



RDAP User Guide

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Classification

Public - GoDaddy Registry © 2022

Purpose

This document provides an overview of the RDAP implementation for anonymous and authenticated users.

Audience

Public.

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1 Introduction

RDAP (Registry Data Access Protocol) is an application that allows users to query for Registry data (domains, contacts, hosts and Registrars) over HTTPS where responses are provided in JSON. RDAP is an API and is intended for machine to machine interaction, as such there is no web-based interface available to submit RDAP requests.

Like WHOIS, most Registries will have an RDAP service on the hostname `rdap.nic.[TLD]`, where [TLD] represents the applicable Registry's TLD. If you find that there is no response on a Registry's assumed RDAP host, it may be that the Registry Operator has not implemented an RDAP service at this time.

RDAP is publicly accessible; while anyone may submit a query, some data may be redacted depending on the user access type.

1.1 Access Type

There are two access types:

- **Anonymous:** anyone on the open internet may query a Registry's RDAP service however responses will be redacted and some queries will be restricted, for example domain queries may not contain contact details.
- **Authenticated:** users may apply for authenticated access, allowing them to receive un-redacted responses and access to other queries. Authenticated users will be provided with a username, password and a Registry-signed SSL certificate which must be provided on each request for authentication.

Note: The Registry provided SSL certificate is a closed certificate therefore please ensure that you add the Registry CA into your trust store to ensure your system allows the use of the certificate.

Certificates will be valid for only 12 months from the day of issue, please ensure you monitor your certificate's expiry date.

You should ensure that you request a new certificate from us at least seven (7) days prior to the expiry of your existing certificate.

1.2 Request Header

For all requests, please ensure that in the request header the following KEY and VALUE are defined:

KEY	VALUE
Content-Type	application/json

If you have authenticated access, please ensure that the authorization type used is Basic Auth and is included in your request header.

1.3 Summary of User Type Query Access

The querying format for RDAP is {Service Host}/{Query} where {Service Host} is the hostname of the Registry's RDAP service and {Query} is the query that you want to submit. For example, below is a domain query for my.biz against the .biz RDAP service

- rdap.nic.biz/domain/my.biz

Note: Queries are CASE SENSITIVE, please ensure that the case of queries are correct as listed below.

Query	Anonymous	Authenticated
domain/XXXX	Yes	Yes
domains?name=XXXX	No	Yes
domains?nsLdhName=XXXX	No	Yes
domains?nsIp=XXXX	No	Yes
nameservers?name=XXXX	No	Yes
nameservers?ip=XXXX	No	Yes
entity/XXXX	Yes	Yes
entities?handle=XXXX	No	Yes
entities?fn=XXXX	No	Yes
help	Yes	Yes

2 Help

The HELP query, provides a list of all the supported queries and their querying format.

- URL: `https://{service host}/help`
- Method: GET

Response:

```
{
  "rdapConformance": [
    "rdap_level_0",
    "icann_rdap_response_profile_0",
    "icann_rdap_technical_implementation_guide"
  ],
  "notices": [
    {
      "title": "RDAP Help",
      "description": [
        "domain/XXXX",
        "nameserver/XXXX",
        "entity/XXXX",
        "domains?name=XXXX",
        "domains?nsLdhName=XXXX",
        "domains?nsIp=XXXX",
        "nameservers?name=XXXX",
        "nameservers?ip=XXXX",
        "entities?fn=XXXX",
        "entities?handle=XXXX",
        "help/XXXX"
      ],
      "links": [
        {
          "rel": "alternate",
          "value": "https://www.domain.example/rdap",
          "href": "https://www.domain.example/rdap",
          "type": "text/html"
        }
      ]
    }
  ]
}
```

```
    ]
  },
  {
    "title": "RDAP Terms of Service",
    "description": [
      "The RDAP service terms of service"
    ],
    "links": [
      {
        "rel": "alternate",
        "value": "https://www.domain.example/rdap",
        "href": "https://www.domain.example/rdap",
        "type": "text/html"
      }
    ]
  }
]
```


3 Queries

Below is a list and example of RDAP queries, please note the following:

- XXXX represents/is a placeholder for user input.
- Wildcard characters are not supported, for instance the use of * is forbidden.
- Results of queries where a list of items are provided is limited to 20.
- HTTPS requests method must be GET in order to get the responses below.

Response – anonymous response for queries that are disallowed

Note in the example the “notice” object is TRUNCTATED for clarity of display.

```
{
  "rdapConformance": [
    "rdap_level_0",
    "icann_rdap_response_profile_0",
    "icann_rdap_technical_implementation_guide"
  ],
  "notices": [
    [TRUNCTATED]
  ],
  "lang": "en",
  "errorCode": 403,
  "title": "Forbidden",
  "description": [
    "Not authenticated"
  ]
}
```

Response – authenticated response, use of wild card character

```
{
  "rdapConformance": [
    "rdap_level_0",
    "icann_rdap_response_profile_0",
    "icann_rdap_technical_implementation_guide"
  ],
```

```

"notices": [
  [TRUNCATED]
],
"lang": "en",
"errorCode": 400,
"title": "Bad request",
"description": [
  "Invalid input"
]
}

```

3.1 Domain

Query	Description
domain/XXXX	Search for a specific domain.
domains?name=XXXX	Search domains that matches domain provided.
domains?nsLdhName=XXXX	Search for domains which are delegated to the provided name server - note: host name must be provided in LDH form (only letters, digits and hyphens).
domains?nslp=XXXX	Search for domains which are delegated to name servers which has the IP address defined. Note: this does not perform a delegation lookup on the internet, this is only in context to the data recorded in the Registry.

