XEP-0164: vCard Filtering

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This document specifies a mechanism for requesting specific sections of a vCard.

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1 Introduction

Because XML vCards (see vcard-temp (XEP-0054) [1]) are now actively used for storing avatars (see vCard-Based Avatars (XEP-0153) [2]), the ability to retrieve only portions of a vCard has become desirable. This protocol can eliminate unnecessary bandwidth usage when larger elements of a vCard are not needed.

2 Requirements

Any entity supporting this extension MUST be prepared to accept more fields than were requested, in case the target does not support this extension. A compliant target SHOULD exclude any fields listed in the filter element. In the event that the filter element does not exist or is empty, the target MUST return the entire vCard as it would without this extension.

3 Use Cases

3.1 Retrieving Another User's vCard Without The JABBERID Element

To illustrate the functionality of this protocol, we will first request a standard vCard. As shown in vcard-temp (XEP-0054) [3], a user may view another user's vCard by sending an IQ of type "get" to the other user's bare JID. A compliant server MUST return the vCard to the requestor and not forward the IQ to the requestee's connected resource.

Listing 1: Requesting Another User's vCard

```
<iq to='jer@jabber.org'
    from='stpeter@jabber.org/home'
    type='get'
    id='v1'>
  <vCard xmlns='vcard-temp'/>
</iq>
```

The server should then return the other user's vCard to the requestor:

Listing 2: Receiving Another User's vCard

```
<iq from='jer@jabber.org'
    to='stpeter@jabber.org/home'
    type='result'
    id='v1'>
```

[1] XEP-0054: vcard-temp <https://xmpp.org/extensions/xep-0054.html>.
[2] XEP-0153: vCard-Based Avatars <https://xmpp.org/extensions/xep-0153.html>.
[3] XEP-0054: vcard-temp <https://xmpp.org/extensions/xep-0054.html>.

```
  <vCard xmlns='vcard-temp'>
    <FN>Jeremie Miller</FN>
    <N>
      <GIVEN>Jeremie</GIVEN>
      <FAMILY>Miller</FAMILY>
      <MIDDLE/>
    </N>
    <NICKNAME>jer</NICKNAME>
    <EMAIL><INTERNET/><PREF/><USERID>jeremie@jabber.org</USERID></
       EMAIL>
    <JABBERID>jer@jabber.org</JABBERID>
  </vCard>
</iq>
```

A user may request that specific portions of another user's vCard be excluded by including the requested field(s) inside a filter element qualified by the 'vcard-temp-filter' namespace, inside the vCard element.

Listing 3: Requesting Another User's vCard Without the JABBERID Element

```
<iq to='jer@jabber.org'
    from='stpeter@jabber.org/home'
    type='get'
    id='v2'>
  <vCard xmlns='vcard-temp'>
    <filter xmlns='vcard-temp-filter'>
      <JABBERID/>
    </filter>
  </vCard>
</iq>
```

The server should then return all available fields from the other user's vCard except for those listed in the filter stanza:

Listing 4: Receiving Fields From Another User's vCard

```
<iq from='jer@jabber.org'
    to='stpeter@jabber.org/home'
    type='result'
    id='v2'>
  <vCard xmlns='vcard-temp'>
    <FN>JeremieMiller</FN>
    <N>
      <GIVEN>Jeremie</GIVEN>
      <FAMILY>Miller</FAMILY>
      <MIDDLE/>
    </N>
    <NICKNAME>jer</NICKNAME>
```

```
    <EMAIL><INTERNET/><PREF/><USERID>jeremie@jabber.org</USERID></
       EMAIL>
  </vCard>
</iq>
```

4 Security Considerations

This document introduces no new security concerns beyond those already involved in implementation and deployment of the 'vcard-temp' protocol.

5 IANA Considerations

This document requires no interaction with the Internet Assigned Numbers Authority (IANA) [4].

6 XMPP Registrar Considerations

The XMPP Registrar [5] shall add 'vcard-temp-filter' to its registry of official namespaces.

7 XML Schema

The schema for the 'vcard-temp-filter' namespace re-uses the element names from the DTD described in vcard-temp (XEP-0054) [6].

```
<?xml version='1.0' encoding='UTF-8'?>

<xs:schema
    xmlns:xs='http://www.w3.org/2001/XMLSchema'
    targetNamespace='vcard-temp-filter'
    xmlns='vcard-temp-filter'
    elementFormDefault='qualified'>

  <xs:element name='filter'>
```

[4] The Internet Assigned Numbers Authority (IANA) is the central coordinator for the assignment of unique parameter values for Internet protocols, such as port numbers and URI schemes. For further information, see <http://www.iana.org/>.

[5] The XMPP Registrar maintains a list of reserved protocol namespaces as well as registries of parameters used in the context of XMPP extension protocols approved by the XMPP Standards Foundation. For further information, see <https://xmpp.org/registrar/>.

[6] XEP-0054: vcard-temp <https://xmpp.org/extensions/xep-0054.html>.

```
    <xs:complexType>
      <xs:sequence>
        <xs:element name='VERSION' type='empty'/>
        <xs:element name='FN' type='empty'/>
        <xs:element name='N' type='empty'/>
        <xs:element name='NICKNAME' type='empty'/>
        <xs:element name='PHOTO' type='empty'/>
        <xs:element name='BDAY' type='empty'/>
        <xs:element name='ADR' type='empty'/>
        <xs:element name='LABEL' type='empty'/>
        <xs:element name='TEL' type='empty'/>
        <xs:element name='EMAIL' type='empty'/>
        <xs:element name='JABBERID' type='empty'/>
        <xs:element name='MAILER' type='empty'/>
        <xs:element name='TZ' type='empty'/>
        <xs:element name='GEO' type='empty'/>
        <xs:element name='TITLE' type='empty'/>
        <xs:element name='ROLE' type='empty'/>
        <xs:element name='LOGO' type='empty'/>
        <xs:element name='AGENT' type='empty'/>
        <xs:element name='ORG' type='empty'/>
        <xs:element name='CATEGORIES' type='empty'/>
        <xs:element name='NOTE' type='empty'/>
        <xs:element name='PRODID' type='empty'/>
        <xs:element name='REV' type='empty'/>
        <xs:element name='SORT-STRING' type='empty'/>
        <xs:element name='SOUND' type='empty'/>
        <xs:element name='UID' type='empty'/>
        <xs:element name='URL' type='empty'/>
        <xs:element name='CLASS' type='empty'/>
        <xs:element name='KEY' type='empty'/>
        <xs:element name='DESC' type='empty'/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>

  <xs:simpleType name='empty'>
    <xs:restriction base='xs:string'>
      <xs:enumeration value=''/>
    </xs:restriction>
  </xs:simpleType>

</xs:schema>
```