribute name="DisplayName" type="xs:string" />
```

Attributes: None.

Example: The following example specifies the display name of the contacts datastore.

```xml
<DataStore DisplayName="Addressbook">
  <SourceRef>./contacts</SourceRef>
  ... ...
</DataStore>
```

6.2.10 DSMem

Usage: Specifies the maximum memory and item identifier for a given local datastore.

Parent Element: DataStore

Restrictions: The element type is optional.

Content Model:

```xml
<xs:element name="DSMem" type="DSMemType" />
<xs:complexType name="DSMemType">
  <xs:attribute ref="SharedMem" use="optional" />
  <xs:attribute ref="MaxMem" use="optional" />
  <xs:attribute ref="MaxID" use="optional" />
</xs:complexType>
```

Attributes: MaxID, MaxMem, SharedMem

Example: The following example specifies a shared datastore memory.

```xml
<DSMem SharedMem="true" MaxMem="65539" MaxID="512"/>
```

6.2.11 Ext

Usage: Specifies the non-standard, experimental extensions supported by the device. The extensions are specified in terms of the XML element type name and the value.

Parent Element: DevInf
Restrictions: The Ext element type MUST specify the extension element name. It may also specify one or more enumerated values. Multiple non-standard extensions can be specified by specifying the Ext element type multiple times. This element type is optional.

Content Model:

```
<xs:element name="Ext" type="ExtType" />
<xs:complexType name="ExtType">
  <xs:sequence>
    <xs:element ref="XName" />
    <xs:element ref="XValue" minOccurs="0" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>
```

Attributes: None.

Example: The following example specifies a non-standard extension, named "CliVer" for a fictitious company, Foo, which takes values of "5.0", "5.01" or "5.02".

```
<Ext>
  <XName>X-Foo-CliVer</XName>
  <XValue>5.0</XValue>
  <XValue>5.01</XValue>
  <XValue>5.02</XValue>
</Ext>
```

6.2.12 ExtURI

Usage: Specifies the URI which stores the device information externally.

Parent Element: DevInf

Restrictions: The content information MUST specify an external device information URI. This element type is optional. If this element occurs in the DevInf element, the recipient can retrieve the device information from external storage based on the external URI.

Content Model:

```
<xs:element name="ExtURI" type="xs:anyURI"/>
```

Attributes: None.

Example:

```
<ExtURI>http://www.vendorwebsite.example.com/deviceifo/model.xml</ExtURI>
```

6.2.13 FieldLevel

Usage: Indicates that the sender is able to apply field-level replaces for the corresponding CTType.

Parent Element: CTCap

Restrictions: If the sending device has not specified the FieldLevel attribute, or it is specified as "false" in its Device Information for a particular CTType, then the receiving device MUST NOT send field-level changes.
Content Model:

```xml
<xs:attribute name="FieldLevel" type="xs:boolean" default="false" />
```

Example:

```xml
<CTCap FieldLevel="true">
  <CTType>x-type/x-subtype</CTType>
  <VerCT>2.1</VerCT>
  <Property>
    <PropName>Field1</PropName>
    <ValEnum>Field1PossibleValue1</ValEnum>
    <ValEnum>Field1PossibleValue2</ValEnum>
  </Property>
  <Property>
    <PropName>Field2</PropName>
  </Property>
  <Property>
    <PropName>Field3</PropName>
    <PropParam ParamName="Subfield1">
      <ValEnum>PossibleSubfieldValue1</ValEnum>
      <ValEnum>PossibleSubfieldValue2</ValEnum>
      <ValEnum>PossibleSubfieldValue3</ValEnum>
    </PropParam>
  </Property>
</CTCap>
```

### 6.2.14 FilterCap

**Usage:** Indicates the filtering capabilities.

**Parent Element:** DataStore

**Restrictions:** For every Filter-Rx element, there MUST be a FilterCap element containing CTType and VerCT elements matching the CTType and VerCT elements specified in the FilterCap element. Adding a FilterCap element without any FilterKeyword or any PropName elements signifies that record level filtering is unsupported but field level filtering is.

**Content Model:**

```xml
<xs:element name="FilterCap" type="FilterCapType" />
```

```xml
<xs:complexType name="FilterCapType">
  <xs:sequence>
    <xs:element ref="CTType"/>
    <xs:element ref="VerCT"/>
    <xs:element ref="FilterKeyword" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element ref="PropName" minOccurs="0" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>
```

**Attributes:** None.

**Example:**

...
6.2.15 FilterKeyword

Usage: Indicates a record level filter keyword that can be used in the Filter Record queries.

Parent Element: FilterCap

Restrictions: These keywords MUST be either one of the generic filter keywords listed below or a valid property name for any base media types specified in the Datastore CTCap elements.

<table>
<thead>
<tr>
<th>Keywords</th>
<th>Description</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEFORE</td>
<td>Items whose date is earlier than the specified date</td>
<td>Date</td>
</tr>
<tr>
<td>SINCE</td>
<td>Items whose date is within or later than the specified date</td>
<td>Date</td>
</tr>
<tr>
<td>UNSEEN</td>
<td>Items that are flagged as &quot;unseen&quot;</td>
<td>Boolean</td>
</tr>
<tr>
<td>GROUP</td>
<td>Items that are part of the specified group or category. Note: since vCard 2.1 does not support the CATEGORIES property, this keyword can be used to filter contacts based on CATEGORIES in both vCard 2.1 and vCard 3.0</td>
<td>Text</td>
</tr>
</tbody>
</table>

Content Model:

```xml
<xsd:element name="FilterKeyword" type="xs:string" />
```

Attributes: None.

6.2.16 Filter-Rx

Usage: Specifies the supported filter grammars that can be received by the data store.

Parent Element: DataStore

Restrictions: If a device supports filtering for a specific data store, then at least one Filter-Rx element MUST be present and it MUST support at least the "syncml:filtertype-cgi" grammar. The following example shows the minimum requirements for a device that supports filtering on a specific data store.

Content Model:

```xml
<xsd:element name="Filter-Rx" type="RxTxType" />
```

Attributes: None.
Example:

```xml
<Datastore>
  ...
  <Filter-Rx>
    <CTType>syncml:filtertype-cgi</CTType>
    <VerCT>1.0</VerCT>
  </Filter-Rx>
  ...
</Datastore>
```

### 6.2.17 FPUnique

**Usage:** Specifies if the fingerprints of the data items are unique for one data store.

**Parent Element:** SyncCap

**Restrictions:** If this attribute is set to “true” (or not present), then it shows that the fingerprints of the data items in the data store are unique. If the fingerprints are unique, then the server can do a more efficient duplicate detection. See [DSPRO] section 5.2.

**Content Model:**

```xml
<x:s:attribute name="FPUnique" type="xs:boolean" default="true" />
```

**Example:**

```xml
<Datastore>
  <SyncCap FPUnique="true">
    ...
  </SyncCap>
  ...
</Datastore>
```

### 6.2.18 FwV

**Usage:** Specifies the firmware version of the device.

**Parent Element:** DevCap

**Restrictions:** If there is no firmware version of the device available, then the content information can also be a date. If the content information is a date, then it MUST be formatted as a complete representation, basic format of a [DEIF] date or date and UTC time of day. For example, 19980114 or 19990714T133000Z. Only hours, minutes and second MUST be specified in the time component.

**Content Model:**

```xml
<x:s:element name="FwV" type="xs:string" />
```

**Attributes:** None.

**Example:**

```xml
<FwV>1.01</FwV>
```
6.2.19 HwV

Usage: Specifies the hardware version of the device.

Parent Element: DevCap

Restrictions: If there is no hardware version of the device available, then the content information can also be a date. If the content information is a date, then it MUST be formatted as a complete representation, basic format of a [DEIF] date or date and UTC time of day. For example, 19980114 or 19990714T133000Z. Only hours, minutes and second MUST be specified in the time component.

Content Model:

```xml
<xs:element name="HwV" type="xs:string" />
```

Attributes: None.

Example:

```xml
<HwV>0.1a</HwV>
```

6.2.20 Man

Usage: Specifies the name of the manufacturer of the device.

Parent Element: DevCap

Restrictions: None.

Content Model:

```xml
<xs:element name="Man" type="xs:string" />
```

Attributes: None.

Example:

```xml
<Man>Foo Industries, Inc.</Man>
```

6.2.21 MaxGUIDSize

Usage: Specifies the maximum size in bytes of a global unique identifier for a given local datastore, which the device is able to receive and store.

Parent Element: DataStore

Restrictions: Content information MUST be specified as the number indicating the maximum size in bytes of the temporary GUID the client device is able to receive and store for a given local datastore, and the server is allowed to send. The device acting as a client MUST, and the device acting as a server MUST NOT send this information.

Content Model:

```xml
<xs:attribute name="MaxGUIDSize" type="xs:unsignedInt" />
```

Attributes: None.

Example: The following is an example of a client capable of receiving and storing a maximum 2 bytes long GUID.
<DataStore DisplayName="Addressbook" MaxGUIDSize="32">
  <SourceRef>contacts</SourceRef>
  ...
</DataStore>

### 6.2.22 MaxID

**Usage:** Specifies the maximum number of items that can be stored in a given local datastore.

**Parent Element:** DSmem

**Restrictions:** The attribute value is the maximum number of item identifiers that are available for all items in the local datastore.

**Content Model:***

```xml
<xs:attribute name="MaxID" type="xs:unsignedInt" />
```

**Example:** The following is an example of a maximum of 1024 items.

```xml
<DSmem MaxID="1024" />
```

### 6.2.23 MaxMem

**Usage:** Specifies the maximum memory size for a given local datastore, in bytes.

**Parent Element:** DSmem

**Restrictions:** The attribute value is the maximum number of free bytes of memory available in the local database.

**Content Model:**

```xml
<xs:attribute name="MaxMem" type="xs:unsignedLong" />
```

**Example:** The following is an example of 65539 bytes.

