

Network Working Group  
Internet-Draft  
Intended status: Informational  
Expires: October 14, 2019

S. Hollenbeck  
Verisign Labs  
R. Carney  
GoDaddy Inc.  
April 12, 2019

**vCard Format Extensions: Internet Corporation for Assigned Names and  
Numbers (ICANN) Extensions for the Registration Data Access Protocol  
(RDAP)**

[draft-hollenbeck-vcarddav-icann-rdap-extensions-01](#)

**Abstract**

This document defines extensions to the vCard data format for representing and exchanging contact information used to implement the Internet Corporation for Assigned Names and Numbers (ICANN) operational profile for the Registration Data Access Protocol (RDAP). The property and parameter defined here are used to add values to RDAP responses that are consistent with ICANN policies.

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## [1.](#) Introduction

The Temporary Specification for gTLD Registration Data [[1](#)] was published by the Internet Corporation for Assigned Names and Numbers (ICANN) in 2018. The Temporary Specification includes requirements that cannot currently be met by the Registration Data Access Protocol (RDAP, [[RFC7483](#)]) without extending the underlying vCard [[RFC6350](#)] specification used to represent RDAP entity objects. This document includes specifications for an additional vCard property and an additional vCard parameter to meet the requirements of the Temporary Specification.

### [1.1.](#) Terminology Used in This Document

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "NOT RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in [BCP 14](#) [[RFC2119](#)] [[RFC8174](#)] when, and only when, they appear in all capitals, as shown here.

Syntax specifications shown here use the augmented Backus-Naur Form (ABNF) as described in [[RFC5234](#)], and are specified as in the base vCard specification [[RFC6350](#)].



## **2. vCard Extensions: Properties**

This document describes one new vCard extension property.

### **2.1. Property: CONTACT-URI**

Namespace:

Property name: CONTACT-URI

Purpose: RDAP entity information can be redacted under certain circumstances (e.g., privacy). The Temporary Specification requires that RDAP entity objects representing "Registrant", "Admin", and "Tech" contacts contain an email address or a location for a web form to facilitate email communication with the relevant contact in a way that does not identify the associated individual. The CONTACT-URI property can be used to include URIs representing an email address or a location for a web form.

Value type: A single URI value.

Cardinality: \*

Property parameters: PREF

Description: At least one "mailto", "http", or "https" URI value MUST be provided. Additional CONTACT-URI properties MAY be provided to describe other contact methods. If multiple CONTACT-URI properties are used, the vCard PREF parameter MUST be used to describe the most preferred property as described in [Section 5.3 of RFC 6350](#) [[RFC6350](#)].

Format definition:

CONTACT-URI-param = "VALUE=uri" / pref-param ; pref-param from [[RFC6350](#)]

CONTACT-URI-value = uri ; uri from [[RFC3986](#)]

Examples:

CONTACT-URI:https://contact.example.com

CONTACT-URI;PREF=1:mailto:contact@example.com

## **3. vCard Extensions: Parameters**

This document describes one new vCard extension parameter.



### **3.1. Parameter: CC**

Namespace:

Parameter name: CC

Purpose: ICANN requires the use of ISO 3166 [[ISO.3166.1988](#)] two-letter codes, not "country names", in RDAP entity responses. This parameter is used to extend the ADR property described in [Section 6.3.1 of RFC 6350](#) [[RFC6350](#)].

Description: This parameter contains the ISO 3166 [[ISO.3166.1988](#)] 2-character country code associated with the "country name" ADR component described in [Section 6.3.1 of RFC 6350](#) [[RFC6350](#)].

Format definition:

CC-param = "CC=" 2ALPHA

Examples:

ADR;TYPE=work;CC=US;;;54321 Oak St;Reston;VA;20190;USA

ADR;TYPE=home;CC=US;;;12345 Elm St;Reston;VA;20190;USA

## **4. IANA Considerations**

IANA is requested to add the following entry to the vCard Properties registry defined in [Section 10.3.1 of RFC 6350](#) [[RFC6350](#)].

Namespace:

Property: CONTACT-URI

Reference: RFCXXXX (this RFC), [Section 2.1](#)

IANA is requested to add the following entry to the vCard Parameters registry defined in [Section 10.3.2 of RFC 6350](#) [[RFC6350](#)].

Namespace:

Property: CC

Reference: RFCXXXX (this RFC), [Section 3.1](#)



## **5. Security Considerations**

The CONTACT-URI value is purposefully intended to be a publicly visible contact reference, and as such, it cannot require confidentiality protection. There are, however, privacy implications in the choice of a URI scheme for the web form contact method. An "https" URI value can be used to indicate support for confidentiality protection for connections to the server that publishes the web form. This document presents no other security considerations beyond those described in [Section 9](#) of the base vCard specification [[RFC6350](#)].

## **6. Acknowledgements**

The author would like to acknowledge the following individuals for their contributions to the development of this document: Rick Wilhelm.

## **7. References**

### **7.1. Normative References**

- [ISO.3166.1988]  
International Organization for Standardization, "Codes for the representation of names of countries, 3rd edition", ISO Standard 3166, August 1988.
- [RFC2119] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", [BCP 14](#), [RFC 2119](#), DOI 10.17487/RFC2119, March 1997, <<https://www.rfc-editor.org/info/rfc2119>>.
- [RFC3986] Berners-Lee, T., Fielding, R., and L. Masinter, "Uniform Resource Identifier (URI): Generic Syntax", STD 66, [RFC 3986](#), DOI 10.17487/RFC3986, January 2005, <<https://www.rfc-editor.org/info/rfc3986>>.
- [RFC5234] Crocker, D., Ed. and P. Overell, "Augmented BNF for Syntax Specifications: ABNF", STD 68, [RFC 5234](#), DOI 10.17487/RFC5234, January 2008, <<https://www.rfc-editor.org/info/rfc5234>>.
- [RFC6350] Perreault, S., "vCard Format Specification", [RFC 6350](#), DOI 10.17487/RFC6350, August 2011, <<https://www.rfc-editor.org/info/rfc6350>>.
- [RFC8174] Leiba, B., "Ambiguity of Uppercase vs Lowercase in [RFC 2119](#) Key Words", [BCP 14](#), [RFC 8174](#), DOI 10.17487/RFC8174, May 2017, <<https://www.rfc-editor.org/info/rfc8174>>.





## **7.2. Informative References**

- [RFC7483] Newton, A. and S. Hollenbeck, "JSON Responses for the Registration Data Access Protocol (RDAP)", [RFC 7483](#), DOI 10.17487/RFC7483, March 2015, <<https://www.rfc-editor.org/info/rfc7483>>.

## **7.3. URIs**

- [1] <https://www.icann.org/resources/pages/gtld-registration-data-specs-en>

## **Appendix A. Change Log**

- 00: Initial version.  
01: Edits to address IESG evaluation comments.

### Authors' Addresses

Scott Hollenbeck  
Verisign Labs  
12061 Bluemont Way  
Reston, VA 20190  
USA

Email: [shollenbeck@verisign.com](mailto:shollenbeck@verisign.com)  
URI: <https://www.verisignlabs.com/>

Roger Carney  
GoDaddy Inc.  
14455 N. Hayden Rd. #219  
Scottsdale, AZ 85260  
US

Email: [rcarney@godaddy.com](mailto:rcarney@godaddy.com)  
URI: <http://www.godaddy.com>

