

RDAP Response Profile

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I. Introduction

The Registration Data Access Protocol (RDAP) provides "RESTful" web services to retrieve registration data from Domain Name registrars/registries and Regional Internet Registries. The RDAP base protocol is defined by IETF STD 95. The global set of RDAP RFCs and Internet Drafts are referred to as the RDAP Specifications. See Appendix A for a listing.

The purpose of this document is to encapsulate the operational requirements for RDAP which, in conjunction with the RDAP Technical Implementation Guide, defines RDAP implementation in an ICANN operating environment. This document neither creates nor modifies existing policy,

rather it maps current policy requirements to the RDAP implementation with flexibility to incorporate future policy changes and the goal of minimal reengineering.

II. Policy Mapping

This document specifies the RDAP Policy requirements from the Registration Data Policy effective (date TBD) which builds upon existing RDDS policy and contractual requirements. For clarity, the Registration Data Policy has precedence in any conflict between this document and the Registration Data Policy. See Appendix C for a listing of source material used to create this RDAP Response Profile.

III. Response Requirements

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.

1. General

- 1.1. These requirements represent the minimum baseline for RDAP query responses. RDAP server operators MAY output additional RDDS fields, RDAP *events* or RDAP *roles* without further approval by ICANN.
- 1.2. A server MUST indicate compliance with this specification by including the literal string "icann_rdap_response_profile_1" in the rdapConformance member for all responses provided by the server.
- 1.3. RDAP extensions
 - 1.3.1. RDAP extensions to responses, if used, MUST be registered in the IANA's RDAP Extensions registry (<https://www.iana.org/assignments/rdap-extensions/rdap-extensions.xhtml>), as defined in [RFC7480](#).

- 1.3.2. RDAP extensions MUST NOT add browser executable code (e.g., Javascript) to the response.
- 1.4. In an entity object with an *adr* structure, the *country name* property MUST be empty and the *cc* property MUST be populated by a value from ISO 3166-1 alpha-2.
- 1.5. The topmost object in the RDAP response MUST contain an event of *eventAction* type *last update of RDAP database* with a value equal to the timestamp when the RDAP database was last updated.
- 1.6. Contact representation
 - 1.6.1. An RDAP server MUST use jCard [RFC7095] to represent contact information absent an indication from the RDAP client preferring an alternative format in the RDAP response.
 - 1.6.2. An RDAP server MAY use alternative formats, approved as “Proposed Standard” (as opposed to Informational or Experimental specifications) through the applicable IETF processes, in addition to jCard, to represent contact information in the RDAP response.
 - 1.6.3. If a mechanism exists to allow the RDAP client to request a preferred format to represent contact information and the RDAP client indicates its preference for an alternative format, the RDAP server MUST use one of the following to represent contact information: 1) jCard, 2) the requested alternative format, or 3) both.

2. Responses to Domain name RDAP queries

- 2.1. Domain Name - In response to a non-IDN domain query, the returned RDAP response MUST include a *domain* object and contain a *ldhName* member. In response to an IDN domain query, if the queried domain is an A-label, then the returned RDAP response MUST include a domain object and MUST contain an *ldhName* member and MAY contain a *unicodeName* member. In response to an IDN domain query, if the queried domain is an U-label, then the returned RDAP response MUST include a domain object and MUST contain an *unicodeName* member and MAY contain a *ldhName* member.
- 2.2. Registry Domain ID - The *domain* object *handle* in the RDAP response MUST contain the Repository Object Identifier (ROID of the domain object, *<domain:roid>* as defined in RFC5731) for the domain name object.