```xml
<DSmem MaxMem="65539" />
```

### 6.2.24 MaxOccur

**Usage:** The maximum number of occurrences of a property of the same type supported within a single object.

**Parent Element:** PropInfo

**Restrictions:** Optional tag. If the sending device has specified the `MaxOccur` element in its Device Information for a particular field, then the receiving device MUST NOT (for server) or SHOULD NOT (for client) send more than the specified number of property values for this property.

**Content Model:**

```xml
<xs:element name="MaxOccur" type="xs:unsignedInt" />
```

**Attributes:** None.

**Example:**
6.2.25 MaxSize

Usage: Specifies the maximum size in UTF-8 characters of a given property value.

Parent Element: PropInfo

Restrictions: The sender MUST truncate the property to the specified size if the Truncate attribute is not present, or set to "true". If the Truncate attribute is set to "false", and the property value exceeds the maximum size, the property MUST NOT be sent to the client. If the maximum size is 0, this behaviour will also be observed. In that case, if the Truncate attribute set to "false", a property with an empty value MUST be sent.

Content Model:

```
<xs:element name="MaxSize" type="MaxSizeType" />
```

Attributes: Truncate

Example:

```
<Property>
  <PropName>TEL</PropName>
  <PropInfo>
    <MaxSize>256</MaxSize>
  </PropInfo>
  <PropParam ParamName="TYPE">
    <ValEnum>VOICE,HOME</ValEnum>
    <ValEnum>FAX,HOME</ValEnum>
    <ValEnum>VOICE,CELL</ValEnum>
  </PropParam>
</Property>
```

6.2.26 MaxStoredAnchors

Usage: Specifies the maximum number of sync anchors that might be stored by the device. This can be used to support multiple backup sets, or Undo functionality. The value specified is only a guideline for how many anchors may be stored,
other limits may apply. The supported number of anchors must be at least One, for storing at least the previous (was Next, will be Last) Sync Anchor until the start of the next Sync.

**Parent Element:** StoredAnchors

**Restrictions:** This attribute SHOULD be present for a device that supports multiple sync anchors.

**Content Model:**

```xml
<xs:attribute name="MaxStoredAnchors" type="xs:unsignedInt" />
```

### 6.2.27 Model

**Usage:** Specifies the model name or model number of the device.

**Parent Element:** DevCap

**Restrictions:** This element type is mandatory and must describe the external model identification as accurately as possible. It is not necessary to identify cosmetic or post production changes such as color or external logos that do not affect the operation of the device.

**Content Model:**

```xml
<xs:element name="Model" type="xs:string" />
```

**Attributes:** None.

**Example:**

```xml
<Model>1447</Model>
```

### 6.2.28 OEM

**Usage:** Specifies the OEM (Original Equipment Manufacturer) of the device.

**Parent Element:** DevInf

**Restrictions:** This element type is optional.

**Content Model:**

```xml
<xs:element name="OEM" type="xs:string" />
```

**Attributes:** None.

**Example:**

```xml
<OEM>Bar Works, Ltd.</OEM>
```

### 6.2.29 ParamName

**Usage:** Specifies supported parameters of a given content type property.

**Parent Element:** PropParam
Restrictions: If the content type is either text/x-vcard, text/vcard, text/x-vcalendar, text/calendar, application/vnd.omads-email+xml, application/vnd.omads-file+xml, or application/vnd.omads-folder+xml, the value for this attribute MUST be one of the values defined in the table below, or an extension value starting with ‘X’. Sending the ParamName attribute is optional if the device supports all the parameters of all the supported properties.

<table>
<thead>
<tr>
<th>text/x-vcard</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PropName</td>
<td>ParamName</td>
</tr>
<tr>
<td>ADR</td>
<td>TYPE</td>
</tr>
<tr>
<td>EMAIL</td>
<td>TYPE</td>
</tr>
<tr>
<td>LABEL</td>
<td>TYPE</td>
</tr>
<tr>
<td>TEL</td>
<td>TYPE</td>
</tr>
<tr>
<td>PHOTO</td>
<td>TYPE</td>
</tr>
<tr>
<td>SOUND</td>
<td>TYPE</td>
</tr>
<tr>
<td>KEY</td>
<td>TYPE</td>
</tr>
<tr>
<td>LOGO</td>
<td>TYPE</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>text/x-vcalendar</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PropName</td>
<td>ParamName</td>
</tr>
<tr>
<td>ATTENDEE</td>
<td>ROLE, STATUS, RSVP, EXPECT</td>
</tr>
<tr>
<td>AALARM</td>
<td>TYPE</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>text/vcard</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PropName</td>
<td>ParamName</td>
</tr>
<tr>
<td>LOGO</td>
<td>TYPE</td>
</tr>
<tr>
<td>LABEL</td>
<td>TYPE</td>
</tr>
<tr>
<td>PHOTO</td>
<td>TYPE</td>
</tr>
<tr>
<td>ADR</td>
<td>TYPE</td>
</tr>
<tr>
<td>TEL</td>
<td>TYPE</td>
</tr>
<tr>
<td>EMAIL</td>
<td>TYPE</td>
</tr>
<tr>
<td>SOUND</td>
<td>TYPE</td>
</tr>
<tr>
<td>KEY</td>
<td>TYPE</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>text/calendar</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PropName</td>
<td>ParamName</td>
</tr>
<tr>
<td>LOGO</td>
<td>TYPE</td>
</tr>
<tr>
<td>LABEL</td>
<td>TYPE</td>
</tr>
<tr>
<td>PHOTO</td>
<td>TYPE</td>
</tr>
<tr>
<td>ADR</td>
<td>TYPE</td>
</tr>
<tr>
<td>TEL</td>
<td>TYPE</td>
</tr>
<tr>
<td>EMAIL</td>
<td>TYPE</td>
</tr>
<tr>
<td>SOUND</td>
<td>TYPE</td>
</tr>
<tr>
<td>KEY</td>
<td>TYPE</td>
</tr>
<tr>
<td>PropName</td>
<td>ParamName</td>
</tr>
<tr>
<td>-------------</td>
<td>---------------------------------</td>
</tr>
<tr>
<td>ATTENDEE</td>
<td>CN, CUTYPE, DELEGATED-FROM, DELEGATED-TO, DIR, LANGUAGE, MEMBER, PARTSTAT, ROLE, RSVP, SENT-BY</td>
</tr>
<tr>
<td>ORGANIZER</td>
<td>CN, DIR, LANGUAGE, SENT-BY</td>
</tr>
</tbody>
</table>

### application/vnd.omads-file

<table>
<thead>
<tr>
<th>PropName</th>
<th>ParamName</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATTRIBUTES</td>
<td>H, S, A, D, W, R, X</td>
</tr>
<tr>
<td>BODY</td>
<td>ENC</td>
</tr>
</tbody>
</table>

### application/vnd.omads-email

<table>
<thead>
<tr>
<th>PropName</th>
<th>ParamName</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMAILITEM</td>
<td>ENC, TEXTTYPE, ATTACHTYPE</td>
</tr>
</tbody>
</table>

### application/vnd.omads-folder

<table>
<thead>
<tr>
<th>PropName</th>
<th>ParamName</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATTRIBUTES</td>
<td>H, S, A, D, W, R, X</td>
</tr>
</tbody>
</table>

**Content Model:**

```xml
<xs:attribute name="ParamName" type="xs:string" />
```

**Example:** The following is an example of supporting both the CN and ROLE parameters of the vCalendar ATTENDEE property.

```xml
<Property>
  <PropName>ATTENDEE</PropName>
  <PropParam ParamName="CN"/>
  <PropParam ParamName="ROLE"/>
</Property>
```

### 6.2.30 Property

**Usage:** Specifies a supported property of a given content type.

**Parent Element:** CTCap

**Restrictions:** The content type capabilities of the device SHOULD be defined.

**Content Model:**

```xml
<xs:element name="Property" type="PropertyType" />
<xs:complexType name="PropertyType">
  <xs:sequence>
  </xs:sequence>
</xs:complexType>
```
Attributes: None.

Example:

```xml
<Property>
    <PropName>TEL</PropName>
    <PropInfo>
        <MaxOccur>3</MaxOccur>
        <MaxSize Truncate="false">255</MaxSize>
    </PropInfo>
    <PropParam ParamName="TYPE">
        <ValEnum>VOICE,HOME</ValEnum>
        <ValEnum>FAX,HOME</ValEnum>
        <ValEnum>VOICE,CELL</ValEnum>
    </PropParam>
</Property>
```

6.2.31 PropInfo

Usage: The placeholder element for some property information elements.

Parent Element: Property

Restrictions: This element is optional.

Content Model:

```xml
<xs:element name="PropInfo" type="PropInfoType" />
<xs:complexType name="PropInfoType">
    <xs:sequence>
        <xs:element ref="DataType" minOccurs="0"/>
        <xs:element ref="MaxOccur" minOccurs="0"/>
        <xs:element ref="MaxSize" minOccurs="0"/>
    </xs:sequence>
    <xs:attribute ref="DisplayName" use="optional"/>
</xs:complexType>
```

Attributes: DisplayName

Example:

```xml
<PropInfo>
    <MaxSize Truncate="false">255</MaxSize>
</PropInfo>
```

6.2.32 PropName

Usage: Specifies a supported property of a given content type.
Parent Element: Property

Restrictions: If the content type is either text/x-vcard, text/vcard, text/x-vcalendar, text/calendar, application/vnd.omads-email+xml, application/vnd.omads-file+xml, or application/vnd.omads-folder+xml, the value for this element type MUST be one of the values defined in the table below, or an extension value starting with ‘X’.

<table>
<thead>
<tr>
<th>Content type</th>
<th>PropName</th>
</tr>
</thead>
<tbody>
<tr>
<td>text/x-vcard</td>
<td>BEGIN, VERSION, END, FN, N, PHOTO, BDAY, ADR, LABEL, TEL, EMAIL, MAILER, TZ, GEO, TITLE, ROLE, LOGO, AGENT, ORG, NOTE, REV, SOUND, URL, UID, KEY</td>
</tr>
<tr>
<td>text/x-vcalendar</td>
<td>BEGIN, VERSION, END, DAYLIGHT, GEO, PRODID, TZ, ATTACH, ATTENDEE, AALARM, CATEGORIES, CLASS, DCREATED, COMPLETED, DESCRIPTION, DALARM, DUE, DTEND, EXDATE, EXRULE, LAST-MODIFIED, LOCATION, MALARM, RNUM, PRIORITY, PALARM, RELATED-TO, RDATE, RRULE, RESOURCES, SEQUENCE, DTSTART, STATUS, SUMMARY, TRANSP, URL, UID, VALUE, RSVP, ENCODING</td>
</tr>
<tr>
<td>text/vcard</td>
<td>BEGIN, VERSION, END, FN, N, NICKNAME, PHOTO, BDAY, ADR, LABEL, TEL, EMAIL, MAILER, TZ, GEO, TITLE, ROLE, LOGO, AGENT, ORG, CATEGORIES, NOTE, REV, SOUND, URL, UID, CLASS, KEY</td>
</tr>
<tr>
<td>text/calendar</td>
<td>ALTREP, CN, CUTYPE, DELEGATED-TO, DELEGATED-FROM, DIR, ENCODING, FBTYPE, LANGUAGE, MEMBER, PARTSTAT, RANGE, RELATED, RELTYPE, ROLE, RSVP, TZID, VALUE, BEGIN, END, VERSION, CALSCALE, GEO, METHOD, PRODID, TZ, VERSION, ATTACH, CATEGORIES, CLASS, COMMENT, DESCRIPTION, LOCATION, PERCENT-COMPLETE, PRIORITY, RESOURCES, STATUS, SUMMARY, COMPLETED, DTEND, DUE, DTSTART, DURATION, FREEBUSY, TRANSP, TZNAME, TZOFFSETFROM, TZOFFSETTO, TZURL, ATTENDEE, CONTACT, ORGANIZER, RECURRIENCE-ID, RELATED-TO, URL, UID, EXDATE, EXRULE, RDATE, RNUM, RRULE, ACTION, REPEAT, TRIGGER, CREATED, DTSTAMP, LAST-MODIFIED, SEQUENCE, XTOKEN, REQUEST-STATUS</td>
</tr>
<tr>
<td>application/vnd.omads-email</td>
<td>EMAIL, READ, FORWARD, REPLIED, RECEIVED, CREATED, MODIFIED, DELETED, FLAGGED, EMAILITEM, EXT, XNAM, XVAL</td>
</tr>
<tr>
<td>application/vnd.omads-file</td>
<td>FILE, NAME, CREATED, MODIFIED, ACCESSED, ATTRIBUTES, CTCTYPE, BODY, SIZE, EXT, XNAM, XVAL</td>
</tr>
<tr>
<td>application/vnd.omads-folder</td>
<td>FOLDER, NAME, CREATED, MODIFIED, ACCESSED, ATTRIBUTES, ROLE, EXT, XNAM, XVAL</td>
</tr>
</tbody>
</table>

Content Model:

```xml
<xs:element name="PropName" type="xs:string" />
```

Attributes: None.

Example: The following is an example of supporting properties BEGIN, VERSION, DTSTART, DTEND, DESCRIPTION, END of the text/x-vcalendar content type.
6.2.33 PropParam

Usage: Specifies a supported parameter of a given property

Parent Element: Property

Restrictions: The content type capabilities of the device SHOULD be defined. If an enumeration of the possible parameter values is provided in `ValEnum`, then only these values or their combinations are allowed.

Content Model:

```
<xs:element name="PropParam" type="PropParamType" />
```

```
<xs:complexType name="PropParamType">
  <xs:sequence>
    <xs:element ref="DataType" minOccurs="0"/>
    <xs:element ref="ValEnum" minOccurs="0" maxOccurs="unbounded"/>
  </xs:sequence>
  <xs:attribute ref="DisplayName" use="optional"/>
  <xs:attribute ref="ParamName" use="optional"/>
</xs:complexType>
```

Attributes: `DisplayName`, `ParamName`

Example:

```
<PropParam ParamName="TYPE">
  <ValEnum>VOICE, HOME</ValEnum>
```
6.2.34 Rx

Usage: Specifies the supported type and version of a content type received by the specific data store.

Parent Element: RxTx-CT

Restrictions: This element type is optional.

Content Model:

```xml
<xs:element name="Rx" type="RxTxType" />
```

Attributes: None.

Example:

```xml
<Rx>
  <CTType>text/x-vcard</CTType>
  <VerCT>2.1</VerCT>
</Rx>
```

6.2.35 Rx-Pref

Usage: Specifies the preferred type and version of a content type received by the device.

Parent Element: RxTx-CT

Restrictions: The Rx-Pref element type is required for each specified datastore.

Content Model:

```xml
<xs:element name="Rx-Pref" type="RxTxType" />
```

Attributes: None.

Example:

```xml
<Rx-Pref>
  <CTType>text/vcard</CTType>
  <VerCT>3.0</VerCT>
</Rx-Pref>
```

6.2.36 RxTx-CT

Usage: The placeholder element for some receiving and transmitting content type information elements.

Parent Element: DataStore

Restrictions: This element is mandatory.

Content Model:
<xs:element name="RxTx-CT" type="RxTxCTType"/>
<xs:complexType name="RxTxCTType">
  <xs:sequence>
    <xs:element ref="Rx-Pref" />
    <xs:element ref="Rx" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element ref="Tx-Pref" />
    <xs:element ref="Tx" minOccurs="0" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>

Attributes: None.

Example:

```xml
<RxTx-CT>
  <Rx-Pref> ... <Rx-Pref>
  <Rx> ... <Rx>
  <Tx-Pref> ... <Tx-Pref>
  <Tx> ... <Tx>
</RxTx-CT>
```

6.2.37 SharedMem

Usage: Specifies if the datastore memory is shared. If the memory is shared, the actual memory space is used also by other datastores, and the actual memory space may be more limited than in theory it might be.

Parent Element: DSMem

Restrictions: When specified as “true” the given datastore memory is shared

Content Model:

```xml
<xs:attribute name="SharedMem" type="xs:boolean" default="false" />
```

Example: The following is an example of shared datastore memory.

```xml
<DSMem SharedMem="true" MaxMem="65539" MaxID="512" />
```

6.2.38 SourceRef

Usage: Specifies the reference URI for a local data store.

Parent Element: DataStore

Restrictions: If the DataStore element type is present, then the SourceRef element type is required. The content information of this element type is the name of the datastore.

Content Model:

```xml
<xs:element name="SourceRef" type="xs:string" />
```

Attributes: None.
Example: The following is an example of a source reference to the InBox database.

```xml
<SourceRef>InBox</SourceRef>
```

### 6.2.39 StoredAnchors

**Usage:** Top level element for the current and maximum number of stored anchors. Stored anchors are useful for restoring previous data sets.

**Parent Element:** SyncCap

**Restrictions:** This element SHOULD be present for a device that supports multiple sync anchors, such as a server used for backup and restore.

**Content Model:**

```xml
<xs:element name="StoredAnchors" type="StoredAnchorsType"/>
<xs:complexType name="StoredAnchorsType">
  <xs:sequence>
    <xs:element ref="ValidAnchor" minOccurs="0" maxOccurs="unbounded"/>
  </xs:sequence>
  <xs:attribute ref="MaxStoredAnchors"/>
</xs:complexType>
```

**Attributes:** MaxStoredAnchors

Example: The following is an example of a device declaring that can support up to 5 backup/restore points, with 3 data sets currently available for restore operations.

```xml
<DevInf xmlns='syncml:devinf'>
  <DevCap>...
  </DevCap>
  <DataStore>
    <SyncCap>
      <StoredAnchors MaxStoredAnchors="5">
        <ValidAnchor>2008-10-19T12:13:00Z</ValidAnchor>
        <ValidAnchor>2008-12-14T15:17:00Z</ValidAnchor>
        <ValidAnchor>2009-02-08T07:19:00Z</ValidAnchor>
      </StoredAnchors>
    </SyncCap>...
  </DataStore>
</DevInf>
```

### 6.2.40 SupportAtomic

**Usage:** Specifies that the device supports atomic attribute.

**Parent Element:** DevCap

**Restrictions:** This attribute MUST be present and specified as "true" for a device that supports the `atomic` attribute.

**Content Model:**
6.2.41  SupportEncryption

Usage: Specifies that the device supports data encryption.

Parent Element: DevCap

Restrictions: This attribute MUST be present and specified as "true" for a device that supports data encryption.

Content Model:

```xml
<xs:attribute name="SupportEncryption" type="xs:boolean" default="false"/>
```

6.2.42  SupportFieldLevel

Usage: Specifies that the device supports field level replace.

Parent Element: DevCap

Restrictions: This attribute MUST be present and specified as "true" for a device that supports field level replace.

Content Model:

```xml
<xs:attribute name="SupportFieldLevel" type="xs:boolean" default="false"/>
```

6.2.43  SupportHierarchicalSync

Usage: Indicates the support for hierarchical sync. Note that this does not indicate the type of hierarchical contents that are supported.

Parent Element: SyncCap

Restrictions: This attribute MUST be present and specified as "true" for a Datastore that supports hierarchical synchronisation.

Content Model:

```xml
<xs:attribute name="SupportHierarchicalSync" type="xs:boolean" default="false"/>
```

Example:

```xml
<DevInf xmlns='syncml:devinf' Version='2.0'>
  <DevCap>
    ...
  </DevCap>
  <DataStore>
    ...
    <SyncCap SupportHierarchicalSync='true'>
      ...
    </SyncCap>
  </DataStore>
</DevInf>
```
6.2.44 SupportLargeObjs

Usage: Specifies that the device supports receiving large objects.

Parent Element: DevCap

Restrictions: This attribute MUST be absent, or present and specified as "true" for a device that supports large objects. This attribute MUST be present and specified as "false" for a device that does not support large objects.

Content Model:

```xml
<xs:attribute name="SupportLargeObjs" type="xs:boolean" default="true"/>
```

Example:

```xml
<DevInf xmlns='syncml:devinf' Version="2.0">
  <DevCap SupportLargeObjs="true">
    <Man>SomeManufacturer</Man>
    <Model>SomeModel</Model>
    <OEM>MyOEM</OEM>
    <FwV>1.0</FwV>
    <SwV>2.99</SwV>
    <HwV>2.1</HwV>
    <DevID>12181B2THD012345-2</DevID>
    <DevType>pager</DevType>
  </DevCap>
  <DataStore>
    ...
  </DataStore>
</DevInf>
```

6.2.45 SupportNumberOfChanges

Usage: Specifies that the device supports NumberOfChanges Element (see [DSSYNTAX]).

Parent Element: DevCap

Restrictions:

If the client does not specify, or specifies SupportNumberOfChanges as "true" in its Device Information, then the server MUST send the NumberOfChanges element (see section "NumberOfChanges" in [DSSYNTAX]).

If the client specifies SupportNumberOfChanges as "false" in its Device Information, then the server MUST NOT send the NumberOfChanges element.

Content Model:

```xml
<xs:attribute name="SupportNumberOfChanges" type="xs:boolean" default="true"/>
```

Example:
6.2.46 SupportSequence

Usage: Specifies that the device supports the sequence attribute.

Parent Element: DevCap

Restrictions: This attribute MUST be present and specified as "true" for a device that supports the sequence attribute.

Content Model:

```xml
<xs:attribute name="SupportSequence" type="xs:boolean" default="false" />
```

6.2.47 SupportSftDel

Usage: Specifies that the device supports soft deletion.

Parent Element: DevCap

Restrictions: This attribute MUST be present and specified as "true" for a device that supports soft deletion.

Content Model:

```xml
<xs:attribute name="SupportSftDel" type="xs:boolean" default="false" />
```

6.2.48 SwV

Usage: Specifies the software version of the device.

Parent Element: DevCap

Restrictions:

This element type is mandatory, and must uniquely identify the specific software build or version.

If there is no software version of the device available, then the content information can also be a date. A software version can also have a date appended to it. If the content information includes a date, then it MUST be formatted as a complete representation, basic format of a [DEIF] date or date and UTC time of day. For example, 19980114 or 19990714T133000Z.
Only hours, minutes and second MUST be specified in the time component. This element type is mandatory, and must uniquely identify the specific software build or version.

Content Model:

```
<xs:element name="SwV" type="xs:string" /> 
```

Attributes: None.

Example:

```
<SwV>0.1a</SwV>
```

6.2.49 SyncCap

Usage: Specifies the synchronization capabilities of the given local datastore.

Parent Element: DataStore

Restrictions: This element is mandatory.

Content Model:

```
<xs:element name="SyncCap" type="SyncCapType"/>
<xs:complexType name="SyncCapType">
<xs:sequence>
  <xs:element ref="StoredAnchors" minOccurs="0"/>
</xs:sequence>
<xs:attribute ref="FPUnique" use="optional"/>
<xs:attribute ref="SupportHierarchicalSync" use="optional"/>
</xs:complexType>
```

Attributes: FPUnique, SupportHierarchicalSync

Example: The following is an example declaring that the fingerprints are unique for a particular datastore.

