Definition of the Capabilities and the XML Format

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Contents

1 General

This document will describe the internal xml format of opensync. The format based on a valid and wellformed xml 1.0 document. All elements are case sensitive

Contact -> Object level "Name" -> Field level "FirstName" -> Key level "joe" -> Value level

1.1 Predefined Attributes

1.1.1 TelephoneLocation

• values:

 Home

Work

1.1.2 TelephoneType

• values:

Voice

Cellular

Fax

Message

Pager

Modem

 Isdn

Assistant

Callback

Company

 Car

Radio

Telex

TtyYtdd

 ${\rm Bbs}$

Video

1.1.3 EmailLocation

• values:

Home

Work

Other

1.1.4 EMailType

• values:

Internet

 ${\rm IbmMail}$

Aol

AppleLink

AttMail

Cis

eWorld

MciMail

Powershare

Prodigy

Tlx

X400

1.1.5 AddressLocation

• values:

Home

Work

Domestic

International

Postal

Parcel

1.1.6 PhotoFormat

• values:

Bmp

 Gif

 Cgm

Wmf

Met

 Pmb

Dib

Pict

Tiff

Ps

Pdf

Jpeg

Mpeg

Mpeg2

Avi

Qtime

1.1.7 PhotoEncode

• values:

1.1.8 SoundFormat

• values:

Wave

Pcm

Aiff

1.1.9 Messaging

• values:

Home

1.1.10 Class

• values:

Public

Private

Confidential

1.1.11 KeyType

• values:

X509

Pgp

1.1.12 Bool

• values:

True

False

1.1.13 Preferred

• values:

0

1

2 XML Format

The root element will be named "xmlformat" and has a version attribute. It can contain one or more of the following pim types:

- Contact
- Event
- Todo
- Note

the subelements of a pim type have to be one of the following types:

${\bf container} \ {\rm or} \ {\bf sequence}$

If it is from type container than the order of the subelements are equal. If it is from type sequence than the order of the subelements have to be in this order as they are listed.

2.1 Contact

A contact consists of 0 up to n of the following elements.

2.1.1 Name

• type: sequence

• minOccurs: 0

• maxOccurs: 1

• subnodes:

LastName

FirstName

Additional

Prefix

Suffix

2.1.2 FormattedName

• type: container

• subnodes:

2.1.3 Title

- type: container
- minOccurs: 0
- \bullet maxOccurs: 1
- \bullet subnodes:

Content

2.1.4 NickName

- type: container
- minOccurs: 0
- maxOccurs: 1
- subnodes:

Content

2.1.5 Birthday

- type: container
- minOccurs: 0
- maxOccurs: 1
- attributes:
- subnodes:

Content

2.1.6 Anniversary

- type: container
- minOccurs: 0
- maxOccurs: 1
- attributes:
- \bullet subnodes:

2.1.7 Spouse

- \bullet type: container
- minOccurs: 0
- maxOccurs: 1
- attributes:
- subnodes:

Content

2.1.8 Manager

- type: container
- minOccurs: 0
- maxOccurs: 1
- subnodes:

Content

2.1.9 Organization

- type: sequenz
- minOccurs: 0
- maxOccurs: 1
- attributes:
- subnodes:

Name

Department

Unit

Assistant

- type: sequenz
- minOccurs: 0
- maxOccurs: 1
- attributes:
- subnodes:

2.1.10 Role

• type: container

• minOccurs: 0

• maxOccurs: 1

• attributes:

• subnodes:

Content

2.1.11 Address

• type: sequence

• minOccurs: 0

• maxOccurs: n

• attributes: AddressLocation, Preferred

• subnodes:

Postofficebox

 ${\bf Extended address}$

Street

Locality (e.g., city)

Region (e.g., state or province)

PostalCode

Country

2.1.12 AddressLabel

• type: container

 \bullet minOccurs: 0

 \bullet maxOccurs: 1

• attributes: AddressLocation

• subnodes:

2.1.13 Location

• type: sequenz

 \bullet minOccurs: 0

• maxOccurs: 1

• attributes:

• subnodes:

Latitude

Longitude

2.1.14 Telephone

• type: container

• attributes: Preferred, TelphoneType, TelephoneLocation

• subnodes:

Content

2.1.15 EMail

• type: container

• attributes: EmailLocation, EmailType, Preferred

• minOccurs: 0

• maxOccurs: 1

• subnodes:

Content

2.1.16 Photo

• type: container

• minOccurs: 0

• maxOccurs: 1

ullet attributes: PhotoFormat, PhotoEncode

• subnodes:

2.1.17 PhotoUrl

- type: container
- minOccurs: 0
- maxOccurs: 1
- attributes:
- subnodes:

Content

2.1.18 Url

- type: container
- minOccurs: 0
- maxOccurs: 1
- attributes:
- subnodes:

Content

2.1.19 Catagories

- type: sequenz
- minOccurs: 0
- maxOccurs: 1
- attributes:
- subnodes:

Catagory

2.1.20 Note

- type: container
- minOccurs: 0
- maxOccurs: 1
- attributes:
- subnodes:

2.1.21 Icq

 \bullet type: container

• minOccurs: 0

• maxOccurs: n

• attributes: Messaging

• subnodes:

Content

2.1.22 Msn

• type: container

• minOccurs: 0

• maxOccurs: n

• attributes: Messaging

• subnodes:

Content

2.1.23 Aim

• type: container

• minOccurs: 0

• maxOccurs: n

• attributes: Messaging

• subnodes:

Content

2.1.24 GroupWise

• type: container

• minOccurs: 0

• maxOccurs: n

• attributes: Messaging

• subnodes:

2.1.25 Yahoo

• type: container

• minOccurs: 0

• maxOccurs: n

• attributes: Messaging

• subnodes:

Content

2.1.26 Yabber

• type: container

• minOccurs: 0

• maxOccurs: n

• attributes: Messaging

• subnodes:

Content

2.1.27 Class

• type: container

• minOccurs: 0

• maxOccurs: 1

• attributes:

• subnodes:

Content

2.1.28 WantsHTML

• type: container

• minOccurs: 0

 \bullet maxOccurs: 1

• attributes: Bool

2.1.29 VideoUrl

- type: container
- minOccurs: 0
- maxOccurs: 1
- attributes:
- subnodes:

Content

2.1.30 BlogUrl

- type: container
- minOccurs: 0
- maxOccurs: 1
- attributes:
- subnodes:

Content

2.1.31 CalUri

- type: container
- minOccurs: 0
- maxOccurs: 1
- attributes:
- subnodes:

Content

2.1.32 FbUrl

- type: container
- minOccurs: 0
- maxOccurs: 1
- attributes:
- subnodes:

2.1.33 Sound

- \bullet type: container
- minOccurs: 0
- maxOccurs: 1
- attributes: SoundFormat
- subnodes:
 - Content

2.1.34 Version

- type: container
- minOccurs: 0
- maxOccurs: 1
- attributes:
- subnodes:
 - Content

2.1.35 Uid

- type: container
- minOccurs: 0
- maxOccurs: 1
- attributes:
- subnodes:
 - Content

2.1.36 Rev

- type: container
- minOccurs: 0
- maxOccurs: 1
- attributes:
- subnodes:
 - Content

2.1.37 Key

• type: container

• minOccurs: 0

• maxOccurs: 1

• attributes: KeyType

• subnodes:

Content

2.1.38 UserDefined

• type: container

• minOccurs: 0

• maxOccurs: 1

• attributes:

• subnodes:

Content

- 2.2 Todo
- 2.3 Event
- 2.4 Note

3 Capabilities

The capabilities will be used by the merging problem. The problem is that no existing format like vcard or so have defined some id for each field of a

record. So there is no way to find out which field has changed or not. The minimal solution is to add or don't to add fields generaly. The xmlformat should be easily extensible in the future by adding some id attribut. If a subelement of a pim type have a occurs of max. 1 than it is allowed to specify the subelements of this element in the capabilities.

It can contain one or more of the following object type elements:

- Contact
- Event
- Todo
- Note