- 2.3. Event and Event Actions - This section describes Events and Event Actions related to Domain name responses
 - 2.3.1. The domain object in the RDAP response MUST contain the following events:
 - 2.3.1.1. Event of *eventAction* type *registration*
 - 2.3.1.2. Event of *eventAction* type *expiration*
 - 2.3.2. The domain object in the RDAP response MAY contain the following events:
 - 2.3.2.1. An event of *eventAction* type *registrar expiration*.
 - 2.3.2.2. Event of *eventAction* type *last changed* - The event of *eventAction* type *last changed* MUST be omitted from the response if the domain object has not been updated since it was created.
 - 2.3.2.3. An event of *eventAction* type *transfer*, with the last date and time that the domain was transferred (for clarity: change of sponsoring registrar). The event of *eventAction* type *transfer* MUST be omitted from the response if the domain object has not been transferred since it was created.
- 2.4. Registrar (Registrar Entity)
 - 2.4.1. Registrar - The *domain* object in the RDAP response MUST contain an *entity* with the *registrar* role (called registrar entity in this section) and a valid *fn* member MUST be present.
 - 2.4.2. Registrar IANA ID - The *handle* of the *entity* MUST be equal to the IANA Registrar ID.
 - 2.4.3. Registrar IANA ID - The *entity* with the *registrar* role in the RDAP response MUST contain a *publicIDs* member [RFC9083] to identify the IANA Registrar ID from the IANA's Registrar ID registry (<https://www.iana.org/assignments/registrar-ids/registrar-ids.xhtml>). The type value of the *publicID* object MUST be equal to IANA Registrar ID.
 - 2.4.4. Other members MAY be present in the *entity* (as specified in RFC6350, the vCard Format Specification and its corresponding JSON mapping RFC7095).

- 2.4.5. Abuse Contact (email, phone) - An RDAP server MUST include an *entity* with the *abuse* role within the registrar *entity* which MUST include *tel* and *email* members, and MAY include other members.
- 2.4.6. Registrar URL - The entity with the *registrar* role in the RDAP response MUST contain a *links* member [RFC9083]. The *links* object MUST contain the elements: *value*, identical to the the RDAP Base URL for the Registrar as provided in the IANA “Registrar IDs” registry (i.e., <https://www.iana.org/assignments/registrar-ids>); *rel:about*, and *href* containing the Registrar URL. Note: in cases where the Registry Operator acts as sponsoring Registrar (e.g., IANA Registrar ID 9999), the *href* shall contain a URL from the Registry.
- 2.5. Reseller - The returned *domain* object in the RDAP response MAY contain an entity with the *reseller* role, if the domain name was registered through a reseller.
- 2.6. Domain Status
 - 2.6.1. The top-level domain object in the RDAP response MUST contain at least one *status* member [RFC9083] contained in the IANA RDAP JSON Values registry (<https://www.iana.org/assignments/rdap-json-values/rdap-json-values.xhtml>) of *status* type.
 - 2.6.2. The *status* member value MUST conform to the Extensible Provisioning Protocol (EPP) and Registration Data Access Protocol (RDAP) Status Mapping [RFC8056].
 - 2.6.3. A domain name RDAP response MUST contain a *notices* member with a *title* “Status Codes”, a *description* containing the string “For more information on domain status codes, please visit <https://icann.org/epp>” and a *links* member with the <https://icann.org/epp> URL in the *href*, *rel:glossary*, and a *value* with the RDAP lookup path that generated the RDAP response.
- 2.7. Contacts
 - 2.7.1. The *domain* object in the RDAP response MAY contain entity instances, each of which includes a role signifying the relationship to the *domain* object.
 - 2.7.2. The RDAP response by a registrar server to a domain query MUST contain an *entity* with the *registrant* role.

