



Welcome to IANA Activities Update

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Agenda

- ⦿ IPv4 Allocation
- ⦿ Performance Reports
- ⦿ Audits
- ⦿ RDAP Implementation



IPv4 Allocation

Global Policy Implementation

IPv4 Allocation

Allocate twice per year

Allocations happen on a pre-defined schedule



Use formula posted online

ICANN publishes **the software** used to make selection as open source available for anyone to inspect

github.com/icann/ipv4-recovery-algorithm

```
def find_best_match(self, amount, allocatee):

    candidates = {}
    for block in self.recovered.entries:
        score = float(math.log(len(block), 2))/32
        if block.preference == allocatee:
            score += 0.8
        if len(block) == amount:
            score += 0.2
        candidates[block] = score
    for block in reversed(sorted(candidates.iteritems(), key=operator.itemgetter(1))):
        size = block[0].end - block[0].start + 1
        if size > amount:
            return (block[0].start, IPv4Address(block[0].start + amount - 1))
        else:
            return (block[0].start, block[0].end)
```

March 2015 Allocation

- ⦿ Third allocation under global policy made on 2 March 2015 [in-line with ASO AC advice](#)
- ⦿ Each RIR received 524,288 IPv4 addresses (a /13 equivalent)

Start address	End address	Designation	Date	Whois	Status
45.248.0.0	45.255.255.255	APNIC	2015-03	whois.apnic.net	ALLOCATED
45.240.0.0	45.247.255.255	AFRINIC	2015-03	whois.afrinic.net	ALLOCATED
45.72.0.0	45.79.255.255	ARIN	2015-03	whois.arin.net	ALLOCATED
45.68.0.0	45.71.255.255	LACNIC	2015-03	whois.lacnic.net	ALLOCATED
45.8.0.0	45.15.255.255	RIPE NCC	2015-03	whois.ripe.net	ALLOCATED
45.4.0.0	45.7.255.255	LACNIC	2015-03	whois.lacnic.net	ALLOCATED

<http://www.iana.org/assignments/ipv4-recovered-address-space/ipv4-recovered-address-space.xhtml>

The background of the slide is a teal color. Overlaid on this is a stylized world map. The map is formed by a network of white dots of varying sizes, connected by thin white lines. The dots are more densely packed in some areas, particularly in the North Atlantic and Europe, suggesting a higher density of data or connections. The overall effect is a digital, interconnected globe.

Performance Reports

Performance Reports

- ⦿ The IANA department publishes regular monthly reports
- ⦿ Performance standards were developed collaboratively with the community
- ⦿ The IANA department routinely meets or exceeds all performance targets
- ⦿ Reports are published at <http://www.iana.org/performance>

Reporting on Performance

IANA seeks to provide an excellent, reliable and performant service of its various registration roles. To achieve this, IANA regularly reviews its procedures and liaises with its user communities to optimise performance.

More formally, the IANA Service Level Targets are defined in part by the contract for IANA performance with the US Department of Commerce, as well as in the Memorandum of Understanding with the IETF.

Report	Description
IETF Statistics Report	Documentation of the performance of the protocol assignments roles performed by ICANN for the IETF community. (Monthly)
Performance Standards Metric Report	A report of performance standard metrics for discrete IANA functions. (Monthly)
Internet Draft Processing Status	Information on pending Internet Draft actions being evaluated by IANA staff. (Daily)
Root Zone Audit Data	A report of all root zone related changes transacted. (Monthly)
Root Processing Times	Snapshots of average processing times for root zone related changes. (Monthly)

Allocation of Internet Numbering Resources

Key Performance Indicators

Metric	Target	Actual	Target Met
Accuracy (1) — Policy is correctly implemented.	100%	100%	✓
Accuracy (2) — Registry is updated before notifying requestor of allocation.	100%	100%	✓
Timeliness and Process Quality (1) — For a specific request, ICANN does not need to seek more than two iterations of clarification from the requesting Regional Internet Registry in order to correctly apply the registration policy.	100%	100%	✓
Timeliness and Process Quality (2) — Requests are to be completed within 7 days.	100%	100%	✓
Transparency (1) — Public announcement of an allocation is made on the same day as the allocation being recorded in the IANA registry.	100%	100%	✓
Transparency (2) — An implementation schedule for a new global policies under C.2.9.3 will be posted following ratifications within 14 days for simple policies, and 30 days for complex policies.	100%	100%	✓

