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vCard Format extension : represent vCard extensions defined by the Open Mobile Alliance (OMA) Converged Address Book (CAB) group  
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#### Abstract

This document defines extensions to the vCard data format for representing and exchanging certain contact information. The properties covered here have been defined by the Open Mobile Alliance Converged Address Book group, in order to synchronize, using OMA Data Synchronization, important contact fields that were not already defined in the base vCard 4.0 specification.

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## 1. Introduction

Synchronization of an Open Mobile Alliance Converged Address Book (OMA-CAB), using Open Mobile Alliance Data Synchronization (OMA-DS), commonly uses vCard as an exchange format between the DS Server and the DS Client. In order to properly perform synchronization of an OMA-CAB, the CAB specification defines vCard extensions that correspond to some important CAB contact fields not already defined in the vCard base specification. This document re-uses the definitions found in the OMA-CAB specification and describes them as vCard extensions. The following sections define the necessary Properties and Parameters.

### 1.1. Terminology Used in This Document

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].

Syntax specifications shown here use the augmented Backus-Naur Form (ABNF) as described in [RFC5234], and are specified as in the base vcard specification [I-D.ietf-vcarddav-vcardrev].

## 2. vCard Extensions : Properties

The following sections define the CAB Properties.

### 2.1. Property : CONTACT-STATUS-MAIN

Namespace:

Property name: CONTACT-STATUS-MAIN

Purpose: To specify the main properties of the CAB status of the object the vCard represents.

Value type: A single structured value consisting of 3 sub-values separated by the SEMI-COLON character (ASCII decimal 59) :

1. contact-type (possible value: "CAB" if the contact is a CAB user)
2. contact-subscription-status (possible values : "active", "pending", "denied", "invalid filter", "not found", "other\_error")
3. contact-source indicating the latest source from which the contact data was obtained or updated (default value "CAB")

Cardinality: 1

Property parameters:

Description:

Format definition:

```
CONTACT-STATUS-MAIN-param = "VALUE=CONTACT-STATUS-MAIN-value"  
CONTACT-STATUS-MAIN-value = text
```

Example:

```
CONTACT-STATUS-MAIN:CAB;active;CAB
```

## 2.2. Property : CONTACT-STATUS-UPDATED

Namespace:

Property name: CONTACT-STATUS-UPDATED

Purpose: To complete the CAB status of the object the vCard represents.

Value type: A single structured value consisting of a value indicating that the contact has been updated by the CAB server, as a result of automatic updates from incoming subscription request(s) (possible values : "incoming subscription request", "contact subscription", "contact updated", "contactshare"). This field may include a CONTACT-ACK parameter.

Cardinality: \*

Property parameters:

Description:

Format definition:

```
CONTACT-STATUS-UPDATED-param = "VALUE=CONTACT-STATUS-UPDATED-  
value"  
CONTACT-STATUS-UPDATED-value = text
```

Example:

```
CONTACT-STATUS-UPDATED;ACK=true:contactshare
```

### 2.3. Property : CONTACT-STATUS-TEMPORARY

Namespace:

Property name: CONTACT-STATUS-TEMPORARY

Purpose: To complete the CAB status of the object the vCard represents.

Value type: A single structured value consisting of a value indicating that the contact is created by the CAB Server, when the contact is not in the AB of the user, and/or the contact requires interaction from CAB User (possible values : "contact subscription", "contact imported", "incoming subscription request" and "contactshare"). This field shall include a ACCEPT parameter. This field may include a CONTACT-ID-REF parameter.

Cardinality: \*1

Property parameters:

Description:

Format definition:

CONTACT-STATUS-TEMPORARY-param = "VALUE=CONTACT-STATUS-TEMPORARY-value"

CONTACT-STATUS-TEMPORARY-value = text

Example:

```
CONTACT-STATUS-TEMPORARY;CONTACT-ID-REF=150; ACCEPT=yes:
contactshare
```

### 2.4. Property : CONTACT-LANGUAGE

Namespace:

Property name: CONTACT-LANGUAGE

Purpose: To specify the language(s) that may be used for contacting the individual associated with the vCard.