3.1.1 domain/XXXX

Response - domain does not exist

Note in the example the “notice” object is TRUNCATED for clarity of display.

```

{
  "rdapConformance": [
    "rdap_level_0",
    "icann_rdap_response_profile_0",
    "icann_rdap_technical_implementation_guide"
  ],
  "notices": [
    [TRUNCATED]
  ],
  "lang": "en",
  "errorCode": 404,
  "title": "Not found",
  "description": [

```

```
"No data found"  
]  
}
```

Response - anonymous response

```
{  
  "rdapConformance": [  
    "rdap_level_0",  
    "icann_rdap_response_profile_0",  
    "icann_rdap_technical_implementation_guide"  
  ],  
  "objectClassName": "domain",  
  "handle": "D1234567890",  
  "ldhName": "domain.example",  
  "status": [  
    "server update prohibited",  
    "server transfer prohibited",  
    "client update prohibited",  
    "server delete prohibited",  
    "client delete prohibited",  
    "client transfer prohibited"  
  ],  
  "events": [  
    {  
      "eventAction": "registration",  
      "eventDate": "2001-09-30T19:39:45Z",  
      "eventActor": ".us Registry Services LLC"  
    },  
    {  
      "eventAction": "expiration",  
      "eventDate": "2020-11-06T23:59:00Z"  
    },  
    {  
      "eventAction": "last changed",  
      "eventDate": "2019-12-21T23:59:40Z"  
    },  
    {  
      "eventAction": "last update of RDAP database",
```

```
        "eventDate": "2020-05-06T03:39:33Z"
      }
    ],
    "secureDNS": {
      "delegationSigned": true,
      "dsData": [
        {
          "keytag": 123456,
          "algorithm": 1,
          "digestType": 1,
          "digest": "1234567890"
        },
        {
          "keytag": 654321,
          "algorithm": 1,
          "digestType": 1,
          "digest": "1234567890"
        }
      ]
    },
    "entities": [
      {
        "objectClassName": "entity",
        "roles": [
          "registrant"
        ],
        "remarks": [
          {
            "title": "REDACTED FOR PRIVACY",
            "type": "object redacted due to authorization",
            "description": [
              "Some of the data in this object has been removed"
            ],
            "links": [
              {
                "rel": "alternate",
                "value": "https://www.domain.example/rdap",
                "href": "https://www.domain.example/rdap",
```

```
        "type": "text/html"
      }
    ]
  },
  {
    "title": "EMAIL REDACTED FOR PRIVACY",
    "type": "object redacted due to authorization",
    "description": [
      "Please query the RDDS service of the Registrar of
      Record identified in this output for information on how to contact the
      Registrant of the queried domain name"
    ],
    "links": [
      {
        "rel": "alternate",
        "value": "https://www.domain.example/rdap",
        "href": "https://www.domain.example/rdap",
        "type": "text/html"
      }
    ]
  }
],
"status": [
  "removed"
]
},
{
  "objectClassName": "entity",
  "roles": [
    "billing"
  ],
  "remarks": [
    {
      "title": "REDACTED FOR PRIVACY",
      "type": "object redacted due to authorization",
      "description": [
        "Some of the data in this object has been removed"
      ],
      "links": [
```

```
        {
            "rel": "alternate",
            "value": "https://www.domain.example/rdap",
            "href": "https://www.domain.example/rdap",
            "type": "text/html"
        }
    ]
},
{
    "title": "EMAIL REDACTED FOR PRIVACY",
    "type": "object redacted due to authorization",
    "description": [
        "Please query the RDDS service of the Registrar of
Record identified in this output for information on how to contact the
Registrant of the queried domain name"
    ],
    "links": [
        {
            "rel": "alternate",
            "value": "https://www.domain.example/rdap",
            "href": "https://www.domain.example/rdap",
            "type": "text/html"
        }
    ]
}
],
"status": [
    "removed"
]
},
{
    "objectClassName": "entity",
    "roles": [
        "administrative"
    ],
    "remarks": [
        {
            "title": "REDACTED FOR PRIVACY",
```

```
    "type": "object redacted due to authorization",
    "description": [
      "Some of the data in this object has been removed"
    ],
    "links": [
      {
        "rel": "alternate",
        "value": "https://www.domain.example/rdap",
        "href": "https://www.domain.example/rdap",
        "type": "text/html"
      }
    ]
  },
  {
    "title": "EMAIL REDACTED FOR PRIVACY",
    "type": "object redacted due to authorization",
    "description": [
      "Please query the RDDS service of the Registrar of
Record identified in this output for information on how to contact the
Registrant of the queried domain name"
    ],
    "links": [
      {
        "rel": "alternate",
        "value": "https://www.domain.example/rdap",
        "href": "https://www.domain.example/rdap",
        "type": "text/html"
      }
    ]
  }
],
"status": [
  "removed"
]
},
{
  "objectClassName": "entity",
  "roles": [
    "technical"
```

```
],
  "remarks": [
    {
      "title": "REDACTED FOR PRIVACY",
      "type": "object redacted due to authorization",
      "description": [
        "Some of the data in this object has been removed"
      ],
      "links": [
        {
          "rel": "alternate",
          "value": "https://www.domain.example/rdap",
          "href": "https://www.domain.example/rdap",
          "type": "text/html"
        }
      ]
    },
    {
      "title": "EMAIL REDACTED FOR PRIVACY",
      "type": "object redacted due to authorization",
      "description": [
        "Please query the RDDS service of the Registrar of
Record identified in this output for information on how to contact the
Registrant of the queried domain name"
      ],
      "links": [
        {
          "rel": "alternate",
          "value": "https://www.domain.example/rdap",
          "href": "https://www.domain.example/rdap",
          "type": "text/html"
        }
      ]
    }
  ],
  "status": [
    "removed"
  ]
]
```



```
},
{
  "objectClassName": "entity",
  "handle": "9999",
  "vcardArray": [
    "vcard",
    [
      [
        "version",
        {},
        "text",
        "4.0"
      ],
      [
        "fn",
        {},
        "text",
        "Registry Operator"
      ],
      [
        "adr",
        {},
        "text",
        [
          "",
          "",
          [
            "12345 Some Street",
            "",
            ""
          ],
          "Sterling",
          "VA",
          "20166",
          ""
        ]
      ]
    ]
  ],
  [
```

```
        "ISO-3166-1-alpha-2",
        {},
        "text",
        "US"
    ],
    [
        "tel",
        {
            "type": "voice"
        },
        "uri",
        "tel:+1.123456789"
    ],
    [
        "email",
        {},
        "text",
        "support@domain.example"
    ]
]
],
"entities": [
    {
        "objectClassName": "entity",
        "vcardArray": [
            "vcard",
            [
                [
                    "version",
                    {},
                    "text",
                    "4.0"
                ],
                [
                    "tel",
                    {
                        "type": "voice"
                    },

