



## **Presence Attributes**

## **DTD and Examples**

## **Version 1.1**

**WV Internal Tracking Number: WV-030**

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## 1. REVISION HISTORY

<b>Date</b>	<b>Issue</b>	<b>Description</b>	<b>Author</b>
February 13 <sup>th</sup>	TBD	Initial release	WV TechComm
July 31, 2002	V1.1	Version 1.1	WV TechComm

## 2. REFERENCES

- [WV-PA] Wireless Village – Presence Attributes specification
- [WV-CSP-DTD] Wireless Village – Client Server Protocol, DTD and examples specification

### 3. INTRODUCTION

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

```
<PresenceSubList xmlns="http://www.wireless-village.org/PA1.1">
```

## 4. PRESENCESUBLIST

### 4.1. NAMESPACE DEFINITION

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

<!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 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 TimeZone (Qualifier?, Zone?)>
<!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?)>
<!ELEMENT DirectContent (#PCDATA)>
<!ELEMENT ReferredContent (#PCDATA)>

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

## 4.2. EXAMPLES OF PRESENCE INFORMATION

### 4.2.1 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.wireless-village.org/PA1.1">
  <OnlineStatus/>
  <Registration/>
  <ClientInfo/>
  <TimeZone/>
  <GeoLocation/>
  <Address/>
  <FreeTextLocation/>
  <PLMN/>
  <CommCap/>
  <UserAvailability/>
  <PreferredContacts/>
  <PreferredLanguage/>
  <StatusText/>
  <StatusMood/>
  <Alias/>
  <StatusContent/>
  <ContactInfo/>
</PresenceSubList>
```



### 4.2.2 OnlineStatus

```
<PresenceSubList xmlns="http://www.wireless-village.org/PA1.1">
  <OnlineStatus>
    <Qualifier>T</Qualifier>
    <PresenceValue>T</PresenceValue>
  </OnlineStatus>
</PresenceSubList>
```

### 4.2.3 Registration

```
<PresenceSubList xmlns="http://www.wireless-village.org/PA1.1">
  <Registration>
    <Qualifier>T</Qualifier>
    <PresenceValue>T</PresenceValue>
  </Registration>
</PresenceSubList>
```

### 4.2.4 ClientInfo

```
<PresenceSubList xmlns="http://www.wireless-village.org/PA1.1">
  <ClientInfo>
    <Qualifier>T</Qualifier>
    <ClientType>MOBILE PHONE</ClientType>
    <DevManufacturer>ABC Company</DevManufacturer>
    <Model>xyz200</Model>
    <Language>fin</Language>
  </ClientInfo>
</PresenceSubList>
```

### 4.2.5 TimeZone

```
<PresenceSubList xmlns="http://www.wireless-village.org/PA1.1">
  <TimeZone>
    <Qualifier>T</Qualifier>
    <Zone>+02</Zone>
  </TimeZone>
</PresenceSubList>
```

### 4.2.6 GeoLocation

```
<PresenceSubList xmlns="http://www.wireless-village.org/PA1.1">
  <GeoLocation>
    <Qualifier>T</Qualifier>
    <Longitude>35 24 15.652W</Longitude>
    <Latitude>12 36 22.5N</Latitude>
    <Accuracy>200</Accuracy>
  </GeoLocation>
</PresenceSubList>
```

### 4.2.7 Address

```
<PresenceSubList xmlns="http://www.wireless-village.org/PA1.1">
  <Address>
    <Qualifier>T</Qualifier>
    <Country>GB</Country>
  </Address>
</PresenceSubList>
```

```
<City>London</City>
</Address>
</PresenceSubList>
```

#### 4.2.8 FreeTextLocation

```
<PresenceSubList xmlns="http://www.wireless-village.org/PA1.1">
  <FreeTextLocation>
    <Qualifier>T</Qualifier>
    <PresenceValue>At home</PresenceValue>
  </FreeTextLocation>
</PresenceSubList>
```

#### 4.2.9 PLMN

