



IANA Update

Selina Harrington | ARIN 37, Jamaica | 19 April 2016

IANA Update

- Annual Customer Service Survey
- Changes Based on Survey Feedback
- ⊙ Third Party Audit
- IPv4 Recovered Pool Allocations



Annual Customer Service Survey

Sent to the CEO and Registration Services Managers for the five Regional Internet Registries as well as other staff that had submitted requests for resources in the previous 12 months

44% response rate in 2015 from the recipients of the survey

	2013	2014	2015
Invitations sent	10	14	16
Response count	2	7	7
Response rate	20%	50%	44%
Overall satisfaction rate	100%	100%	98%



Annual Customer Service Survey

2015 IANA Functions Customer Service Survey

Process Quality

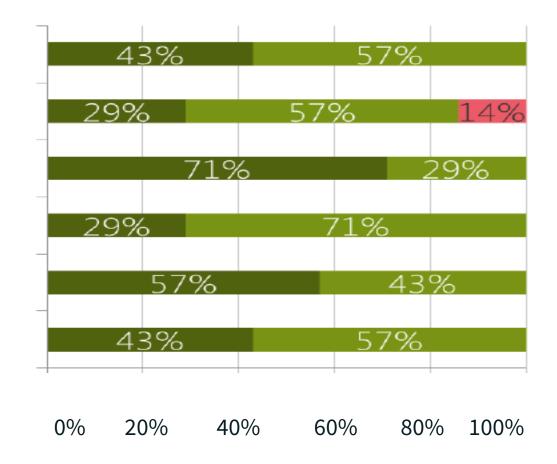
Quality of Instructions

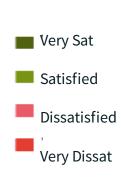
Courtesy

Timeliness

Feedback

Accuracy





Changes Based on Survey Feedback

IP Address Allocations

Internet Protocol Version 4 (IPv4)

- IPv4 Address Space
- IPv4 Multicast Address Assignments
- IPv4 Special Purpose Address Registry
- IPv4 Recovered Address Space Registry

Internet Protocol Version 6 (IPv6)

- IPv6 Address Space
- IPv6 Global Unicast Allocations
- IPv6 Parameters (Parameters described for IPv6, including header types, action codes, etc.)
- IPv6 Anycast Address Allocations
- IPv6 Multicast Address Allocations
- IPv6 Sub-TLA Assignments (DEPRECATED)
- IANA IPv6 Special Registry
- Announcement of Worldwide Deployment of IPv6 (14 July 1999)
- RIR Comparative Policy Overview

Autonomous System Number Allocations

- Autonomous System Numbers
- Special-Purpose AS Number Assignments

Procedures

■ Internet Number Resource Request Procedure





Changes Based on Survey Feedback

About IANA

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Glossary of terms

Contact us

http://www.iana.org/help/inr-request-procedure

Making Internet Number Resource Allocations to Regional Internet Registries

IPv4 Address Allocations

When an RIR has less than half a /8 in its inventory it should notify ICANN to begin allocations to all the RIRs from the Recovered IPv4 Pool. This is a one-time event, as allocations are made on a schedule and not in response to specific requests from each RIR; only one RIR needs to make the request for ICANN to begin allocation to all RIRs. Notification that an RIR has less than half of a /8 in its inventory should be sent to ipv4-request@iana.org.

The formula for distributing addresses from the recovered pool can be found at ICANN's website.

IPv6 Address Allocations

RIRs requesting additional IPv6 address space because they have less than 50% of a /12 need to provide ICANN with a summary of how much IPv6 address space the RIR has allocated and/or reserved and how much is fragmented. The request and the summary documenting the distribution of the allocated space should be submitted in the spreadsheet template to ipv6-request@iana.org.

An RIR requesting additional IPv6 address space because it does not have enough space for the next nine months must provide ICANN with the amount of address space allocated by the RIR in each of the last six months. The request and the summary should be submitted in the spreadsheet template to ipv6-request@iana.org.

The formula for determining eligibility for additional IPv6 allocations can be found at ICANN's website.

AS Number Allocation

An RIR requesting additional AS Numbers because it has assigned/allocated over 80% of its last block of AS Numbers needs to provide a summary of assignments/allocations it has made. If the RIR is requesting more than one block of AS Numbers, it needs to provide a usage summary for the six months prior to the request. Requests for additional AS Numbers should be submitted in the spreadsheet template to asn-request@iana.org.

An RIR requesting additional AS Numbers because the number of free AS Numbers it holds is less than two months needed, must provide a usage summary for the six months prior to the request. Requests for additional AS Numbers should be submitted in the spreadsheet template to asn-request@iana.org.

