

vcarddav
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vCard Format extension : represent vCard extensions defined by the Open
Mobile Alliance (OMA) Converged Address Book (CAB) group
draft-cauchie-vcarddav-oma-cab-extensions-00

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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vCard Format Extension : To Represent the Social Network Information of
an Individual
draft-george-vcarddav-vcard-extension-03

Abstract

This document defines an extension to the vCard data format for representing and exchanging a variety of social network information.

Status of this Memo

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

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1. Introduction

As social networking has become common, it has become clear that users would like to include information in their vCards [I-D.ietf-vcarddav-vcardrev] about their social networks. Well organized social network information allows the vCard owner to share his profile information and to import or subscribe to profile information of others on joining a new network.

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. Social Network Properties

These properties are related to sharing social-network information. The basis for these properties came from the "Friend of a Friend" (FOAF) specification, <http://xmlns.com/foaf/spec/>, and we should consider other aspects of that specification.

[[anchor1: *** Do we want to align directly with FoaF items? Are there more FoaF items we want to include, even if we're not aligning completely? *** Barry]]

2.1. Property: OPENID

[[anchor2: *** Maybe this should be something like "authentication;type=openid:" instead? That would allow for other authentication types. *** Barry]]

Namespace:

Property name: OPENID

Purpose: OpenID is an open, decentralized user identification standard, allowing users to log onto many services with the same digital identity. Inclusion of an OpenID URI in a vCard lets others add the vCard owner's ID to their authorization lists.

Value type: A single URI value.

Cardinality: *

Property parameters: (none)

Description:

Format definition:

```
OPENID-param = pid-param / pref-param /  
               any-param  
OPENID-value = uri
```

Example:

```
OPENID:http://www.alice.openid.example.org
```

2.2. Property: SOCIALPROFILE

Namespace:

Property name: SOCIALPROFILE

Purpose: Designates the vCard owner's profile page on a particular social network.

Value type: A single URI value.

Cardinality: *

Property parameters: TYPE

Description: This property SHOULD include the parameter "TYPE" to specify the name of the social network that it refers to. Usually, that will also be discernible from the URI, which is why it's optional. But it can be helpful to have it specified explicitly.

Format definition:

```
SOCIALPROFILE-param = pid-param / pref-param /  
                     any-param  
SOCIALPROFILE-value = uri
```

Examples:

```
SOCIALPROFILE;type=linkedin:http://www.linkedin.com/in/barryleiba
```

```
SOCIALPROFILE;type=facebook:http://www.facebook.com/barackobama
```

2.3. Property: ALBUM

Namespace:

Property name: ALBUM

Purpose: Designates an online album, such as a photo album or video album.

Value type: A single URI value.

Cardinality: *

Property parameters: TYPE

Description: This property SHOULD include the parameter "TYPE" to specify the type of album that it refers to. Usually, that will also be discernible from the URI, which is why it's optional. But it can be helpful to have it specified explicitly.

Format definition:

```
ALBUM-param = pid-param / pref-param /  
              any-param  
ALBUM-value = uri
```

Example:

```
ALBUM;type=photo:http://picasaweb.google.com/barryleiba  
ALBUM;type=video:http://www.youtube.com/user/barryleiba
```

2.4. Property: DEPICTION

```
[[anchor3: *** What's the difference between this and "photo", from  
the base spec? This is in FoaF, but do we really need it here? Any  
comments from folks who are well versed in FoaF? I get the sense  
that this is meant to be different, but I'm not sure how. ***  
(Barry)]]
```

Namespace:

Property name: DEPICTION

Purpose: A depiction of something.

Value type: A single value. The default is binary value. It can also be reset to uri value.

Cardinality: *

Property parameters: VALUE

Description: A common use of depiction is to indicate the contents of a digital image, for example the people or objects represented in an online photo gallery.

The basic notion of 'depiction' could also be extended to deal with multimedia content (video clips, audio),

Format definition:

```
DEPICTION-param = pid-param / pref-param /  
                  any-param  
DEPICTION-value = text
```

Example:

```
DEPICTION;value=uri:http://www.example.com/pub/photos/jqpublic.gif
```

2.5. Property: SOCIALCODE

Namespace:

Property name: SOCIALCODE

Purpose: Description of the vCard owner, in the form of a "social code", such as the "geek code" (see http://en.wikipedia.org/wiki/Geek_code). Social codes are popularly used to exchange a large amount of social information in a compact way, and provide a somewhat frivolous and willfully obscure "fun" mechanism for characterizing technical expertise, interests, and habits.

Value type: A single text value.

Cardinality: *

Property parameters: TYPE

Description: This property MUST include the parameter "TYPE" to specify the type of social network code being used. There are no predefined values for "TYPE", here -- the types will be understood (or not) by the vCard users.

If the code contains characters that have to be quoted, such as COLON, SEMICOLON, or COMMA, the value MUST be enclosed in quotes.

Format definition:

```
SOCIALCODE-param = pid-param / pref-param /  
                  any-param  
SOCIALCODE-value = text
```

Example:

```
SOCIALCODE;type=geek:"s: a--"
```

[Which means "I'm average size, and my age is 20-24."]

2.6. Property: INTEREST

Namespace:

Property name: INTEREST

Purpose: Lists the vCard owner's interests (social, recreational, technical, etc.). This allows users to identify others with common interests.

