



# 2014

## ANNUAL REPORT

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# ABOUT ARIN

ARIN provides services related to the technical coordination and management of Internet number resources. The nature of these services is described in ARIN's mission statement:

ARIN, a nonprofit member-based organization, supports the operation of the Internet through the management of Internet number resources throughout its service region; coordinates the development of policies by the community for the management of Internet Protocol number resources; and advances the Internet through informational outreach.

ARIN is structured to operate as a service organization that is responsive to the needs of the public it serves. It is organized and driven by the users in the community.

Services are grouped into four areas:

## Registration Services

The Registration Services Department is responsible for the allocation and assignment of all Internet number resources within the ARIN region. Their responsibilities include IPv4, IPv6, and Autonomous System Number (ASN) registration, help desk operations, reverse delegation registration, as well as the maintenance of the Whois directory service, WhoWas (historical registration data), and an Internet Routing Registry service.

## Organization Services

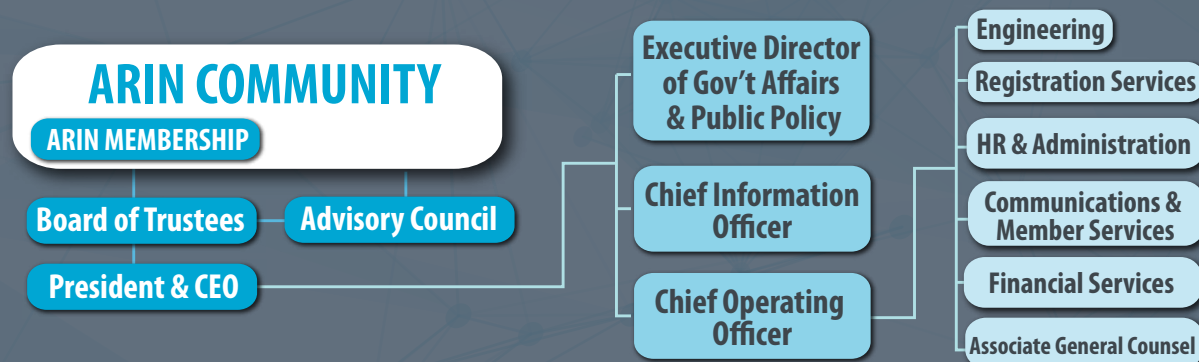
ARIN maintains a key focus on interactions with its members and stakeholders. The Communications and Member Services Department is responsible for coordinating communications and outreach including public relations, general education, and training.

## Policy Development Services

Policy development services facilitate the development of policy for the technical coordination and management of Internet number resources in the ARIN region. This includes the support and administration of ARIN's Policy Development Process (PDP), conducting Public Policy Consultations and Public Policy and Members Meetings, maintaining discussion email lists, and publishing policy documents.

## Technical Services

ARIN develops technical services to support the evolving needs of the Internet community. The Engineering department is responsible for the development, implementation, and support of ARIN internal systems and community services, including ARIN Online, Cryptographic Authentication, DNS Security (DNSSEC), RESTful Provisioning (Reg-RWS), Resource Public Key Infrastructure (RPKI), and a community software repository.





## ARIN REGION



**ARIN serves the following economies:** Anguilla, Antarctica, Antigua and Barbuda, Bahamas, Barbados, Bermuda, Bouvet Island, Canada, Cayman Islands, Dominica, Grenada, Guadeloupe, Heard and McDonald Islands, Jamaica, Martinique, Montserrat, Saint Barthelemy, Saint Kitts and Nevis, Saint Lucia, St. Pierre and Miquelon, Saint Vincent and the Grenadines, St. Martin, St. Helena, Turks and Caicos Islands, Virgin Islands (British), United States (including Puerto Rico, Virgin Islands (US), and Minor Outlying Islands).

# PRESIDENT'S LETTER



2014 was a year of many changes for ARIN, but the most significant would be the crossing of a major threshold in available IPv4 number resources for the region and the changes made to our processes as a result.