Requests Performed

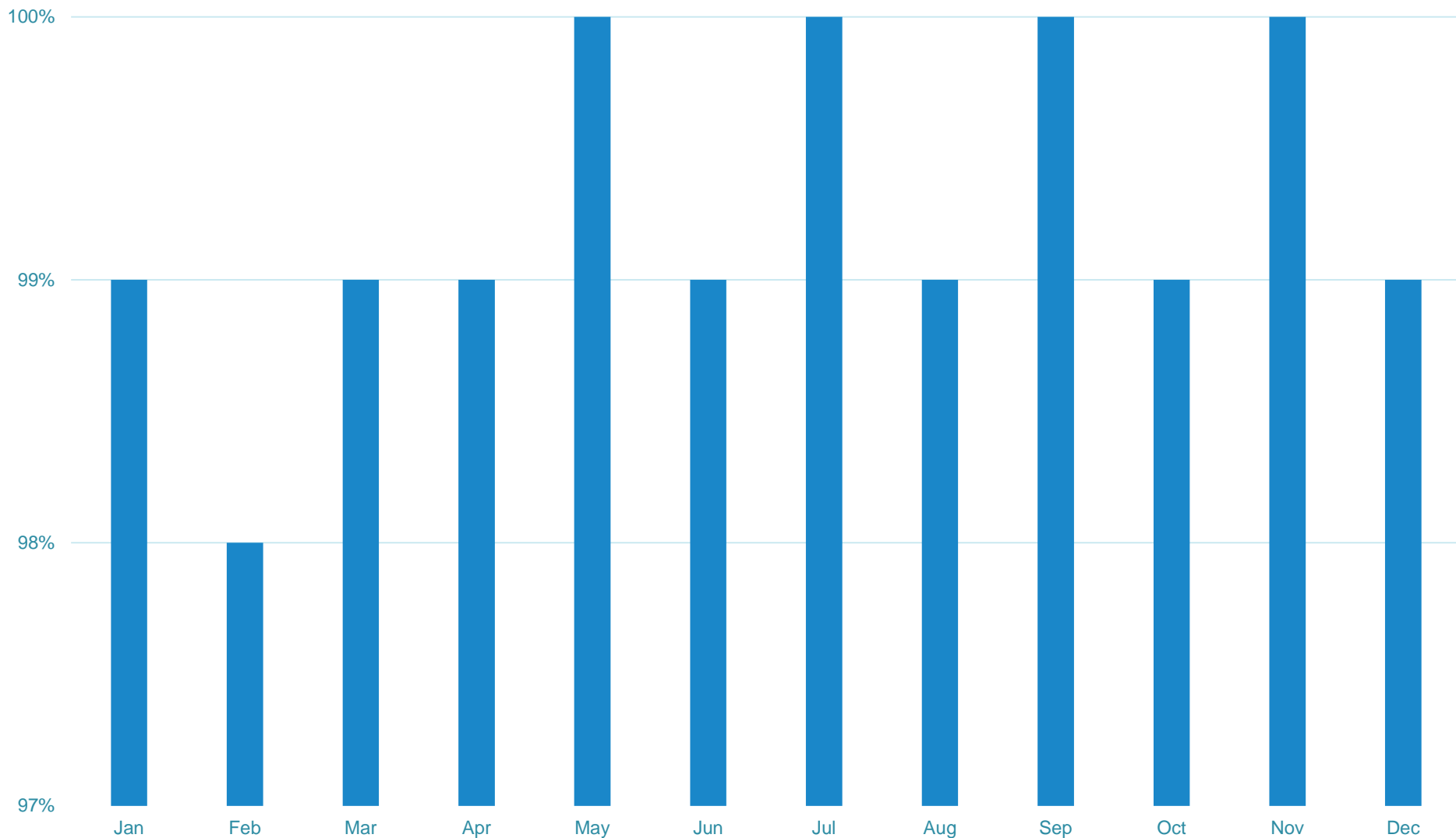
No requests were completed during the reporting period.