```

```
        "uri",
        "tel:+1.123456789"
    ],
    [
        "email",
        {},
        "text",
        "support@domain.example"
    ]
    ]
    ],
    "roles": [
        "abuse"
    ]
}
],
"roles": [
    "registrar"
],
"publicIds": [
    {
        "identifier": "9999",
        "type": "IANA Registrar ID"
    }
],
"events": [
    {
        "eventAction": "registration",
        "eventDate": "2017-08-10T07:25:47Z",
        "eventActor": "REGISTRY"
    },
    {
        "eventAction": "last update of RDAP database",
        "eventDate": "2020-05-06T03:39:33Z"
    }
],
"links": [
    {
```

```
        "title": "Authoritative Registry object record",
        "rel": "self",
        "href": "https://rdap.nic.example/entity/9999",
        "type": "application/rdap+json"
    }
]
},
"nameservers": [
    {
        "objectClassName": "nameserver",
        "handle": "H12345678901",
        "ldhName": "ns1.nameserver.example",
        "status": [
            "ok"
        ],
        "events": [
            {
                "eventAction": "registration",
                "eventDate": "2014-01-23T23:45:21Z",
                "eventActor": "Registrar, Inc."
            },
            {
                "eventAction": "last update of RDAP database",
                "eventDate": "2020-05-06T03:39:33Z"
            }
        ],
        "links": [
            {
                "title": "Authoritative Registry object record",
                "rel": "self",
                "href":
                "https://rdap.nic.example/nameserver/ns1.nameserver.example ",
                "type": "application/rdap+json"
            }
        ]
    },
    {
```

```
"objectClassName": "nameserver",
"handle": "H12345678902",
"ldhName": "ns2.nameserver.example",
"status": [
  "ok"
],
"events": [
  {
    "eventAction": "registration",
    "eventDate": "2014-01-23T23:45:22Z",
    "eventActor": "Registrar, Inc."
  },
  {
    "eventAction": "last update of RDAP database",
    "eventDate": "2020-05-06T03:39:33Z"
  }
],
"links": [
  {
    "title": "Authoritative Registry object record",
    "rel": "self",
    "href":
"https://rdap.nic.example/nameserver/ns2.nameserver.example",
    "type": "application/rdap+json"
  }
]
},
],
"notices": [
  {
    "title": "Status Codes",
    "description": [
      "For more information on domain status codes, please visit
https://icann.org/epp"
    ],
    "links": [
      {
        "rel": "alternate",
        "value": "https://icann.org/epp",

```

```
        "href": "https://icann.org/epp",
        "type": "text/html"
    }
]
},
{
    "title": "RDDS Inaccuracy Complaint Form",
    "description": [
        "URL of the ICANN RDDS Inaccuracy Complaint Form:
https://www.icann.org/wicf"
    ],
    "links": [
        {
            "rel": "alternate",
            "value": "https://www.icann.org/wicf",
            "href": "https://www.icann.org/wicf",
            "type": "text/html"
        }
    ]
},
{
    "title": "RDAP Terms of Service",
    "description": [
        "The RDAP service"
    ],
    "links": [
        {
            "rel": "alternate",
            "value": "https://www.domain.example/rdap",
            "href": "https://www.domain.example/rdap",
            "type": "text/html"
        }
    ]
}
],
"links": [
    {
        "title": "Authoritative Registry object record",
```

```
        "rel": "self",
        "href": "https://rdap.nic.example/domain/domain.example",
        "type": "application/rdap+json"
    }
]
}
```