In April 2014, the ARIN IPv4 free pool dropped below a single /8 equivalent, which triggered the final phase of ARIN's IPv4 Countdown Plan. This phase marks a point in IPv4 depletion that has been forefront in the minds of ARIN staff and community members for over a decade. As the free pool continues to progress toward a state of depletion, ARIN staff has been diligent in their review of IPv4 requests to ensure equitable treatment for all organizations. In planning for fair and equitable IPv4 distribution through free pool depletion, we have added a number of procedural steps, most significantly the serialization of requests and the team review process. These changes are in place today, and I speak on behalf of all ARIN staff when I express my appreciation for the community's patience and understanding in this period.

The imminent IPv4 depletion at ARIN promises to make 2015 an interesting year for both ARIN and the community served. I thank you for being a part of the ARIN community this year, for your ongoing support of ARIN, and look forward to working together in 2015.

John Curran

*President and CEO*

*ARIN*

# BOARD OF TRUSTEES REPORT

The Board of Trustees maintains authority over the scope, mission, and along with the President and Chief Executive Officer (CEO) establishes the strategic direction and fiscal oversight. The President and CEO, along with ARIN staff, executes the strategic direction through the operational management of ARIN. The Board also has oversight authority of the nomination, appointment, and election of individuals to Board committees and similar roles.

The Board votes on draft policies developed by the community in accordance with the Policy Development Process (PDP).

<https://www.arin.net/policy/pdp.html>

The Board of Trustees consists of seven members. Six members are elected by ARIN's membership, and the President and CEO of ARIN serves as the seventh.

## 2014 MEMBERS

**Paul Andersen**, *Vice Chair and Treasurer*

**Vint Cerf**, *Chair*

**John Curran**, *President and CEO*

**Timothy Denton**, *Secretary*

**Aaron Hughes**

**Bill Sandiford**

**Bill Woodcock**

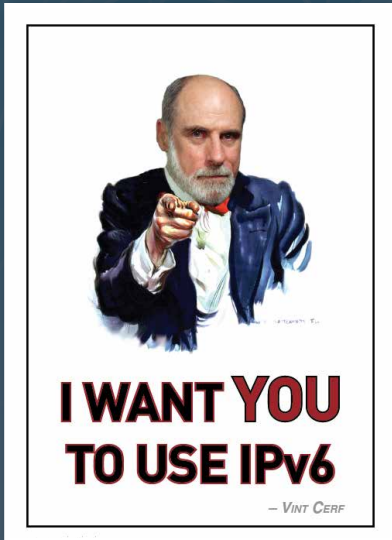


The Board holds approximately four in-person meetings and five to ten teleconferences annually.

View draft agendas and meeting minutes: [https://www.arin.net/about\\_us/bot/index.html](https://www.arin.net/about_us/bot/index.html)



# CHAIRMAN'S LETTER



It has been my privilege to serve as Chairman on ARIN's Board of Trustees, thanks in no small part to the dynamic ARIN community. It is through our work together that the Internet continues to be open and responsive to the needs of the community.

A significant development in 2014 for the Internet ecosystem was the announcement by the United States National Telecommunications and Information Administration (NTIA) of its intent to transition the stewardship over the Internet Assigned Numbers Authority (IANA) functions contract to the global multistakeholder community. Planning for that transition is now underway, and while we do not anticipate any

impact to the services that we provide to the ARIN community, we encourage everyone to get involved in this activity to ensure that the arrangements for oversight of these important functions match your expectations.

I would also like to take this opportunity to thank members of the Board of Trustees as well as those serving on the ARIN Advisory Council and Number Resource Organization Number Council. These elected volunteers put forth enormous effort to help ensure ARIN serves the community in the best possible manner. To be associated with people of such dedication and talent is the principal reward of participating in ARIN's governance. The Board joins me in expressing great pride and pleasure in ARIN's continued stability and reliability through this critical phase in Internet history, and we look forward to a fortuitous 2015 for the Internet technical community at large.

