

# Package ‘Rrdap’

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**Title** RDAP Server Querying

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**Description** Queries data from RDAP servers.

**Imports** curl, rjson, stringr, utils

**License** MIT + file LICENSE

**NeedsCompilation** no

**Repository** CRAN

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Rrdap	<i>RDAP server querying</i>
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### Description

Queries RDAP servers

### Usage

```
rdap_query(entities, rdap_uri="https://rdap-bootstrap.arin.net/bootstrap/",  
           query_entity=FALSE, debug=FALSE)
```

```
rdap_keyextract(query_ret, key)
```

```
rdap_keynames(query_ret)

rdap_extract_df(query_ret, sub_name)

rdap_keyval_extract(query_ret, keys, blacklist_values=NULL, unlist.recursive=TRUE)
```

### Arguments

<code>entities</code>	Entity (or entities as vector) to query RDAP for. Can IP addresses, domains, or a mix of the two.
<code>rdap_uri</code>	RDAP URI to use as the search base. This should not need to be anything other than the default bootstrap URI unless you really want to do something specific.
<code>query_entity</code>	Manually override what type of entity is being queried. Not recommended.
<code>query_ret</code>	Data structure that was returned from <code>rdap_query()</code>
<code>sub_name</code>	Name of sub-table to return as a flat list
<code>key</code>	Single string, case-sensitive, of what key to look to return back values from the RDAP return
<code>keys</code>	Single string or vector of strings, case-insensitive, of what keys to look for in-order to return back values of from the RDAP return
<code>debug</code>	Boolean if you want debug prints (good for large quantities of manual data)
<code>blacklist_values</code>	Character or vector of values (or starting values) to skip when searching
<code>unlist.recursive</code>	Boolean if you want the unlist at the end to pass recursively

### Value

`rdap_query()` returns a large `JSON data.frame()` `rdap_extract_df()` returns a `data.frame` `rdap_keyextract()` returns a vector `rdap_keynames()` returns a vector `rdap_keyval_extract()` returns a vector

### Author(s)

Brad Cable

### Examples

```
# Grab RDAP data for a domain
rdap_query("bcable.net")

# Grab RDAP data for an IP
rdap_query("1.1.1.1")

# Grab RDAP data for a domain from a specific RDAP provider
rdap_query("bcable.net", rdap_uri="https://rdap.verisign.com/net/v1/")

# Grab multiple mixed vectorized results
hosts_ips <- c("1.0.0.1", "bcable.net")
rdap_data <- rdap_query(hosts_ips)
```

```
rdap_data

# Extract Country Info About Domains
countries <- rdap_keyextract(rdap_data, "country")

# Get list of available attribute names for each entry
rdap_keynames(rdap_data)

# Get more traditional WHOIS style registration data
entity_data <- rdap_extract_df(rdap_data, "entities")

# Grab default role reported
rdap_keyval_extract(entity_data, "roles")
```

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