```
<DataStore>
  ...
  <SyncCap FPUnique="true">
   ...
  </SyncCap>
  ...
</DataStore>
```

6.2.50 Truncate

Usage: Specifies if truncation is permitted should a property value exceed the maximum size as specified by the MaxSize tag. If the maximum size is exceeded with Truncate set to false, the property MUST NOT be sent.

Parent Element: MaxSize

Restrictions: If the sending device has specified the Truncate attribute with a value of false in its Device Information for a particular field, then the receiving device MUST NOT (for server) or SHOULD NOT (for client) send a value for the field that has been, or would be truncated.

Content Model:
Attributes: None.

Example:

```xml
<Property>
  <PropName>TEL</PropName>
  <PropInfo>
    <MaxSize Truncate="false">255</MaxSize>
  </PropInfo>
  <PropParam ParamName="TYPE">
    <ValEnum>VOICE,HOME</ValEnum>
    <ValEnum>FAX,HOM</ValEnum>
    <ValEnum>VOICE,CELL</ValEnum>
  </PropParam>
</Property>
```

### 6.2.51 Tx

**Usage:** Specifies the supported type and version of a content type transmitted by the device.

**Parent Element:** RxTx-CT

**Restrictions:** This element type is optional.

**Content Model:**

```xml
<x:element name="Tx" type="RxTxType" />
```

**Attributes:** None.

**Example:**

```xml
<Tx>
  <CTType>text/x-vcard</CTType>
  <VerCT>2.1</VerCT>
</Tx>
```

### 6.2.52 Tx-Pref

**Usage:** Specifies the preferred type and version of a content type transmitted by the device.

**Parent Element:** RxTx-CT

**Restrictions:** The Tx-Pref element type is required for each specified datastore.

**Content Model:**

```xml
<x:element name="Tx-Pref" type="RxTxType"/>
```

**Attributes:** None.

**Example:**

```xml
<Tx-Pref>
```

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6.2.53 UTC

Usage: Specifies that the device supports UTC based time.

Parent Element: DevCap

Restrictions: If UTC attribute is present and specified as "true", 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:

```xml
<xs:attribute name="UTC" type="xs:boolean" default="false" />
```

Example:

```xml
<DevInf xmlns='syncml:devinf' "Version=2.0">
  <DevCap UTC="true">
    ...
  </DevCap>
  <DataStore>
    ...
  </DataStore>
</DevInf>
```

6.2.54 ValEnum

Usage: Specifies the supported enumerated value of a given content type property.

Parent Elements: Property, PropParam

Restrictions: If the content type is either text/x-vcard, text/vcard, text/x-vcalendar or text/calendar, the value for this element type MUST be one or alternatively a comma-separated list of the values defined in the table below, or an extension value starting with ‘X’.

If a comma-separated list is used to specify possible values then:

- The ordering of values is irrelevant (e.g. VOICE, HOME is the same as HOME, VOICE).
- Other than listed parameter combinations are not supported for Property. That is, a combination VOICE, CELL, HOME does not mean that also e.g. HOME and VOICE alone or HOME, CELL combination is supported.

<table>
<thead>
<tr>
<th>Text/x-vcard</th>
<th>ValEnum</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEGIN</td>
<td>VCARD</td>
</tr>
<tr>
<td>END</td>
<td>VCARD</td>
</tr>
<tr>
<td>PropName(;PropParam)</td>
<td>ValEnum</td>
</tr>
<tr>
<td>---------------------</td>
<td>---------</td>
</tr>
<tr>
<td>BEGIN</td>
<td>VCALENDAR, VEVENT, VTTODO</td>
</tr>
<tr>
<td>END</td>
<td>VCALENDAR, VEVENT, VTTODO</td>
</tr>
<tr>
<td>VERSION</td>
<td>1.0</td>
</tr>
<tr>
<td>CLASS</td>
<td>PUBLIC, PRIVATE, CONFIDENTIAL</td>
</tr>
<tr>
<td>AALARM;TYPE</td>
<td>WAVE, PCM, AIFF</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PropName(;PropParam)</th>
<th>ValEnum</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEGIN</td>
<td>VCARD</td>
</tr>
<tr>
<td>END</td>
<td>VCARD</td>
</tr>
<tr>
<td>VERSION</td>
<td>3.0</td>
</tr>
<tr>
<td>CLASS</td>
<td>PUBLIC, PRIVATE, CONFIDENTIAL</td>
</tr>
<tr>
<td>LOGO;TYPE</td>
<td>GIF, CGM, WMF, BMP, MET, PMB, DIB, PICT, TIFF, PS, PDF, JPEG, MPEG, MPEG2, AVI, QTIME, other IANA registered image types</td>
</tr>
<tr>
<td>LABEL;TYPE</td>
<td>DOM, INTL, POSTAL, PARCEL, HOME, WORK, other IANA registered parameter names</td>
</tr>
<tr>
<td>PHOTO;TYPE</td>
<td>GIF, CGM, WMF, BMP, MET, PMB, DIB, PICT, TIFF, PS, PDF, JPEG, MPEG, MPEG2, AVI, QTIME, other IANA registered image types</td>
</tr>
<tr>
<td>PropName</td>
<td>ValEnum</td>
</tr>
<tr>
<td>----------</td>
<td>---------</td>
</tr>
<tr>
<td>CUTYPE</td>
<td>INDIVIDUAL, GROUP, RESOURCE, ROOM, UNKNOWN</td>
</tr>
<tr>
<td>BEGIN</td>
<td>VCALENDAR, VEVENT, VTTODO, VJOURNAL, VFREEBUSY, VTIMEZONE, VALARM</td>
</tr>
<tr>
<td>END</td>
<td>VCALENDAR, VEVENT, VTTODO, VJOURNAL, VFREEBUSY, VTIMEZONE, VALARM</td>
</tr>
<tr>
<td>VERSION</td>
<td>2.0</td>
</tr>
<tr>
<td>ATTACH</td>
<td>URI, BINARY</td>
</tr>
<tr>
<td>CLASS</td>
<td>PUBLIC, PRIVATE, CONFIDENTIAL</td>
</tr>
<tr>
<td>ACTION</td>
<td>AUDIO, DISPLAY, EMAIL, PROCEDURE</td>
</tr>
<tr>
<td>RELTYPE</td>
<td>PARENT, CHILD, SIBLING</td>
</tr>
</tbody>
</table>

**Content Model:**

```xml
<xs:element name="ValEnum" type="xs:string" />
```

**Attributes:** None.

**Example:** The following is an example of supporting iCalendar binary attachments.

```xml
<CTCap>
  <CTType>text/calendar</CTType>
  <VerCT>2.0</VerCT>
  <Property>
    <PropName>BEGIN</PropName>
    <ValEnum>VEVENT</ValEnum>
    <ValEnum>VCALENDAR</ValEnum>
  </Property>
  <Property>
    <PropName>VERSION</PropName>
    <ValEnum>2.0</ValEnum>
  </Property>
  <Property>
    <PropName>ATTACH</PropName>
    <ValEnum>BINARY</ValEnum>
  </Property>
</CTCap>
```
6.2.55 ValidAnchor

Usage: Specifies a currently valid Sync Anchor. This may be used as the Next Sync Anchor of a one way sync, to specify loading data from that point in time (Such as for Undo Functionality), or may be used as a valid Last Sync Anchor.

Parent Element: StoredAnchors

Restrictions: This element SHOULD be present for a device that supports multiple sync anchors, for each valid stored sync anchor.

Content Model:

```xml
<xs:element name="ValidAnchor" type="AnchorType " />
<xs:simpleType name="AnchorType">
  <xs:union memberTypes="xs:dateTime xs:positiveInteger"/>
</xs:simpleType>
```

Attributes: None.

6.2.56 VerCT

Usage: Specifies the version of a supported content type.

Parent Elements: CTCap, Filter-Rx, FilterCap, Rx, Rx-Pref, Tx, Tx-Pref

Restrictions: If a parent element is present, this element type is required.

Content Model:

```xml
<xs:element name="VerCT" type="xs:string" />
```

Attributes: None.

Example:

```xml
<Rx>
  <CTType>text/x-vcard</CTType>
  <VerCT>2.1</VerCT>
</Rx>
```

6.2.57 Version


Parent Element: DevInf

Restrictions: Major reversions of the specification create incompatible changes that will generally require a new parser. Minor revisions involve changes that do not impact basic compatibility of the parser. When the XML document conforms to this revision of the Device Information specification the value MUST be 2.0. The attribute MUST be included in the DevInf element.
Content Model:

```xml
<xs:attribute name="Version" type="xs:string" />
```

Example:

```xml
<DevInf xmlns='syncml:devinf' Version="2.0">
  <DevCap>
    ...
  </DevCap>
  ...
</DevInf>
```

### 6.2.58 XName

**Usage:** Specifies the name of one of the DevInf extension element types.

**Parent Element:** Ext

**Restrictions:** The element type is required whenever an Ext element is present.

**Content Model:**

```xml
<xs:element name="XName" type="xs:string" />
```

**Attributes:** None.

**Example:**

```xml
<Ext>
  <XName>X-Foo-CliVer</XName>
  <XValue>5.0</XValue>
  <XValue>5.01</XValue>
  <XValue>5.02</XValue>
</Ext>
```

### 6.2.59 XValue

**Usage:** Specifies one of the valid values for a DevInf extension element type.

**Parent Element:** Ext

**Restrictions:** One or more of the element types are required whenever an Ext element is present. One element type is required for each of the valid values for the extension element type. Ranges of valid values can be specified by a sequence of the first value in the range, followed by the string "." (i.e., PERIOD PERIOD), followed by the last value in the range.

**Content Model:**

```xml
<xs:element name="XValue" type="xs:string" />
```

**Attributes:** None.

**Example:** The following example is for an extension element type that has a range of valid integer values from 1 to 5.

