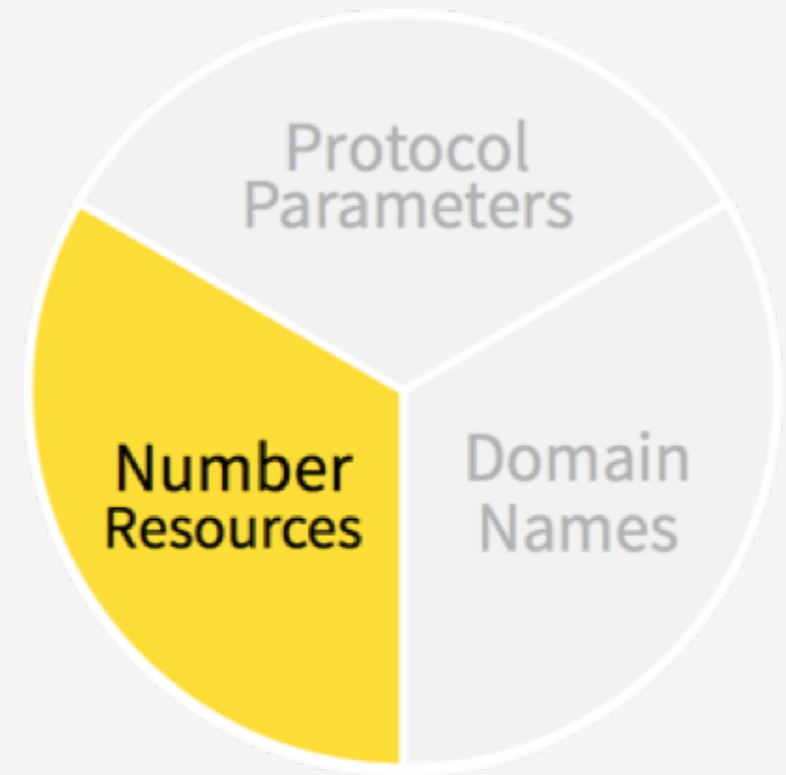


IANA Numbers Function Update

Kim Davies
IANA Services

ARIN 43: Barbados
9 April 2019



PTI | An ICANN Affiliate

Our team



Alan Akahoshi
PRODUCT MGMT



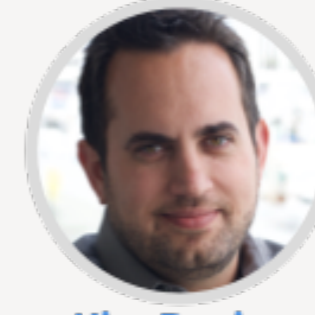
Shaunte Anderson
AUDIT



Amanda Baber
REQUEST SPECIALIST



Michelle Cotton
IETF RELATIONS



Kim Davies
PRESIDENT



Aaron Foley
CRYPTOGRAPHY



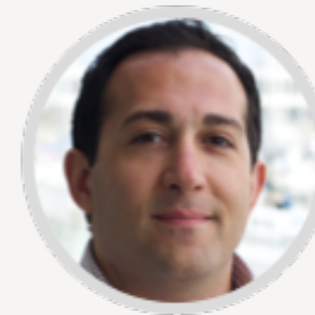
Selina Harrington
REQUEST SPECIALIST



Marilia Hirano
EXCELLENCE & AUDIT



Jennifer Johnson
EXECUTIVE ASSISTANT



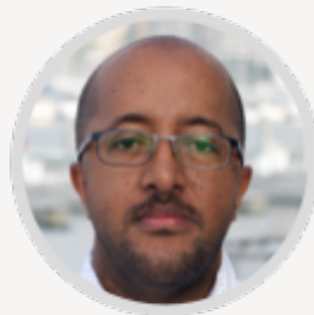
Ali Mohammadi
SOFTWARE



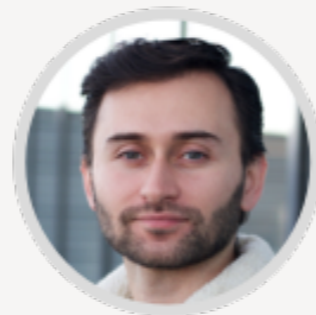
Andres Pavez
CRYPTOGRAPHY



David Prangnell
TECH SERVICES



Seman Said
SOFTWARE



George Sarkisyan
REQUEST SPECIALIST



Claudia Stevens
REQUEST SPECIALIST



Naela Sarras
SERVICE DELIVERY



Sabrina Tanamal
REQUEST SPECIALIST

Customer Satisfaction Survey

- Annual survey sent to the RIR CEOs and Registration Services Managers
- Participation rate was 25%, which is about 10% lower than previous years' average.
- 100% satisfaction rate which is consistent to previous years.
- All 5 respondents reported they did not have any customer service related issue in the past year.
- Accuracy and Timeliness were reported the two most important performance aspects for the Numbers function.