Global Policy Implementation

No global policy changes were completed during the reporting period.

Protocol Parameters

ICANN's IANA Department IETF SLA Performance 2014

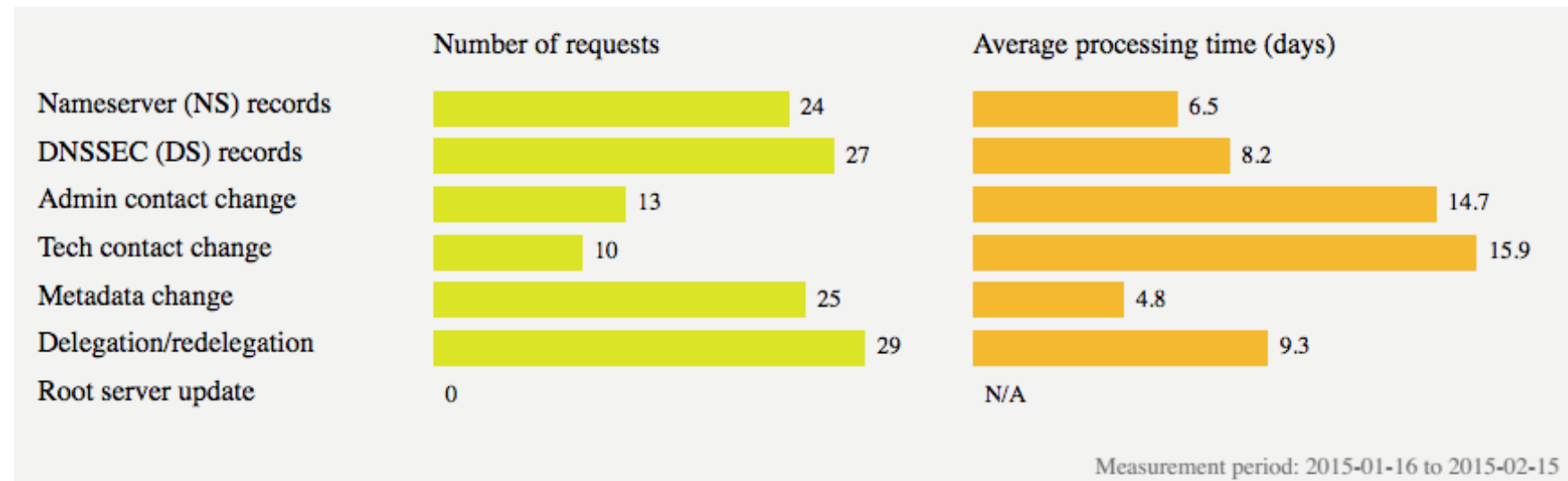


Root Zone Management

Root Processing Times

In accordance with Section C.4.3 of the IANA contract, this graph represents the number of requests received by type of change. Requests that involve changes to multiple categories will be counted in all categories.

Recent requests by type



This graph was generated on 2015-02-17.

The image features a world map where the continents are defined by a complex network of white dots and thin white lines. The dots vary in size, and the lines connect them to form a web-like structure. The background is a solid, vibrant orange color. The word "Audits" is written in a bold, white, sans-serif font on the left side of the map.

Audits

- ⦿ The IANA Department recently completed two SysTrust audits to ensure appropriate internal controls are in place to meet:
 - ⦿ Availability – the system was available for operation or use, as committed or agreed
 - ⦿ Processing Integrity – the system processing was complete, accurate, timely, and authorized
 - ⦿ Security – the system was protected against unauthorized access
- ⦿ Each principle is supported by well-defined and detailed criteria that encompass a company's infrastructure, software, data, people and procedures
- ⦿ Certification of the DNSSEC SysTrust audit is found at :
<https://www.iana.org/dnssec/systrust>



Registration Data Access Protocol (RDAP) Update

- ⦿ The IESG approved the [draft-ietf-weirds-bootstrap](#) document
- ⦿ The IANA Department is currently reviewing approaches to create the registries
- ⦿ Future steps include discussions with the RIRs and TLD operators to explore populating those registries

Engage with ICANN



Thank You and Questions

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