



## **WV-050 Presence Attribute DTD and Examples**

Approved Version 1.2 – 25 Jan 2005

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**Open Mobile Alliance**

OMA-IMPS-WV-PA-DTD-V1\_2-20050125-A

Continues the Technical Activities  
Originated in the Wireless Village Initiative



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# 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 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

- [IOPPROC] "OMA Interoperability Policy and Process", Version 1.1, Open Mobile Alliance™, OMA-IOP-Process-V1\_1, <http://www.openmobilealliance.org/>
- [CSP DTD] "WV-043 Client-Server Protocol DTD and Examples Version 1.2". Open Mobile Alliance. <http://www.openmobilealliance.org/>
- [CSP SCR] "WV-048 Client-Server Protocol Static Conformance Requirement Version 1.2". Open Mobile Alliance. <http://www.openmobilealliance.org/>
- [PA] "WV-049 Presence Attributes Version 1.2". Open Mobile Alliance. <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>
- [RFC2234] "Augmented BNF for Syntax Specifications: ABNF". D. Crocker, Ed., P. Overell. November 1997. URL:<http://www.ietf.org/rfc/rfc2234.txt>
- [SSP SCR] "WV-055 SSP – Server-Server Protocol Static Conformance Requirement Version 1.2". Open Mobile Alliance. <http://www.openmobilealliance.org/>

### 2.2 Informative References

- [Arch] "WV-040 System Architecture Model Version 1.2". Open Mobile Alliance. <http://www.openmobilealliance.org/>
- [FeaFun] "WV-041 Features and Functions Version 1.2". Open Mobile Alliance. <http://www.openmobilealliance.org/>
- [CSP] "WV-042 Client-Server Protocol Session and Transactions Version 1.2". Open Mobile Alliance. <http://www.openmobilealliance.org/>
- [CSP DTD] "WV-043 Client-Server Protocol DTD and Examples Version 1.2". Open Mobile Alliance. <http://www.openmobilealliance.org/>
- [CSP Trans] "WV-044 Client-Server Protocol Transport Bindings Version 1.2". Open Mobile Alliance. <http://www.openmobilealliance.org/>
- [CSP  
DataType] "WV-045 Client-Server Protocol Data Types Version 1.2". Open Mobile Alliance. <http://www.openmobilealliance.org/>
- [CSP SMS] "WV-046 Client-Server Protocol SMS Binding Version 1.2". Open Mobile Alliance. <http://www.openmobilealliance.org/>
- [CSP  
WBXML] "WV-047 Client-Server Protocol Binary Definition and Examples Version 1.2". Open Mobile Alliance. <http://www.openmobilealliance.org/>
- [CSP SCR] "WV-048 Client-Server Protocol Static Conformance Requirement Version 1.2". Open Mobile Alliance. <http://www.openmobilealliance.org/>
- [PA] "WV-049 Presence Attributes Version 1.2". Open Mobile Alliance. <http://www.openmobilealliance.org/>
- [PA DTD] "WV-050 Presence Attribute DTD and Examples Version 1.2". Open Mobile Alliance. <http://www.openmobilealliance.org/>

- [CLP] "WV-051 Command Line Protocol Version 1.2". Open Mobile Alliance. <http://www.openmobilealliance.org/>
- [SSP] "WV-052 SSP - Server-Server Protocol Semantics Document Version 1.2". Open Mobile Alliance. <http://www.openmobilealliance.org/>
- [SSP Syntax] "WV-053 Server-Server Protocol XML Syntax Document Version 1.2". Open Mobile Alliance. <http://www.openmobilealliance.org/>
- [SSP Trans] "WV-054 SSP - Transport Binding Version 1.2". Open Mobile Alliance. <http://www.openmobilealliance.org/>
- [SSP SCR] "WV-055 SSP – Server-Server Protocol Static Conformance Requirement Version 1.2". Open Mobile Alliance. <http://www.openmobilealliance.org/>
- [WAPARCH] "WAP Architecture, Version 12-July-2001". Open Mobile Alliance™. WAP-210-WAPArch. <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

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>

```

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```

-->

<?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?)>
<!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>
  </ClientInfo>
</PresenceSubList>
```

```
<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>
  </PreferredContacts>
</PresenceSubList>
```

```

    <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</ReferredContent>
  <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>
```

## 7. Static Conformance Requirements (Normative)

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

## Appendix A. Change History

(Informative)

### A.1 Approved Version History

Reference	Date	Description
OMA-WV-PA_DTD-V1_1-20021001-A	01 Oct 2002	Version 1.1
OMA-IMPS-WV-PA-DTD-V1_2-20050125-A	25 Jan 2005	Version 1.2 Ref TP Doc# OMA-TP-2004-0457-IMPS-V1_2-for-final-approval