- 2.7.3. Except for the *entity* that includes the *registrar* role, the handle of an *entity* MUST be the ROID of the contact object, <contact:roid>, as defined in RFC5733.
- 2.7.4. The entity that includes the registrant role MAY include valid members *fn*, *org*, *adr*, *tel*, and *email*. Subject to the redaction requirements below, the following RDDS elements MUST be included in the *fn*, *org*, *adr*, *tel*, and *email* members based on the mappings defined in Appendix D when section 9.1 of the Registration Data Policy calls for the Publication of the RDDS element:
 - 2.7.4.1. Registrant Name
 - 2.7.4.2. Registrant Organization
 - 2.7.4.3. Registrant Street
 - 2.7.4.4. Registrant City
 - 2.7.4.5. Registrant State/Province
 - 2.7.4.6. Registrant Postal Code
 - 2.7.4.7. Registrant Country
 - 2.7.4.8. Registrant Phone
 - 2.7.4.9. Registrant Email
- 2.7.5. Subject to the redaction requirements below, the *entity* that includes the *registrant* role MAY include the following RDDS data elements:
 - 2.7.5.1. Registrant Phone Ext
 - 2.7.5.2. Registrant Fax
 - 2.7.5.3. Registrant Fax Ext
- 2.7.6. The entity that includes the *technical* role MAY include valid members *fn*, *tel*, and *email*. Subject to the redaction requirements below, the following RDDS elements MUST be included in the *fn*, *tel*, and *email* members based on the mappings defined in Appendix D when section 9.1 of the Registration Data Policy calls for the Publication of the RDDS element:
 - 2.7.6.1. Tech Name
 - 2.7.6.2. Tech Phone
 - 2.7.6.3. Tech Email
- 2.7.7. When applying the redaction requirements in the Registration Data Policy, the redacted RDDS elements MUST be indicated using the Redacted Fields in the Registration Data Access Protocol (RDAP) Response (draft-ietf-regext-rdap-redacted, as defined by the Technical Implementation Guide 1.1.3) and using the redacted “name” member values included in Appendix E.

- 2.7.8. When applying the redaction requirements for an email address in the Registration Data Policy, the Registrar (1) MUST use the Redaction by Replacement Value Method in the Registration Data Access Protocol (RDAP) Response (draft-ietf-regext-rdap-redacted, as defined by the Technical Implementation Guide 1.1.3) for the email property, and (2) MUST comply with one of the following:
 - 2.7.8.1. The email property MUST contain a syntactically valid email address as defined in RFC5322, and) the entity object MUST NOT contain a *contact-uri* member.
 - 2.7.8.2. The value of the contact-uri member in the entity object MUST be a syntactically valid HTTP URL as defined in RFC9110, and) the entity object MUST NOT contain an *email* member.
- 2.7.9. Notwithstanding the redaction requirements in section 2.7.7 and 2.7.8 where the Registered Name Holder provides its consent to publish data that would otherwise be redacted, Registrar MUST NOT redact such RDDS data elements.
- 2.8. Name Server(s) - The domain object in the RDAP response MUST contain the name servers of the domain in the *nameservers* member.
 - 2.8.1. Each nameserver object MUST contain the following member: *ldhName*.
 - 2.8.2. The following members are Optional: *ipAddresses* [RFC9083], *unicodeName*, *handle* [RFC9083] (ROID of the host object, <host:roid> as defined in RFC5732), and *status*.
 - 2.8.3. This section 2.8.3 only applies to Registries in which name servers are specified as domain attributes. The nameserver object MUST NOT contain the following members: *handle* and *status*, but the nameserver object MUST contain an *ipAddresses* member listing all IPv4 and IPv6 glue records for the in-domain name server (see RFC 8499).
- 2.9. DNSSEC - The domain object in the RDAP response MUST contain a *secureDNS* member [RFC9083] including at least a *delegationSigned* element. Other elements (e.g. *dsData*) of the secureDNS member MUST be included, if the domain name is signed and the elements are stored in the Registry or Registrar database, as the case may be.
- 2.10. RDDS Inaccuracy - A domain name RDAP response MUST contain a *notices* member with a title “RDDS Inaccuracy Complaint Form”, a description containing the string “URL of the ICANN RDDS Inaccuracy Complaint Form: <https://icann.org/wicf>” and a *links* member with the <https://icann.org/wicf> URL in the *href*, *rel:help*, and a *value* with the RDAP lookup path that generated the

RDAP response.

