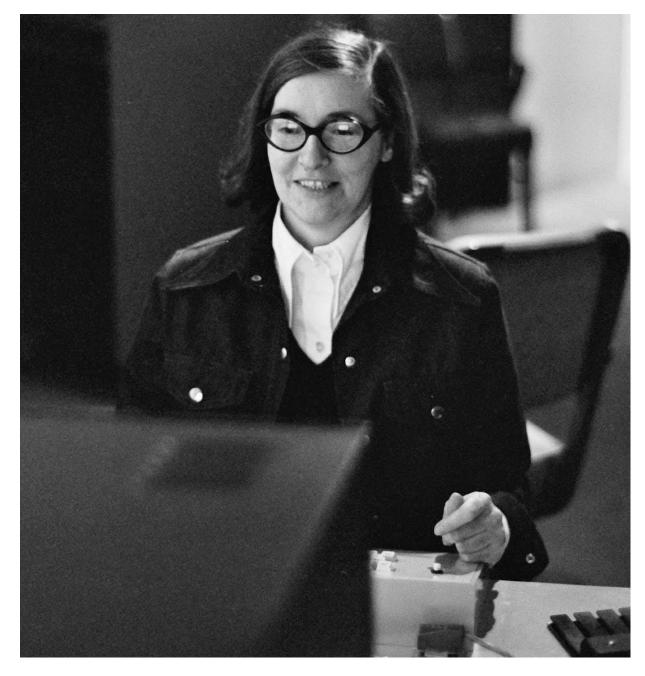
From Whois to RDAP

David Huberman 2 June 2025











```
> finger alex
Login: alex
Directory: /home/alex
Office: 98, 84893202
On since Wed Aug 21 18:38 (UTC) on pts/2 from 192.168.64.1
25 seconds idle
No mail.
No Plan.
>
```

Ken Harrenstien
Vic White
Network Information Center
SRI International

RFC-812 1 March 1982

NICNAME/WHOIS

INTRODUCTION

The NICNAME/WHOIS Server is an NCP/TCP transaction based query/response server, running on the SRI-NIC machine, that provides netwide directory service to ARPANET users. It is one of a series of ARPANET/Internet name services maintained by the Network Information Center (NIC) at SRI International on behalf of the Defense Communications Agency (DCA). The server is accessible across the ARPANET from user programs running on local hosts, and it delivers the full name, U.S. mailing address, telephone number, and network mailbox for ARPANET users.

This server, together with the corresponding Identification Data Base provides online directory look-up equivalent to the ARPANET Directory. DCA strongly encourages network hosts to provide their users with access to this network service.

WHO SHOULD BE IN THE DATA BASE

DCA requests that each individual with a directory on an ARPANET host, who is capable of passing traffic across the ARPANET, be registered in the NIC Identification Data Base. To register, send full name, middle initial, U.S. mailing address (including mail stop and full explanation of abbreviations and acronyms), ZIP code, telephone (including Autovon and FTS, if available), and one network mailbox, via electronic mail to NIC@SRI-NIC.

Network Working Group Request for Comments: 954

Obsoletes: RFC <u>812</u>

K. Harrenstien (SRI)
 M. Stahl (SRI)
 E. Feinler (SRI)
 October 1985

NICNAME/WHOIS

STATUS OF THIS MEMO

This RFC is the official specification of the NICNAME/WHOIS protocol. This memo describes the protocol and the service. This is an update of RFC 812. Distribution of this memo is unlimited.

INTRODUCTION

The NICNAME/WHOIS Server is a TCP transaction based query/response server, running on the SRI-NIC machine (26.0.0.73 or 10.0.0.51), that provides netwide directory service to internet users. It is one of a series of internet name services maintained by the DDN Network Information Center (NIC) at SRI International on behalf of the Defense Communications Agency (DCA). The server is accessible across the Internet from user programs running on local hosts, and it delivers the full name, U.S. mailing address, telephone number, and network mailbox for DDN users who are registered in the NIC database.