Value type: A single language-tag value.

Cardinality: \*

Property parameters:

Description: This property can include the "PREF" parameter to indicate a preferred-language (possible values: from 1 to 100). This property can include "LANGUAGE-PROFICIENCY-TYPE" and/or "LANGUAGE-FLUENCY-TYPE" parameters. This property can include an "INDEX" parameter.

Format definition:

```
CONTACT-LANGUAGE-param = "VALUE=CONTACT-LANGUAGE-value" / pref-  
    param / LANGUAGE-PROFICIENCY-TYPE-param / LANGUAGE-  
    FLUENCY-TYPE-param / INDEX-param  
CONTACT-LANGUAGE-value = language-tag
```

Example:

```
CONTACT-LANGUAGE;INDEX=1;LANGUAGE-PROFICIENCY-  
TYPE=speak;LANGUAGE-FLUENCY-TYPE=fluent:en
```

## 2.5. Property : SERVICE

Namespace:

Property name: SERVICE

Purpose: To specify the aliases used on different sites by the object that the vCard refers to.

Value type: A single structured value consisting of 3 values separated by the SEMI-COLON character (ASCII decimal 59) :

1. label : indicating a free-text description of the service
2. alias : indicating the alias identifier string used for a service
3. url : indicating the URL pointing to the service resource

Cardinality: \*

Property parameters:

Description: This property can include the "INDEX" parameter

## Format definition:

```
SERVICE-param = "VALUE=SERVICE-value" / INDEX-param
SERVICE-value = text
```

## Example:

```
SERVICE;INDEX=1:facebook;Facili
Tie;http://fr-fr.facebook.com/people/Facili-Tie/100001298828793
```

## 2.6. Property : EXPERTISE

## Namespace:

Property name: EXPERTISE

Purpose: To specify the expertise(s) of the object that the vCard refers to.

Value type: A single string value.

Cardinality: \*

## Property parameters:

Description: This property can include the LEVEL parameter (possible values : "beginner", "average", "expert"). This property can include the "INDEX" parameter.

## Format definition:

```
EXPERTISE-param = "VALUE=EXPERTISE-value" / LEVEL-param / INDEX-
param
EXPERTISE-value = text
```

## Examples:

```
EXPERTISE;LEVEL=beginner;INDEX=2:chinese literature
EXPERTISE;INDEX=1;LEVEL=expert:chemistry
```

## 2.7. Property : HOBBY

## Namespace:

Property name: HOBBY

Purpose: To specify the hobbies of the object that the vCard refers to. A hobby, as opposed to an interest (see Section 2.8) is an activity that one actively engages in for entertainment, intellectual stimulation, creative expression, or the like.

- \* "Art" might be a hobby if one actively sculpts or paints.
- \* "Tennis" might be a hobby if one enjoys playing, rather than just watching matches.

Value type: A single string value.

Cardinality: \*

Property parameters:

Description: This property can include the LEVEL parameter (possible values : "high", "medium", "low"). This property can include the INDEX parameter.

Format definition:

HOBBY-param = "VALUE=HOBBY-value" / LEVEL-param / INDEX-param  
HOBBY-value = text

Examples:

HOBBY;INDEX=1;LEVEL=high:reading

HOBBY;INDEX=2;LEVEL=high:sewing

## 2.8. Property : INTEREST

Namespace:

Property name: INTEREST

Purpose: To specify the interest(s) of the object that the vCard refers to. An interest, as opposed to a hobby (see Section 2.7) is an activity or topic that one finds interesting, but doesn't necessarily actively engage in.

- \* "Art" might be an interest if one likes looking at art, but doesn't create art.
- \* "Tennis" might be an interest if one enjoys watching matches, but doesn't play.

Value type: A single string value

Cardinality: \*

Property parameters:

Description: This property can include the LEVEL parameter (possible values : "high", "medium", "low"). This property can include the INDEX parameter.