- **New for 2019:** Satisfaction survey after request completion

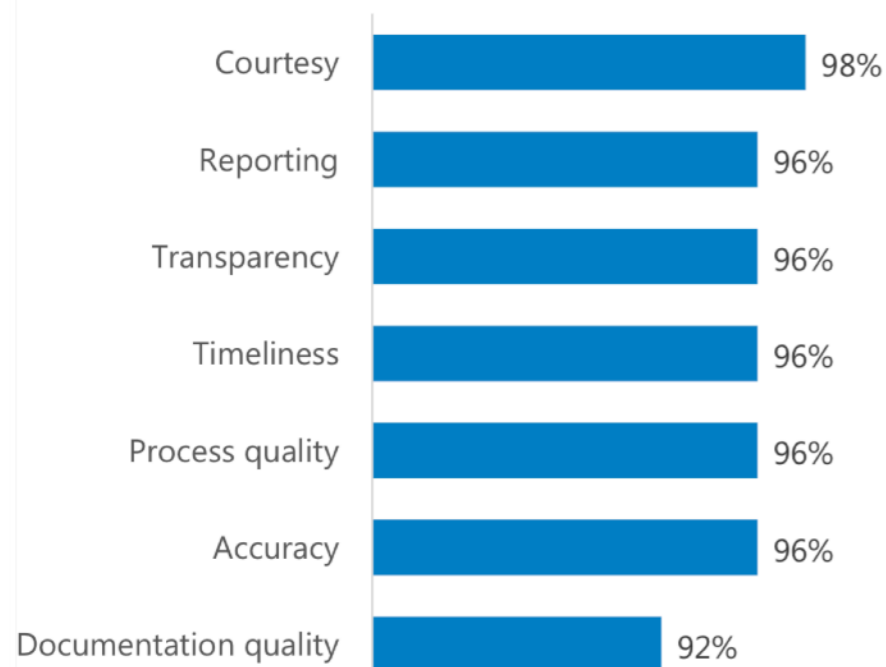


<https://iana.org/performance>

Overall IANA Satisfaction

- 96% of respondents reported being satisfied or very satisfied.
- Responses reflect our highest satisfaction since surveys have been conducted.

VERY SATISFIED OR SATISFIED
WITH THE DELIVERY OF IANA SERVICES
96% AVERAGE SATISFACTION



RATED VERY SATISFIED OR SATISFIED WITH THE DELIVERY OF THE IANA SERVICES

	2018	2017	2016	2015	2014	2013
	n=178	n=276	n=420	n=427	n=489	n=112
Customer participation						
Accuracy	96%	94%	93%	90%	89%	93%
Timeliness	96%	89%	86%	82%	80%	87%
Process quality	96%	89%	87%	83%	84%	86%
Transparency	96%	83%	79%	82%	81%	76%
Documentation quality	92%	87%	85%	82%	83%	74%
Courtesy	98%	88%	84%	84%	87%	94%
Reporting	96%	80%	76%	76%	79%	77%

"How did we do?"

- Launched in October 2018
- A simple one question survey with a binary response
- To either response, a followup comment can be optionally provided which will be reviewed by our continuous improvement team, and triaged for follow-up if requested.
- Surveys are limited to one in a period (e.g. 60 days)
- Customers can opt-out permanently

How was your recent IANA service experience regarding .fk?