Vinton G. Cerf

*Chairman*

*ARIN Board of Trustees*

# BOARD OF TRUSTEES ACTIONS

- Elected Officers:
  - Vint Cerf, Chairman
  - Paul Andersen, Treasurer and Vice Chair
  - Tim Denton, Secretary
- Adopted Board Standing Rules.
- Approved various Consent Agendas
- Approved various Board Meeting minutes
- Adopted ARIN Advisory Council's Standing Rules
- Reviewed Non-Disclosure and Conflict of Interest
- Established ARIN Compensation Committee and appointed Vint Cerf (Committee Chair), Paul Andersen, and Aaron Hughes
- Established ARIN Audit Committee and appointed Bill Sandiford and Timothy Denton. Noted John Curran as ex-officio member
- Established ARIN Finance Committee and appointed Paul Andersen (Committee Chair), Bill Woodcock, and Aaron Hughes. Noted John Curran as ex-officio member
- Established ARIN Board Governance Committee and appointed Paul Andersen (Committee Chair), Bill Woodcock, and Vint Cerf. Noted John Curran as ex-officio member
- Authorized Treasurer for future commitments to "approve expenses beyond the current approved budget year"
- Accepted the presented 2014 Mailing List Acceptable Use Policy (AUP) Committee and appointed Bill Sandiford (Committee Chair), Ron da Silva, and Kevin Blumberg
- Appointed John Curran to serve on the 2014 Postel Network Operator's Scholarship Program
- Appointed Paul Andersen to serve as ARIN Board Observer to the NRO EC
- Directed ARIN Board Governance Committee to work with staff to gather information from the community, regarding their views in governance practices
- Directed ARIN Board Governance Committee to conduct a review of the ARIN Bylaws
- Suspended sections 4.6 and 4.7 of the Number Resource Policy Manual
- Accepted the 2014 Fellowship Selection Committee and appointed Bill Woodcock (Committee Chair), Andrew Dul, John Brancela, and Stephen Middleton
- Approved the revised ARIN Investment Policy Statement
- Accepted Financial Audit Report
- Adopted ARIN-2014-4: Remove 4.2.5 Web Hosting Policy
- Adopted ARIN-2014-7: Section 4.4 Micro-Allocation Conservation Update
- Adopted ARIN-2014-10: Remove Sections 4.6 and 4.7
- Adopted Revised Bylaws Changes
- Appointed the 2014 Nomination Committee with committee members Aaron Hughes (Committee Chair), Paul Andersen, Stephen Middleton, Tina Morris, John Springer, Byron Holland, and John Brown
- Appointed Bill Sandiford to be Election Vote Counter for 2014 ARIN Elections
- Adopted ARIN-2013-7: NRPM 4 (IPv4) Policy Cleanup
- Adopted ARIN-2013-8: Subsequent Allocations for New Multiple Discrete Networks
- Adopted ARIN-2014-5: Remove 7.2 Lame Delegations
- Adopted ARIN-2014-13: Reduce All Minimum Allocation/Assignment Units to /24
- Expressed "deepest sympathy to the family of Tim Christensen. Tim's dedication and contributions to ARIN will not be forgotten. He was a valuable asset to ARIN and the Internet community; and, most important, a friend."
- Adopted Strategic Plan
- Appointed Ron da Silva to serve as the ARIN-region NRO NC/ASO AC representative
- Confirmed the results of the ARIN Board of Trustees and Advisory Council Elections concluded on 19 October 2014
- Appointed Bill Woodcock and John Sweeting as the community representatives to the CRISP team, additionally appointing Mr. Michael Abejuela as the non-voting ARIN staff support member
- Approved the 2014 401K discretionary match for ARIN employees
- Adopted ARIN 2015-2016 Draft Budget, including the additional engineering/customer-focused surge proposal





**Nate Davis**  
*Chief Operating Officer*

## CHIEF OPERATING OFFICER'S REPORT

2014 proved to be a productive year in advancing ARIN's ability to service the community pursuant to its mission and operating goals. The completed key objectives, outlined in ARIN's operating plan goals, were:

- Conducted eight ARIN On the Road Events and three Public Policy Consultations
- Completed a third party security audit of ARIN's infrastructure
- Completed annual independent financial audit
- Began signing ARIN's forward DNS zone
- Conducted a comprehensive customer satisfaction survey and response plan
- Deployed a user feedback button throughout the ARIN website to enable collection of user experience and suggestions
- Deployed community requested ARIN Online enhancements
- Deployed enhancements to Restful Web Services (Reg-RWS)
- Deployed Domain Name System (DNS) and DNS Security (DNSSEC) improvements
- Conducted educational outreach regarding the imminent depletion of the regional IPv4 free pool, IPv6 deployment, and the community-based model of Internet number resource policy development
- Participated in key Internet Governance forums

ARIN will continue to prioritize community service objectives while strengthening staff efforts related to improving ARIN Online per community suggestions.