Format definition:

```
INTEREST-param = "VALUE=INTEREST-value" / LEVEL-param / INDEX-  
param  
INTEREST-value = text
```

Examples:

```
INTEREST;INDEX=1;LEVEL=medium:r&b music
```

```
INTEREST;INDEX=2;LEVEL=high:rock'n roll music
```

## 2.9. Property : PUBLICNOTE

Namespace:

Property name: PUBLICNOTE

Purpose: To specify additional information associated with the object the vCard refers to.

Value type: A single string value

Cardinality: \*

Property parameters:

Description:

Format definition:

```
PUBLICNOTE-param = "VALUE=PUBLICNOTE-value" /language-param  
PUBLICNOTE-value = text
```

Example:

```
PUBLICNOTE;LANGUAGE=en:Out of my office today
```

### 2.10. Property : ORG-DIRECTORY

Namespace:

Property name: ORG-DIRECTORY

Purpose: To specify the organization-directory of the object the vCard represents.

Value type: A single URI value.

Cardinality: \*

Property parameters:

Description: This property can include the PREF and INDEX parameters.

Format definition:

```
ORG-DIRECTORY-param = "VALUE=ORG-DIRECTORY-value" / pref-param /  
                      INDEX-param  
ORG-DIRECTORY-value= uri
```

Examples:

```
ORG-DIRECTORY;INDEX=1:http://mycompany.example1.com
```

```
ORG-DIRECTORY;PREF=1;INDEX=2:http://mycompany.example2.com
```

## 3. vCard extensions : Parameters

The following sections define Parameters used within Properties definitions.

### 3.1. Parameter : ACCEPT

Namespace:

Parameter name: ACCEPT

Purpose: Used in CONTACT-STATUS-TEMPORARY to indicate, if the user has accepted the temporary contact or not.

Description:

Format definition:

```
ACCEPT-param = "ACCEPT=" ACCEPT-value
ACCEPT-value = "yes" / "no"
```

Example:

```
CONTACT-STATUS-TEMPORARY;CONTACT-ID-REF=150; ACCEPT=yes:
contactshare
```

### 3.2. Parameter : ACK

Namespace:

Parameter name: ACK

Purpose: Used in CONTACT-STATUS-UPDATED to indicate whether the updated contact has been acknowledged or read by the CAB Client or not.

Description:

Format definition:

```
ACK-param = "ACK=" ACK-value
ACK-value = "true" / "false"
```

Example:

```
CONTACT-STATUS-UPDATED;ACK=true:contactshare
```

### 3.3. Parameter : CONTACT-ID-REF

Namespace:

Parameter name: CONTACT-ID-REF

Purpose: Used in CONTACT-STATUS-TEMPORARY to indicate, when temporary element is used, a reference to the Contact Entry to which the contact activity-status is associated with.

Description:

## Format definition:

```
CONTACT-ID-REF-param = "CONTACT-ID-REF=" CONTACT-ID-REF-value
CONTACT-ID-REF-value = integer
```

## Example:

```
CONTACT-STATUS-TEMPORARY;CONTACT-ID-REF=150; ACCEPT=yes:
contactshare
```

## 3.4. Parameter : INDEX

## Namespace:

Parameter name: INDEX

Purpose: Used to indicate the range of each value when a parameter can take several values. possible values : token.

## Description:

## Format definition:

```
INDEX-param = "INDEX=" INDEX-value
INDEX-value = integer
```

## Examples:

```
ORG-DIRECTORY;INDEX=1:http://mycompany.example1.com
```

```
ORG-DIRECTORY;PREF=1;INDEX=2:http://mycompany.example2.com
```

## 3.5. Parameter : LANGUAGE-PROFICIENCY-TYPE

## Namespace:

Parameter name: LANGUAGE-PROFICIENCY-TYPE

Purpose: Used to indicate which degree of proficiency the object the vCard represents attained in the corresponding language. possible values : "read only", "speak", "read/write".