The global policy for allocation of AS numbers can be found at ICANN's website.



Third Party Audit

- Successful completion of its Service Organization Control (SOC) 3 audit of the RZ KSK System.
- Completed the Service Organization Control (SOC) 2 audit of the IANA Registry Maintenance Systems with no exceptions.
- ⊙ 6th year completion of the SOC3 and 3rd year completion of SOC2
- Audits are conducted annually and help us to constantly monitor and improve our systems



IPv4 Recovered Pool Allocation – 1 March 2016

Allocation made	RIR	Allocated addresses	
3/1/2016	AFRINIC	66.251.128.0 - 66.251.191.255	
3/1/2016	AFRINIC	146.196.128.0 - 146.196.255.255	
3/1/2016	AFRINIC	164.160.0.0 - 164.160.255.255	
3/1/2016	AFRINIC	192.145.128.0 - 192.145.191.255	
3/1/2016	APNIC	45.65.16.0 - 45.65.63.255	
3/1/2016	APNIC	146.196.32.0 - 146.196.127.255	
3/1/2016	APNIC	160.19.208.0 - 160.19.223.255	
3/1/2016	APNIC	160.20.0.0 - 160.20.15.255	
3/1/2016	APNIC	160.20.48.0 - 160.20.63.255	
3/1/2016	APNIC	160.202.32.0 - 160.202.63.255	
3/1/2016	APNIC	160.202.128.0 - 160.202.255.255	
3/1/2016	APNIC	160.238.64.0 - 160.238.95.255	
3/1/2016	APNIC	192.140.128.0 - 192.140.255.255	
3/1/2016	ARIN	45.223.0.0 - 45.223.255.255	
3/1/2016	ARIN	160.202.64.0 - 160.202.127.255	
3/1/2016	ARIN	192.144.128.0 - 192.144.255.255	
3/1/2016	ARIN	209.107.128.0 - 209.107.191.255	
3/1/2016	LACNIC	45.65.128.0 - 45.65.255.255	
3/1/2016	LACNIC	72.44.16.0 - 72.44.31.255	
3/1/2016	LACNIC	160.20.80.0 - 160.20.95.255	
3/1/2016	LACNIC	160.20.160.0 - 160.20.207.255	
3/1/2016	LACNIC	160.238.128.0 - 160.238.255.255	
3/1/2016	LACNIC	192.140.16.0 - 192.140.127.255	
3/1/2016	LACNIC	192.144.96.0 - 192.144.127.255	
3/1/2016	LACNIC	192.145.192.0 - 192.145.223.255	
3/1/2016	RIPE NCC	45.65.64.0 - 45.65.127.255	
3/1/2016	RIPE NCC	147.78.0.0 - 147.78.255.255	
3/1/2016	RIPE NCC	192.144.0.0 - 192.144.63.255	
3/1/2016	RIPE NCC	192.145.0.0 - 192.145.127.255	

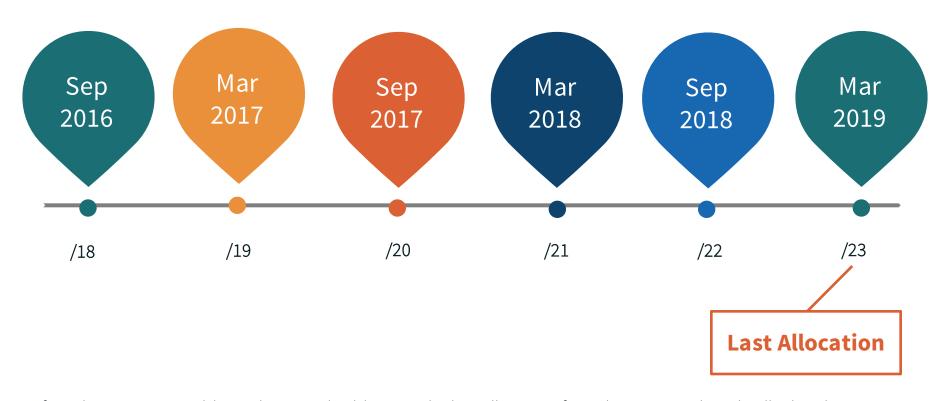


IPv4 Recovered Pool Allocation

- Next allocation will take place 1 September 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 Allocation



If we do not receive additional returned addresses, the last allocation from the recovered pool will take place in March 2019.

If we receive an additional $7 \times /24 \text{s}$ of returned space (1,792 addresses), then the September 2016 allocation would completely drain the pool.



Thank you!



Questions?

Reach us at:

Email: iana@iana.org

Website: iana.org

Thank you!