Response - authenticated response

```
{
  "rdapConformance": [
    "rdap_level_0",
    "icann_rdap_response_profile_0",
    "icann_rdap_technical_implementation_guide"
  ],
  "objectClassName": "domain",
  "handle": "D1234567890",
  "ldhName": "domain.example",
  "status": [
    "active"
  ],
  "events": [
    {
      "eventAction": "registration",
      "eventDate": "2015-03-19T17:38:04Z",
      "eventActor": "Server Account"
    },
    {
      "eventAction": "expiration",
      "eventDate": "2021-03-18T23:59:59Z"
    },
    {
      "eventAction": "last changed",
      "eventDate": "2020-05-03T00:00:07Z"
    },
    {
      "eventAction": "last update of RDAP database",
      "eventDate": "2020-05-06T04:04:08Z"
    }
  ]
}
```

```
],
"secureDNS":{
  "delegationSigned":false
},
"entities":[
  {
    "objectClassName":"entity",
    "handle":"C12345678901",
    "vcardArray":[
      "vcard",
      [
        [
          "version",
          {
            },
          "text",
          "4.0"
        ],
        [
          "fn",
          {
            },
          "text",
          "Registry Operator, LLC"
        ],
        [
          "org",
          {
            },
          "text",
          "Registry Operator, LLC"
        ],
        [
          "adr",
          {
```



```
    },
    "text",
    [
      "",
      "",
      [
        "123 Some Street",
        "",
        ""
      ],
      "Sterling",
      "VA",
      "20166",
      ""
    ]
  ],
  [
    "ISO-3166-1-alpha-2",
    {
    },
    "text",
    "US"
  ],
  [
    "tel",
    {
      "type": "voice"
    },
    "uri",
    "tel:+1.123456789"
  ],
  [
    "email",
    {
    },
  ],
```

```
        "text",
        "support@domain.example"
    ]
]
],
"roles":[
    "registrant"
],
"events":[
    {
        "eventAction":"registration",
        "eventDate":"2015-02-12T18:33:26Z",
        "eventActor":"Server Account"
    },
    {
        "eventAction":"last changed",
        "eventDate":"2019-08-19T01:42:57Z",
        "eventActor":"Server Account"
    },
    {
        "eventAction":"last update of RDAP database",
        "eventDate":"2020-05-06T04:04:08Z"
    }
],
"links":[
    {
        "title":"Authoritative Registry object record",
        "rel":"self",
        "href":"https://rdap.nic.example/entity/C12345678901",
        "type":"application/rdap+json"
    }
],
"status":[
    "ok"
]
},
{
    "objectClassName":"entity",
```

```
"handle": "C12345678902",
"vcardArray": [
  "vcard",
  [
    [
      "version",
      {
      },
      "text",
      "4.0"
    ],
    [
      "fn",
      {
      },
      "text",
      "Registry Operator, LLC"
    ],
    [
      "org",
      {
      },
      "text",
      "Registry Operator, LLC"
    ],
    [
      "adr",
      {
      },
      "text",
      [
        "",
        ""
      ]
    ]
  ]
]
```

```
        "123 Some Street",
        "",
        ""
    ],
    "Sterling",
    "VA",
    "20166",
    ""
]
],
[
    "ISO-3166-1-alpha-2",
    {
    },
    "text",
    "US"
],
[
    "tel",
    {
        "type": "voice"
    },
    "uri",
    "tel:+1.123456789"
],
[
    "email",
    {
    },
    "text",
    "support@domain.example"
]
]
],
"roles": [
    "billing"
```

```
],
"events": [
  {
    "eventAction": "registration",
    "eventDate": "2015-02-12T18:33:26Z",
    "eventActor": "Server Account"
  },
  {
    "eventAction": "last changed",
    "eventDate": "2019-08-19T01:42:57Z",
    "eventActor": "Server Account"
  },
  {
    "eventAction": "last update of RDAP database",
    "eventDate": "2020-05-06T04:04:08Z"
  }
],
"links": [
  {
    "title": "Authoritative Registry object record",
    "rel": "self",
    "href": "https://rdap.nic.example/entity/C12345678902",
    "type": "application/rdap+json"
  }
],
"status": [
  "ok"
]
},
{
  "objectClassName": "entity",
  "handle": "C12345678903",
  "vcardArray": [
    "vcard",
    [
      [
        "version",
        {
```

```
    },
    "text",
    "4.0"
  ],
  [
    "fn",
    {
      },
      "text",
      "Registry Operator, LLC"
    ],
    [
      "org",
      {
      },
      "text",
      "Registry Operator, LLC"
    ],
    [
      "adr",
      {
      },
      "text",
      [
        "",
        "",
        [
          "123 Some Street",
          "",
          ""
        ],
        ],
      "Sterling",
      "VA",
      "20166",
```

```
        ""
      ],
    ],
    [
      "ISO-3166-1-alpha-2",
      {
      },
      "text",
      "US"
    ],
    [
      "tel",
      {
        "type": "voice"
      },
      "uri",
      "tel:+1.123456789"
    ],
    [
      "email",
      {
      },
      "text",
      "support@domain.example"
    ]
  ],
  ],
  "roles": [
    "administrative"
  ],
  "events": [
    {
      "eventAction": "registration",
      "eventDate": "2015-02-12T18:33:26Z",
      "eventActor": "Server Account"
    },
  ],
```

```
{
  "eventAction": "last changed",
  "eventDate": "2019-08-19T01:42:57Z",
  "eventActor": "Server Account"
},
{
  "eventAction": "last update of RDAP database",
  "eventDate": "2020-05-06T04:04:08Z"
}
],
"links": [
  {
    "title": "Authoritative Registry object record",
    "rel": "self",
    "href": "https://rdap.nic.example/entity/C12345678903",
    "type": "application/rdap+json"
  }
],
"status": [
  "ok"
]
},
{
  "objectClassName": "entity",
  "handle": "C1234567890",
  "vcardArray": [
    "vcard",
    [
      [
        "version",
        {
          "text": "4.0"
        }
      ],
      [
        "fn",
```



```
{
  },
  "text",
  "Registry Operator, LLC"
],
[
  "org",
  {
    },
    "text",
    "Registry Operator, LLC"
  ],
  [
    "adr",
    {
      },
      "text",
      [
        "",
        "",
        [
          "123 Some Street",
          "",
          ""
        ],
        ],
        "Sterling",
        "VA",
        "20166",
        ""
      ]
    ],
    [
      "ISO-3166-1-alpha-2",
      {
```

```
    },
    "text",
    "US"
  ],
  [
    "tel",
    {
      "type": "voice"
    },
    "uri",
    "tel:+1.123456789"
  ],
  [
    "email",
    {
    },
    "text",
    "support@domain.example"
  ]
]
],
"roles": [
  "technical"
],
"events": [
  {
    "eventAction": "registration",
    "eventDate": "2015-02-12T18:33:26Z",
    "eventActor": "Server Account"
  },
  {
    "eventAction": "last changed",
    "eventDate": "2019-08-19T01:42:57Z",
    "eventActor": "Server Account"
  },
  {
    "eventAction": "last update of RDAP database",
```

```
        "eventDate":"2020-05-06T04:04:08Z"
      }
    ],
    "links":[
      {
        "title":"Authoritative Registry object record",
        "rel":"self",
        "href":"https://rdap.nic.example/entity/C1234567890",
        "type":"application/rdap+json"
      }
    ],
    "status":[
      "ok"
    ]
  },
  {
    "objectClassName":"entity",
    "handle":"9999",
    "vcardArray":[
      "vcard",
      [
        [
          "version",
          {
            "text",
            "4.0"
          }
        ],
        [
          "fn",
          {
            "text",
            "Registry Operator."
          }
        ]
      ]
    ]
  }
]
```

```
    "adr",
    {
    },
    "text",
    [
      "",
      "",
      [
        "123 Some Street",
        "",
        ""
      ],
      "Sterling",
      "VA",
      "",
      ""
    ]
  ],
  [
    "ISO-3166-1-alpha-2",
    {
    },
    "text",
    "US"
  ],
  [
    "tel",
    {
      "type": "voice"
    },
    "uri",
    "tel:+1.1234567890"
  ],
  [
    "tel",
    {
```

```
        "type": "fax"
      },
      "uri",
      "tel:+1.1234567890"
    ],
    [
      "email",
      {
        "text",
        "support@domain.example"
      }
    ]
  ],
  "entities": [
    {
      "objectClassName": "entity",
      "vcardArray": [
        "vcard",
        [
          [
            "version",
            {
              "text",
              "4.0"
            }
          ],
          [
            "tel",
            {
              "type": "voice"
            }
          ],
          "uri",
          "tel:"
        ],
        [
```

```
        "email",
        {
            },
            "text",
            ""
        ]
    ]
],
"roles":[
    "abuse"
]
}
],
"roles":[
    "registrar"
],
"publicIds":[
    {
        "identifier":"9999",
        "type":"IANA Registrar ID"
    }
],
"events":[
    {
        "eventAction":"registration",
        "eventDate":"2013-07-12T01:15:04Z",
        "eventActor":"REGISTRY"
    },
    {
        "eventAction":"last update of RDAP database",
        "eventDate":"2020-05-06T04:04:08Z"
    }
],
"links":[
    {
        "title":"Authoritative Registry object record",
        "rel":"self",
```

```
        "href":"https://rdap.nic.example/entity/9999",
        "type":"application/rdap+json"
    }
]
},
"nameservers":[
    {
        "objectClassName":"nameserver",
        "handle":"H12345678901",
        "ldhName":"ns1.nameserver.example ",
        "status":[
            "ok"
        ],
        "events":[
            {
                "eventAction":"registration",
                "eventDate":"2016-07-21T09:48:25Z",
                "eventActor":"Registrar, Inc."
            },
            {
                "eventAction":"last update of RDAP database",
                "eventDate":"2020-05-06T04:04:08Z"
            }
        ],
        "links":[
            {
                "title":"Authoritative Registry object record",
                "rel":"self",
                "href":"https://rdap.nic.example/nameserver/ns1.nameserver.example",
                "type":"application/rdap+json"
            }
        ]
    },
    {
        "objectClassName":"nameserver",
        "handle":"H12345678902 ",
```

```
"ldhName": "ns2.nameserver.example",
"status": [
  "ok"
],
"events": [
  {
    "eventAction": "registration",
    "eventDate": "2016-07-21T09:48:24Z",
    "eventActor": "Registrar, Inc."
  },
  {
    "eventAction": "last update of RDAP database",
    "eventDate": "2020-05-06T04:04:08Z"
  }
],
"links": [
  {
    "title": "Authoritative Registry object record",
    "rel": "self",
    "href": "https://rdap.nic.example/nameserver/ns2.nameserver.example",
    "type": "application/rdap+json"
  }
],
"notices": [
  {
    "title": "Status Codes",
    "description": [
      "For more information on domain status codes, please visit"
      "https://icann.org/epp"
    ],
    "links": [
      {
        "rel": "alternate",
        "value": "https://icann.org/epp",
        "href": "https://icann.org/epp",

