



Presence Attributes XML Syntax

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Open Mobile Alliance
OMA-TS-IMPS_PA_XMLS-V1_3-20070123-A

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1. Scope

The Instant Messaging and Presence Service (IMPS) includes four primary features:

- Presence
- Instant Messaging
- Groups
- Shared Content

Presence is the key enabling technology for IMPS. It includes client device availability (my phone is on/off, in a call), user status (available, unavailable, in a meeting), location, client device capabilities (voice, text, GPRS, multimedia) and searchable personal statuses such as mood (happy, angry) and hobbies (football, fishing, computing, dancing). Since presence information is personal, it is only made available according to the user's wishes - access control features put the control of the user presence information in the users' hands.

Instant Messaging (IM) is a familiar concept in both the mobile and desktop worlds. Desktop IM clients, two-way SMS and two-way paging are all forms of Instant Messaging. Wireless Village IM will enable interoperable mobile IM in concert with other innovative features to provide an enhanced user experience.

Groups or chat are a fun and familiar concept on the Internet. Both operators and end-users are able to create and manage groups. Users can invite their friends and family to chat in group discussions. Operators can build common interest groups where end-users can meet each other online.

Shared Content allows users and operators to setup their own storage area where they can post pictures, music and other multimedia content while enabling the sharing with other individuals and groups in an IM or chat session.

These features, taken in part or as a whole, provide the basis for innovative new services that build upon a common interoperable framework.

2. References

2.1 Normative References

- [CSP XMLS] “Client-Server Protocol XML Syntax”, Version 1.3, Open Mobile Alliance™, OMA-TS-IMPS_CSP_XMLS, URL: <http://www.openmobilealliance.org>
- [IOPPROC] “OMA Interoperability Policy and Process”, Version 1.1, OMA-IOP-Process-V1_1, Open Mobile Alliance™, URL: <http://www.openmobilealliance.org>
- [PA] “Presence Attributes”, Version 1.3, Open Mobile Alliance™, OMA-TS-IMPS_PA-V1_3, URL: <http://www.openmobilealliance.org>
- [RFC2119] “Key words for use in RFCs to Indicate Requirement Levels”. S. Bradner. March 1997. URL: <http://www.ietf.org/rfc/rfc2119.txt>

2.2 Informative References

- [Arch] “IMPS Architecture”, Version 1.3, Open Mobile Alliance™, OMA-AD-IMPS-V1_3, URL: <http://www.openmobilealliance.org>
- [CSP] “Client-Server Protocol Session and Transactions”, Version 1.3, Open Mobile Alliance™, OMA-TS-IMPS_CSP-V1_3, URL: <http://www.openmobilealliance.org>
- [CSP DataType] “Client-Server Protocol Data Types”, Version 1.3, Open Mobile Alliance™, OMA-TS-IMPS_CSP_Data_Types-V1_3, URL: <http://www.openmobilealliance.org>
- [CSP PTS] “Client-Server Protocol Plain Text Syntax”, Version 1.3, Open Mobile Alliance™, OMA-TS-IMPS_CSP_PTS-V1_3, URL: <http://www.openmobilealliance.org>
- [CSP Trans] “Client-Server Protocol Transport Bindings”, Version 1.3, Open Mobile Alliance™, OMA-TS-IMPS_CSP_Transport-V1_3, URL: <http://www.openmobilealliance.org>
- [CSP WBXML] “Client-Server Protocol Binary XML Definition and Examples”, Version 1.3, Open Mobile Alliance™, OMA-TS-IMPS_CSP_WBXML-V1_3, URL: <http://www.openmobilealliance.org>
- [CSP XMLS] “Client-Server Protocol XML Syntax”, Version 1.3, Open Mobile Alliance™, OMA-TS-IMPS_CSP_XMLS, URL: <http://www.openmobilealliance.org>
- [SSP] “Server-Server Protocol Semantics”, Version 1.3, Open Mobile Alliance™, OMA-TS-IMPS_SSP-V1_3, URL: <http://www.openmobilealliance.org>
- [SSP Syntax] “Server-Server Protocol XML Syntax”, Version 1.3, Open Mobile Alliance™, OMA-TS-IMPS_SSP_XMLS-V1_3, URL: <http://www.openmobilealliance.org>
- [SSP Trans] “Server-Server Protocol Transport Binding”, Version 1.3, Open Mobile Alliance™, OMA-TS-IMPS_SSP_Transport-V1_3, URL: <http://www.openmobilealliance.org>

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.

