



# IANA Update

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# IANA Update

- ⦿ Registry Update – RDAP Servers
- ⦿ IPv4 Recovered Pool Allocation
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# Registry Update – RDAP Servers

## IANA IPv4 Address Space Registry

### Last Updated

2015-08-10

### Registration Procedure(s)

Allocations to RIRs are made in line with the Global Policy published at [<http://www.icann.org/en/resources/policy/global-address>]  
All other assignments require IETF Review.

### Description

The allocation of Internet Protocol version 4 (IPv4) address space to various registries is listed here. Originally, all the IPv4 address spaces was managed directly by the IANA. Later parts of the address space were allocated to various other registries to manage for particular purposes or regional areas of the world. RFC 1466 [[RFC1466](#)] documents most of these allocations.

### Reference

[[RFC7249](#)]

### Available Formats



Prefix	Designation	Date	WHOIS	RDAP	Status [1]	Note
000/8	IANA - Local Identification	1981-09			RESERVED	[2]
001/8	APNIC	2010-01	whois.apnic.net	<a href="https://rdap.apnic.net/">https://rdap.apnic.net/</a>	ALLOCATED	
002/8	RIPE NCC	2009-09	whois.ripe.net	<a href="https://rdap.db.ripe.net/">https://rdap.db.ripe.net/</a>	ALLOCATED	
003/8	General Electric Company	1994-05	whois.arin.net	<a href="https://rdap.arin.net/registry">https://rdap.arin.net/registry</a> <a href="http://rdap.arin.net/registry">http://rdap.arin.net/registry</a>	LEGACY	
004/8	Level 3 Communications, Inc.	1992-12	whois.arin.net	<a href="https://rdap.arin.net/registry">https://rdap.arin.net/registry</a> <a href="http://rdap.arin.net/registry">http://rdap.arin.net/registry</a>	LEGACY	
005/8	RIPE NCC	2010-11	whois.ripe.net	<a href="https://rdap.db.ripe.net/">https://rdap.db.ripe.net/</a>	ALLOCATED	
006/8	Army Information Systems Center	1994-02	whois.arin.net	<a href="https://rdap.arin.net/registry">https://rdap.arin.net/registry</a> <a href="http://rdap.arin.net/registry">http://rdap.arin.net/registry</a>	LEGACY	
007/8	Administered by ARIN	1995-04	whois.arin.net	<a href="https://rdap.arin.net/registry">https://rdap.arin.net/registry</a> <a href="http://rdap.arin.net/registry">http://rdap.arin.net/registry</a>	LEGACY	
008/8	Level 3 Communications, Inc.	1992-12	whois.arin.net	<a href="https://rdap.arin.net/registry">https://rdap.arin.net/registry</a> <a href="http://rdap.arin.net/registry">http://rdap.arin.net/registry</a>	LEGACY	

# Registry Update – RDAP Servers

# APNIC



Your IP address:  
2620:0:2d0:110:a42d:e431:6f53:e64a

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## About



### ▼ Whois search

#### ▼ About Whois

##### • What's inside

##### • **Alternative protocol (RDAP)**

##### ▶ Using Whois

##### ▶ Learning Whois

##### ▶ Search

##### ▶ Privacy

##### ▶ RSS

##### ▶ A-Z Glossary

##### ▶ Site Map

## Registration Data Access Protocol



The Registration Data Access Protocol (RDAP) is an alternative to WHOIS for accessing Internet resource registration data. RDAP is designed to address a number of shortcomings in the existing Whois service. The most important changes are:

- Standardization of queries and responses
- Internationalization considerations to cater for languages other than English in data objects
- Redirection capabilities to allow seamless referrals to other registries

Read more about the origin and reasons behind this work and the history of Whois in the APNIC News article, "[The Future of Whois](#)", May 2012.