```



```
        "type":"text/html"
      }
    ]
  },
  {
    "title":"RDDS Inaccuracy Complaint Form",
    "description":[
      "URL of the ICANN RDDS Inaccuracy Complaint Form:
https://www.icann.org/wicf"
    ],
    "links":[
      {
        "rel":"alternate",
        "value":"https://www.icann.org/wicf",
        "href":"https://www.icann.org/wicf",
        "type":"text/html"
      }
    ]
  },
  {
    "title":"RDAP Terms of Service",
    "description":[
      "The RDAP Service"
    ],
    "links":[
      {
        "rel":"alternate",
        "value":"https://www.registry.example/rdap",
        "href":"https://www.registry.example/rdap",
        "type":"text/html"
      }
    ]
  }
],
"links":[
  {
    "title":"Authoritative Registry object record",
    "rel":"self",
```

```

        "href":"https://rdap.nic.example/domain/domain.example",
        "type":"application/rdap+json"
    }
]
}

```

3.1.2 domains?nsIp=XXXX

Response - authenticated response

```

{
  "rdapConformance":[
    "rdap_level_0",
    "icann_rdap_response_profile_0",
    "icann_rdap_technical_implementation_guide"
  ],
  "domainSearchResults":[
    {
      "objectClassName":"domain",
      "handle":"C1234567890",
      "ldhName":"domain.example",
      "status":[
        "server delete prohibited",
        "server transfer prohibited",
        "server update prohibited"
      ],
      "remarks":[
        {
          "title":"Data Policy",
          "type":"object truncated due to authorization",
          "description":[
            "Summary data only. For complete data, send a specific query
for the object."
          ]
        }
      ]
    }
  ],
}

```

```
"notices":[
  {
    "title":"RDAP Terms of Service",
    "description":[
      "The RDAP service"
    ],
    "links":[
      {
        "rel":"alternate",
        "value":"https://www.registry.example/rdap",
        "href":"https://www.registry.example/rdap",
        "type":"text/html"
      }
    ]
  },
  {
    "title":"Status Codes",
    "description":[
      "For more information on domain status codes, please visit
https://icann.org/epp"
    ],
    "links":[
      {
        "rel":"alternate",
        "value":"https://icann.org/epp",
        "href":"https://icann.org/epp",
        "type":"text/html"
      }
    ]
  },
  {
    "title":"Search Policy",
    "type":"Response truncated due to unexplainable reason",
    "description":[
      "Search results per query are limited."
    ]
  },
  {
```

```

    "title": "RDDS Inaccuracy Complaint Form",
    "description": [
      "URL of the ICANN RDDS Inaccuracy Complaint Form:
https://www.icann.org/wicf"
    ],
    "links": [
      {
        "rel": "alternate",
        "value": "https://www.icann.org/wicf",
        "href": "https://www.icann.org/wicf",
        "type": "text/html"
      }
    ]
  }
]
}

```

3.2 Contact

For Authenticated users, contact responses will be redacted; as contact data is provided in full in a domain response, individual contact queries are redundant.