- 2.11. Registrar-only requirements - the following requirements apply to registrars only.
 - 2.11.1. A Registrar RDAP service MUST return an HTTP 404 response to a domain name request when the Registrar is not the Sponsoring Registrar for the domain name.
 - 2.11.2. The domain object *handle* member in the RDAP response MUST contain the Repository Object Identifier (ROID of the domain object, <domain:roid> as defined in RFC5731) for the Domain Name object. For example, a Registrar could obtain the ROID from the Registry via EPP and cache the information locally after creating or gaining a domain name via a transfer.
 - 2.11.3. The entity *handle* member in the RDAP response MUST contain the Repository Object Identifier (ROID of the contact object, <contact:roid>, as defined in RFC5733) for the Contact object. For example, a Registrar could obtain the ROID from the Registry via EPP and cache the information locally. The RAA 2013 defines that this information MUST be shown if available from the Registry. If this information is not available from the Registry (e.g., a "thin" Registry), the handle MUST contain the contact object's unique identifier within the Registrar.
 - 2.11.4. The *eventAction* type *last changed* MUST reflect the date and time of the latest successful update known to the Registrar. Registrars are not required to constantly refresh this date from the Registry.
 - 2.11.5. The *status* element MUST reflect the latest known set of statuses in the Registry. Registrars are not required to constantly refresh the statuses from the Registry.

3. Responses to Registrar Entity RDAP queries

This section only applies to Registries

- 3.1. Registrar (name, address, phone number, email) - In response to a query for a registrar entity, the returned RDAP response MUST be an *entity* with *registrar* role, with a *handle* and valid elements *fn*, *adr*, *tel*, *email*.
 - 3.1.1. Registrar (Street, City, Country) - The *adr* member in the RDAP response for a Registrar query MUST at least contain the following RDDS fields: Street, City, Country.
 - 3.1.2. Registrar (State/Province, Postal Code, Fax Number) - the following fields are optional in the *adr* member of the RDAP response: State/Province, Postal Code, Fax Number.

- 3.2. Contacts (Admin, Technical) - The RDAP response SHOULD contain at least two *entity* objects, with the *administrative* and *technical* roles respectively within the *entity* with the *registrar* role. The *entities* with the *administrative* and *technical* roles MUST contain valid *fn*, *tel*, *email* members, and MAY contain a *handle* and a valid *adr* element.
- 3.3. Appendix F contains non-normative information to assist in the implementation of this section.

4. Responses to Nameserver RDAP queries

This section only applies to Registries that support the host object model as described in RFC 5731.

- 4.1. Name Server (Name) - In response to a non-IDN Nameserver query the returned RDAP response MUST include a *nameserver* object and contain a *ldhName* member. In response to an IDN Nameserver query, if the queried Nameserver is an A-label, then the returned RDAP response MUST include a *nameserver* object and MUST contain an *ldhName* member and MAY contain a *unicodeName* member. In response to an IDN Nameserver query, if the queried Nameserver is an U-label, then the returned RDAP response MUST include a *nameserver* object and MUST contain an *unicodeName* member and MAY contain a *ldhName* member.
- 4.2. IP Address(es) - If the name server record includes IP addresses then the *nameserver* object MUST contain an *ipAddresses* member listing all IPv4 and IPv6 glue records for the in-domain Nameserver.
- 4.3. Registrar (Name, IANA ID) - The Registrar RDDS field is Optional; if present in the response, it MUST be represented as an entity with the registrar role. The *handle* of the entity with the registrar role MUST be equal to the IANA Registrar ID. If the Registrar does not have an IANA ID then the *handle* of the entity with the registrar role MUST equal "not applicable". If the Registrar has an IANA ID, then the entity with the registrar role in the RDAP response MUST contain a *publicIDs* member with a *type* value equal to the IANA Registrar ID. If the Registrar does not have an IANA ID then the RDAP response MUST NOT contain a *publicIDs* member.