IANA Services <noreply-45900088aa66416ba9fa085fb6874313@iana.org>
Seman Said;
Monday, October 15, 2018 at 3:39 PM
[Show Details](#)

Dear Colleague,

We'd like to hear about how your recent request was handled by our team. Please take a single question survey to provide us your feedback.

On 5 October 2018, you submitted a change request for the domain .fk. How do you rate your experience?

Thank you!
Your quick feedback will help us identify areas for improvement. If you provide a comment and ask us to contact you, we'll be in touch soon to learn more about your issue and try to make things right.

Provide any additional comment (optional)

Please contact me to discuss my experience further

Don't want to receive these surveys?
While your feedback as our customer is valuable, we don't want to bother you if you find these intrusive. We don't send more than one of these requests every 60 days. If you wish to permanently stop receiving customer survey click here

SLA Performance

Number Resource Performance

December 2018

Performance Summary

These performance targets are derived from section 4.3 of the Service Level Agreement for the IANA Numbering Services for the allocation of unicast IP addresses and AS numbers to the five Regional Internet Registries.

- ✓ Requests acknowledged on time (100%)
- ✓ Responded on time (100%)
- ✓ Implemented on time (100%)
- ✓ Implemented accurately (100%)

Individual Requests to Regional Internet Registries

Date	Request Type	Request Processing Details
2018-12-06	AS Number	<ul style="list-style-type: none">✓ Responded on time (0.0 days) More info✓ Implemented on time (1.1 days)✓ Accurately implemented

Status of Unallocated Recovered IPv4 Unicast Addresses

Unallocated remaining Recovered IPv4 Address Space is: 3,328 (11.7 bits) available to allocate. Allocations made from the Recovered IPv4 Address Space are made in accordance with the [Global Policy for Post Exhaustion IPv4 Allocation Mechanism by the IANA \(Ratified 6 May 2012\)](#).

the IANA
regional

the IANA
regional

tries

[More info](#)

tries

[More info](#)

(0.8 days)

ted

<https://iana.org/performance>

Audit Programs



Registry Assignment and Maintenances Systems (including number resources). 2018 report issued with no exceptions. 2019 program kicked off, integrates COSO framework this year.



Root Zone KSK. 2018 report issued with no exceptions. This report provides confidence that the trust anchors for the domain name system are properly managed.