```
<PresenceSubList xmlns="http://www.wireless-village.org/PA1.1">
  <PLMN>
    <Qualifier>T</Qualifier>
    <PresenceValue>Sonera</PresenceValue>
  </PLMN>
</PresenceSubList>
```

#### 4.2.10 CommCap

```
<PresenceSubList xmlns="http://www.wireless-village.org/PA1.1">
  <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>
```

#### 4.2.11 UserAvailability

```
<PresenceSubList xmlns="http://www.wireless-village.org/PA1.1">
  <UserAvailability>
    <Qualifier>T</Qualifier>
    <PresenceValue>AVAILABLE</PresenceValue>
  </UserAvailability>
```

```
</PresenceSubList>
```

#### 4.2.12 PreferredContacts

```
<PresenceSubList xmlns="http://www.wireless-village.org/PA1.1">
  <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>
```

#### 4.2.13 PreferredLanguage

```
<PresenceSubList xmlns="http://www.wireless-village.org/PA1.1">
  <PreferredLanguage>
    <Qualifier>T</Qualifier>
    <PresenceValue>fin</PresenceValue>
  </PreferredLanguage>
</PresenceSubList>
```

#### 4.2.14 StatusText

```
<PresenceSubList xmlns="http://www.wireless-village.org/PA1.1">
  <StatusText>
    <Qualifier>T</Qualifier>
    <PresenceValue>Busy editing a document</PresenceValue>
  </StatusText>
</PresenceSubList>
```

#### 4.2.15 StatusMood

```
<PresenceSubList xmlns="http://www.wireless-village.org/PA1.1">
  <StatusMood>
    <Qualifier>T</Qualifier>
    <PresenceValue>SLEEPY</PresenceValue>
  </StatusMood>
</PresenceSubList>
```

## 4.2.16 Alias

```
<PresenceSubList xmlns="http://www.wireless-village.org/PA1.1">
  <Alias>
    <Qualifier>T</Qualifier>
    <PresenceValue>ASa</PresenceValue>
  </Alias>
</PresenceSubList>
```

## 4.2.17 StatusContent

### 4.2.17.1 Referred

```
<PresenceSubList xmlns="http://www.wireless-village.org/PA1.1">
  <StatusContent>
    <Qualifier>T</Qualifier>

    <ReferredContent>http://www.foo.com/MMS/Pictures/MyLogo</ReferredCo
    ntent>
  </StatusContent>
</PresenceSubList>
```

### 4.2.17.2 Direct

```
<PresenceSubList xmlns="http://www.wireless-village.org/PA1.1">
  <StatusContent>
    <Qualifier>T</Qualifier>
    <DirectContent>BASE64EncodedDataHere</DirectContent>
  </StatusContent>
</PresenceSubList>
```

## 4.2.18 ContactInfo

### 4.2.18.1 Referred

```
<PresenceSubList xmlns="http://www.wireless-village.org/PA1.1">
  <ContactInfo>
    <Qualifier>T</Qualifier>

    <ReferredvCard>http://www.foo.com/Contacts/vCards/MyCard</Referredv
    Card>
  </ContactInfo>
</PresenceSubList>
```

### 4.2.18.2 Contained

```
<PresenceSubList xmlns="http://www.wireless-village.org/PA1.1">
  <ContactInfo>
    <Qualifier>T</Qualifier>
    <ContainedvCard>vCardDataHere</ContainedvCard>
  </ContactInfo>
</PresenceSubList>
```

### 4.3. EXTENDING THE WV DTD

In future versions of the [WV-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 [WV-PA] version where these attributes are defined.

## 5. 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.

### 5.1. EXAMPLE FOR EXTENDING ATTRIBUTES WITH NEW FIELDS

```
<PresenceSubList xmlns="http://www.wireless-village.org/PA1.1"
                 xmlns:Ext="http://www.foo.com/PAExt1.0">
  <UserAvailability>
    <Qualifier>T</Qualifier>
    <Ext:Origin>IM-application</Ext:Origin>
    <PresenceValue>AVAILABLE</PresenceValue>
  </UserAvailability>
</PresenceSubList>
```