Appendix A: RDAP IETF Standards

STD 95 - RDAP

<https://www.rfc-editor.org/refs/ref-std95.txt>

<https://www.rfc-editor.org/info/std95>

RFC8056 – Extensible Provisioning Protocol (EPP) and Registration Data Access Protocol (RDAP) Status Mapping

<https://tools.ietf.org/html/rfc8056>

<https://www.ietf.org/info/rfc8056>

Describes the mapping of the Extensible Provisioning Protocol (EPP) statuses with the statuses registered for us in the Registration Data Access Protocol (RDAP).

jCard: The JSON Format for vCard

<https://tools.ietf.org/html/rfc7095>

<https://www.rfc-editor.org/info/rfc7095>

vCard Format Specification

<https://tools.ietf.org/html/rfc6350>

<https://www.rfc-editor.org/info/rfc6350>

EPP Status Code (ICANN)

<https://www.icann.org/epp>

Appendix B: Other Technical References

IANA RDAP JSON Values Registry

<https://www.iana.org/assignments/rdap-json-values/rdap-json-values.xhtml>

This registry defines valid values for RDAP JSON status, role, notices and remarks, event action, and domain variant relation, as defined in RFC9083.

IANA Bootstrap Service Registry for Domain Name Space

<https://www.iana.org/assignments/rdap-dns/rdap-dns.xhtml>

Draft Final Report from the Expert Working Group on Internationalized Registration Data

<https://gnso.icann.org/en/issues/ird/ird-draft-final-10mar15-en.pdf>

Study to Evaluate Available Solutions for the Submission and Display of Internationalized Contact Data

<https://www.icann.org/en/system/files/files/transform-dnrd-02jun14-en.pdf>

Mozilla Included CA Certificate List

<https://wiki.mozilla.org/CA:IncludedCAs>

Redacted Fields in the Registration Data Access Protocol (RDAP) Response

<https://datatracker.ietf.org/doc/html/draft-ietf-regext-rdap-redacted-16>

Describes an RDAP extension for explicitly identifying redacted RDAP response fields, using JSONPath as the default expression language.

Appendix C: Policy References

gTLD Base Registry Agreement

<https://newgtlds.icann.org/sites/default/files/agreements/agreement-approved-09jan14-en.htm>

2013 Registrar Accreditation Agreement

<https://www.icann.org/resources/pages/approved-with-specs-2013-09-17-en>

Registry Registration Data Directory Services Consistent Labeling and Display Policy (CL&D),

<https://www.icann.org/resources/pages/rdds-labeling-policy-2017-02-01-en>

Temporary Specification for gTLD Registration Data –

<https://www.icann.org/en/system/files/files/gtld-registration-data-temp-spec-17may18-en.pdf>

ICANN Advisories

<https://www.icann.org/resources/pages/advisories-2012-02-25-en>

Advisory: Clarifications to the Registry Agreement, and the 2013 Registrar Accreditation Agreement (RAA) regarding applicable Registration Data Directory Service (Whois) Specifications (RDDS clarification Advisory)

<https://www.icann.org/resources/pages/registry-agreement-raa-rdds-2015-04-27-en>

Advisory: Registrar Implementation of the 2013 RAA's Whois Requirements

<https://www.icann.org/news/announcement-2013-07-31-en>

ICANN Consensus Policies

<https://www.icann.org/resources/pages/registrars/consensus-policies-en>

Additional Whois Information Policy

<https://www.icann.org/resources/pages/policy-awip-2014-07-02-en>

Final Report on the Thick Whois Policy Development Process

<https://gnso.icann.org/en/issues/whois/thick-final-21oct13-en.pdf>

ICANN Whois Marketing Restriction Policy

<https://www.icann.org/resources/pages/registrars/consensus-policies/wmrp-en>

Registration Data Policy (EPDP Phase 1)

<https://www.icann.org/resources/pages/registration-data-policy-implementation-resources-2024-02-21-en>

Appendix D: Data Element Mappings

The tables below show the mapping between the data elements in the registration data policy and the RDAP response element. Including a data element in this appendix does not imply its inclusion in any RDAP response.