3.2 Definitions

None

3.3 Abbreviations

OMA	Open Mobile Alliance
WV	Wireless Village

4. Introduction

This document defines the DTDs for the IMPS 1.3 presence attributes. The DTD for CSP transactions [CSP XMLS] defines the terminator for presence information to be PresenceSubList. The PresenceSubList defined in this document contains all the presence attributes defined in [PA] and is identified by the following namespace:

```
<PresenceSubList xmlns="http://www.openmobilealliance.org/DTD/IMPS-PA1.3">
```

5. PresenceSubList

5.1 Namespace definition

```

<!--
IMPS PA (IMPS-PA) V1.3 Document Type Definition

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IMPS-PA is an XML language. Typical usage:
  <?xml version="1.0"?>
  <!DOCTYPE IMPS-PA PUBLIC "-//OMA//DTD IMPS-PA 1.3//EN"
    "http://www.openmobilealliance.org/tech/DTD/IMPS-PA.DTD"
    [?oma-imps-ver supported-versions="1.3"?]>
  <PresenceSubList xmlns="http://www.openmobilealliance.org/DTD/IMPS-PA1.3">
  .....
  </PresenceSubList>

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Open Mobile Alliance Ltd. web site at
http://www.openmobilealliance.org/UseAgreement.html
-->

<?xml version="1.0" encoding="UTF-8"?>
<!ELEMENT PresenceSubList (OnlineStatus*,Registration*, ClientInfo*, TimeZone*, GeoLocation*,
  Address*, FreeTextLocation*, PLMN*, CommCap*, UserAvailability?, PreferredContacts?,
  PreferredLanguage?, StatusText?, StatusMood?, Alias?, StatusContent?, ContactInfo?,
  InfoLink?)>

<!ELEMENT Qualifier (#PCDATA)>
<!ELEMENT PresenceValue (#PCDATA)>

<!ELEMENT OnlineStatus (Qualifier?, PresenceValue?, ClientID?)>
<!ELEMENT Registration (Qualifier?, PresenceValue?, ClientID?)>
<!ELEMENT FreeTextLocation (Qualifier?, PresenceValue?, ClientID?)>
<!ELEMENT PLMN (Qualifier?, PresenceValue?, ClientID?)>
<!ELEMENT UserAvailability (Qualifier?, PresenceValue?)>
<!ELEMENT PreferredLanguage (Qualifier?, PresenceValue?)>
<!ELEMENT StatusText (Qualifier?, PresenceValue?)>
<!ELEMENT StatusMood (Qualifier?, PresenceValue?)>
<!ELEMENT Alias (Qualifier?, PresenceValue?)>
<!ELEMENT TimeZone (Qualifier?, Zone?, ClientID?)>

<!ELEMENT ClientInfo (Qualifier?, ClientContentLimit?, ClientType?, DevManufacturer?,
  ClientProducer?, Model?, ClientVersion?, Language?, ClientIMPriority?, ApplicationID?,
  ClientID?)>
<!ELEMENT ClientContentLimit ((AcceptedContentType+ | AnyContent), AcceptedTextContentLength,
  AcceptedTransferEncoding*, MaxPullLength, MaxPushLength, PlainTextCharset+)>
<!ELEMENT AcceptedContentType (ContentType, AcceptedRichContentLength, ContentPolicy,
  ContentPolicyLimit?)>
<!ELEMENT AnyContent (#PCDATA)>
<!ELEMENT AcceptedTextContentLength (#PCDATA)>
<!ELEMENT AcceptedTransferEncoding (#PCDATA)>
<!ELEMENT MaxPullLength (#PCDATA)>
<!ELEMENT MaxPushLength (#PCDATA)>
<!ELEMENT PlainTextCharset (#PCDATA)>
<!ELEMENT AcceptedRichContentLength (#PCDATA)>
<!ELEMENT ContentPolicy (#PCDATA)>
<!ELEMENT ContentPolicyLimit (#PCDATA)>

<!ELEMENT ClientType (#PCDATA)>
<!ELEMENT DevManufacturer (#PCDATA)>
<!ELEMENT ClientProducer (#PCDATA)>
<!ELEMENT Model (#PCDATA)>
<!ELEMENT ClientVersion (#PCDATA)>
<!ELEMENT Language (#PCDATA)>
<!ELEMENT Zone (#PCDATA)>
<!ELEMENT ClientIMPriority (#PCDATA)>
<!ELEMENT ApplicationID (#PCDATA)>

<!ELEMENT GeoLocation (Qualifier?, Longitude?, Latitude?, Altitude?, Accuracy?, ClientID?)>
<!ELEMENT Longitude (#PCDATA)>
<!ELEMENT Latitude (#PCDATA)>
<!ELEMENT Altitude (#PCDATA)>