```xml
<Ext>
  <XName>X-Bar-Enum</XName>
</Ext>
```
<XValue>1</XValue>
<XValue>..</XValue>
<XValue>5</XValue>
</Ext>
7. Device Information Schema

Please refer to the DevInf Schema specification.
8. WBXML Definitions

This version of the DevInf Schema specification is associated with the WBXML code space 0x1206 and the formal public identifier -//SyncML//Schema DevInf 2.0//EN.

8.1 Elements

The following WBXML token codes represent element types (i.e., tags) for code page 0x00, DevInf Schema.

<table>
<thead>
<tr>
<th>Element Type Name</th>
<th>WBXML Tag Token (Hex Value)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTCap</td>
<td>05</td>
</tr>
<tr>
<td>CTType</td>
<td>06</td>
</tr>
<tr>
<td>DataStore</td>
<td>07</td>
</tr>
<tr>
<td>DataType</td>
<td>08</td>
</tr>
<tr>
<td>DevID</td>
<td>09</td>
</tr>
<tr>
<td>DevInf</td>
<td>0A</td>
</tr>
<tr>
<td>DevType</td>
<td>0B</td>
</tr>
<tr>
<td>Reserved for future use</td>
<td>0C</td>
</tr>
<tr>
<td>DSMem</td>
<td>0D</td>
</tr>
<tr>
<td>Ext</td>
<td>0E</td>
</tr>
<tr>
<td>FwV</td>
<td>0F</td>
</tr>
<tr>
<td>HwV</td>
<td>10</td>
</tr>
<tr>
<td>Man</td>
<td>11</td>
</tr>
<tr>
<td>Reserved for future use</td>
<td>12 ~ 14</td>
</tr>
<tr>
<td>Model</td>
<td>15</td>
</tr>
<tr>
<td>OEM</td>
<td>16</td>
</tr>
<tr>
<td>Reserved for future use</td>
<td>17</td>
</tr>
<tr>
<td>PropName</td>
<td>18</td>
</tr>
<tr>
<td>Rx</td>
<td>19</td>
</tr>
<tr>
<td>Rx-Pref</td>
<td>1A</td>
</tr>
<tr>
<td>Reserved for future use</td>
<td>1B</td>
</tr>
<tr>
<td>MaxSize</td>
<td>1C</td>
</tr>
<tr>
<td>SourceRef</td>
<td>1D</td>
</tr>
<tr>
<td>SwV</td>
<td>1E</td>
</tr>
<tr>
<td>SyncCap</td>
<td>1F</td>
</tr>
<tr>
<td>ExtURI</td>
<td>20</td>
</tr>
<tr>
<td>Tag</td>
<td>Hex Value</td>
</tr>
<tr>
<td>--------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>Tx</td>
<td>21</td>
</tr>
<tr>
<td>Tx-Pref</td>
<td>22</td>
</tr>
<tr>
<td>ValEnum</td>
<td>23</td>
</tr>
<tr>
<td>VerCT</td>
<td>24</td>
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<tr>
<td>Reserved for future use</td>
<td>25</td>
</tr>
<tr>
<td>XName</td>
<td>26</td>
</tr>
<tr>
<td>XValue</td>
<td>27</td>
</tr>
<tr>
<td>Reserved for future use</td>
<td>28 ~ 2A</td>
</tr>
<tr>
<td>Property</td>
<td>2B</td>
</tr>
<tr>
<td>PropParam</td>
<td>2C</td>
</tr>
<tr>
<td>MaxOccur</td>
<td>2D</td>
</tr>
<tr>
<td>Reserved for future use</td>
<td>2E ~ 2F</td>
</tr>
<tr>
<td>Filter-Rx</td>
<td>30</td>
</tr>
<tr>
<td>FilterCap</td>
<td>31</td>
</tr>
<tr>
<td>FilterKeyword</td>
<td>32</td>
</tr>
<tr>
<td>Reserved for future use</td>
<td>33 ~ 34</td>
</tr>
<tr>
<td>DevCap</td>
<td>35</td>
</tr>
<tr>
<td>PropInfo</td>
<td>36</td>
</tr>
<tr>
<td>RxTx-CT</td>
<td>37</td>
</tr>
<tr>
<td>StoredAnchors</td>
<td>38</td>
</tr>
<tr>
<td>ValidAnchor</td>
<td>39</td>
</tr>
<tr>
<td>Reserved for future use</td>
<td>3A ~ 3F</td>
</tr>
</tbody>
</table>

Table 1: WBXML Element Token Definitions – Tag Order
<table>
<thead>
<tr>
<th>Element Type Name</th>
<th>WBXML Tag Token (Hex Value)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTCap</td>
<td>05</td>
</tr>
<tr>
<td>CTType</td>
<td>06</td>
</tr>
<tr>
<td>DataStore</td>
<td>07</td>
</tr>
<tr>
<td>DataType</td>
<td>08</td>
</tr>
<tr>
<td>DevCap</td>
<td>35</td>
</tr>
<tr>
<td>DevID</td>
<td>09</td>
</tr>
<tr>
<td>DevInf</td>
<td>0A</td>
</tr>
<tr>
<td>DevType</td>
<td>0B</td>
</tr>
<tr>
<td>DSMem</td>
<td>0D</td>
</tr>
<tr>
<td>Ext</td>
<td>0E</td>
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<td>ExtURI</td>
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<td>FilterCap</td>
<td>31</td>
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<td>FilterKeyword</td>
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<td>0F</td>
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<td>HwV</td>
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<td>2D</td>
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<td>MaxSize</td>
<td>1C</td>
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<tr>
<td>Model</td>
<td>15</td>
</tr>
<tr>
<td>OEM</td>
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</tr>
<tr>
<td>Property</td>
<td>2B</td>
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<td>PropInfo</td>
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</tr>
<tr>
<td>PropName</td>
<td>18</td>
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<tr>
<td>PropParam</td>
<td>2C</td>
</tr>
<tr>
<td>Reserved for future use</td>
<td>0C</td>
</tr>
<tr>
<td>Reserved for future use</td>
<td>12 ~ 14</td>
</tr>
<tr>
<td>Reserved for future use</td>
<td>17</td>
</tr>
<tr>
<td>Reserved for future use</td>
<td>1B</td>
</tr>
<tr>
<td>Reserved for future use</td>
<td>25</td>
</tr>
<tr>
<td>Reserved for future use</td>
<td>28 ~ 2A</td>
</tr>
<tr>
<td>Reserved for future use</td>
<td>2E ~ 2F</td>
</tr>
<tr>
<td>Element Type Name</td>
<td>WXML Tag Token (Hex Value)</td>
</tr>
<tr>
<td>------------------------</td>
<td>----------------------------</td>
</tr>
<tr>
<td>Reserved for future use</td>
<td>33~34</td>
</tr>
<tr>
<td>Reserved for future use</td>
<td>3A~3F</td>
</tr>
<tr>
<td>Rx</td>
<td>19</td>
</tr>
<tr>
<td>Rx-Pref</td>
<td>1A</td>
</tr>
<tr>
<td>RxTx-CT</td>
<td>37</td>
</tr>
<tr>
<td>SourceRef</td>
<td>1D</td>
</tr>
<tr>
<td>StoredAnchors</td>
<td>38</td>
</tr>
<tr>
<td>SwV</td>
<td>1E</td>
</tr>
<tr>
<td>SyncCap</td>
<td>1F</td>
</tr>
<tr>
<td>Tx</td>
<td>21</td>
</tr>
<tr>
<td>Tx-Pref</td>
<td>22</td>
</tr>
<tr>
<td>ValEnum</td>
<td>23</td>
</tr>
<tr>
<td>ValidAnchor</td>
<td>39</td>
</tr>
<tr>
<td>VerCT</td>
<td>24</td>
</tr>
<tr>
<td>XName</td>
<td>26</td>
</tr>
<tr>
<td>XValue</td>
<td>27</td>
</tr>
</tbody>
</table>

Table 2: WXML Element Token Definitions – Alphabetical Order
### 8.2 Attribute Start Tokens

The following WBXML token codes represent the start of an attribute (some including value) in code page 0x00, DevInf Schema.

<table>
<thead>
<tr>
<th>Attribute Name</th>
<th>Attribute Value Prefix</th>
<th>WBXML Tag Token (Hex Value)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DisplayName</td>
<td></td>
<td>05</td>
</tr>
<tr>
<td>FieldLevel</td>
<td>false</td>
<td>06</td>
</tr>
<tr>
<td>FieldLevel</td>
<td>true</td>
<td>07</td>
</tr>
<tr>
<td>FPUnique</td>
<td>false</td>
<td>08</td>
</tr>
<tr>
<td>FPUnique</td>
<td>true</td>
<td>09</td>
</tr>
<tr>
<td>MaxGUIDSize</td>
<td></td>
<td>0A</td>
</tr>
<tr>
<td>MaxID</td>
<td></td>
<td>0B</td>
</tr>
<tr>
<td>MaxMem</td>
<td></td>
<td>0C</td>
</tr>
<tr>
<td>MaxStoredAnchors</td>
<td></td>
<td>0D</td>
</tr>
<tr>
<td>ParamName</td>
<td></td>
<td>0E</td>
</tr>
<tr>
<td>SharedMem</td>
<td>false</td>
<td>0F</td>
</tr>
<tr>
<td>SharedMem</td>
<td>true</td>
<td>10</td>
</tr>
<tr>
<td>SupportAtomic</td>
<td>false</td>
<td>11</td>
</tr>
<tr>
<td>SupportAtomic</td>
<td>true</td>
<td>12</td>
</tr>
<tr>
<td>SupportEncryption</td>
<td>false</td>
<td>13</td>
</tr>
<tr>
<td>SupportEncryption</td>
<td>true</td>
<td>14</td>
</tr>
<tr>
<td>SupportFieldLevel</td>
<td>false</td>
<td>15</td>
</tr>
<tr>
<td>SupportFieldLevel</td>
<td>true</td>
<td>16</td>
</tr>
<tr>
<td>SupportHierarchicalSync</td>
<td>false</td>
<td>17</td>
</tr>
<tr>
<td>SupportHierarchicalSync</td>
<td>true</td>
<td>18</td>
</tr>
<tr>
<td>SupportLargeObjs</td>
<td>false</td>
<td>19</td>
</tr>
<tr>
<td>SupportLargeObjs</td>
<td>true</td>
<td>1A</td>
</tr>
<tr>
<td>SupportNumberOfChanges</td>
<td>false</td>
<td>1B</td>
</tr>
<tr>
<td>SupportNumberOfChanges</td>
<td>true</td>
<td>1C</td>
</tr>
<tr>
<td>SupportSequence</td>
<td>false</td>
<td>1D</td>
</tr>
<tr>
<td>SupportSequence</td>
<td>true</td>
<td>1E</td>
</tr>
<tr>
<td>SupportSftDel</td>
<td>false</td>
<td>1F</td>
</tr>
<tr>
<td>Attribute Name</td>
<td>Attribute Value Prefix</td>
<td>WBXML Tag Token (Hex Value)</td>
</tr>
<tr>
<td>------------------------</td>
<td>------------------------</td>
<td>-----------------------------</td>
</tr>
<tr>
<td>SupportSftDel</td>
<td>true</td>
<td>20</td>
</tr>
<tr>
<td>Truncate</td>
<td>false</td>
<td>21</td>
</tr>
<tr>
<td>Truncate</td>
<td>true</td>
<td>22</td>
</tr>
<tr>
<td>UTC</td>
<td>false</td>
<td>23</td>
</tr>
<tr>
<td>UTC</td>
<td>true</td>
<td>24</td>
</tr>
<tr>
<td>Version</td>
<td></td>
<td>25</td>
</tr>
<tr>
<td>Reserved for future use</td>
<td></td>
<td>26 ~ 3F</td>
</tr>
<tr>
<td>Reserved for future use</td>
<td></td>
<td>45 ~ 7F</td>
</tr>
</tbody>
</table>

Table 3: Attribute Start Token Definitions – Alphabetical

## 8.3 Attribute Value Tokens

The following WBXML token codes represent attribute values in code page 0x00, DevInf Schema.

<table>
<thead>
<tr>
<th>Element Type Name</th>
<th>WBXML Tag Token (Hex Value)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>85</td>
</tr>
<tr>
<td>ATTACHTYPE</td>
<td>86</td>
</tr>
<tr>
<td>CN</td>
<td>87</td>
</tr>
<tr>
<td>CUTYPE</td>
<td>88</td>
</tr>
<tr>
<td>D</td>
<td>89</td>
</tr>
<tr>
<td>DECLERATED-FROM</td>
<td>8A</td>
</tr>
<tr>
<td>DECLERATED-TO</td>
<td>8B</td>
</tr>
<tr>
<td>DIR</td>
<td>8C</td>
</tr>
<tr>
<td>ENC</td>
<td>8D</td>
</tr>
<tr>
<td>EXPECT</td>
<td>8E</td>
</tr>
<tr>
<td>H</td>
<td>8F</td>
</tr>
<tr>
<td>LANGUAGE</td>
<td>90</td>
</tr>
<tr>
<td>MEMBER</td>
<td>91</td>
</tr>
<tr>
<td>PARTSTAT</td>
<td>92</td>
</tr>
<tr>
<td>R</td>
<td>93</td>
</tr>
<tr>
<td>ROLE</td>
<td>94</td>
</tr>
<tr>
<td>RSVP</td>
<td>95</td>
</tr>
<tr>
<td>S</td>
<td>96</td>
</tr>
<tr>
<td>Element Type Name</td>
<td>WBXML Tag Token (Hex Value)</td>
</tr>
<tr>
<td>------------------------</td>
<td>------------------------------</td>
</tr>
<tr>
<td>SENT-BY</td>
<td>97</td>
</tr>
<tr>
<td>STATUS</td>
<td>98</td>
</tr>
<tr>
<td>TEXTTYPE</td>
<td>99</td>
</tr>
<tr>
<td>TYPE</td>
<td>9A</td>
</tr>
<tr>
<td>W</td>
<td>9B</td>
</tr>
<tr>
<td>X</td>
<td>9C</td>
</tr>
<tr>
<td>Reserved for future use</td>
<td>9D ~ BF</td>
</tr>
<tr>
<td>Reserved for future use</td>
<td>C5 ~ FF</td>
</tr>
</tbody>
</table>

Table 4: WBXML Attribute Value Token Definitions
9. EXAMPLES

9.1 XML

The following is an example of a XML representation for the device information object. A XML representation of a device information object that conforms to this specification must include the name space definition as specified in section 5.1 on the DevInf element type.

