WV-050 Presence Attribute DTD and Examples

Version 1.2

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Open Mobile Alliance
OMA-IMPS-WV-PA_DTD-v1_2-20030221-C

Continues the Technical Activities
Originated in the Wireless Village Initiative

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Contents

1. Scope

The Wireless Village 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 mo od (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.

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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

None

4. Introduction

This document defines the DTDs for the presence attributes. The DTD for CSP transactions [CSP DTD] 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/WV-
  PA1.2">
```

5. PresenceSubList

5.1   Namespace definition

```
<!--
WV PA (WV-PA) V1.2 Document Type Definition

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WV-PA is an XML language. Typical usage:
    <?xml version="1.0"?>
    <!DOCTYPE WV-PA PUBLIC "-//OMA//DTD WV-PA 1.2//EN"
                "http://www.openmobilealliance.org/DTD/WV-PA.DTD"
                [<?oma-wvpa-ver supported-versions="1.2"?>]>
    <PresenceSubList xmlns="http://www.openmobilealliance.org/DTD/WV-
   PA1.2">
        ...
    </PresenceSubList>

Terms and conditions of use are available from the
Open Mobile Alliance Ltd. web site at
http://www.openmobilealliance.org/useterms.html
-->

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

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

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

<!ELEMENT ClientInfo (Qualifier?, ClientType?, DevManufacturer?,
   ClientProducer?, Model?, ClientVersion?, Language?)>
<!ELEMENT ClientType (#PCDATA)>
<!ELEMENT DevManufacturer (#PCDATA)>
<!ELEMENT ClientProducer (#PCDATA)>
<!ELEMENT Model (#PCDATA)>
```

```
<!ELEMENT ClientVersion (#PCDATA)>
<!ELEMENT Language (#PCDATA)>
<!ELEMENT Zone (#PCDATA)>

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

<!ELEMENT Address (Qualifier?, Country?, City?, Street?, Crossing1?,
   Crossing2?, Building?, NamedArea?, Accuracy?)>
<!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*)>
<!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)>
```

5.2   Examples of presence information

5.2.1   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/WV-
   PA1.2">
   <OnlineStatus/>
   <Registration/>
   <ClientInfo/>
   <TimeZone/>
   <GeoLocation/>
   <Address/>
   <FreeTextLocation/>
   <PLMN/>
   <CommCap/>
   <UserAvailability/>
   <PreferredContacts/>
   <PreferredLanguage/>
   <StatusText/>
   <StatusMood/>
   <Alias/>
   <StatusContent/>
   <ContactInfo/>
<PresenceSubList>
```

5.2.2   OnlineStatus

```
<PresenceSubList xmlns="http://www.openmobilealliance.org/DTD/WV-
   PA1.2">
   <OnlineStatus>
   <Qualifier>T</Qualifier>
   <PresenceValue>T</PresenceValue>
   </OnlineStatus>
</PresenceSubList>
```

5.2.3   Registration

```
<PresenceSubList xmlns="http://www.openmobilealliance.org/DTD/WV-
   PA1.2">
   <Registration>
   <Qualifier>T</Qualifier>
   <PresenceValue>T</PresenceValue>
   </Registration>
</PresenceSubList>
```

5.2.4   ClientInfo

```
<PresenceSubList xmlns="http://www.openmobilealliance.org/DTD/WV-
   PA1.2">
```

```
    <ClientInfo>
    <Qualifier>T</Qualifier>
    <ClientType>MOBILE PHONE</ClientType>
    <DevManufacturer>ABC Company</DevManufacturer>
    <Model>xyz200</Model>
    <Language>fin</Language>
    </ClientInfo>
</PresenceSubList>
```

5.2.5   TimeZone

```
<PresenceSubList xmlns="http://www.openmobilealliance.org/DTD/WV-
    PA1.2">
    <TimeZone>
    <Qualifier>T</Qualifier>
    <Zone>+02</Zone>
    </TimeZone>
</PresenceSubList>
```

5.2.6   GeoLocation

```
<PresenceSubList xmlns="http://www.openmobilealliance.org/DTD/WV-
    PA1.2">
    <GeoLocation>
    <Qualifier>T</Qualifier>
    <Longitude>35 24 15.652W</Longitude>
    <Latitude>12 36 22.5N</Latitude>
    <Accuracy>200</Accuracy>
    </GeoLocation>
</PresenceSubList>
```

5.2.7   Address

```
<PresenceSubList xmlns="http://www.openmobilealliance.org/DTD/WV-
    PA1.2">
    <Address>
    <Qualifier>T</Qualifier>
    <Country>GB</Country>
    <City>London</City>
    </Address>
</PresenceSubList>
```

5.2.8   FreeTextLocation

```
<PresenceSubList xmlns="http://www.openmobilealliance.org/DTD/WV-
    PA1.2">
    <FreeTextLocation>
    <Qualifier>T</Qualifier>
    <PresenceValue>At home</PresenceValue>
    </FreeTextLocation>
</PresenceSubList>
```

5.2.9   PLMN

```
<PresenceSubList xmlns="http://www.openmobilealliance.org/DTD/WV-
  PA1.2">
  <PLMN>
  <Qualifier>T</Qualifier>
  <PresenceValue>Sonera</PresenceValue>
  </PLMN>
</PresenceSubList>
```