```



```
<!ELEMENT Accuracy (#PCDATA)>

<!ELEMENT Address (Qualifier?, Country?, City?, Street?, Crossing1?, Crossing2?, Building?,
  NamedArea?, Accuracy?, ClientID?)>
<!ELEMENT Country (#PCDATA)>
<!ELEMENT City (#PCDATA)>
<!ELEMENT Street (#PCDATA)>
<!ELEMENT Crossing1 (#PCDATA)>
<!ELEMENT Crossing2 (#PCDATA)>
<!ELEMENT Building (#PCDATA)>
<!ELEMENT NamedArea (#PCDATA)>

<!ELEMENT CommCap (Qualifier?, CommC*, ClientID?)>
<!ELEMENT CommC (Cap, Status, Contact?, Note?)>
<!ELEMENT Cap (#PCDATA)>
<!ELEMENT Status (#PCDATA)>
<!ELEMENT Contact (#PCDATA)>
<!ELEMENT Note (#PCDATA)>

<!ELEMENT PreferredContacts (Qualifier?, AddrPref*)>
<!ELEMENT AddrPref (PrefC, Caddr, Cstatus, Cname?, Cpriority?)>
<!ELEMENT PrefC (#PCDATA)>
<!ELEMENT Caddr (#PCDATA)>
<!ELEMENT Cstatus (#PCDATA)>
<!ELEMENT Cname (#PCDATA)>
<!ELEMENT Cpriority (#PCDATA)>

<!ELEMENT StatusContent (Qualifier?, ((DirectContent | ReferredContent), ContentType?))>
<!ELEMENT DirectContent (#PCDATA)>
<!ELEMENT ReferredContent (#PCDATA)>

<!ELEMENT ContactInfo (Qualifier?, (ContainedvCard | ReferredvCard?))>
<!ELEMENT ContainedvCard (#PCDATA)>
<!ELEMENT ReferredvCard (#PCDATA)>

<!ELEMENT InfoLink (Qualifier?, Inf_link*)>
<!ELEMENT Inf_link (Link, Text?, ContentType?)>
<!ELEMENT Link (#PCDATA)>
<!ELEMENT Text (#PCDATA)>
<!ELEMENT ContentType (#PCDATA)>
```

6. Extended presence information

Stakeholders MAY define entirely new presence attributes and/or extend existing (standard or extension) presence attributes using extension fields.

The stakeholder defining an extension attribute MUST define the extension namespace for the PresenceSubList, and the format of each basic type.

The stakeholder defining an extension field MUST define the extension namespace for the PresenceSubList, and the format of the extension fields.

The namespaces for extended attributes/fields MUST be unique, however a single extension namespace MAY contain definition of several extension attributes/fields.

The 'xmlns' parameter MUST contain a namespace definition for the presence attributes (standard or extension).