```xml
<DevInf xmlns='syncml:devinf' Version="2.0">
  <DevCap SupportLargeObjs="true"
          SupportNumberOfChanges="true" UTC="true">
    <Man>Big Factory, Ltd.</Man>
    <Model>4119</Model>
    <OEM>Jane's phones</OEM>
    <FwV>2.0e</FwV>
    <SwV>2.0</SwV>
    <HwV>1.22I</HwV>
    <DevID>1218182THD000001-2</DevID>
    <DevType>phone</DevType>
  </DevCap>
  <DataStore DisplayName="Phonebook" MaxGUIDSize="32">
    <SourceRef>contacts</SourceRef>
    <RxTx-CT>
      <Rx-Pref>
        <CTType>text/vcard</CTType>
        <VerCT>3.0</VerCT>
      </Rx-Pref>
      <Rx>
        <CTType>text/x-vcard</CTType>
        <VerCT>2.1</VerCT>
      </Rx>
      <Tx-Pref>
        <CTType>text/vcard</CTType>
        <VerCT>3.0</VerCT>
      </Tx-Pref>
      <Tx>
        <CTType>text/x-vcard</CTType>
        <VerCT>2.1</VerCT>
      </Tx>
    </RxTx-CT>
    <CTCap>
      <CTType>text/vcard</CTType>
      <VerCT>3.0</VerCT>
      <Property>
        <PropName>BEGIN</PropName>
        <ValEnum>VCARD</ValEnum>
      </Property>
      <Property>
        <PropName>END</PropName>
        <ValEnum>VCARD</ValEnum>
      </Property>
      <Property>
        <PropName>VERSION</PropName>
        <ValEnum>3.0</ValEnum>
      </Property>
    </CTCap>
  </DataStore>
</DevInf>
```
<Property>
  <PropName>N</PropName>
</Property>

<Property>
  <PropName>TEL</PropName>
  <PropParam ParamName="TYPE">
    <ValEnum>VOICE,HOME</ValEnum>
    <ValEnum>FAX,HOME</ValEnum>
    <ValEnum>VOICE,CELL</ValEnum>
  </PropParam>
</Property>

<CTCap>
  <CTType>text/x-vcard</CTType>
  <VerCT>2.1</VerCT>
  <Property>
    <PropName>BEGIN</PropName>
    <ValEnum>VCARD</ValEnum>
  </Property>
  <Property>
    <PropName>END</PropName>
    <ValEnum>VCARD</ValEnum>
  </Property>
  <Property>
    <PropName>VERSION</PropName>
    <ValEnum>2.1</ValEnum>
  </Property>
  <Property>
    <PropName>N</PropName>
  </Property>
  <Property>
    <PropName>TEL</PropName>
    <PropParam ParamName="TYPE">
      <ValEnum>VOICE,HOME</ValEnum>
      <ValEnum>FAX,HOME</ValEnum>
      <ValEnum>VOICE,CELL</ValEnum>
    </PropParam>
  </Property>
</CTCap>

<SyncCap FPUnique="true"/>
<DataStore>
  <Ext>
    <XName>startmsg</XName>
    <XValue>Hello World</XValue>
  </Ext>
  <Ext>
    <XName>endmsg</XName>
    <XValue>Goodbye</XValue>
  </Ext>
</DataStore>
</DevInf>
9.2 WBXML

The following is a complete message of an HTTP Post including the WBXML representation for the device information object specified in section 9.1. This example uses opaque data and inline strings. The example also assumes that the character encoding is UTF-8.

0000 00 40 05 32 06 16 00 16 b6 89 63 a4 08 00 45 80 .@.2......c...E.
0010 03 f8 d1 8a 00 50 60 3e ef 26 27 b1 4d cf 50 18 ....P>.'M.P.
0020 00 80 c4 00 e2 00 50 4f 54 20 2f 53 79 6e 63 02 POST /Sync
0030 04 4d 4l 20 48 54 54 50 20 31 2e 31 0d 0a 41 6c .ML HTTP/1.1..Alive..
0040 00 74 65 73 74 2d 4c 61 6e 67 75 61 67 65 3a 20 6e .Content-Language: en
0050 00 00 65 6e 65 3a 20 4b 65 65 70 2d 41 6c 69 76 5b .en: Keep-Alive[
0060 01 30 00 35 00 31 00 32 02 00 6a 00 00 00 01 05 .0.5.1.2...j..0..5..1..2.
0070 01 4b 00 00 00 01 4b 00 00 00 01 4b 00 00 00 01 4b .K...K...K...K
0080 00 00 00 01 4b 00 00 00 01 4b 00 00 00 01 4b 00 00 00 .K...K...K...K
0090 00 00 00 01 4b 00 00 00 01 4b 00 00 00 01 4b 00 00 00 .K...K...K...K
00a0 00 00 00 01 4b 00 00 00 01 4b 00 00 00 01 4b 00 00 00 .K...K...K...K
00b0 00 00 00 01 4b 00 00 00 01 4b 00 00 00 01 4b 00 00 00 .K...K...K...K
00c0 00 e0 00 69 00 00 10 00 6b 00 00 10 00 6b 00 00 10 .i..K..K..K..K
00d0 00 10 00 73 00 00 10 00 73 00 00 10 00 73 00 00 10 .s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s..s.
In an expanded and annotated form:

Frame 1 (883 bytes on wire, 883 bytes captured)
Ethernet II, ... (Bytes 0x00-0x0D above)

Internet Protocol ... (Bytes 0x0E-0x21 above)
Version: 4
Header length: 20 bytes
Differentiated Services Field: 0x80 (DSCP 0x20: Class Selector 4; ECN: 0x00)
Total Length: 1016
Identification: 0xd18a (53642)
Flags: 0x04 (Don't Fragment)
Fragment offset: 0
Time to live: 108
Protocol: TCP (0x06)
Header checksum: 0xb512 [correct]

Transmission Control Protocol, (Bytes 0x22-0x35 above)
Src Port: 3773, Dst Port: http (80), Seq: 1, Ack: 1, Len: 829
Header length: 20 bytes
Flags: 0x18 (PSH, ACK)
Window size: 32964
Checksum: 0xe4fd [correct]

Hypertext Transfer Protocol (Bytes 0x36-0x111 above)
POST /SyncML HTTP/1.1\r\nAccept-Language: en-us\r\nContent-Type: application/vnd.syncml-devinf+wbxml\r\nUser-Agent: DevInf-Example\r\nHost: dchampagne.com\r\nContent-Length: 609\r\nConnection: Keep-Alive\r\nCache-Control: no-cache\r\n\r\nWAP Binary XML, (Bytes 0x112-0x372 Above)
Version: 1.3 (0x03)
Public Identifier (known): -//SYNCML//Schema DevInf 2.0//EN (0x00001206)
Character Set: utf-8 (0x0000006a)
String table: 0 bytes

<table>
<thead>
<tr>
<th>Token Stream</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>03</td>
<td>Version number - WBXML v1.3</td>
</tr>
<tr>
<td>A4 06</td>
<td>PPI for 0x1206, mb u_int32</td>
</tr>
<tr>
<td></td>
<td>--&gt; 0000 - not needed</td>
</tr>
<tr>
<td></td>
<td>0001 0010 --&gt; 010 0100</td>
</tr>
<tr>
<td></td>
<td>0000 0110 --&gt; 000 0110 &amp; 0x7F</td>
</tr>
<tr>
<td>6A</td>
<td>Charset is UTF-8</td>
</tr>
<tr>
<td>String table length</td>
<td>No String table (length 0)</td>
</tr>
<tr>
<td>---------------------</td>
<td>--------------------------</td>
</tr>
<tr>
<td>CA</td>
<td>&lt;DevInf&gt; Attributes and Content 0x0A</td>
</tr>
<tr>
<td></td>
<td>No Namespace, already have FPI</td>
</tr>
<tr>
<td>25</td>
<td>Version=</td>
</tr>
<tr>
<td>03</td>
<td>Inline string follows</td>
</tr>
<tr>
<td>°2° . °0°</td>
<td>String &quot;2.0&quot;</td>
</tr>
<tr>
<td>00</td>
<td>Null Terminator of String</td>
</tr>
<tr>
<td>01</td>
<td>END of DevInf attributes</td>
</tr>
<tr>
<td>F5</td>
<td>&lt;DevCap&gt; Attributes and Content</td>
</tr>
<tr>
<td>IA</td>
<td>SupportLargeObjs=&quot;true&quot;</td>
</tr>
<tr>
<td>IC</td>
<td>SupportNumberOfChanges=&quot;true&quot;</td>
</tr>
<tr>
<td>24</td>
<td>UTC=&quot;true&quot;</td>
</tr>
<tr>
<td>01</td>
<td>END of DevCap attributes</td>
</tr>
<tr>
<td>51</td>
<td>&lt;Man&gt; Content follows 0x11</td>
</tr>
<tr>
<td>C3</td>
<td>Opaque data follows</td>
</tr>
<tr>
<td>12</td>
<td>Length of opaque data</td>
</tr>
<tr>
<td>°B° °i° °g° °F° °a° °c° °t° °o° °r° °y°</td>
<td>String &quot;Big Factory, Ltd.&quot;</td>
</tr>
<tr>
<td>00</td>
<td>Null Terminator of String (Not required with Opaque Data)</td>
</tr>
<tr>
<td>01</td>
<td>&lt;/Man&gt;</td>
</tr>
<tr>
<td>55</td>
<td>&lt;Model&gt; Content follows</td>
</tr>
<tr>
<td>03</td>
<td>Inline string follows</td>
</tr>
<tr>
<td>°4° °l° °l° °9°</td>
<td>String &quot;4119&quot;</td>
</tr>
<tr>
<td>00</td>
<td>Null Terminator of String</td>
</tr>
<tr>
<td>01</td>
<td>&lt;/Model&gt;</td>
</tr>
<tr>
<td>56</td>
<td>&lt;OEM&gt; Content follows</td>
</tr>
<tr>
<td>03</td>
<td>Inline string follows</td>
</tr>
<tr>
<td>°J° °a° °n° °e° °'° °s° °'° °p° °h° °o° °n° °e° °s°</td>
<td>String &quot;Jane's phones&quot;</td>
</tr>
<tr>
<td>00</td>
<td>Null Terminator of String</td>
</tr>
<tr>
<td>01</td>
<td>&lt;/OEM&gt;</td>
</tr>
<tr>
<td>4F</td>
<td>&lt;FwV&gt; Content follows</td>
</tr>
<tr>
<td>03</td>
<td>Inline string follows</td>
</tr>
<tr>
<td>°2° °. °0° °e°</td>
<td>String &quot;2.0e&quot;</td>
</tr>
<tr>
<td>00</td>
<td>Null Terminator of String</td>
</tr>
<tr>
<td>01</td>
<td>&lt;/FwV&gt;</td>
</tr>
<tr>
<td>5E</td>
<td>&lt;SwV&gt; Content follows</td>
</tr>
<tr>
<td>03</td>
<td>Inline string follows</td>
</tr>
<tr>
<td>°2° °. °0°</td>
<td>String &quot;2.0&quot;</td>
</tr>
<tr>
<td>00</td>
<td>Null Terminator of String</td>
</tr>
<tr>
<td>01</td>
<td>&lt;/SwV&gt;</td>
</tr>
<tr>
<td>50</td>
<td>&lt;HwV&gt; Content follows</td>
</tr>
<tr>
<td>03</td>
<td>Inline string follows</td>
</tr>
<tr>
<td>°1° °. °2° °2° °I°</td>
<td>String &quot;1.22I&quot;</td>
</tr>
<tr>
<td>00</td>
<td>Null Terminator of String</td>
</tr>
<tr>
<td>01</td>
<td>&lt;/HwV&gt;</td>
</tr>
<tr>
<td>49</td>
<td>&lt;DevID&gt; Content follows</td>
</tr>
<tr>
<td>03</td>
<td>Inline string follows</td>
</tr>
<tr>
<td>°1° °2° °1° °8° °1° °8° °2° °T° °H° °D° °0° °0° °0° °0° °1° °I° °2°</td>
<td>String &quot;1218182THD000001-2&quot;</td>
</tr>
<tr>
<td>00</td>
<td>Null Terminator of String</td>
</tr>
<tr>
<td>01</td>
<td>&lt;/DevID&gt;</td>
</tr>
<tr>
<td>4B</td>
<td>&lt;DevType&gt; Content follows</td>
</tr>
<tr>
<td>03</td>
<td>Inline string follows</td>
</tr>
<tr>
<td>'p'</td>
<td>'h'</td>
</tr>
<tr>
<td>00</td>
<td>Null Terminator of String</td>
</tr>
<tr>
<td>01</td>
<td>&lt;/DevType&gt;</td>
</tr>
<tr>
<td>01</td>
<td>&lt;/DevCap&gt;</td>
</tr>
<tr>
<td>C7</td>
<td>&lt;DataStore&gt; Attributes and Content</td>
</tr>
<tr>
<td>05</td>
<td>DisplayName=</td>
</tr>
<tr>
<td>03</td>
<td>Inline string follows</td>
</tr>
<tr>
<td>'P'</td>
<td>'h'</td>
</tr>
<tr>
<td>00</td>
<td>Null Terminator of String</td>
</tr>
<tr>
<td>0A</td>
<td>MaxGUIDSize=</td>
</tr>
<tr>
<td>03</td>
<td>Inline string follows</td>
</tr>
<tr>
<td>'3'</td>
<td>'2'</td>
</tr>
<tr>
<td>00</td>
<td>Null Terminator of String</td>
</tr>
<tr>
<td>01</td>
<td>END of DataStore attributes</td>
</tr>
<tr>
<td>5D</td>