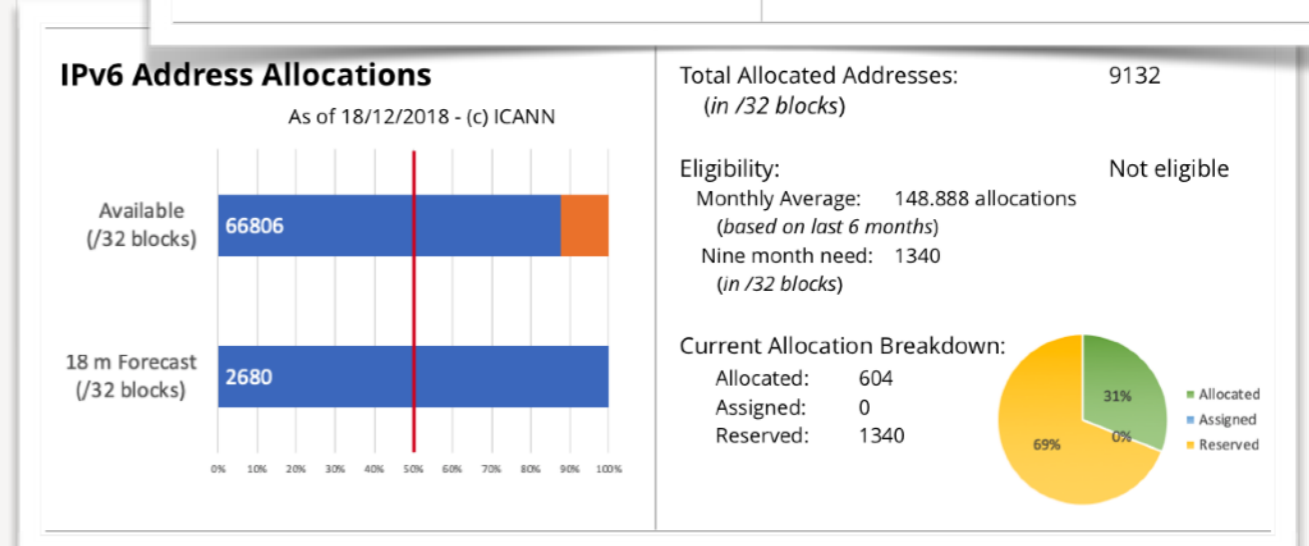
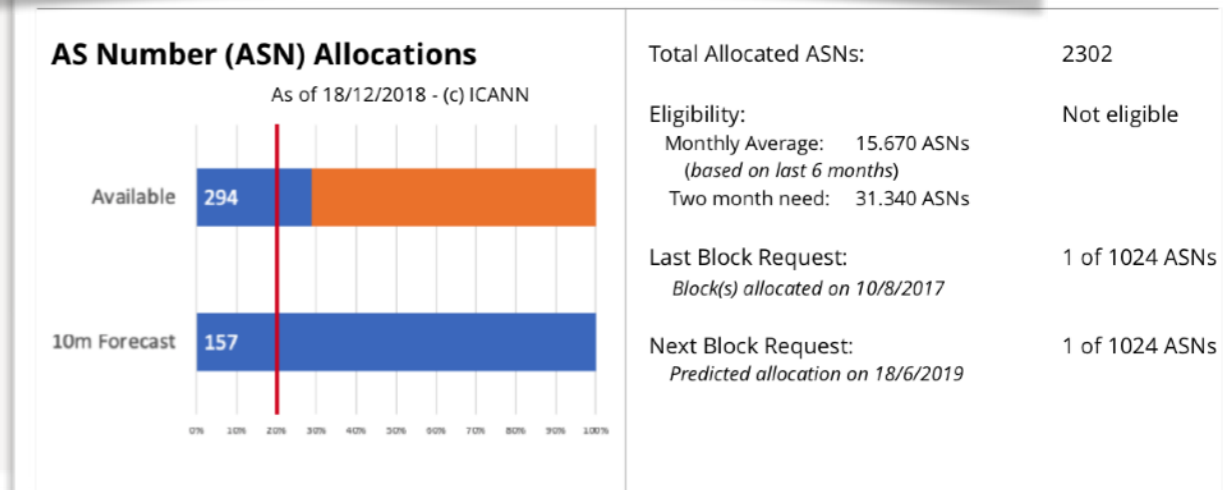
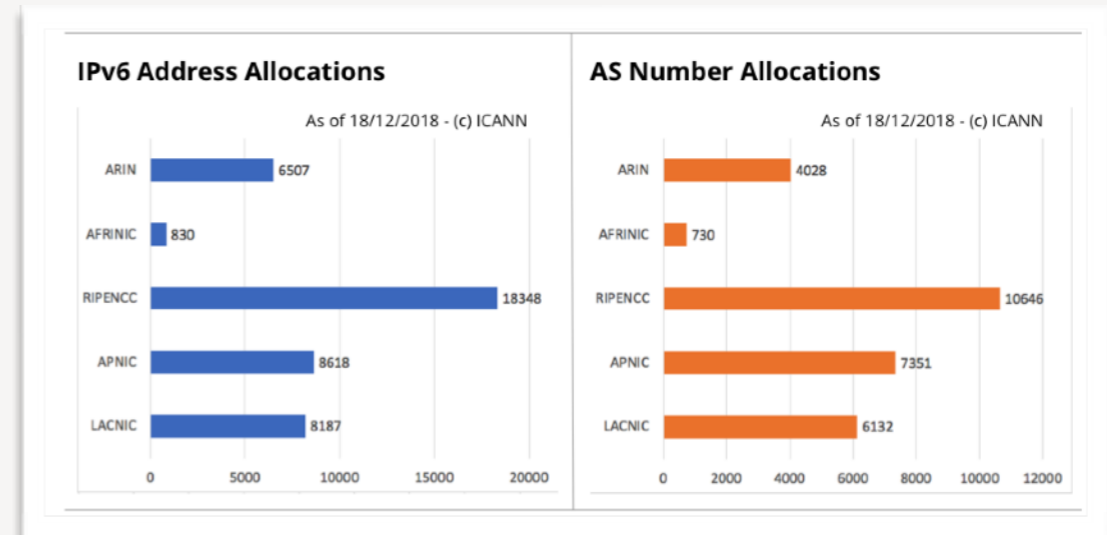