This server, together with the corresponding WHOIS Database can also deliver online look-up of individuals or their online mailboxes, network organizations, DDN nodes and associated hosts, and TAC telephone numbers. The service is designed to be user-friendly and the information is delivered in human-readable format. DCA strongly encourages network hosts to provide their users with access to this network service.

```
WHOIS Server: whois.launchpad.com
Domain Name: LISTOFFREEWARE.COM
Registry Domain ID:
Registrar WHOIS Server: whois.launchpad.com
Registrar URL: LaunchPad.com
Updated Date: 23-Dec-2013
Creation Date: 23-Oct-2013
Registrar Registration Expiration Date: 23-Oct-2016
Registrar: Launchpad, Inc. (HostGator)
Registrar IANA ID: 955
Registrar Abuse Contact Email: abuse@websitewelcome
Registrar Abuse Contact Phone: +1.713-574-5287
Domain Status: clientTransferProhibited
Registry Registrant ID: HG_25956450
Registrant Name: Ishan Bansal
Registrant Organization: N/A
Registrant Street: 543 Sector 31
```

```
DAHU-9214:~ david.huberman$ whois -h whois.ripe.net 80.10.159.0
inetnum:
                80.10.159.0 - 80.10.159.255
                ORANGE-FR
netname:
descr:
                Orange
country:
                FR
admin-c:
                AR10027-RIPE
tech-c:
                ER1049-RIPE
status:
                ASSIGNED PA
remarks:
                for security problems, send mail to abuse.mobile@orange.fr
mnt-by:
                FT-BRX
                2012-07-03T09:14:57Z
created:
last-modified: 2012-09-18T08:35:03Z
                RIPE
source:
role:
                Architectes Reseau
address:
               ORANGE FRANCE
address:
                1 avenue Nelson Mandela, 94745 Arcueil Cedex
admin-c:
               BRX1-RIPE
tech-c:
               BRX1-RIPE
nic-hdl:
                AR10027-RIPE
mnt-by:
                FT-BRX
                2011-09-21T13:44:11Z
created:
last-modified: 2025-04-29T09:34:23Z
                RIPE # Filtered
source:
                EXPERT Reseau
role:
address:
               ORANGEFRANCE
address:
                1 avenue Nelson Mandela, 94745 Arcueil Cedex
admin-c:
                BRX1-RIPE
tech-c:
                BRX1-RIPE
nic-hdl:
                ER1049-RIPE
mnt-by:
                FT-BRX
created:
                2005-01-05T15:06:21Z
last-modified:
               2025-05-06T13:55:56Z
                RIPE # Filtered
source:
```

```
last-modified: 2018-11-22T15:27:31Z
                RIPE
source:
% Information related to 'AS28708'
% Abuse contact for 'AS28708' is 'gestionip.ft@orange.com'
                AS28708
aut-num:
                ORANGEFR-PORTAL-AS
as-name:
                DSI mutualized internet access
descr:
                from AS3215 action pref=100; accept any
import:
                from AS5511 action pref=100; accept any
import:
                to AS3215 announce AS28708
export:
                to AS5511 announce AS28708
export:
                ORG-FT2-RIPE
org:
admin-c:
                FTDD1-RIPE
                FTDD1-RIPE
tech-c:
                ASSIGNED
status:
mnt-by:
                RIPE-NCC-END-MNT
mnt-by:
                FT-BRX
created:
                2003-02-05T09:08:42Z
last-modified: 2017-11-15T09:20:33Z
                RIPE
source:
organisation:
                ORG-FT2-RIPE
                Orange S.A.
org-name:
country:
                FR
```







STD 95

Status

History

STD 95 consists of:

RFC 7480 : HTTP Usage in the Registration Data Access Protocol (RDAP)

RFC 7481: Security Services for the Registration Data Access Protocol (RDAP)

RFC 9082: Registration Data Access Protocol (RDAP) Query Format

RFC 9083: JSON Responses for the Registration Data Access Protocol (RDAP)

RFC 9224: Finding the Authoritative Registration Data Access Protocol (RDAP) Service