<td>&lt;SourceRef&gt; Content follows</td>
</tr>
<tr>
<td>03</td>
<td>Inline string follows</td>
</tr>
<tr>
<td>'c'</td>
<td>'o'</td>
</tr>
<tr>
<td>00</td>
<td>Null Terminator of String</td>
</tr>
<tr>
<td>01</td>
<td>&lt;/SourceRef&gt;</td>
</tr>
<tr>
<td>77</td>
<td>&lt;RxTx-CT&gt; Content follows</td>
</tr>
<tr>
<td>5A</td>
<td>&lt;Rx-Pref&gt; Content follows</td>
</tr>
<tr>
<td>46</td>
<td>&lt;CTType&gt; Content follows</td>
</tr>
<tr>
<td>03</td>
<td>Inline string follows</td>
</tr>
<tr>
<td>'t'</td>
<td>'e'</td>
</tr>
<tr>
<td>00</td>
<td>Null Terminator of String</td>
</tr>
<tr>
<td>01</td>
<td>&lt;/CTType&gt;</td>
</tr>
<tr>
<td>64</td>
<td>&lt;VerCT&gt; Content follows</td>
</tr>
<tr>
<td>03</td>
<td>Inline string follows</td>
</tr>
<tr>
<td>'3'</td>
<td>'.'</td>
</tr>
<tr>
<td>00</td>
<td>Null Terminator of String</td>
</tr>
<tr>
<td>01</td>
<td>&lt;/VerCT&gt;</td>
</tr>
<tr>
<td>59</td>
<td>&lt;Rx&gt; Content follows</td>
</tr>
<tr>
<td>46</td>
<td>&lt;CTType&gt; Content follows</td>
</tr>
<tr>
<td>03</td>
<td>Inline string follows</td>
</tr>
<tr>
<td>'t'</td>
<td>'e'</td>
</tr>
<tr>
<td>00</td>
<td>Null Terminator of String</td>
</tr>
<tr>
<td>01</td>
<td>&lt;/CTType&gt;</td>
</tr>
<tr>
<td>64</td>
<td>&lt;VerCT&gt; Content follows</td>
</tr>
<tr>
<td>03</td>
<td>Inline string follows</td>
</tr>
<tr>
<td>'2'</td>
<td>'.'</td>
</tr>
<tr>
<td>00</td>
<td>Null Terminator of String</td>
</tr>
<tr>
<td>01</td>
<td>&lt;/VerCT&gt;</td>
</tr>
<tr>
<td>62</td>
<td>&lt;Tx-Pref&gt; Content follows</td>
</tr>
<tr>
<td>46</td>
<td>&lt;CTType&gt; Content follows</td>
</tr>
<tr>
<td>03</td>
<td>Inline string follows</td>
</tr>
<tr>
<td>'t'</td>
<td>'e'</td>
</tr>
<tr>
<td>00</td>
<td>Null Terminator of String</td>
</tr>
<tr>
<td>01</td>
<td>&lt;/CTType&gt;</td>
</tr>
<tr>
<td>64</td>
<td>&lt;VerCT&gt; Content follows</td>
</tr>
<tr>
<td>03</td>
<td>Inline string follows</td>
</tr>
</tbody>
</table>
'3' '.' '0' String "3.0"
00 Null Terminator of String
01 </VerCT>
01 </Tx-Pref>
61 <Tx> Content follows
46 <CTType> Content follows
03 Inline string follows
'\"' 'e' 'x' 't' '\"' '\v' 'c' 'a' 'r' 'd'
String "text/x-vcard"
00 Null Terminator of String
01 </CTType>
64 <VerCT> Content follows
03 Inline string follows
'2' '.' '1'
String "2.1"
00 Null Terminator of String
01 </VerCT>
01 </Tx>
01 </RxTx-CT>
45 <CTCap> Content follows
46 <CTType> Content follows
03 Inline string follows
'\"' 'e' 'x' 't' '\v' 'c' 'a' 'r' 'd'
String "text/vcard"
00 Null Terminator of String
01 </CTType>
64 <VerCT> Content follows
03 Inline string follows
'3' '.' '0'
String "3.0"
00 Null Terminator of String
01 </VerCT>
6B <Property> Content follows
58 <PropName> Content follows
03 Inline string follows
'B' 'E' 'G' 'I' 'N'
String "BEGIN"
00 Null Terminator of String
01 </PropName>
63 <ValEnum>
03 Inline string follows
'V' 'C' 'A' 'R' 'D'
String "VCARD"
00 Null Terminator of String
01 </ValEnum>
01 </Property>
6B <Property> Content follows
58 <PropName> Content follows
03 Inline string follows
'E' 'N' 'D'
String "END"
00 Null Terminator of String
01 </PropName>
63 <ValEnum>
03 Inline string follows
'V' 'C' 'A' 'R' 'D'
String "VCARD"
00 Null Terminator of String
01 </ValEnum>
01 </Property>
6B <Property> Content follows
58 <PropName> Content follows
03 Inline string follows
'V' 'E' 'R' 'S' 'I' 'O' 'N' 'S' 'T' 'R' 'A' 'G' 'E' 'N' 'T' 'R' 'A' 'G' 'E' 'N' 'T'
00 Null Terminator of String
01 </PropName>
63 <ValEnum>
03 Inline string follows
'3' '.' '0'
00 Null Terminator of String
01 </ValEnum>
01 </Property>
6B <Property> Content follows
68 <PropName> Content follows
03 Inline string follows
'N'
00 Null Terminator of String
01 </PropName>
01 </Property>
6B <Property> Content follows
58 <PropName> Content follows
03 Inline string follows
'T' 'E' 'L'
00 Null Terminator of String
01 </PropName>
EC <PropParam> Attributes and Content
0E ParamName=
9A Attribute Value "TYPE"
01 END of PropParam attributes
63 <ValEnum>
03 Inline string follows
'V' 'O' 'I' 'C' 'E' ',' 'H' 'O' 'M' 'E'
00 Null Terminator of String
01 </ValEnum>
01 </Property>
6B <Property> Content follows
58 <PropName> Content follows
03 Inline string follows
'F' 'A' 'X' ',' 'H' 'O' 'M' 'E'
00 Null Terminator of String
01 </ValEnum>
01 </Property>
6B <Property> Content follows
58 <PropName> Content follows
03 Inline string follows
'V' 'O' 'I' 'C' 'E' ',' 'C' 'E' 'L' 'L'
00 Null Terminator of String
01 </ValEnum>
01 </Property>
01 </CTCap>
45 <CTCap> Content follows
46 <CTType> Content follows
03 Inline string follows
't' 'e' 'x' 't' 'v' 'c' 'a' 'r'
00 Null Terminator of String
01 </CTType>
64 <VerCT> Content follows
03 Inline string follows
'2' '.' '1'
00 Null Terminator of String
00 Null Terminator of String
01 </VerCT>
6B <Property> Content follows
58 <PropName> Content follows
03 Inline string follows
'B' 'E' 'G' 'I' 'N'
String "BEGIN"
00 Null Terminator of String
01 </PropName>
63 <ValEnum>
03 Inline string follows
'V' 'C' 'A' 'R' 'D'
String "VCARD"
00 Null Terminator of String
01 </ValEnum>
01 </Property>
6B <Property> Content follows
58 <PropName> Content follows
03 Inline string follows
'E' 'N' 'D'
String "END"
00 Null Terminator of String
01 </PropName>
63 <ValEnum>
03 Inline string follows
'V' 'C' 'A' 'R' 'D'
String "VCARD"
00 Null Terminator of String
01 </ValEnum>
01 </Property>
6B <Property> Content follows
58 <PropName> Content follows
03 Inline string follows
'E' 'R' 'S' 'I' 'O' 'N'
String "VERSION"
00 Null Terminator of String
01 </PropName>
63 <ValEnum>
03 Inline string follows
'2' '.' '1'
String "2.1"
00 Null Terminator of String
01 </ValEnum>
01 </Property>
6B <Property> Content follows
58 <PropName> Content follows
03 Inline string follows
'N'
String "N"
00 Null Terminator of String
01 </PropName>
01 </Property>
6B <Property> Content follows
58 <PropName> Content follows
03 Inline string follows
'T' 'E' 'L'
String "TEL"
00 Null Terminator of String
01 </PropName>
EC <PropParam> Attributes and Content
0E ParamName=
9A Attribute Value "TYPE"
01 END of PropParam attributes
63 <ValEnum>
03 Inline string follows
'V' 'O' 'I' 'C' 'E' ',' 'H' 'O' 'M' 'E' String "VOICE,HOME"
00 Null Terminator of String
01 </ValEnum>
63 <ValEnum>
03 Inline string follows
'F' 'A' 'X' ',' 'H' 'O' 'M' 'E' String "FAX,HOME"
00 Null Terminator of String
01 </ValEnum>
63 <ValEnum>
03 Inline string follows
'V' 'O' 'I' 'C' 'E' ',' 'C' 'E' 'L' 'L' String "VOICE,CELL"
00 Null Terminator of String
01 </ValEnum>
01 </PropParam>
01 </Property>
01 </CTCap>
9F <SyncCap> Attributes follow
09 FPUnique="true"
01 END of SyncCap (tag + attributes)
8D <DSMem> Attributes follow
0C MaxMem=
03 Inline string follows
'3' '2' '6' '5' '0' String "32650"
00 Null Terminator of String
0B MaxID=
03 Inline string follows
'2' '5' '0' String "250"
00 Null Terminator of String
01 END of DSMem (tag + attributes)
01 </DataStore>
4E <Ext> Content follows
66 <XName> Content follows
03 Inline string follows
's' 't' 'a' 'r' 't' 'm' 's' 'g' String "startmsg"
00 Null Terminator of String
01 </XName>
67 <XValue> Content follows
03 Inline string follows
'H' 'e' 'l' 'l' 'o' ' ' 'W' 'o' 'r' 'l' 'd' String "Hello World"
00 Null Terminator of String
01 </XValue>
01 </Ext>
4E <Ext> Content follows
66 <XName> Content follows
03 Inline string follows
'e' 'n' 'd' 'm' 's' 'g' String "endmsg"
00 Null Terminator of String
01 </XName>
67 <XValue> Content follows
03 Inline string follows
'G' 'o' 'o' 'd' 'b' 'y' 'e' String "Goodbye"
00 Null Terminator of String
01 </XValue>
Note some valid alternatives for the beginning of the WBXML document:

<table>
<thead>
<tr>
<th>Token Stream</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>02 00</td>
<td>Version number – WBXML v1.2 FPI for DTD in string table</td>
</tr>
<tr>
<td>00</td>
<td>index into string table for the identifier</td>
</tr>
<tr>
<td>6A 21</td>
<td>Charset is UTF-8 String table length</td>
</tr>
<tr>
<td>`'-' '/' '/' 'S' 'y' 'n' 'c' 'M' 'L' '/' '/' 'S' 'c' 'h' 'e' 'm' 'a' ' ' 'D' 'e' 'f' 'I' 'n' 'f' ' ' '2' '.' '0' '/' '/' 'E' 'N' 0x00</td>
<td>-//SyncML//Schema DevInf 2.0//EN</td>
</tr>
</tbody>
</table>

Note also that Null terminated strings may be specified either as inline strings, or as opaque data. Data that may include 0x00 MUST be specified as opaque data. Additionally, note that additional strings may be encoded into the string table, and included by reference throughout the document. However, since few parsers used in earlier versions of OMA-DS supported this, this use is not recommended.
10. MIME Media Type Registration

The following section is the MIME media type registrations for SyncML Device Information specific MIME media types.

10.1 application/vnd.syncml-devinf+xml

To: ietf-types@iana.org

Subject: Registration of MIME media type application/vnd.syncml-devinf+xml

MIME media type name: application

MIME subtype name: vnd.syncml-devinf+xml

Required parameters: None

Optional parameters: charset, verschema

Content-Type MIME header.

charset Parameter

Purpose: Specifies the character set used to represent the Device Information document. The default character set for SyncML Device Information document is UTF-8, as defined [RFC 2279].

Formal Specification: The following ABNF defines the syntax for the parameter.