The 'xmlns:Ext' parameter MUST contain a namespace definition for the extension fields that extend the presence attribute namespace indicated in 'xmlns' parameter.

The 'xmlns' and the 'xmlns:Ext' namespaces MUST NOT be the same in any given PresenceSubList.

6.1 Example for using entirely new presence attributes

```
<PresenceSubList xmlns="http://www.foo.com/PAExtAttr1.0">
  <SomePresence>
    <Qualifier>T</Qualifier>
    <SomeField>This is a new presence attribute<SomeField>
    <SomeOtherField>Copyright Foo Industries.<SomeOtherField>
  </SomePresence>
</PresenceSubList>
```

6.2 Example for extending IMPS presence attributes with new fields

```
<PresenceSubList
  xmlns="http://www.openmobilealliance.org/DTD/IMPS-PA1.3"
  xmlns:Ext="http://www.foo.com/PAExtIMPSFields1.0">
  <UserAvailability>
    <Qualifier>T</Qualifier>
    <PresenceValue>AVAILABLE</PresenceValue>
    <Ext:Origin>IM-application</Ext:Origin>
  </UserAvailability>
</PresenceSubList>
```

6.3 Example for extending extension presence attributes with new fields

```
<PresenceSubList
  xmlns=" http://www.foo.com/PAExtAttr1.0"
  xmlns:Ext="http://www.foo.com/PAExtAttrFields1.1">
  <SomePresence>
    <Qualifier>T</Qualifier>
    <SomeField>This is a new presence attribute<SomeField>
    <SomeOtherField>Copyright Foo Industries.<SomeOtherField>
    <Ext:FPath>fooApplication/footPath/fooFile</Ext:FPath>
  </SomePresence>
</PresenceSubList>
```

Appendix A. Change History

(Informative)

A.1 Approved Version History

Reference	Date	Description
OMA-TS-IMPS_PA_XMLS-V1_3	23 Jan 2007	Status changed to Approved by TP TP Doc ref# OMA-TP-2006-0453R02

Appendix B. Static Conformance Requirements (Normative)

The notation used in this section is specified in [IOPPROC].

B.1 XML encoding requirements

B.1.1 Clients

Item	Function	Reference	Status	Requirement
IMPS-PA-XML-C-001	XML encoding is well-formed.	[XML]	M	
IMPS-PA-XML-C-002	XML encoding follows the DTD	[CSP]	M	
IMPS-PA-XML-C-003	XML encoding tolerates protocol extension.	[CSP]	M	
IMPS-PA-XML-C-004	The namespace identifier for the IMPS-defined presence attributes is "http://www.openmobilealliance.org/DTD/IMPS-PA1.3"	5.1	M	[CSP] IMPS-CSP-XML-C-009
IMPS-PA-XML-C-005	The client supports presence attribute encoding using binary XML format.	[CSP WBXML]	O	[CSP] IMPS-CSP-XML-C-009
IMPS-PA-XML-C-006	The client supports presence attribute encoding using textual XML format.	[CSP XMLS]	O	[CSP] IMPS-CSP-XML-C-009
IMPS-PA-XML-C-007	The client supports presence attribute encoding using PTS format.	[CSP PTS]	O	[CSP PTS] IMPS-CSP-PTS-C-001
IMPS-PA-XML-C-008	The client supports presence attribute encoding using either the textual XML format, the binary XML format, or the PTS format.	[CSP]	M	IMPS-PA-XML-C-005 OR IMPS-PA-XML-C-006 OR IMPS-PA-XML-C-007

B.1.2 Servers

Item	Function	Reference	Status	Requirement
IMPS-PA-XML-S-001	XML encoding is well-formed	[XML]	M	
IMPS-PA-XML-S-002	XML encoding follows the DTD	[CSP]	M	
IMPS-PA-XML-S-003	XML encoding tolerates protocol extension	[CSP]	M	
IMPS-PA-XML-S-004	The namespace identifier for the IMPS- defined presence attributes is "http://www.openmobilealliance.org/DTD/IMPS-PA1.3"	5.1	M	
IMPS-PA-XML-S-005	The server supports presence attribute encoding using binary XML format	[CSP WBXML]	O	[CSP] IMPS-CSP-XML-S-007
IMPS-PA-XML-S-006	The server supports presence attribute encoding using textual XML format	[CSP XMLS]	O	[CSP] IMPS-CSP-XML-S-008