Domain Name Responses

Data Element	RDAP Response Element
Domain Name	ldhName
Registry Domain ID	handle
Updated Date	events.eventAction "last changed"
Creation Date	events.eventAction "registration"
Registry Expiry Date	events.eventAction "expiration"
Domain Status	status object
Name Server	nameservers.ldhname
DNSSEC Elements	secureDNS object
Last update of RDDS	Events.eventAction "last update of RDAP database"
Registrar	Entities.role registrar
Registrar	Entities.roles.registrar
Registrar IANA ID	publicIDs.identifier
Registrar Abuse Contact Email	Entities.role abuse email

Registrar Abuse Contact Phone	Entities.role abuse phone
Registrar Registration Expiration Date	events.eventAction "registrar expiration"
Reseller	Entities.roles reseller
Registrant	Entities.role registrant
Registry Registrant ID	Entity.handle
Registrant Name	jCard "fn"
Registrant Organization	Org
Registrant Street	Grouped into adr member while complying with section 1.4 above
Registrant City	
Registrant State/Province	
Registrant Postal Code	
Registrant Country	
Registrant Phone	Tel type parameter voice
Registrant Phone Ext	Ext
Registrant Fax	Tel type parameter Fax
Registrant Fax Ext	Ext
Registrant Email	Email
Technical Contact	Entities.role Technical
Registry Tech ID	Entity.handle
Tech Name	jCard "fn"

Tech Phone	Tel type parameter voice
Tech Email	Email

Name Server Responses

Data Element	RDAP Response Element
Name Server(s)	nameserver.IdhName
Name Server IP Address(es)	nameserver.ipAddresses
Registrar	Entities.roles registrar
Last Update of RDDS	events.eventAction "last update of RDAP database"

Appendix E: Redacted Fields in the Registration Data Access Protocol (RDAP) Response “redacted name” JSON Values Registry Registrations

After the Redacted Fields in the Registration Data Access Protocol (RDAP) Response draft (draft-ietf-regext-rdap-redacted) becomes an RFC, the following is the list of “redacted name” registrations for use in redacting the fields defined in the gTLD RDAP Profile.

Value: Registry Domain ID

Type: redacted name

Description: Redacted domain object class “handle” member. The “removal” redacted “path” member JSONPath for Figure “Unredacted RDAP Lookup Response” of draft-ietf-regext-rdap-redacted is “\$.handle”.

Registrant Name: ICANN

Registrant Contact Information: globalsupport@icann.org

Value: Registry Registrant ID

Type: redacted name

Description: Redacted entity object class, with “registrant” role, “handle” member. The “removal” redacted “path” member JSONPath for Figure “Unredacted RDAP Lookup Response” of draft-ietf-regext-rdap-redacted is “\$.entities[?(@.roles[0]==‘registrant’)].handle”.

Registrant Name: ICANN

Registrant Contact Information: globalsupport@icann.org

Value: Registrant Name

Type: redacted name

Description: Redacted entity object class, with “registrant” role, name property. When using jCard, redacting the “vcard” “fn” property. The “emptyValue” redacted “path” member JSONPath for Figure “Unredacted RDAP Lookup Response” of draft-ietf-regext-rdap-redacted is “\$.entities[?(@.roles[0]==‘registrant’)].vcardArray[1][?(@[0]==‘fn’)][3]”.

Registrant Name: ICANN

Registrant Contact Information: globalsupport@icann.org

Value: Registrant Organization

Type: redacted name

Description: Redacted entity object class, with “registrant” role, organization property. When using jCard, redacting the “vcard” “org” property. The “removal” redacted “path” member JSONPath for Figure “Unredacted RDAP Lookup Response” of draft-ietf-regext-rdap-redacted is “\$.entities[?(@.roles[0]=='registrant')].vcardArray[1][?(@[0]=='org')]”.

Registrant Name: ICANN

Registrant Contact Information: globalsupport@icann.org

Value: Registrant Street

Type: redacted name

Description: Redacted entity object class, with “registrant” role, street properties. When using jCard, the “vcard” “adr” street properties (vCard “ADR-component-pobox”, “ADR-component-ext”, and “ADR-component-street”). The “emptyValue” redacted “path” member JSONPath for Figure “Unredacted RDAP Lookup Response” of draft-ietf-regext-rdap-redacted is

“\$.entities[?(@.roles[0]=='registrant')].vcardArray[1][?(@[0]=='adr')][3][:3]”.