Query	Description
entity/XXXX	Search for a contact with the provided ROID/handle
entities?handle=XXXX	Search for contacts that match the provided ROID/handle
entities?fn=XXXX	Search for contacts that contains the provided "FN" (Full Name)

3.2.1 entity/XXXX

Response - contact does not exist

```

{
  "rdapConformance": [
    "rdap_level_0",
    "icann_rdap_response_profile_0",
    "icann_rdap_technical_implementation_guide"
  ],
  "notices": [
    [TRUNCATED]
  ],
}

```

```
"lang": "en",
"errorCode": 404,
"title": "Not found",
"description": [
  "No data found"
]
}
```

Response - anonymous response

```
{
  "rdapConformance": [
    "rdap_level_0",
    "icann_rdap_response_profile_0",
    "icann_rdap_technical_implementation_guide"
  ],
  "objectClassName": "entity",
  "handle": "C1234567890",
  "version": "8",
  "notices": [
    {
      "title": "RDAP Terms of Service",
      "description": [
        "The RDAP service"
      ],
      "links": [
        {
          "rel": "alternate",
          "value": "https://www.registry.example/rdap",
          "href": "https://www.registry.example/rdap",
          "type": "text/html"
        }
      ]
    }
  ],
  "remarks": [
    {
      "title": "REDACTED FOR PRIVACY",
      "type": "object redacted due to authorization",
    }
  ]
}
```

```
    "description": [
      "Some of the data in this object has been removed"
    ],
    "links": [
      {
        "rel": "alternate",
        "value": "https://www.registry.example/rdap",
        "href": "https://www.registry.example/rdap",
        "type": "text/html"
      }
    ]
  },
  {
    "title": "EMAIL REDACTED FOR PRIVACY",
    "type": "object redacted due to authorization",
    "description": [
      "Please query the RDDS service of the Registrar of Record
      identified in this output for information on how to contact the Registrant of
      the queried domain name"
    ],
    "links": [
      {
        "rel": "alternate",
        "value": "https://www.registry.example/rdap",
        "href": "https://www.registry.example/rdap",
        "type": "text/html"
      }
    ]
  }
],
"events": [
  {
    "eventAction": "registration",
    "eventDate": "2015-02-12T18:33:26Z",
    "eventActor": "Server Account"
  },
  {
    "eventAction": "last changed",
```

```

        "eventDate": "2019-08-19T01:42:57Z",
        "eventActor": "Server Account"
    },
    {
        "eventAction": "last update of RDAP database",
        "eventDate": "2020-05-06T04:36:09Z"
    }
],
"links": [
    {
        "title": "Authoritative Registry object record",
        "rel": "self",
        "href": "https://rdap.nic.example/entity/C1234567890",
        "type": "application/rdap+json"
    }
],
"status": [
    "removed"
]
}

```

Response - authenticated response

```

{
  "rdapConformance": [
    "rdap_level_0",
    "icann_rdap_response_profile_0",
    "icann_rdap_technical_implementation_guide"
  ],
  "objectClassName": "entity",
  "handle": "C1234567890",
  "version": "8",
  "notices": [
    {
      "title": "RDAP Terms of Service",
      "description": [
        "The RDAP service"
      ],
    },
  ],
  "links": [

```

```
    {
      "rel": "alternate",
      "value": "https://www.registry.example/rdap",
      "href": "https://www.registry.example/rdap",
      "type": "text/html"
    }
  ]
}
],
"remarks": [
  {
    "title": "REDACTED FOR PRIVACY",
    "type": "object redacted due to authorization",
    "description": [
      "Some of the data in this object has been removed"
    ],
    "links": [
      {
        "rel": "alternate",
        "value": "https://www.registry.example/rdap",
        "href": "https://www.registry.example/rdap",
        "type": "text/html"
      }
    ]
  },
  {
    "title": "EMAIL REDACTED FOR PRIVACY",
    "type": "object redacted due to authorization",
    "description": [
      "Please query the RDDS service of the Registrar of Record
identified in this output for information on how to contact the Registrant of
the queried domain name"
    ],
    "links": [
      {
        "rel": "alternate",
        "value": "https://www.registry.example/rdap",
        "href": "https://www.registry.example/rdap",
```



```
        "type": "text/html"
      }
    ]
  }
],
"events": [
  {
    "eventAction": "registration",
    "eventDate": "2015-02-12T18:33:26Z",
    "eventActor": "Server Account"
  },
  {
    "eventAction": "last changed",
    "eventDate": "2019-08-19T01:42:57Z",
    "eventActor": "Server Account"
  },
  {
    "eventAction": "last update of RDAP database",
    "eventDate": "2020-05-06T04:40:06Z"
  }
],
"links": [
  {
    "title": "Authoritative Registry object record",
    "rel": "self",
    "href": "https://rdap.nic.example/entity/C1234567890",
    "type": "application/rdap+json"
  }
],
"status": [
  "removed"
]
}
```

3.2.2 entities?handle=XXXX

Response - no match

```
{
  "rdapConformance": [
    "rdap_level_0",
    "icann_rdap_response_profile_0",
    "icann_rdap_technical_implementation_guide"
  ],
  "notices": [
    [TRUNCATED]
  ],
  "lang": "en",
  "errorCode": 404,
  "title": "Not found",
  "description": [
    "No data found"
  ]
}
```

Response - authenticated response

```
{
  "rdapConformance": [
    "rdap_level_0",
    "icann_rdap_response_profile_0",
    "icann_rdap_technical_implementation_guide"
  ],
  "entitySearchResults": [
    {
      "objectClassName": "entity",
      "handle": "C1234567890",
      "remarks": [
        {
          "title": "Data Policy",
          "type": "object truncated due to authorization",
          "description": [

