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.

Status of this Memo

This Internet-Draft is submitted in full conformance with the provisions of BCP 78 and BCP 79.

Internet-Drafts are working documents of the Internet Engineering Task Force (IETF). Note that other groups may also distribute working documents as Internet-Drafts. The list of current Internet-Drafts is at http://datatracker.ietf.org/drafts/current/.

Internet-Drafts are draft documents valid for a maximum of six months and may be updated, replaced, or obsoleted by other documents at any time. It is inappropriate to use Internet-Drafts as reference material or to cite them other than as "work in progress."

This Internet-Draft will expire on August 21, 2011.

Copyright Notice

Copyright (c) 2011 IETF Trust and the persons identified as the document authors. All rights reserved.

This document is subject to BCP 78 and the IETF Trust's Legal Provisions Relating to IETF Documents (http://trustee.ietf.org/license-info) in effect on the date of publication of this document. Please review these documents carefully, as they describe your rights and restrictions with respect
to this document. Code Components extracted from this document must include Simplified BSD License text as described in Section 4.e of the Trust Legal Provisions and are provided without warranty as described in the Simplified BSD License.

Table of Contents

1. Introduction ................................................. 3
   1.1. Terminology Used in This Document ................. 3

2. vCard Extensions: Properties ................................. 3
   2.1. Property: CONTACT-STATUS-MAIN .................. 3
   2.2. Property: CONTACT-STATUS-UPDATED .............. 4
   2.3. Property: CONTACT-STATUS-TEMPORARY .......... 5
   2.4. Property: CONTACT-LANGUAGE .................... 5
   2.5. Property: SERVICE .................................. 6
   2.6. Property: EXPERTISE ............................... 7
   2.7. Property: HOBBY .................................... 7
   2.8. Property: INTEREST ................................. 8
   2.9. Property: PUBLICNOTE .............................. 9
   2.10. Property: ORG-DIRECTORY ......................... 10

3. vCard extensions: Parameters ............................... 10
   3.1. Parameter: ACCEPT .................................. 10
   3.2. Parameter: ACK ..................................... 11
   3.3. Parameter: CONTACT-ID-REF ...................... 11
   3.4. Parameter: INDEX .................................. 12
   3.5. Parameter: LANGUAGE-PROFICIENCY-TYPE .......... 12
   3.6. Parameter: LANGUAGE-FLUENCY-TYPE ............. 13
   3.7. Parameter: LEVEL .................................. 13

4. Security Considerations ................................. 14

5. IANA Considerations ...................................... 14

6. Acknowledgments ........................................ 15

7. Normative References ................................... 15

Authors' Addresses ........................................ 15
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:

\[
\text{HOBBY-param} = \text{VALUE=}\text{HOBBY-value} / \text{LEVEL-param} / \text{INDEX-param}
\]

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.
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:

\[
\text{LEVEL-param} = \ "\text{LEVEL=LEVEL-value}\"
\]

\[
\text{LEVEL-value} = \ "\text{beginner" / "average" / "expert" / "high" /}
\text{"medium" / "low}\"
\]

Examples:

- \text{EXPERTISE;LEVEL=beginner:chinese literature}
- \text{HOBBY;LEVEL=high:reading}
- \text{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            | Property       | Status  | Reference         |
| space           | 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.
6. Acknowledgments

TBD

7. Normative References


Authors' Addresses

Dany Cauchie
France Telecom - Orange
2 Avenue Pierre Marzin
Lannion  22307
France

Phone: +33 2 96 05 31 16
Email: dany.cauchie@orange-ftgroup.com
Barry Leiba
Huawei Technologies

Phone: +1 646 827 0648
Email: barryleiba@computer.org
URI: http://internetmessagingtechnology.org/

Kepeng Li
Huawei Technologies

Phone: +86 755 28974289
Email: likepeng@huawei.com