## Using RDAP

APNIC has an RDAP service available on the [rdap.apnic.net](http://rdap.apnic.net) host. An example response can be found at:

<http://rdap.apnic.net/ip/2001:dc0:2001:11::194>



# IPv4 Recovered Pool Allocations

## ALLOCATION FROM RECOVERED POLL

- ⦿ 1 September 2015: Each RIR received the **equivalent of a /14**
- ⦿ Next allocation will take place 1 March 2016
- ⦿ Registry: <http://www.iana.org/assignments/ipv4-recovered-address-space>
- ⦿ Allocation tool:  
<https://github.com/icann/ipv4-recovery-algorithm>
- ⦿ Global policy:  
<https://www.icann.org/resources/pages/allocation-ipv4-post-exhaustion-2012-05-08-en>

# IPv4 Recovered Pool Allocations

## Allocations made from the Current Recovered IPv4 Pool

### Registration Procedure(s)

Global Policy for Post Exhaustion IPv4 Allocation Mechanisms by the IANA (Ratified 6 May 2012)

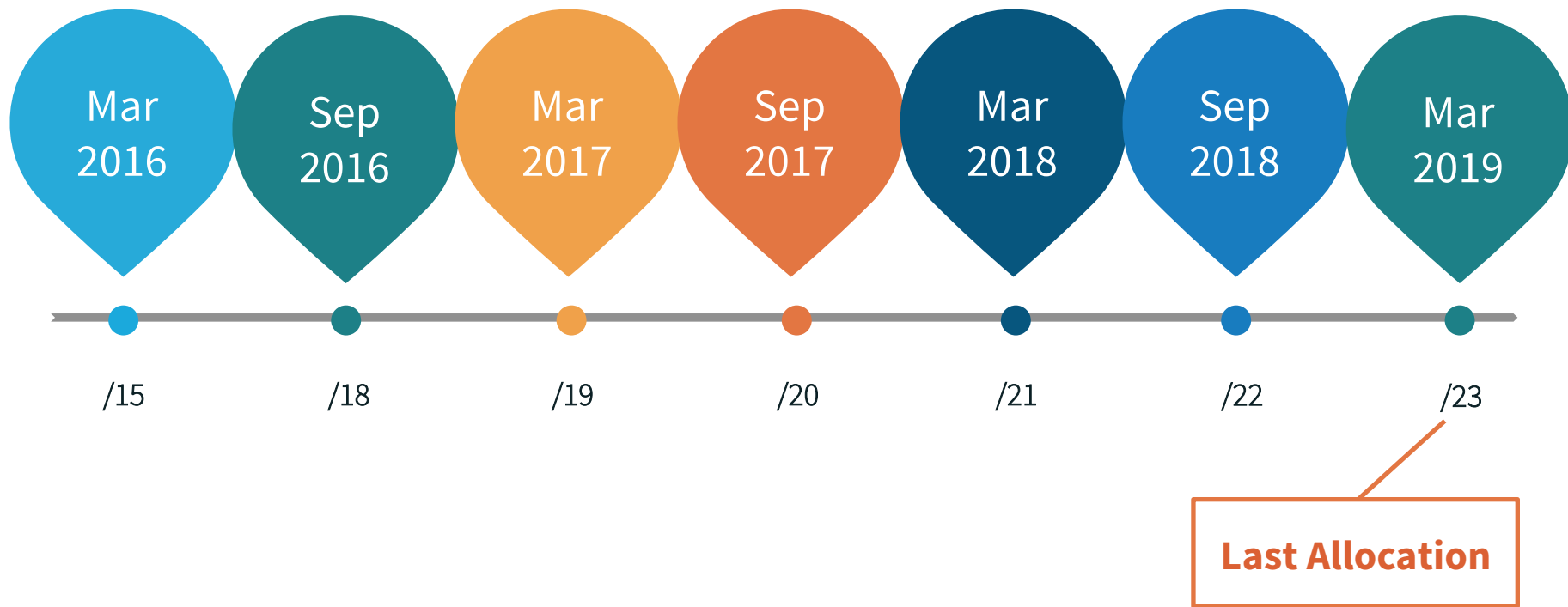
### Available Formats



CSV

Start address	End address	Designation	Date	Whois	Status	Note
43.224.0.0	43.231.255.255	APNIC	2014-05	whois.apnic.net	ALLOCATED	
43.236.0.0	43.243.255.255	APNIC	2014-05	whois.apnic.net	ALLOCATED	
43.245.0.0	43.252.255.255	APNIC	2014-05	whois.apnic.net	ALLOCATED	
43.254.0.0	43.255.255.255	APNIC	2014-05	whois.apnic.net	ALLOCATED	
45.2.0.0	45.3.255.255	ARIN	2015-09	whois.arin.net	ALLOCATED	
45.4.0.0	45.7.255.255	LACNIC	2015-03	whois.lacnic.net	ALLOCATED	
45.8.0.0	45.15.255.255	RIPE NCC	2015-03	whois.ripe.net	ALLOCATED	
45.16.0.0	45.31.255.255	ARIN	2014-09	whois.arin.net	ALLOCATED	
45.32.0.0	45.63.255.255	ARIN	2014-05	whois.arin.net	ALLOCATED	
45.64.0.0	45.65.15.255	APNIC	2014-05	whois.apnic.net	ALLOCATED	
45.66.0.0	45.67.255.255	RIPE NCC	2015-09	whois.ripe.net	ALLOCATED	
45.68.0.0	45.71.255.255	LACNIC	2015-03	whois.lacnic.net	ALLOCATED	
45.72.0.0	45.79.255.255	ARIN	2015-03	whois.arin.net	ALLOCATED	
45.80.0.0	45.95.255.255	RIPE NCC	2014-09	whois.ripe.net	ALLOCATED	
45.96.0.0	45.111.255.255	AFRINIC	2014-09	whois.afrinic.net	ALLOCATED	
45.112.0.0	45.127.255.255	APNIC	2014-09	whois.apnic.net	ALLOCATED	