```

```

        "Summary data only. For complete data, send a specific query
for the object."
    ]
  }
]
},
"notices":[
  {
    "title":"RDAP Terms of Service",
    "description":[
      "The RDAP service"
    ],
    "links":[
      {
        "rel":"alternate",
        "value":"https://www.registry.example/rdap",
        "href":"https://www.registry.example/rdap",
        "type":"text/html"
      }
    ]
  },
  {
    "title":"Search Policy",
    "type":"Response truncated due to unexplainable reason",
    "description":[
      "Search results per query are limited."
    ]
  }
]
}

```

3.2.3 entities?fn=XXXX

Response - no match

```

{
  "rdapConformance": [

```

```

    "rdap_level_0",
    "icann_rdap_response_profile_0",
    "icann_rdap_technical_implementation_guide"
  ],
  "notices": [
    [TRUNCATED]
  ],
  "lang": "en",
  "errorCode": 404,
  "title": "Not found",
  "description": [
    "No data found"
  ]
}

```

Response - authenticated response

```

{
  "rdapConformance": [
    "rdap_level_0",
    "icann_rdap_response_profile_0",
    "icann_rdap_technical_implementation_guide"
  ],
  "entitySearchResults": [
    {
      "objectClassName": "entity",
      "handle": "C1234567890",
      "remarks": [
        {
          "title": "Data Policy",
          "type": "object truncated due to authorization",
          "description": [
            "Summary data only. For complete data, send a specific query
for the object."
          ]
        }
      ]
    }
  ]
},

```

```
{
  "objectClassName": "entity",
  "handle": "12345678901-NSR",
  "remarks": [
    {
      "title": "Data Policy",
      "type": "object truncated due to authorization",
      "description": [
        "Summary data only. For complete data, send a specific query
for the object."
      ]
    }
  ]
},
{
  "objectClassName": "entity",
  "handle": "C12345678902",
  "remarks": [
    {
      "title": "Data Policy",
      "type": "object truncated due to authorization",
      "description": [
        "Summary data only. For complete data, send a specific query
for the object."
      ]
    }
  ]
},
],
"notices": [
  {
    "title": "RDAP Terms of Service",
    "description": [
      "The RDAP service"
    ],
    "links": [
      {
        "rel": "alternate",
        "value": "https://www.registry.example/rdap",
```

```

        "href": "https://www.registry.example/rdap",
        "type": "text/html"
    }
]
},
{
    "title": "Search Policy",
    "type": "Response truncated due to unexplainable reason",
    "description": [
        "Search results per query are limited."
    ]
}
]
}
}

```

3.3 Name Server

Query	Description
nameservers?name=XXXX	Search for hosts that match the hostname provided
nameservers?ip=XXXX	Search for hosts that contains the IP address provided

3.3.1 nameservers?name=XXXX

Response - host does not exist

```

{
  "rdapConformance": [
    "rdap_level_0",
    "icann_rdap_response_profile_0",
    "icann_rdap_technical_implementation_guide"
  ],
  "notices": [
    [TRUNCATED]
  ],
  "lang": "en",
  "errorCode": 404,
  "title": "Not found",

```

```

"description": [
  "No data found"
]
}

```

Response - authenticated response

```

{
  "rdapConformance":[
    "rdap_level_0",
    "icann_rdap_response_profile_0",
    "icann_rdap_technical_implementation_guide"
  ],
  "nameserverSearchResults":[
    {
      "objectClassName":"nameserver",
      "handle":"H1234567890",
      "ldhName":"ns1.nameserver.example",
      "status":[
        "ok"
      ],
      "ipAddresses":{
        "v6":[
          "2001:2001:2001::2001"
        ],
        "v4":[
          "204.145.98.135"
        ]
      },
      "remarks":[
        {
          "title":"Data Policy",
          "type":"object truncated due to authorization",
          "description":[
            "Summary data only. For complete data, send a specific query
for the object."
          ]
        }
      ]
    }
  ]
}

```

```

    }
  ],
  "notices": [
    {
      "title": "RDAP Terms of Service",
      "description": [
        "The RDAP service"
      ],
      "links": [
        {
          "rel": "alternate",
          "value": "https://www.registry.example/rdap",
          "href": "https://www.registry.example/rdap",
          "type": "text/html"
        }
      ]
    },
    {
      "title": "Search Policy",
      "type": "Response truncated due to unexplainable reason",
      "description": [
        "Search results per query are limited."
      ]
    }
  ]
}

```

3.3.2 nameservers?ip=XXXX

Response - no match

```

{
  "rdapConformance": [
    "rdap_level_0",
    "icann_rdap_response_profile_0",
    "icann_rdap_technical_implementation_guide"
  ],
  "notices": [

```



```
[TRUNCATED]
],
"lang": "en",
"errorCode": 404,
"title": "Not found",
"description": [
  "No data found"
]
}
```

Response - host exists

```
{
  "rdapConformance": [
    "rdap_level_0",
    "icann_rdap_response_profile_0",
    "icann_rdap_technical_implementation_guide"
  ],
  "nameserverSearchResults": [
    {
      "objectClassName": "nameserver",
      "handle": "H1234567890",
      "ldhName": "ns1.nameserver.example",
      "status": [
        "ok"
      ],
      "ipAddresses": {
        "v6": [
          "2001:2001:2001::2001"
        ],
        "v4": [
          "199.71.58.123"
        ]
      },
      "remarks": [
        {
          "title": "Data Policy",

```

```
        "type": "object truncated due to authorization",
        "description": [
            "Summary data only. For complete data, send a specific query
for the object."
        ]
    }
]
},
"notices": [
    {
        "title": "RDAP Terms of Service",
        "description": [
            "The RDAP service"
        ],
        "links": [
            {
                "rel": "alternate",
                "value": "https://www.registry.example/rdap",
                "href": "https://www.registry.example/rdap",
                "type": "text/html"
            }
        ]
    },
    {
        "title": "Search Policy",
        "type": "Response truncated due to unexplainable reason",
        "description": [
            "Search results per query are limited."
        ]
    }
]
}
```