← References

→ Referenced by

Benefits of RDAP

Structured queries

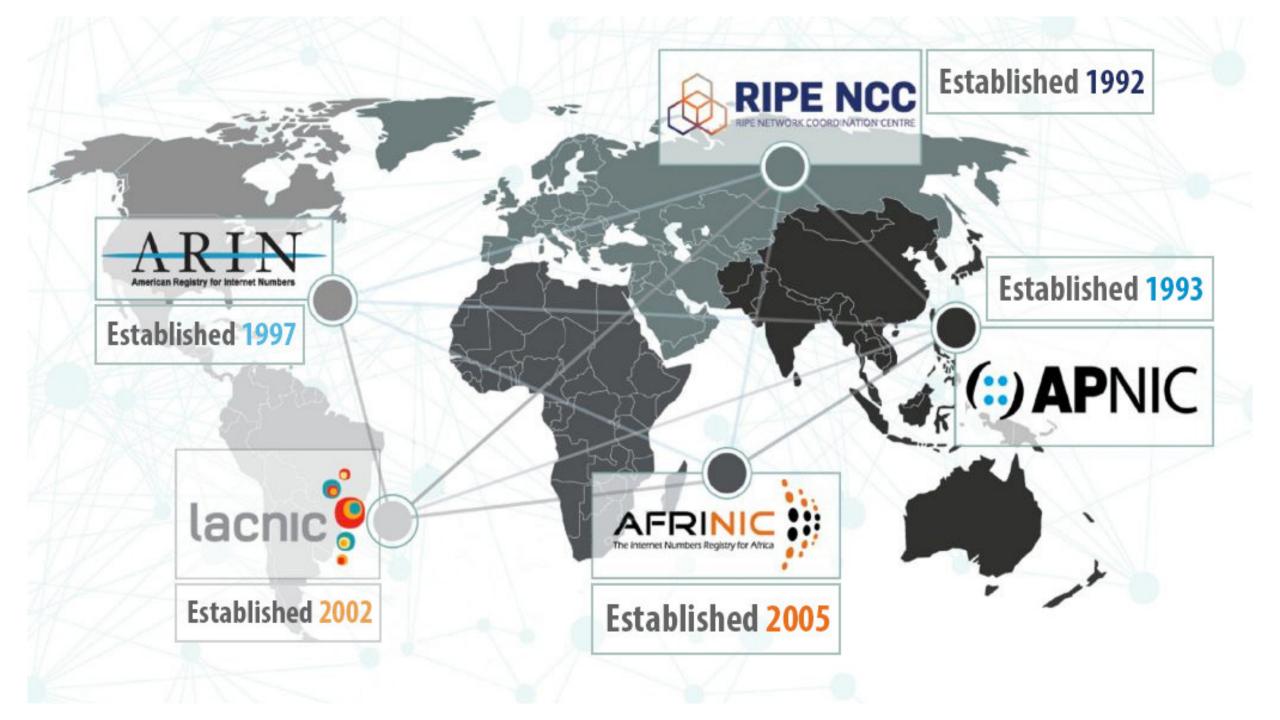
Structured responses

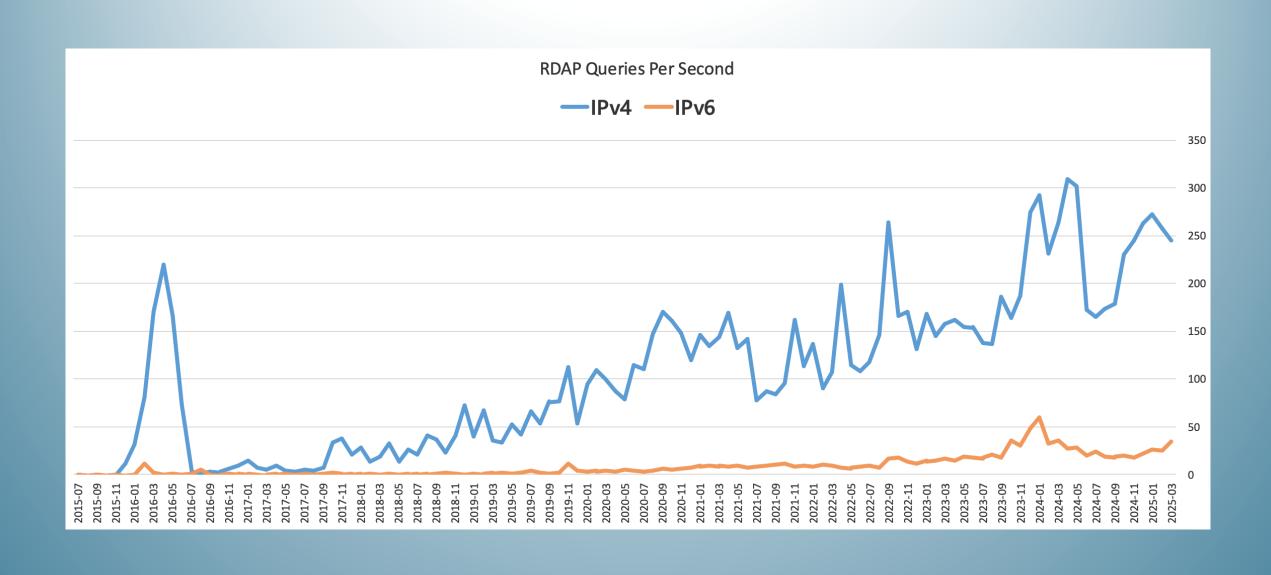
Internationalization

Transport security

Authoritative servers

Extensibility

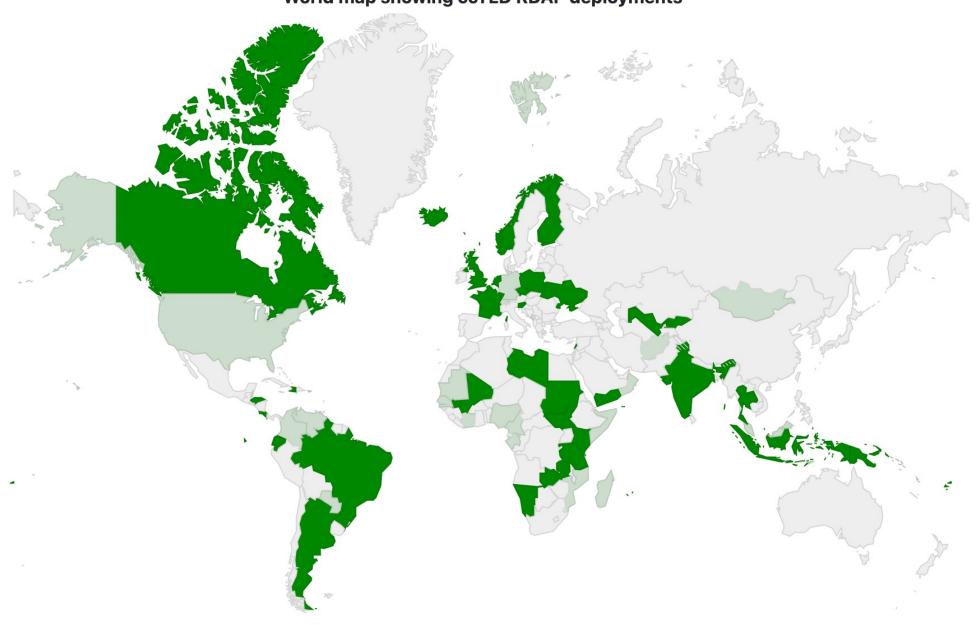








World map showing ccTLD RDAP deployments



85%

- **4.** Client Implementations
 - **4.1.** Web Applications
 - **4.2.** Mobile Applications
 - **4.3.** CLI Applications
 - **4.4.** Libraries
- **5.** Server Implementations
 - **5.1.** Authoritative Servers
 - **5.2.** Redirect Servers
 - **5.3.** Conformance Tools

There are many implementations of RDAP clients and servers.