Registrant Name: ICANN

Registrant Contact Information: globalsupport@icann.org

Value: Registrant City

Type: redacted name

Description: Redacted entity object class, with “registrant” role, city property. When using jCard, the “vcard” “adr” locality property (vCard “ADR-component-locality”). The “emptyValue” redacted “path” member JSONPath for Figure “Unredacted RDAP Lookup Response” of draft-ietf-regext-rdap-redacted is

“\$.entities[?(@.roles[0]=='registrant')].vcardArray[1][?(@[0]=='adr')][3][3]”.

Registrant Name: ICANN

Registrant Contact Information: globalsupport@icann.org

Value: Registrant Postal Code

Type: redacted name

Description: Redacted entity object class, with “registrant” role, postal code property. When using jCard, the “vcard” “adr” code property (vCard “ADR-component-code”). The “emptyValue” redacted “path” member JSONPath for Figure “Unredacted RDAP Lookup Response” of draft-ietf-regext-rdap-redacted is

“\$.entities[?(@.roles[0]=='registrant')].vcardArray[1][?(@[0]=='adr')][3][5]”.

Registrant Name: ICANN

Registrant Contact Information: globalsupport@icann.org

Value: Registrant Phone

Type: redacted name

Description: Redacted entity object class, with “registrant” role, voice phone property. When using jCard, the “vcard” “tel” property with type “voice”. The “removal” redacted “path” member

JSONPath for Figure “Unredacted RDAP Lookup Response” of draft-ietf-regext-rdap-redacted is “\$.entities[?(@.roles[0]==‘registrant’)].vcardArray[1][?(@[1].type==‘voice’)]”.

Registrant Name: ICANN

Registrant Contact Information: globalsupport@icann.org

Value: Registrant Phone Ext

Type: redacted name

Description: Redacted entity object class, with “registrant” role, voice phone extension property. When using jCard, the “vcard” “tel” property extension value with type “voice”. The “removal” redacted “path” member JSONPath for Figure “Unredacted RDAP Lookup Response” of draft-ietf-regext-rdap-redacted is

“\$.entities[?(@.roles[0]==‘registrant’)].vcardArray[1][?(@[1].type==‘voice’)]”.

Registrant Name: ICANN

Registrant Contact Information: globalsupport@icann.org

Value: Registrant Fax

Type: redacted name

Description: Redacted entity object class, with “registrant” role, fax phone property. When using jCard, the “vcard” “tel” property with type “fax”. The “removal” redacted “path” member JSONPath for Figure “Unredacted RDAP Lookup Response” of draft-ietf-regext-rdap-redacted is

“\$.entities[?(@.roles[0]==‘registrant’)].vcardArray[1][?(@[1].type==‘fax’)]”.

Registrant Name: ICANN

Registrant Contact Information: globalsupport@icann.org

Value: Registrant Fax Ext

Type: redacted name

Description: Redacted entity object class, with “registrant” role, fax phone extension property. When using jCard, the “vcard” “tel” property with type “fax”. The “removal” redacted “path” member JSONPath for Figure “Unredacted RDAP Lookup Response” of draft-ietf-regext-rdap-redacted is

“\$.entities[?(@.roles[0]==‘registrant’)].vcardArray[1][?(@[1].type==‘fax’)]”.

Registrant Name: ICANN

Registrant Contact Information: globalsupport@icann.org

Value: Registrant Email

Type: redacted name

Description: Redacted entity object class, with “registrant” role, email property. When using jCard, the “vcard” “email” property. The “removal” redacted “path” member JSONPath for Figure “Unredacted RDAP Lookup Response” of draft-ietf-regext-rdap-redacted is

“\$.entities[?(@.roles[0]==‘registrant’)].vcardArray[1][?(@[0]==‘email’)]”. The “replacementValue” redacted “path” member JSONPath for Figure “Unredacted RDAP Lookup Response” of draft-ietf-regext-rdap-redacted is

“\$.entities[?(@.roles[0]=='registrant')].vcardArray[1][?(@[0]=='email')][3]” or using the “replacementPath” to the “vcard” “contact-uri” property.