5.2.10   CommCap

```
<PresenceSubList xmlns="http://www.openmobilealliance.org/DTD/WV-
  PA1.2">
  <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>
```

5.2.11   UserAvailability

```
<PresenceSubList xmlns="http://www.openmobilealliance.org/DTD/WV-
  PA1.2">
  <UserAvailability>
  <Qualifier>T</Qualifier>
  <PresenceValue>AVAILABLE</PresenceValue>
  </UserAvailability>
</PresenceSubList>
```

5.2.12   PreferredContacts

```
<PresenceSubList xmlns="http://www.openmobilealliance.org/DTD/WV-
  PA1.2">
  <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>
```

5.2.13   PreferredLanguage

```
<PresenceSubList xmlns="http://www.openmobilealliance.org/DTD/WV-
  PA1.2">
  <PreferredLanguage>
  <Qualifier>T</Qualifier>
  <PresenceValue>fin</PresenceValue>
  </PreferredLanguage>
</PresenceSubList>
```

5.2.14   StatusText

```
<PresenceSubList xmlns="http://www.openmobilealliance.org/DTD/WV-
  PA1.2">
  <StatusText>
  <Qualifier>T</Qualifier>
  <PresenceValue>Busy editing a document</PresenceValue>
  </StatusText>
</PresenceSubList>
```

5.2.15   StatusMood

```
<PresenceSubList xmlns="http://www.openmobilealliance.org/DTD/WV-
  PA1.2">
  <StatusMood>
  <Qualifier>T</Qualifier>
  <PresenceValue>SLEEPY</PresenceValue>
  </StatusMood>
</PresenceSubList>
```

5.2.16   Alias

```
<PresenceSubList xmlns="http://www.openmobilealliance.org/DTD/WV-
   PA1.2">
   <Alias>
   <Qualifier>T</Qualifier>
   <PresenceValue>ASa</PresenceValue>
   </Alias>
</PresenceSubList>
```

5.2.17   StatusContent

5.2.17.1   Referred

```
<PresenceSubList xmlns="http://www.openmobilealliance.org/DTD/WV-
   PA1.2">
   <StatusContent>
   <Qualifier>T</Qualifier>

     <ReferredContent>http://www.foo.com/Pictures/MyLogo</ReferredConte
   nt>
     <ContentType>image/gif</ContentType>
   </StatusContent>
</PresenceSubList>
```

5.2.17.2   Direct

```
<PresenceSubList xmlns="http://www.openmobilealliance.org/DTD/WV-
   PA1.2">
   <StatusContent>
   <Qualifier>T</Qualifier>
   <DirectContent>BASE64EncodedDataHere</DirectContent>
   <ContentType>image/gif</ContentType>
   </StatusContent>
</PresenceSubList>
```

5.2.18   ContactInfo

5.2.18.1   Referred

```
<PresenceSubList xmlns="http://www.openmobilealliance.org/DTD/WV-
   PA1.2">
   <ContactInfo>
   <Qualifier>T</Qualifier>
   <ReferredvCard>http://www.foo.com/Contacts/vCards/MyCard</ReferredvCard>
   </ContactInfo>
</PresenceSubList>
```

5.2.18.2   Contained

```
<PresenceSubList xmlns="http://www.openmobilealliance.org/DTD/WV-
   PA1.2">
   <ContactInfo>
   <Qualifier>T</Qualifier>
   <ContainedvCard>vCardDataHere</ContainedvCard>
   </ContactInfo>
</PresenceSubList>
```

5.2.19   InfoLink

```
<PresenceSubList xmlns="http://www.openmobilealliance.org/DTD/WV-
   PA1.2">
   <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>
```

5.3   Extending the WV DTD

In future versions of the [PA] new attributes may be introduced or old ones may be modified. The following principles in the DTD definition should be observed:

- Attributes that remain unmodified are to be kept in the original namespace.

- Modified and new attributes are defined by a new namespace (for `PresenceSubList`).

- The namespace itself (for `PresenceSubList`) refers to the [PA] version where these attributes are defined.

6. Extended presence information

The stakeholder defining an extension attribute also defines the namespace for the `PresenceSubList`. The stakeholder must define the format of each basic type. The namespace for the `PresenceSubList` is defined by the stakeholder and must be unique. The stakeholder defining an extension field also defines the namespace for the `Ext` prefix.

6.1   Example for extending attributes with new fields

```
<PresenceSubList xmlns="http://www. openmobilealliance.org/DTD/WV-
   PA1.2"
              xmlns:Ext="http://www.foo.com/PAExt1.0">
<UserAvailability>
<Qualifier>T</Qualifier>
<Ext:Origin>IM-application</Ext:Origin>
<PresenceValue>AVAILABLE</PresenceValue>
</UserAvailability>
</PresenceSubList>
```

Appendix A.   Static Conformance Requirements   (Normative)

The static conformance requirements for this specification is specified in [CSP SCR] and [SSP SCR].

Appendix B.   Change History   (Informative)

Type of Change	Date	Section	Description
Class 0	2003-01-17		The initial version of this document.