Our 2018 audit program was conducted by RSM.

<https://iana.org/audits>

New Dashboard for RIR allocations

- Under development
- Replaces ICANN Research website that was used in the past
- Targeted presentation of qualifying criteria for RIR allocation
- INR Allocations by RIR
- Drill-down into average monthly allocations, INR availability, supply forecast
- Modern website, no Flash, clear navigation

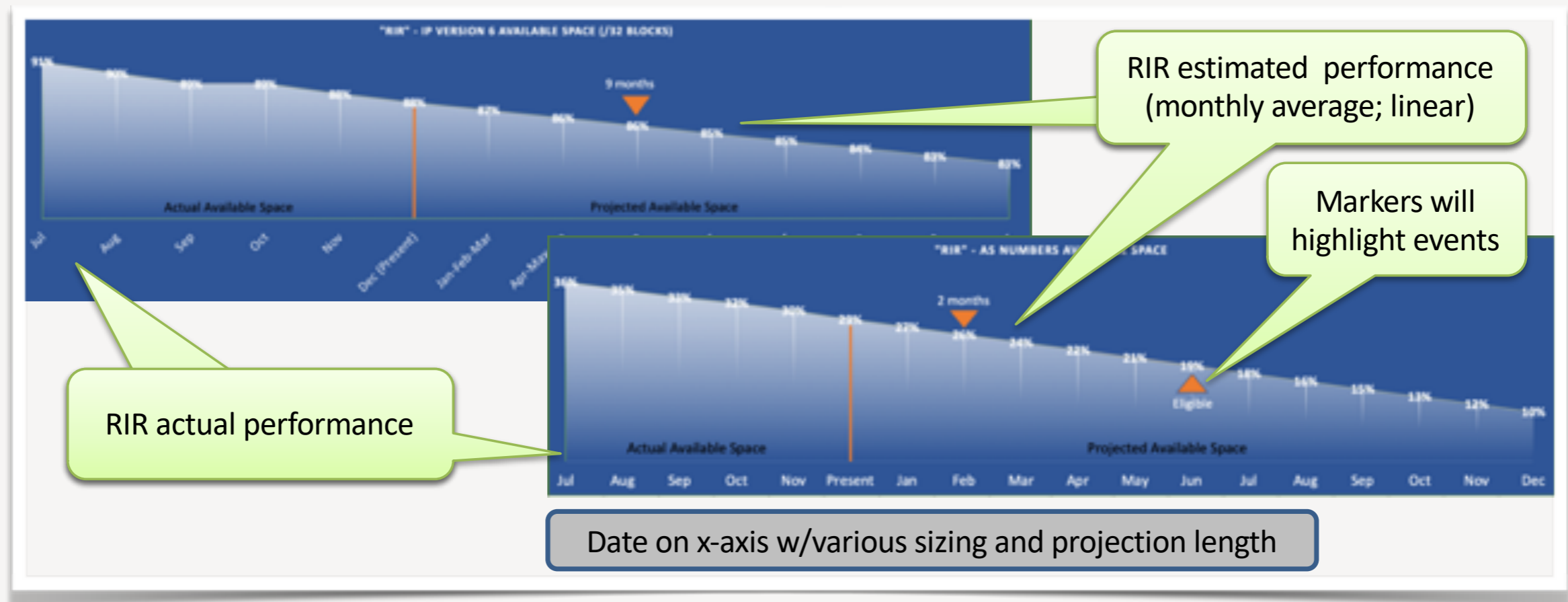


New Dashboard for RIR allocations

- IPv6
 - Redesigned
 - **State of the RIR Pool**
 - **Number/growth of IPv6 addresses allocated in region**
 - Decommissioned
 - IPv6 allocations for the RIR; IPv6 allocation activity; Number of IPv6 allocations to countries in the region
- AS numbers
 - Redesigned
 - **ASN allocation activity**
 - **Two month ASN allocation forecast**
 - **Consumption of the last AS block allocation from IANA**
 - Decommissioned
 - Number of ASN allocations to countries in region; ASN pool according to the RIR; ASNs per country code

