



Presence Attributes XML Syntax

Candidate Version 1.3 – 11 Oct 2005

Open Mobile Alliance
OMA-TS-IMPS-PA_XMLS-V1_3-20051011-C

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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™. 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", OMA-TS-IMPS-PA-V1_3. Open Mobile Alliance™. 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 1.3 Architecture Version 1.3", OMA-AD-IMPS-V1_3. Open Mobile Alliance™. URL: <http://www.openmobilealliance.org>
- [CSP] "Client-Server Protocol Session and Transactions Version 1.3", OMA-TS-IMPS-CSP-V1_3. Open Mobile Alliance™. URL: <http://www.openmobilealliance.org>
- [CSP XMLS] "Client-Server Protocol DTD and Examples Version 1.3", OMA-TS-IMPS-CSP_XMLS-V1_3. Open Mobile Alliance™. URL: <http://www.openmobilealliance.org>
- [CSP Trans] "Client-Server Protocol Transport Bindings Version 1.3", OMA-TS-IMPS-CSP_Transport-V1_3. Open Mobile Alliance™. URL: <http://www.openmobilealliance.org>
- [CSP DataType] "Client-Server Protocol Data Types Version 1.3", OMA-TS-IMPS-CSP_Data_Types-V1_3. Open Mobile Alliance™. URL: <http://www.openmobilealliance.org>
- [CSP PTS] "Client-Server Protocol Plain Text Syntax Version 1.3", OMA-TS-IMPS-CSP_PTS-V1_3. Open Mobile Alliance™. URL: <http://www.openmobilealliance.org>
- [CSP WBXML] "Client-Server Protocol Binary XML Definition and Examples Version 1.3", OMA-TS-IMPS-CSP_WBXML-V1_3. Open Mobile Alliance™. URL: <http://www.openmobilealliance.org>
- [SSP] "Server-Server Protocol Semantics Version 1.3", OMA-TS-IMPS-SSP-V1_3. Open Mobile Alliance™. URL: <http://www.openmobilealliance.org>
- [SSP Syntax] "Server-Server Protocol XML Syntax Version 1.3", OMA-TS-IMPS-SSP_Syntax-V1_3. Open Mobile Alliance™. URL: <http://www.openmobilealliance.org>
- [SSP Trans] "Server-Server Protocol Transport Binding Version 1.3", OMA-TS-IMPS-SSP_Transport-V1_3. Open Mobile Alliance™. 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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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
n/a	n/a	No prior version

A.2 Draft/Candidate Version 1.3 History

Document Identifier	Date	Sections	Description
Draft Versions OMA-IMPS-WV-PA_XMLS-V1_3	31 Dec 2004	All	- Taken OMA-IMPS-Enabler-Package-V1_2-20041217-C package as baseline. - Updated references to 1.3 specs - also removed SCR references as those documents are going to be discontinued. - Removed WV tags from document IDs. - Replaced references from 1.2 to 1.3, and updated the examples as well. - Document renamed from Presence Attribute DTD and Examples (PA DTD) to Presence Attribute XML Syntax (PA XMLS).
	7 Jan 2005	All	- Added SCR table.
	28 Jan 2005	All	- Updated references.
Draft Versions OMA-IMPS-PA_XMLS-V1_3	04 Feb 2005	All	- Applied OMA 2005 spec template. - Applied OMA 2005 DTD template.
	19 Apr 2005	5.2 6 Appendix C	- OMA-IM-2005-0103-IMPS13-ExMove_PA_XMLS
	25 Apr 2005	5.1 Appendix C	- OMA-IM-2005-0227-IMPS13_MsgCapBound_PA_XMLS - OMA-IM-2005-0229R01-IMPS13_MultiSessionApp_PA_XMLS
	26 Apr 2005	Footer ToC Appendix A	- Editorial Update
Draft Versions OMA-TS-IMPS-PA_XMLS-V1_3	25 Jun 2005	Appendix C 2.1 2.2 5.3 2.2, 4, 6, Appendix B, Appendix C	Changed font for examples Removed unused normative references OMA-IM-2005-0359-IMPS13-ArchRef-PA_XMLS OMA-IM-2005-0377-IMPS-13-PA-XMLS-NameSpaces OMA-IM-2005-0345-CONRR_Corrections_PA_XMLS.doc
	8 Aug 2005	Appendix C	Removed empty table rows Implemented OMA-IM-2005-0502-IMPS13_CIDFix-PA_XMLS
	26 Aug 2005	2	Fixed references
Candidate Versions OMA-TS-IMPS-PA_XMLS-V1_3	11 Oct 2005	n/a	Status changed to Candidate by TP TP ref # OMA-TP-2005-0279R01-IMPS-V1_3-for-Candidate-approval

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-1	XML encoding is well-formed	[XML]	M	
IMPS-PA-XML-C-2	XML encoding follows the DTD	[CSP]	M	
IMPS-PA-XML-C-3	XML encoding tolerates protocol extension	[CSP]	M	
IMPS-PA-XML-C-4	The namespace identifier for the IMPS-defined presence attributes is "http://www.openmobilealliance.org/DTD/IMPS-PA1.3"	[CSP XMLS] and [PA XMLS]	M	[CSP] IMPS-CSP-XML-C-009
IMPS-PA-XML-C-5	The client supports presence attribute encoding using binary XML format	[CSP WBXML]	O	[CSP] IMPS-CSP-XML-C-009
IMPS-PA-XML-C-6	The client supports presence attribute encoding using textual XML format	[CSP XMLS]	O	[CSP] IMPS-CSP-XML-C-009
IMPS-PA-XML-C-7	The client supports presence attribute encoding using PTS format.	[CSP PTS]	O	[CSP PTS] IMPS-CSP-PTS-C-001
IMPS-PA-XML-C-8	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-1	XML encoding is well-formed	[XML]	M	
IMPS-PA-XML-S-2	XML encoding follows the DTD	[CSP]	M	
IMPS-PA-XML-S-3	XML encoding tolerates protocol extension	[CSP]	M	
IMPS-PA-XML-S-4	The namespace identifier for the IMPS- defined presence attributes is "http://www.openmobilealliance.org/DTD/IMPS-PA1.3"	[CSP XMLS] and [PA XMLS]	M	
IMPS-PA-XML-S-5	The server supports presence attribute encoding using binary XML format	[CSP WBXML]	O	[CSP] IMPS-CSP-XML-S-007
IMPS-PA-XML-S-6	The server supports presence attribute encoding using textual XML format	[CSP XMLS]	O	[CSP] IMPS-CSP-XML-S-008
IMPS-PA-	The server supports presence attribute encoding using PTS	[CSP PTS]	O	[CSP PTS] IMPS-CSP-PTS-S-001

Item	Function	Reference	Status	Requirement
XML-S-7	format.			
IMPS-PA-XML-S-8	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>
```