3.4 Registrar

Query	Description
entities?fn=XXXX	Search for a Registrar with the Full Name provided
entity/XXXX	Search for a Registrar with the IANA ID provided

3.4.1 entities?fn=XXXX

Response – Registrar does not exist

```
{
  "rdapConformance": [
    "rdap_level_0",
    "icann_rdap_response_profile_0",
    "icann_rdap_technical_implementation_guide"
  ],
  "notices": [
    [TRUNCATED]
  ],
  "lang": "en",
  "errorCode": 404,
  "title": "Not found",
  "description": [
    "No data found"
  ]
}
```

Response – anonymous and authenticated response

```
{
  "rdapConformance": [
    "rdap_level_0",
    "icann_rdap_response_profile_0",
    "icann_rdap_technical_implementation_guide"
  ],
  "entitySearchResults": [
    {
      "handle": "1234567890",

```

```
"vcardArray": [
  "vcard",
  [
    [
      "version",
      {
      },
      "text",
      "4.0"
    ],
    [
      "fn",
      {
      },
      "text",
      "Registrar Inc"
    ],
    [
      "adr",
      {
      },
      "text",
      [
        "",
        "",
        [
          "123 Some Street",
          "",
          ""
        ],
        ],
      "Melbourne",
      "Victoria",
      "3004",
      ""
    ]
  ]
]
```

```
    ],
    [
      "ISO-3166-1-alpha-2",
      {
      },
      "text",
      "AU"
    ],
    [
      "tel",
      {
        "type": "voice"
      },
      "uri",
      "tel:+61.1234567890"
    ],
    [
      "email",
      {
      },
      "text",
      "support@domain.example"
    ]
  ],
  "entities": [
    {
      "objectClassName": "entity",
      "vcardArray": [
        "vcard",
        [
          [
            "version",
            {
            },
          ],
        ]
      ]
    }
  ]
}
```

```
        "text",
        "4.0"
      ],
      [
        "tel",
        {
          "type": "voice"
        },
        "uri",
        "tel:+61.1234567890"
      ],
      [
        "email",
        {
        },
        "text",
        "support@domain.example"
      ]
    ]
  ],
  "roles": [
    "abuse"
  ]
},
"roles": [
  "registrar"
],
"publicIds": [
  {
    "identifier": "1234567890",
    "type": "IANA Registrar ID"
  }
],
"events": [
  {
    "eventAction": "registration",
```

```
        "eventDate":"2013-09-11T22:18:17Z",
        "eventActor":"REGISTRY"
    },
    {
        "eventAction":"last changed",
        "eventDate":"2018-09-07T19:44:22Z",
        "eventActor":"REGISTRY"
    },
    {
        "eventAction":"last update of RDAP database",
        "eventDate":"2020-05-06T05:17:19Z"
    }
]
}
],
"notices":[
    {
        "title":"RDAP Terms of Service",
        "description":[
            "The RDAP service"
        ],
        "links":[
            {
                "rel":"alternate",
                "value":"https://www.registry.example/rdap",
                "href":"https://www.registry.example/rdap",
                "type":"text/html"
            }
        ]
    },
    {
        "title":"Search Policy",
        "type":"Response truncated due to unexplainable reason",
        "description":[
            "Search results per query are limited."
        ]
    }
]
]
```

```
}

```

3.4.2 entity/XXXX

Response - Registrar does not exist

```
{
  "rdapConformance": [
    "rdap_level_0",
    "icann_rdap_response_profile_0",
    "icann_rdap_technical_implementation_guide"
  ],
  "notices": [
    [TRUNCATED]
  ],
  "lang": "en",
  "errorCode": 404,
  "title": "Not found",
  "description": [
    "No data found"
  ]
}
```

Response - anonymous and authenticated response

```
{
  "rdapConformance": [
    "rdap_level_0",
    "icann_rdap_response_profile_0",
    "icann_rdap_technical_implementation_guide"
  ],
  "objectClassName": "entity",
  "handle": "146",
  "vcardArray": [
    "vcard",
    [
      [

```



```
    "version",
    {

    },
    "text",
    "4.0"
  ],
  [
    "fn",
    {

    },
    "text",
    "Registrar"
  ],
  [
    "adr",
    {

    },
    "text",
    [
      "",
      "",
      [
        "123 Some Street",
        "",
        ""
      ],
      "Melbourne",
      "Victoria",
      "3004",
      ""
    ]
  ],
  [
    "ISO-3166-1-alpha-2",
    {
```

```
    },
    "text",
    "AU"
  ],
  [
    "tel",
    {
      "type": "voice"
    },
    "uri",
    "tel:+61.1234567890"
  ],
  [
    "tel",
    {
      "type": "fax"
    },
    "uri",
    "tel:+61.1234567890"
  ],
  [
    "email",
    {
      "text",
      "support@domain.example"
    }
  ]
],
"roles": [
  "registrar"
],
"publicIds": [
  {
    "identifier": "1234567890",
    "type": "IANA Registrar ID"
  }
]
```

```
    }
  ],
  "notices": [
    {
      "title": "RDAP Terms of Service",
      "description": [
        "The RDAP service"
      ],
      "links": [
        {
          "rel": "alternate",
          "value": "https://www.registry.example/rdap",
          "href": "https://www.registry.example/rdap",
          "type": "text/html"
        }
      ]
    }
  ],
  "events": [
    {
      "eventAction": "registration",
      "eventDate": "2001-09-30T16:26:03Z",
      "eventActor": "REGISTRY"
    },
    {
      "eventAction": "last changed",
      "eventDate": "2020-03-02T23:43:29Z",
      "eventActor": "REGISTRY"
    },
    {
      "eventAction": "last update of RDAP database",
      "eventDate": "2020-05-06T05:14:37Z"
    }
  ],
  "links": [
    {
      "title": "Authoritative Registry object record",
      "rel": "self",
```

```
    "href": "https://rdap.nic.example/entity/1234567890",  
    "type": "application/rdap+json"  
  }  
]  
}
```

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