New Dashboard for RIR allocations

- Exploring ways for RIRs to visually see their actual performance over a span of time, and expected future performance based on statistic measurements (more complex stats possible; monthly average is depicted)



IPv6 Allocation

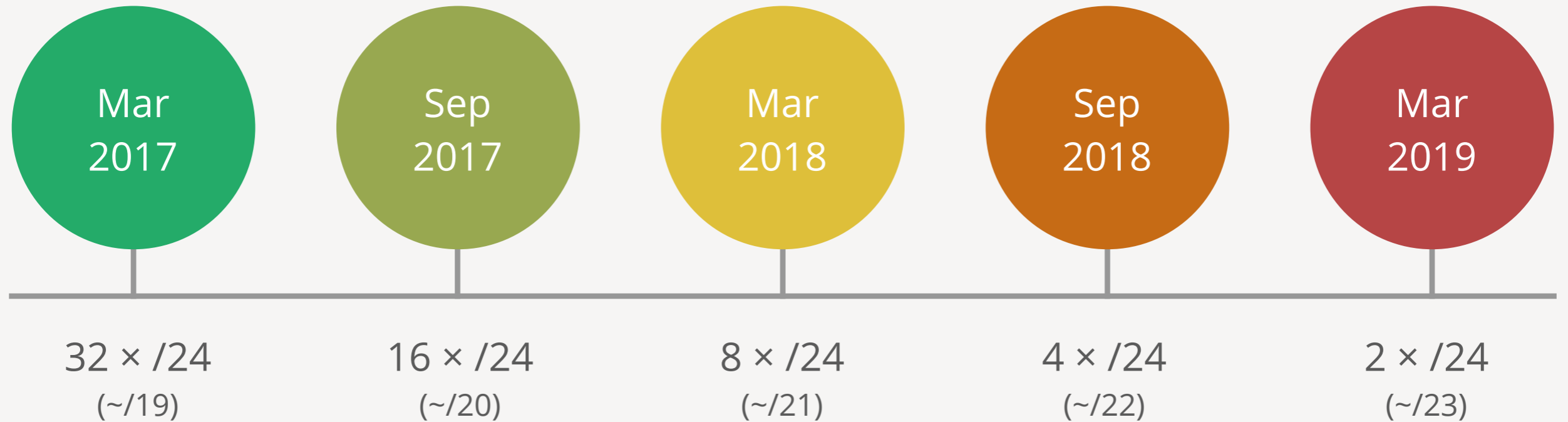
- Allocation made to RIPE NCC.
- Allocated a /22 at their request to utilize a gap in the pre-2006 allocations.
- Interpretation was validated with NRO EC (global policy provides for a minimum allocation block of /12)