Value type: A string value consisting of one or more text values separated by a COMMA character (ASCII decimal 44).

Cardinality: *

Property parameters: TYPE, LANGUAGE

Description: This property MAY include the parameter "TYPE" to group interests in categories. TYPE might be used to separate "business" interests from "social" interests, for example. There are no predefined values for "TYPE", here -- the types will be understood (or not) by the vCard users, and it's likely that an ad hoc taxonomy will develop, as has happened with social tagging.

Format definition:

```
INTEREST-param = pid-param / pref-param /  
                any-param  
INTEREST-value = text
```


Example:

```
INTEREST;type=business:Internet standards,consulting,job offers
INTEREST;type=social:friends and family,new friends
INTEREST;type=hobby:model trains,reading Sci Fi,travel
INTEREST;type=music:classical,jazz,folk,opera
```

2.7. Property: XX

[[anchor4: Template for adding another property, because we expect to add more properties here. Remove this section before publishing.]]
(This will also hold some references for the time being: [RFC2425] [RFC2426] [RFC2739] [RFC4770])

Namespace:

Property name:

Purpose:

Value type: A single text value.

Cardinality: *

Property parameters: VALUE, LANGUAGE

Description:

Format definition:

```
XX-param = pid-param / pref-param /
           any-param
XX-value = text
```

Example:

```
xx:zz
```

3. Security Considerations

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

[[anchor5: *** I'm quite sure there's more to say here, and that there are some real security (and privacy) considerations, so this is just a placeholder. We need to think about this seriously before we're done. *** (Barry)]]

4. IANA Considerations

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

Namespace	Property	Status	Reference
	OPENID	Current	RFCXXXX, section 2.1
	SOCIALPROFILE	Current	RFCXXXX, section 2.2
	ALBUM	Current	RFCXXXX, section 2.3
	DEPICTION	Current	RFCXXXX, section 2.4
	SOCIALCODE	Current	RFCXXXX, section 2.5
	INTEREST	Current	RFCXXXX, section 2.6

5. References

5.1. 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.

5.2. Informative References

- [RFC2425] Howes, T., Smith, M., and F. Dawson, "A MIME Content-Type for Directory Information", RFC 2425, September 1998.
- [RFC2426] Dawson, F. and T. Howes, "vCard MIME Directory Profile", RFC 2426, September 1998.
- [RFC2739] Small, T., Hennessey, D., and F. Dawson, "Calendar Attributes for vCard and LDAP", RFC 2739, January 2000.
- [RFC4770] Jennings, C. and J. Reschke, Ed., "vCard Extensions for Instant Messaging (IM)", RFC 4770, January 2007.

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vCard Format Extensions : date of death; places of birth and death
draft-li-vcarddav-vcard-id-property-extensions-01

Abstract

This document defines an extension to the vCard data format for representing and exchanging information about the date of death, the place of birth, and the place of death of the object the vCard represents.

Note

Discussion and suggestions for improvement are requested, and should be sent to vcarddav@ietf.org.

Status of this Memo

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1. Introduction

This specification adds three new properties to vCard 4.0, to specify the date of death, the place of birth, and the place of death of the object the vCard represents.

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. Identification Property Extensions

2.1. Property: DEATHDAY

Namespace:

Property name: DEATHDAY

Purpose: To specify the date of death of the object the vCard represents.

Value type: The default is a single date-and-or-time value. It can also be reset to a single text value.

Cardinality: *1

Property parameters: VALUE, CALSCALE, LANGUAGE

CALSCALE can only be present when the value is a date-and-or-time value and actually contains a date or date-time.
LANGUAGE can only be present when the value is text.

Description:

Format definition:

```
DEATHDAY-param = DEATHDAY-param-date / DEATHDAY-param-text
DEATHDAY-value = date-and-or-time / text
; Value and parameter MUST match.
```

```
DEATHDAY-param-date = "VALUE=date-and-or-time"  
DEATHDAY-param-text = "VALUE=text" / language-param  
  
DEATHDAY-param =/ altid-param / calscale-param / any-param  
; calscale-param can only be present when DEATHDAY-value is  
; date-and-or-time and actually contains a date or date-time.
```

Examples:

```
DEATHDAY:19960415  
DEATHDAY:--0415  
DEATHDAY;19531015T231000Z  
DEATHDAY;VALUE=text:circa 1800
```

2.2. Property: BIRTHPLACE

Namespace:

Property name: BIRTHPLACE

Purpose: To specify the place of birth of the object the vCard represents.

Value type: A single text value (default) or a single URI value.

Cardinality: *1

Property parameters: VALUE, LANGUAGE

Description:

Format definition:

```
BIRTHPLACE-param = "VALUE=" / ("text" / "uri")  
BIRTHPLACE-value = text / uri  
; Value and parameter MUST match.
```

```
BIRTHPLACE-param =/ altid-param / language-param / any-param
```

Examples:

```
BIRTHPLACE:Babies'R'Us Hospital  
BIRTHPLACE;VALUE=uri:http://example.com/hospitals/babiesrus.vcf  
BIRTHPLACE;VALUE=uri:geo:46.769307,-71.283079
```

2.3. Property: DEATHPLACE