45.128.0.0	45.159.255.255	RIPE NCC	2014-05	whois.ripe.net	ALLOCATED	
45.160.0.0	45.191.255.255	LACNIC	2014-05	whois.lacnic.net	ALLOCATED	
45.192.0.0	45.222.255.255	AFRINIC	2014-05	whois.afrinic.net	ALLOCATED	
45.224.0.0	45.239.255.255	LACNIC	2014-09	whois.lacnic.net	ALLOCATED	

# IPv4 Recovered Pool Allocations



If we do not receive additional returned addresses, the last allocation from the recovered pool will take place in **March 2019**. After that, the recipient size would not be large enough to satisfy the global policy minimum.

## NOTIFICATION OF UPCOMING CERTIFICATE CHANGE

- ⦿ The ICANN RDNS CA expires on **13 March 2016**
- ⦿ Consulted with RIRs and received their agreement to the proposed schedule
- ⦿ Next step: We will ask the RIRs to submit new CSRs at the end of September
- ⦿ Rollover scheduled for **12 November 2015**



# Announce Upcoming Root Server Change

NOTIFICATION OF UPCOMING Change of IP Address of H root server

- ⦿ New IPv4 address: 198.97.190.53
- ⦿ New IPv6 address: 2001:500:1::53
- ⦿ Change will be implemented on **1 December 2015**
- ⦿ New hints files will be available at the following:  
<http://www.internic.net/domain/named.root>  
<http://www.internic.net/domain/named.cache>
- ⦿ You can monitor the transition here:  
[http://h.root-servers.org/old\\_vs\\_new.html](http://h.root-servers.org/old_vs_new.html)

# Announce Annual Customer Service Survey

## NOTIFICATION OF UPCOMING Annual Customer Service Survey

- ⦿ Third Party Survey Vendor – Ebiquity
- ⦿ Advance email about the survey emailed by end of this week
- ⦿ CEOs and Registration Managers of five RIRs receive the survey
- ⦿ Week of Sept 14<sup>th</sup> Ebiquity will send survey invitations
- ⦿ Week of Oct 13<sup>th</sup> Customer Service Survey will close
- ⦿ Link to 2014 Survey Results:  
<https://www.iana.org/reports/2014/customer-survey-20141217.pdf>

# Thank you!



## Questions?

Reach us at:

Email: [iana@iana.org](mailto:iana@iana.org)

Website: [iana.org](http://iana.org)