



# XMPP

## XEP-0125: vCard Infobits Mapping

Peter Saint-Andre  
<mailto:stpeter@stpeter.im>  
<xmpp:stpeter@jabber.org>  
<https://stpeter.im/>

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## 1 Introduction

**Infobits (XEP-0120)** <sup>1</sup> defines a protocol for capturing granular information (or "infobits") about users, servers, services, rooms, nodes, commands, files, and other phenomena on the Jabber/XMPP network; however, that document defines the protocol only, not the infobits themselves. This document specifies how to encapsulate one sort of metadata in infobits: the metadata elements about entities defined by **RFC 2426** <sup>2</sup> (supplemented by vCard-like metadata that is not defined in RFC 2426), thus enabling the Jabber community to supersede **vcard-temp (XEP-0054)** <sup>3</sup>. Note well that this document is decidedly *not* meant to provide an exhaustive catalog of possible infobits. Future registrations, whether in XMPP Extension Protocol specifications or direct submissions to the **XMPP Registrar** <sup>4</sup>, will specify additional infobits.

## 2 vCard Mapping

In order to supersede the vCard-XML protocol currently in use within the Jabber community, it is necessary to define infobits that correspond to the data elements defined by the vCard-XML DTD (more precisely, the vCard Profile Features specified in section 3 of RFC 2426). These are shown in the following table. (Note: this mapping uses the vCard entity names specified in **draft-dawson-vcard-xml-dtd-03** <sup>5</sup>, not those specified in XEP-0054.)

Infobit Key	vCard Element	Comments
birthdate	bday (partial)	Date of birth (DD); prepend with birthyear and birthmonth (with "-" separators) to create vCard bday content
birthmonth	bday (partial)	Month of birth (MM); prepend with birthyear and append with birthdate (with "-" separators) to create vCard bday content

<sup>1</sup>XEP-0120: Infobits <<https://xmpp.org/extensions/xep-0120.html>>.

<sup>2</sup>RFC 2426: vCard MIME Directory Profile <<http://tools.ietf.org/html/rfc2426>>.

<sup>3</sup>XEP-0054: vcard-temp <<https://xmpp.org/extensions/xep-0054.html>>.

<sup>4</sup>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/>>.

<sup>5</sup>draft-dawson-vcard-xml-dtd-03 <<http://www.watersprings.org/pub/id/draft-dawson-vcard-xml-dtd-03.txt>>. Work in progress.

Infobit Key	vCard Element	Comments
birthyear	bday (partial)	Year of birth (YYYY); append with birthmonth and birthdate (with "-" separators) to create vCard bday content; the vCard "bday" element is separated into three infobits so that users can abstain from providing a birthyear
cellphone	tel + cell	A cellphone (mobile phone) number; if more than one cellphone number is specified, this infobit keyname should be appended with one of the following modifiers: home, work
city	city	If more than one address is specified (e.g., work and home), this infobit keyname may be appended with any of the following address modifiers: home, work, postal, parcel (e.g., city.home)
country	country	If more than one address is specified (e.g., work and home), this infobit keyname may be appended with any of the following address modifiers: home, work, postal, parcel (e.g., country.home)
email	email	If more than one email address is specified, this infobit name should be appended with one of the following address modifiers: home, work
extadd	extadd	Extended address; if more than one address is specified (e.g., work and home), this infobit keyname may be appended with any of the following address modifiers: home, work, postal, parcel (e.g., extadd.home)
family	family	A family name or surname; in some cultures, known as a "last name"
fax	tel + fax	A fax number; if more than one fax number is specified, this infobit keyname should be appended with one of the following modifiers: home, work
fn	fn	A full name
given	given	A given name; in some cultures, known as a "first name"

Infobit Key	vCard Element	Comments
key	key	This SHOULD be a URL to or identifier for a public key, but MAY be the key information itself
lat	lat	Latitude in decimal degrees North
logo	logo	This MUST be a URL to a logo; recipients should be prepared to parse the URL in order to retrieve and then decode the binary information
lon	lon	Longitude in decimal degrees East
middle	middle	A person's middle name or initial
nickname	nickname	A person's preferred nickname or less formal name
orgnam	orgnam	A name for an organization
orgunit	orgunit	A name for an organizational unit
pager	tel + pager	A pager number; if more than one pager number is specified, this infobit keyname should be appended with one of the following modifiers: home, work
pcode	pcode	A postal code; if more than one address is specified (e.g., work and home), this infobit name may be appended with any of the following address modifiers: home, work, postal, parcel
phone	tel + voice	A voice phone number; if more than one voice phone number is specified, this infobit keyname should be appended with one of the following modifiers: home, work
photo	photo + extval	This MUST be a URL to a photo; recipients should be prepared to parse the URL in order to retrieve and then decode the binary information
prefix	prefix	A prefix to a name (e.g., "Dr.")
region	region	If more than one address is specified, this infobit keyname may be appended with any of the following address modifiers: home, work, postal, parcel (e.g., region.home)
role	role	A person's role within an organization

Infobit Key	vCard Element	Comments
sound	sound + extval	This MUST be a URL to a sound file; recipients should be prepared to parse the URL in order to retrieve and then decode the binary information
street	street	Street number and name; if more than one address is specified, this infobit keyname may be appended with any of the following address modifiers: home, work, postal, parcel (e.g., street.home)
suffix	suffix	A suffix to a name (e.g., "Esq.")
title	title	This is a job title, and is not to be confused with the Dublin Core Metadata Initiative (DCMI) The Dublin Core Metadata Initiative (DCMI) is an organization dedicated to promoting the widespread adoption of interoperable metadata standards. For further information, see < <a href="http://www.dublincore.org/">http://www.dublincore.org/</a> >. "title" metadata term
vmail	tel + msg	A voicemail (message) number; if more than one voicemail number is specified, this infobit keyname should be appended with one of the following modifiers: home, work
website	url	URL for any website

### 3 Supplementing vCard

The vCard specification does not include the following infobits because either (1) it is not that granular or (2) they represent entities or properties that did not exist when the vCard format was defined.

Infobit	Comments
alt	Altitude in meters above sea level
area	An area within a locality; if more than one address is specified, this infobit keyname may be appended with any of the following address modifiers: home, work, postal, parcel (e.g., area.home)

Infobit	Comments
building	The name of a specific building; if more than one address is specified, this infobit keyname may be appended with any of the following address modifiers: home, work, postal, parcel (e.g., building.home)
expertise	A self-defined area of expertise (no guarantees provided)
floor	The floor of a building; if more than one address is specified, this infobit keyname may be appended with any of the following address modifiers: home, work, postal, parcel (e.g., floor.home)
gender	The self-defined gender of a user (this is not limited to "male" and "female", although those are the expected values in most instances)
interest	A self-defined area of interest
jid	An entity's Jabber Identifier
orgurl	URL for organization's website
room	A specific room; if more than one address is specified, this infobit keyname may be appended with any of the following address modifiers: home, work, postal, parcel (e.g., room.home)
weblog	URL for weblog

## 4 Security Considerations

This document introduces no security considerations above and beyond those already defined in XEP-0120.

## 5 IANA Considerations

This document requires no interaction with the [Internet Assigned Numbers Authority \(IANA\)](#)<sup>6</sup>.

## 6 XMPP Registrar Considerations

The following is a submission to the infobits registry called for by XEP-0120.

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<sup>6</sup>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/>.



## **6.1 vCard Mapping Infobits**

To follow.

## **6.2 vCard Supplement Infobits**

To follow.