Item	Function	Reference	Status	Requirement
IMPS-PA-XML-S-007	The server supports presence attribute encoding using PTS format.	[CSP PTS]	O	[CSP PTS] IMPS-CSP-PTS-S-001
IMPS-PA-XML-S-008	The server supports presence attribute encoding using either the textual XML format, the binary XML format, or the PTS format.	[CSP]	M	(IMPS-PA-XML-S-005 AND IMPS-PA-XML-C-006) OR IMPS-PA-XML-S-007

Appendix C. Examples of presence information (Informative)

C.1.1 Using PresenceSubList as reference to presence attributes

All the attributes have semantics defined to allow an empty value. Therefore it is possible to create a list that contains the names of the attributes only. This type of list can be used for attribute referencing when requesting/subscribing presence attributes.

```
<PresenceSubList xmlns="http://www.openmobilealliance.org/DTD/IMPS-PA1.3">
  <OnlineStatus/>
  <Registration/>
  <FreeTextLocation/>
  <PLMN/>
  <UserAvailability/>
  <PreferredLanguage/>
  <StatusText/>
  <StatusMood/>
  <Alias/>
  <TimeZone/>
  <ClientInfo/>
  <GeoLocation/>
  <Address/>
  <CommCap/>
  <PreferredContacts/>
  <StatusContent/>
  <ContactInfo/>
  <InfoLink/>
</PresenceSubList>
```

C.1.2 OnlineStatus

```
<PresenceSubList xmlns="http://www.openmobilealliance.org/DTD/IMPS-PA1.3">
  <OnlineStatus>
    <Qualifier>T</Qualifier>
    <PresenceValue>T</PresenceValue>
    <ClientID>http://100.100.100.100:80/IMPSAPP</ClientID>
  </OnlineStatus>
</PresenceSubList>
```

C.1.3 Registration

```
<PresenceSubList xmlns="http://www.openmobilealliance.org/DTD/IMPS-PA1.3">
  <Registration>
    <Qualifier>T</Qualifier>
    <PresenceValue>T</PresenceValue>
    <ClientID>http://100.100.100.100:80/IMPSAPP</ClientID>
  </Registration>
</PresenceSubList>
```

C.1.4 FreeTextLocation

```
<PresenceSubList xmlns="http://www.openmobilealliance.org/DTD/IMPS-PA1.3">
  <FreeTextLocation>
    <Qualifier>T</Qualifier>
    <PresenceValue>At home</PresenceValue>
    <ClientID>http://100.100.100.100:80/IMPSAPP</ClientID>
  </FreeTextLocation>
</PresenceSubList>
```

C.1.5 PLMN

```
<PresenceSubList xmlns="http://www.openmobilealliance.org/DTD/IMPS-PA1.3">
  <PLMN>
    <Qualifier>T</Qualifier>
    <PresenceValue>Sonera</PresenceValue>
    <ClientID>http://100.100.100.100:80/IMPSAPP</ClientID>
  </PLMN>
</PresenceSubList>
```

C.1.6 UserAvailability

```
<PresenceSubList xmlns="http://www.openmobilealliance.org/DTD/IMPS-PA1.3">
  <UserAvailability>
    <Qualifier>T</Qualifier>
    <PresenceValue>AVAILABLE</PresenceValue>
  </UserAvailability>
</PresenceSubList>
```

C.1.7 PreferredLanguage

```
<PresenceSubList xmlns="http://www.openmobilealliance.org/DTD/IMPS-PA1.3">
  <PreferredLanguage>
    <Qualifier>T</Qualifier>
    <PresenceValue>fin</PresenceValue>
  </PreferredLanguage>
</PresenceSubList>
```