```
chrset-param = ";" "charset" "=" <any IANA registered charset identifier>
```

Interoperability considerations: Implementations that have support for the mandatory features of this content type will greatly increase the chances of interoperating with other implementations supporting this content type. Conformance to this content type requires an implementation to support every mandatory feature.

verschema Parameter

Purpose: Specifies the major/minor revision identifiers for the SyncML Device Information specification that defines the DevInf MIME media type. If present, MUST be the same value as that specified by the "VerSchema" element type in the DevInf MIME content information. If not present, the default value "1.0" is to be assumed.

Formal Specification: The following ABNF defines the syntax for the parameter.

```
verschema-param = ";" "verschema" "=" 1*numeric "." 1*numeric
```

Published specification:
http://www.syncml.org/docs/syncml_devinf_v11_20020215.pdf
Applications, which use this media type: This MIME content type is intended for common use by networked data synchronization applications.

Additional information:

Magic number(s): None

File extension(s): XDM

Macintosh File Type Code(s): XDML

Person & email address to contact for further information: mailto: admins@syncml.org

Intended usage: COMMON

Author/Change controller: mailto: admins@syncml.org

10.2 application/vnd.syncml-devinf+wbxml

To: ietf-types@iana.org

Subject: Registration of MIME media type application/vnd.syncml-devinf+wbxml

MIME media type name: application

MIME subtype name: vnd.syncml-devinf+wbxml

Required parameters: None

Optional parameters: charset, verschema

Content-Type MIME header.

charset Parameter

Purpose: Specifies the character set used to represent the Device Information document. The default character set for SyncML Device Information document is UTF-8, as defined [RFC 2279].

Formal Specification: The following ABNF defines the syntax for the parameter.

chrset-param = ";" "charset" "=" <any IANA registered charset identifier>

Interoperability considerations: Implementations that have support for the mandatory features of this content type will greatly increase the chances of interoperating with other implementations supporting this content type. Conformance to this content type requires an implementation to support every mandatory feature.

verschema Parameter

Purpose: Specifies the major/minor revision identifiers for the SyncML Device Information specification that defines the DevInf MIME media type. If present, MUST be the same value as that specified by the "VerSchema" element type in the
DevInf MIME content information. If not present, the default value "1.0" is to be assumed.

Formal Specification: The following ABNF defines the syntax for the parameter.

```
verschema-param = ";" "verschema" "=" 1*numeric "." 1*numeric
text = 1*ALPHA
numeric = "0" / "1" / "2" / "3" / "4" / "5" / "6" / "7" / "8"/ "9"
```

Published specification:
http://www.syncml.org/docs/syncml_devinf_v11_20020215.pdf

Applications, which use this media type: This MIME content type is intended for common use by networked data synchronization applications.

Additional information:

Magic number(s): None

File extension(s): BDM

Macintosh File Type Code(s): BDML

Person & email address to contact for further information: mailto: admins@syncml.org

Intended usage: COMMON

Author/Change controller: mailto: admins@syncml.org
Appendix A. Static Conformance Requirements (Normative)

A.1 Client Device Information

Table 1 – Client Device Information Elements

<table>
<thead>
<tr>
<th>Item</th>
<th>Functionality</th>
<th>Reference</th>
<th>Status</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCR-DS-DEVINF-C-001</td>
<td>Support for CTCap element</td>
<td>6.2.1</td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>SCR-DS-DEVINF-C-002</td>
<td>Support for CTType element</td>
<td>6.2.2</td>
<td>M</td>
<td></td>
</tr>
<tr>
<td>SCR-DS-DEVINF-C-003</td>
<td>Support for DataStore element</td>
<td>6.2.3</td>
<td>M</td>
<td></td>
</tr>
<tr>
<td>SCR-DS-DEVINF-C-004</td>
<td>Support for DataType element</td>
<td>6.2.4</td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>SCR-DS-DEVINF-C-005</td>
<td>Support for DevCap element</td>
<td>6.2.5</td>
<td>M</td>
<td></td>
</tr>
<tr>
<td>SCR-DS-DEVINF-C-006</td>
<td>Support for DevID element</td>
<td>6.2.6</td>
<td>M</td>
<td></td>
</tr>
<tr>
<td>SCR-DS-DEVINF-C-007</td>
<td>Support for DevInf element</td>
<td>6.2.7</td>
<td>M</td>
<td></td>
</tr>
<tr>
<td>SCR-DS-DEVINF-C-008</td>
<td>Support for DevType element</td>
<td>6.2.8</td>
<td>M</td>
<td></td>
</tr>
<tr>
<td>SCR-DS-DEVINF-C-009</td>
<td>Support for DisplayName attribute</td>
<td>6.2.9</td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>SCR-DS-DEVINF-C-010</td>
<td>Support for DSMem element</td>
<td>6.2.10</td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>SCR-DS-DEVINF-C-011</td>
<td>Support for Ext element</td>
<td>6.2.11</td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>SCR-DS-DEVINF-C-012</td>
<td>Support for ExtURI element</td>
<td>6.2.12</td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>SCR-DS-DEVINF-C-013</td>
<td>Support for FieldLevel attribute</td>
<td>6.2.13</td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>SCR-DS-DEVINF-C-014</td>
<td>Support for Filter-Rx element</td>
<td>6.2.16</td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>SCR-DS-DEVINF-C-015</td>
<td>Support for FilterCap element</td>
<td>6.2.14</td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>SCR-DS-DEVINF-C-016</td>
<td>Support for FPUnique attribute</td>
<td>6.2.17</td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>SCR-DS-DEVINF-C-017</td>
<td>Support for FilterKeyword element</td>
<td>6.2.15</td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>SCR-DS-DEVINF-C-018</td>
<td>Support for FwV element</td>
<td>6.2.18</td>
<td>M</td>
<td></td>
</tr>
<tr>
<td>SCR-DS-DEVINF-C-019</td>
<td>Support for HwV element</td>
<td>6.2.19</td>
<td>M</td>
<td></td>
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### A.2 Server Device Information

Table 2 – Server Device Information Elements

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## Appendix B. Change History

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<td>19 Jul 2011</td>
<td>Status changed to Approved by TP: OMA-TP-2011-0258-INP_DS_V2_0_ERP_for_final_Approval</td>
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