## Description:

## Format definition:

```
LANGUAGE-PROFICIENCY-TYPE-param = "LANGUAGE-PROFICIENCY-TYPE="
    LANGUAGE-PROFICIENCY-TYPE-value
LANGUAGE-PROFICIENCY-TYPE-value = "read only" / "speak" / "read/
    write"
```

Example:

```
CONTACT-LANGUAGE;LANGUAGE-PROFICIENCY-TYPE=speak:en
```

### 3.6. Parameter : LANGUAGE-FLUENCY-TYPE

Namespace:

Parameter name: LANGUAGE-FLUENCY-TYPE

Purpose: Used to indicate which degree of fluency the object the vCard represents attained in the corresponding language.

Possible values : "beginner", "average", "fluent".

Description:

Format definition:

```
LANGUAGE-FLUENCY-TYPE-param = "LANGUAGE-FLUENCY-TYPE=" LANGUAGE-
    FLUENCY-TYPE-value
LANGUAGE-FLUENCY-TYPE-value = "beginner" / "average" / "fluent"
```

Example:

```
CONTACT-LANGUAGE;LANGUAGE-FLUENCY-TYPE=fluent:en
```

### 3.7. Parameter : LEVEL

Namespace:

Parameter name: LEVEL

Purpose: Used to indicate a level of expertise, hobby or interest attained by the object the vCard represents.

Possible values:

- \* "beginner", "average", "expert" when used with EXPERTISE
- \* "high", "medium", "low" when used with HOBBY or INTEREST

Description:

Format definition:

```
LEVEL-param = "LEVEL=" LEVEL-value
LEVEL-value = "beginner" / "average" / "expert" / "high" /
              "medium" / "low"
```

Examples:

```
EXPERTISE;LEVEL=beginner:chinese literature
```

```
HOBBY;LEVEL=high:reading
```

```
INTEREST;LEVEL=medium:r&b music
```

#### 4. Security Considerations

This presents no security considerations beyond those in section 9 of the base vcard specification [I-D.ietf-vcarddav-vcardrev].

#### 5. IANA Considerations

IANA is requested to add the following entries to the vCard Properties registry, defined in [I-D.ietf-vcarddav-vcardrev] section 10.3.1.

Name space	Property	Status	Reference
	CONTACT-STATUS-MAIN	Current	RFCXXXX, sec 2.1
	CONTACT-STATUS-UPDATED	Current	RFCXXXX, sec 2.2
	CONTACT-STATUS-TEMPORARY	Current	RFCXXXX, sec 2.3
	CONTACT-LANGUAGE	Current	RFCXXXX, sec 2.4
	SERVICE	Current	RFCXXXX, sec 2.5
	EXPERTISE	Current	RFCXXXX, sec 2.6
	HOBBY	Current	RFCXXXX, sec 2.7
	INTEREST	Current	RFCXXXX, sec 2.8
	PUBLICNOTE	Current	RFCXXXX, sec 2.9
	ORG-DIRECTORY	Current	RFCXXXX, sec 2.10

IANA is requested to add the following entries to the vCard Parameters registry, defined in [I-D.ietf-vcarddav-vcardrev] section 10.3.2.

Name space	Parameter	Status	Reference
	ACCEPT	Current	RFCXXXX, sec 3.1
	ACK	Current	RFCXXXX, sec 3.1
	CONTACT-ID-REF	Current	RFCXXXX, sec 3.1
	INDEX	Current	RFCXXXX, sec 3.2
	LANGUAGE-PROFICIENCY-TYPE	Current	RFCXXXX, sec 3.3
	LANGUAGE-FLUENCY-TYPE	Current	RFCXXXX, sec 3.4
	LEVEL	Current	RFCXXXX, sec 3.5

## 6. Acknowledgments

TBD

## 7. Normative References

- [I-D.ietf-vcarddav-vcardrev]  
Perreault, S. and P. Resnick, "vCard Format Specification", draft-ietf-vcarddav-vcardrev-15 (work in progress), December 2010.
- [RFC2119] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", BCP 14, RFC 2119, March 1997.
- [RFC5234] Crocker, D. and P. Overell, "Augmented BNF for Syntax Specifications: ABNF", STD 68, RFC 5234, January 2008.

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