C.1.8 StatusText

```
<PresenceSubList xmlns="http://www.openmobilealliance.org/DTD/IMPS-PA1.3">
  <StatusText>
    <Qualifier>T</Qualifier>
    <PresenceValue>Busy editing a document</PresenceValue>
  </StatusText>
</PresenceSubList>
```

C.1.9 StatusMood

```
<PresenceSubList xmlns="http://www.openmobilealliance.org/DTD/IMPS-PA1.3">
  <StatusMood>
    <Qualifier>T</Qualifier>
    <PresenceValue>SLEEPY</PresenceValue>
  </StatusMood>
</PresenceSubList>
```

C.1.10 Alias

```
<PresenceSubList xmlns="http://www.openmobilealliance.org/DTD/IMPS-PA1.3">
  <Alias>
    <Qualifier>T</Qualifier>
    <PresenceValue>ASa</PresenceValue>
  </Alias>
</PresenceSubList>
```

C.1.11 TimeZone

```
<PresenceSubList xmlns="http://www.openmobilealliance.org/DTD/IMPS-PA1.3">
  <TimeZone>
    <Qualifier>T</Qualifier>
    <Zone>+02</Zone>
    <ClientID>http://100.100.100.100:80/IMPSAPP</ClientID>
  </TimeZone>
</PresenceSubList>
```

C.1.12 ClientInfo

```
<PresenceSubList xmlns="http://www.openmobilealliance.org/DTD/IMPS-PA1.3">
  <ClientInfo>
    <Qualifier>T</Qualifier>
    <ClientContentLimit>
      <AcceptedContentType>
        <ContentType>image/jpeg</ContentType>
        <AcceptedRichContentLength>307200</AcceptedRichContentLength>
        <ContentPolicy>R</ContentPolicy>
        <ContentPolicyLimit>307201</ContentPolicyLimit>
      </AcceptedContentType>
    </ClientContentLimit>
  </ClientInfo>
</PresenceSubList>
```

```

    <AcceptedContentType>
      <ContentType>multipart/mixed</ContentType>
      <AcceptedRichContentLength>1024000</AcceptedRichContentLength>
      <ContentPolicy>C</ContentPolicy>
      <ContentPolicyLimit>1024001</ContentPolicyLimit>
    </AcceptedContentType>
    <AcceptedTextContentLength>10240</AcceptedTextContentLength>
    <AcceptedTransferEncoding>BASE64</AcceptedTransferEncoding>
    <MaxPullLength>5242880</MaxPullLength>
    <MaxPushLength>102400</MaxPushLength>
    <PlainTextCharset>4</PlainTextCharset>
    <PlainTextCharset>62</PlainTextCharset>
    <PlainTextCharset>106</PlainTextCharset>
  </ClientContentLimit>
  <ClientType>MOBILE_PHONE</ClientType>
  <DevManufacturer>ABC Company</DevManufacturer>
  <Model>xyz200</Model>
  <Language>fin</Language>
  <ClientIMPriority>32767</ClientIMPriority>
  <ApplicationID>MyChessGamev1.1b123</ApplicationID>
  <ClientID>http://100.100.100.100:80/IMPSAPP</ClientID>
</ClientInfo>
</PresenceSubList>

```

C.1.13 GeoLocation

```

<PresenceSubList xmlns="http://www.openmobilealliance.org/DTD/IMPS-PA1.3">
  <GeoLocation>
    <Qualifier>T</Qualifier>
    <Longitude>35 24 15.652W</Longitude>
    <Latitude>12 36 22.5N</Latitude>
    <Accuracy>200</Accuracy>
    <ClientID>http://100.100.100.100:80/IMPSAPP</ClientID>
  </GeoLocation>
</PresenceSubList>

```

C.1.14 Address

```

<PresenceSubList xmlns="http://www.openmobilealliance.org/DTD/IMPS-PA1.3">
  <Address>
    <Qualifier>T</Qualifier>
    <Country>GB</Country>
    <City>London</City>
    <ClientID>http://100.100.100.100:80/IMPSAPP</ClientID>
  </Address>
</PresenceSubList>