Registrant Name: ICANN

Registrant Contact Information: globalsupport@icann.org

Value: Registry Tech ID

Type: redacted name

Description: Redacted entity object class, with “technical” role, “handle” member. The “removal” redacted “path” member JSONPath for Figure “Unredacted RDAP Lookup Response” of draft-ietf-regext-rdap-redacted is “\$.entities[?(@.roles[0]=='technical')].handle”.

Registrant Name: ICANN

Registrant Contact Information: globalsupport@icann.org

Value: Tech Name

Type: redacted name

Description: Redacted entity object class, with “technical” role, name property. When using jCard, redacting the “vcard” “fn” property. The “emptyValue” redacted “path” member JSONPath for Figure “Unredacted RDAP Lookup Response” of draft-ietf-regext-rdap-redacted is “\$.entities[?(@.roles[0]==technical)].vcardArray[1][?(@[0]=='fn')][3]”.

Registrant Name: ICANN

Registrant Contact Information: globalsupport@icann.org

Value: Tech Phone

Type: redacted name

Description: Redacted entity object class, with “technical” role, voice phone property. When using jCard, the “vcard” “tel” property with type “voice”. The “removal” redacted “path” member JSONPath for Figure “Unredacted RDAP Lookup Response” of draft-ietf-regext-rdap-redacted is “\$.entities[?(@.roles[0]=='technical')].vcardArray[1][?(@[1].type=='voice')]”.

Registrant Name: ICANN

Registrant Contact Information: globalsupport@icann.org

Value: Tech Phone Ext

Type: redacted name

Description: Redacted entity object class, with “technical” role, voice phone extension property. When using jCard, the “vcard” “tel” property extension value with type “voice”. The “removal” redacted “path” member JSONPath for Figure “Unredacted RDAP Lookup Response” of draft-ietf-regext-rdap-redacted is

“\$.entities[?(@.roles[0]=='technical')].vcardArray[1][?(@[1].type=='voice')]”.

Registrant Name: ICANN

Registrant Contact Information: globalsupport@icann.org

Value: Tech Email

Type: redacted name

Description: Redacted entity object class, with “technical” role, email property. When using jCard, the “vcard” “email” property. The “removal” redacted “path” member JSONPath for Figure “Unredacted RDAP Lookup Response” of draft-ietf-regext-rdap-redacted is

“\$.entities[?(@.roles[0]=='technical')].vcardArray[1][?(@[0]=='email')]”. The “replacementValue” redacted “path” member JSONPath for Figure “Unredacted RDAP Lookup Response” of draft-ietf-regext-rdap-redacted is

“\$.entities[?(@.roles[0]=='technical')].vcardArray[1][?(@[0]=='email')][3]” or using the “replacementPath” to the “vcard” “contact-uri” property.

Registrant Name: ICANN

Registrant Contact Information: globalsupport@icann.org]

Appendix F: Data Element Mappings

The tables below show the mapping between data elements and the RDAP response element. Including a data element in this appendix does not imply its inclusion in any RDAP response.

Registrar Responses:

Data Element	RDAP Response Element
Registrar	jCard fn
Registrar Street	Grouped into the adr member, while complying with section 1.4 above
Registrar City	
Registrar State/Province	
Registrar Postal Code	
Registrar Country	
Registrar Phone	Tel with a type parameter voice
Registrar Fax	Tel with a type parameter fax
Registrar Email	email
Registrar Admin/Tech Contact	Entity.role administrative or technical
Administrative/Technical Contact	jCard fn
Contact Phone	Tel with a type parameter voice
Contact Fax	Tel with a type parameter fax
Contact Email	email