Prefix	Designation	Date	WHOIS	RDAP	Status
2001:0200::/23	APNIC	1999-07-01	whois.apnic.net	https://rdap.apnic.net/	ALLOCATED
2001:0400::/23	ARIN	1999-07-01	whois.arin.net	https://rdap.arin.net/registry	ALLOCATED
2001:0600::/23	RIPE NCC	1999-07-01	whois.ripe.net	http://rdap.arin.net/registry	ALLOCATED
2001:0800::/23	RIPE NCC	2002-05-02	whois.ripe.net	https://rdap.db.ripe.net/	ALLOCATED
2001:0a00::/23	RIPE NCC	2002-11-02	whois.ripe.net	https://rdap.db.ripe.net/	ALLOCATED
2001:0e00::/23	APNIC	2003-01-01	whois.apnic.net	https://rdap.db.ripe.net/	ALLOCATED
2001:1200::/23	LACNIC	2002-11-01	whois.lacnic.net	https://rdap.apnic.net/	ALLOCATED
2001:1400::/23	RIPE NCC	2003-02-01	whois.ripe.net	https://rdap.lacnic.net/rdap/	ALLOCATED
2001:1600::/23	RIPE NCC	2003-07-01	whois.ripe.net	https://rdap.db.ripe.net/	ALLOCATED
2001:1800::/23	ARIN	2003-04-01	whois.arin.net	https://rdap.db.ripe.net/	ALLOCATED
2001:1a00::/23	RIPE NCC	2004-01-01	whois.ripe.net	https://rdap.arin.net/registry	ALLOCATED
2001:1c00::/22	RIPE NCC	2004-05-04	whois.ripe.net	http://rdap.arin.net/registry	ALLOCATED
2001:2000::/20	RIPE NCC	2004-05-04	whois.ripe.net	https://rdap.db.ripe.net/	ALLOCATED
2001:3000::/21	RIPE NCC	2004-05-04	whois.ripe.net	https://rdap.db.ripe.net/	ALLOCATED
2001:3800::/22	RIPE NCC	2004-05-04	whois.ripe.net	https://rdap.db.ripe.net/	ALLOCATED
2001:3c00::/22	RIPE NCC	2019-03-12	whois.ripe.net	https://rdap.db.ripe.net/	ALLOCATED
2001:4000::/23	RIPE NCC	2004-06-11	whois.ripe.net	https://rdap.db.ripe.net/	ALLOCATED
2001:4200::/23	AFRINIC	2004-06-01	whois.afrinic.net	https://rdap.db.ripe.net/	ALLOCATED
2001:4400::/23	APNIC	2004-06-11	whois.afrinic.net	https://rdap.afrinic.net/rdap/	ALLOCATED
2001:4600::/23	RIPE NCC	2004-06-11	whois.apnic.net	http://rdap.afrinic.net/rdap/	ALLOCATED
2001:4800::/23	ARIN	2004-08-17	whois.apnic.net	https://rdap.apnic.net/	ALLOCATED
2001:4a00::/23	RIPE NCC	2004-08-24	whois.ripe.net	https://rdap.db.ripe.net/	ALLOCATED
2001:4c00::/23	RIPE NCC	2004-10-15	whois.arin.net	https://rdap.arin.net/registry	ALLOCATED
2001:5000::/20	RIPE NCC	2004-10-15	whois.ripe.net	http://rdap.arin.net/registry	ALLOCATED
2001:8000::/19	APNIC	2004-12-17	whois.ripe.net	https://rdap.db.ripe.net/	ALLOCATED
2001:a000::/20	APNIC	2004-09-10	whois.ripe.net	https://rdap.db.ripe.net/	ALLOCATED
2001:b000::/20	APNIC	2004-11-30	whois.apnic.net	https://rdap.db.ripe.net/	ALLOCATED
2003:0000::/18	RIPE NCC	2004-11-30	whois.apnic.net	https://rdap.apnic.net/	ALLOCATED
2610:0000::/23	ARIN	2006-03-08	whois.apnic.net	https://rdap.apnic.net/	ALLOCATED
2620:0000::/23	ARIN	2005-01-12	whois.ripe.net	https://rdap.apnic.net/	ALLOCATED
		2005-11-17	whois.arin.net	https://rdap.db.ripe.net/	ALLOCATED
		2006-09-12	whois.arin.net	https://rdap.arin.net/registry	ALLOCATED
				http://rdap.arin.net/registry	ALLOCATED

IPv4 Allocation



IPv4 Recovered Pool Allocation



- The last allocation from the recovered pool took place in **March 2019**. With only 3 × /24 left, cannot further exercise policy unless more IPv4 is returned to IANA.
- Allocations made from the Recovered IPv4 Address Space are made in accordance with the [Global Policy for Post Exhaustion IPv4 Allocation Mechanism by the IANA](#) (Ratified 6 May 2012).

Thank you!

kim.davies@iana.org