```

C.1.15 CommCap

```

<PresenceSubList xmlns="http://www.openmobilealliance.org/DTD/IMPS-PA1.3">
  <CommCap>
    <Qualifier>T</Qualifier>
    <CommC>
      <Cap>CALL</Cap>
      <Status>OPEN</Status>
      <Contact>+35804123123</Contact>
      <Note>I am using this phone during office hours</Note>
    </CommC>
    <CommC>
      <Cap>CALL</Cap>
      <Status>CLOSED</Status>
      <Contact>+35805456456</Contact>
      <Note>I am using this phone outside office hours</Note>
    </CommC>
    <CommC>
      <Cap>IM</Cap>
      <Status>OPEN</Status>
      <Contact>ari@im.com</Contact>
      <Note>My IM-application is now online</Note>
    </CommC>
  </CommCap>
</PresenceSubList>

```



```

    <ClientID>http://100.100.100.100:80/IMPSAPP</ClientID>
  </CommCap>
</PresenceSubList>

```

C.1.16 PreferredContacts

```

<PresenceSubList xmlns="http://www.openmobilealliance.org/DTD/IMPS-PA1.3">
  <PreferredContacts>
    <Qualifier>T</Qualifier>
    <AddrPref>
      <PrefC>CALL</PrefC>
      <Caddr>+35804123123</Caddr>
      <Cstatus>OPEN</Cstatus>
      <Cname>Home Phone</Cname>
      <Cpriority>10</Cpriority>
    </AddrPref>
    <AddrPref>
      <PrefC>SMS</PrefC>
      <Caddr>+35804123123</Caddr>
      <Cstatus>CLOSED</Cstatus>
      <Cpriority>20</Cpriority>
    </AddrPref>
    <AddrPref>
      <PrefC>IM</PrefC>
      <Caddr>ari@im.com</Caddr>
      <Cstatus>OPEN</Cstatus>
      <Cname>My IM</Cname>
      <Cpriority>30</Cpriority>
    </AddrPref>
  </PreferredContacts>
</PresenceSubList>

```

C.1.17 StatusContent

C.1.17.1 Referred

```

<PresenceSubList xmlns="http://www.openmobilealliance.org/DTD/IMPS-PA1.3">
  <StatusContent>
    <Qualifier>T</Qualifier>
    <ReferredContent>http://www.foo.com/Pictures/MyLogo</ReferredContent>
    <ContentType>image/gif</ContentType>
  </StatusContent>
</PresenceSubList>

```

C.1.17.2 Direct

```

<PresenceSubList xmlns="http://www.openmobilealliance.org/DTD/IMPS-PA1.3">
  <StatusContent>
    <Qualifier>T</Qualifier>
    <DirectContent>BASE64EncodedDataHere</DirectContent>
    <ContentType>image/gif</ContentType>
  </StatusContent>
</PresenceSubList>

```

C.1.18 ContactInfo

C.1.18.1 Referred

```

<PresenceSubList xmlns="http://www.openmobilealliance.org/DTD/IMPS-PA1.3">
  <ContactInfo>
    <Qualifier>T</Qualifier>
    <ReferredvCard>http://www.foo.com/Contacts/vCards/MyCard</ReferredvCard>
  </ContactInfo>
</PresenceSubList>

```

C.1.18.2 Contained

```

<PresenceSubList xmlns="http://www.openmobilealliance.org/DTD/IMPS-PA1.3">

```

```
<ContactInfo>
  <Qualifier>T</Qualifier>
  <ContainedvCard>vCardDataHere</ContainedvCard>
</ContactInfo>
</PresenceSubList>
```

C.1.19 InfoLink

```
<PresenceSubList xmlns="http://www.openmobilealliance.org/DTD/IMPS-PA1.3">
  <InfoLink>
    <Qualifier>T</Qualifier>
    <Inf_link>
      <Link>http://www.myserviceprovider.com/myHomePage</Link>
      <Text>This is my homepage</Text>
      <ContentType>text/html</ContentType>
    </Inf_link>
  </InfoLink>
</PresenceSubList>
```