Agenda

- IPv4 Allocation
- Performance Reports
- Audits
- RDAP Implementation
IPv4 Allocation
Global Policy Implementation
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
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)

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

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

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

Key Performance Indicators

<table>
<thead>
<tr>
<th>Metric</th>
<th>Target</th>
<th>Actual</th>
<th>Target Met</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Accuracy (1)</strong> — Policy is correctly implemented.</td>
<td>100%</td>
<td>100%</td>
<td>✔</td>
</tr>
<tr>
<td><strong>Accuracy (2)</strong> — Registry is updated before notifying requestor of allocation.</td>
<td>100%</td>
<td>100%</td>
<td>✔</td>
</tr>
<tr>
<td><strong>Timeliness and Process Quality (1)</strong> — 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.</td>
<td>100%</td>
<td>100%</td>
<td>✔</td>
</tr>
<tr>
<td><strong>Timeliness and Process Quality (2)</strong> — Requests are to be completed within 7 days.</td>
<td>100%</td>
<td>100%</td>
<td>✔</td>
</tr>
<tr>
<td><strong>Transparency (1)</strong> — Public announcement of an allocation is made on the same day as the allocation being recorded in the IANA registry.</td>
<td>100%</td>
<td>100%</td>
<td>✔</td>
</tr>
<tr>
<td><strong>Transparency (2)</strong> — 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.</td>
<td>100%</td>
<td>100%</td>
<td>✔</td>
</tr>
</tbody>
</table>

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

Jan  99%
Feb  98%
Mar  99%
Apr  100%
May  100%
Jun  100%
Jul  100%
Aug  100%
Sep  100%
Oct  100%
Nov  100%
Dec  99%
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

<table>
<thead>
<tr>
<th>Number of requests</th>
<th>Average processing time (days)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nameserver (NS) records</td>
<td>24</td>
</tr>
<tr>
<td>DNSSEC (DS) records</td>
<td>27</td>
</tr>
<tr>
<td>Admin contact change</td>
<td>13</td>
</tr>
<tr>
<td>Tech contact change</td>
<td>10</td>
</tr>
<tr>
<td>Metadata change</td>
<td>25</td>
</tr>
<tr>
<td>Delegation/redelegation</td>
<td>29</td>
</tr>
<tr>
<td>Root server update</td>
<td>0</td>
</tr>
</tbody>
</table>

Measurement period: 2015-01-16 to 2015-02-15

This graph was generated on 2015-02-17.
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](https://www.iana.org/dnssec/systrust)
Registration Data Access Protocol (RDAP) Update
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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gplus.to/icann
facebook.com/icannorg
weibo.com/ICANNorg
linkedin.com/company/icann
flickr.com/photos/icann
youtube.com/user/icannnews
slideshare.net/icannpresentations