Many are cataloged at https://rdap.rcode3.com

- 40+ client implementations
- 15+ server implementations
- 5+ conformance tools

Domain icann.org

Summary	Domain icann.org 299 (Registrar) Abuse Registrant Administrative Technical Nameserver a.icann-servers.net Nameserver b.icann-servers.net Nameserver b.icann-servers.net
Identifiers	
Unicode Name	icann.org 5e5713d70b4741719cf114bec5c7a6d8-LROR
Information	
Status Whois	Server Delete Prohibited Server Update Prohibited Server Transfer Prohibited Client Transfer Prohibited
Events	
Expiration	Thu, 21-Sep-2023 12:41:04 +00:00 Thu, 7-Dec-2028 17:04:26 +00:00 Mon, 10-Feb-2025 10:51:36 +00:00

DNSSEC Information

Zone Signed Delegation Signed Max Sig Life

DS Data (0)

Key Tag Algorithm Digest Digest Type

Digest Type

Algorithm Digest Type

New Tag Algorithm Digest Type

Algorithm Digest Type

New Tag Algorithm Digest Type

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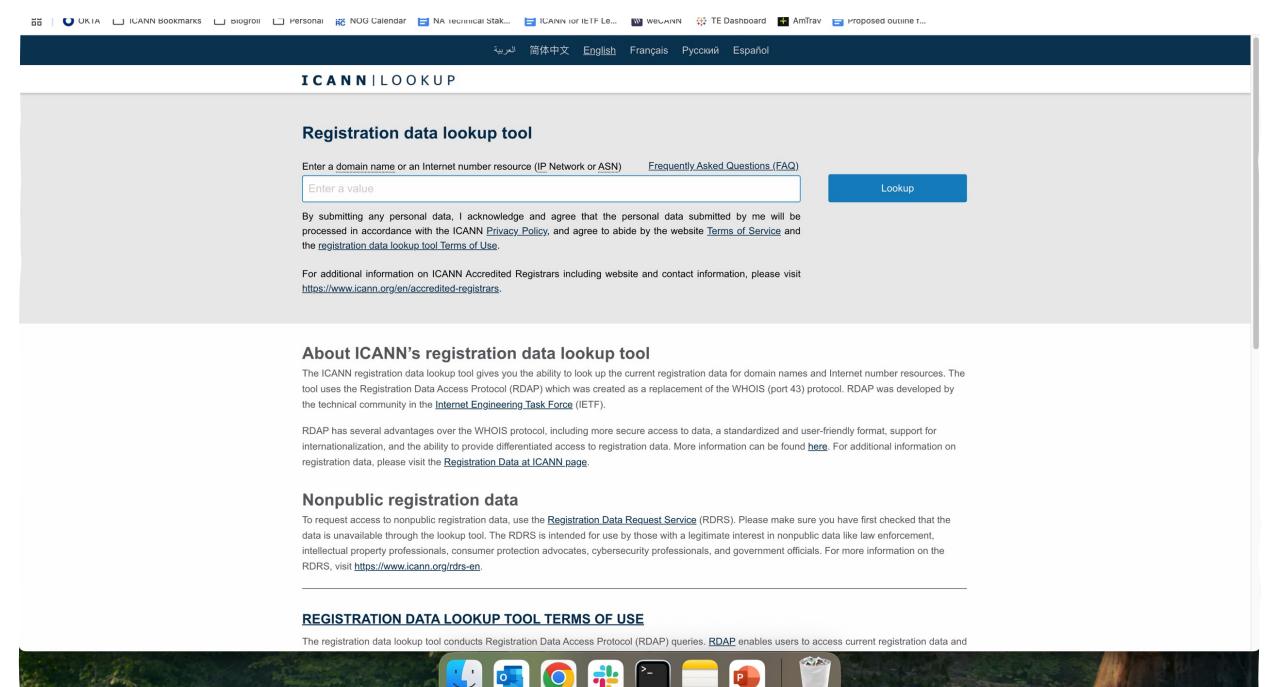
2014

ICANN actively updates and maintains an open-source, RDAP client for the command line.

https://github.com/icann/icann-rdap

If you have HomeBrew installed (macOS, Linux, WSL):

brew install icann-rdap



RDAP Conformance Tool (RDAPCT)

- ICANN actively maintains the RDAP
 Conformance Tool to help contracted
 parties with their compliance with STD
 95 and the gTLD profile.
- Can be run locally or web browser.
- Download local version from GitHub: <u>https://github.com/icann/rdap-</u> conformance-tool
- Requires either Java or Docker
- Web browser version is at https://webrdapct.icann.org
- Runs in ICANN's network

gTLD RDAP Queries Rising