# SERVICE LEVEL REPORT

ARIN periodically reports service level commitments and performance against those commitments for community provided services. This report contains stated service level commitments and associated performance for community-provided services.

## FINANCIAL SERVICE

Service Level Commitment	Performance
Provide Customer Support from 9:00 AM to 5:00 PM, Eastern Time, Monday through Friday, excluding holidays	96%
Response to phone and email messages from ARIN customers within two business days	96%
<b><i>Billing schedule commitment:</i></b>	
Send invoices for new registrations within three (3) business days following the approval announcement sent by Registration Services	100%
Send invoices for renewal IP allocations forty-five (45) days in advance of the beginning of the anniversary month	100%
Send invoices for maintenance thirty (30) days prior to the beginning of the anniversary month	100%

## COMMUNICATIONS & MEMBER SERVICES

Service Level Commitment	Performance
Provide Customer Support from 9:00 AM to 5:00 PM, Eastern Time, Monday through Friday, excluding holidays	98%
Publish ARIN's Annual Report by the first Public Policy and Members Meeting of the year	100%
Conduct two Public Policy and Members Meetings each year	100%
Publish meeting minutes and presentations online within seven (7) business days of meeting conclusion	100%
Conduct annual elections for the ARIN Board of Trustees, ARIN Advisory Council, and the Number Resource Organization Number Council (NRO NC)	100%

## REGISTRATION SERVICES

Service Level Commitment	Performance
Provide Customer Support from 7:00 AM to 7:00 PM Eastern Time, Monday through Friday, excluding holidays	99.70%
Respond to all email within two (2) business days at the latest, with the intended goal being a same day response	98.87%
Provide issue escalation services from 10:00AM to 4:00PM Eastern time, Monday through Friday, excluding holidays	100%
Response time by staff to ARIN Online web tickets*	2.13 days

## ENGINEERING

Service	Mean Time to Repair	Performance
Auto reply for Registration	1 hour	99.9%
Auto reply for Routing Registry	1 hour	99.9%
DNS Master Zones	30 minutes	100%
DNS Provided by ARIN	5 minutes	100%
FTP Data	12 hours	100%
RESTful (Reg-RWS) Services	1 hour	99.9%
Routing Registry	24 hours	99.9%
RWhois	1 hour	100%
Web Whois	30 minutes	100%
Webserver (http)	30 minutes	100%
Webserver (https)	24 hours	100%
Whois	30 minutes	99.9%

*We had a total of 901 minutes of unplanned downtime in 2014 on provisioning - Postgres (132), UPS (499), UPS (120), Cox (150)*  
*We had 100% uptime on PFS sites*



## ENGINEERING



**Mark Kusters**  
*Chief Technology Officer*

In 2014 the ARIN Engineering team focused heavily on ARIN Online improvements and overall service availability. Maintenance of current infrastructure and deprecation of back-end hardware continue to be a behind-the-scenes priority, but 2014 saw a host of new ARIN Online features, as well as numerous improvements to other services. One of the larger achievements by our development and QA teams was the addition of a feedback capturing tool for all ARIN Online and ARIN.net pages, affording our community a direct line to us for website and application improvements or bugs.

Other key improvements to ARIN Online include the concept of shared tickets across all Point of Contact records (POCs) for a given organization and the integration of Transfers to Specified Recipients (NRPM 8.3) within ARIN Online.

Other technical services saw great improvements as well. On the Domain Name System (DNS) and DNS Security (DNSSEC) side, DNS changes now occur in near real-time, down from 24 hours. Resource Public Key Infrastructure (RPKI) improvements continue, as we now support Route Origin Authorizations (ROAs) originating from Autonomous System (AS), and ROAs may now be requested via ARIN's Registration RESTful Web Service (Reg-RWS).

Spring 2014 saw an Uninterrupted Power Supply (UPS) failure in the ARIN offices, prompting a surge in Operations activity to plan and execute the relocation of all critical customer-facing hardware to one of our colocation facilities. The move was successfully completed on 1 November 2014, and our Ashburn colocation has proven to be a reliable host for our core operations since that time.

## REGISTRATION SERVICES



**Leslie Nobile**  
*Director*

2014 brought a significant increase in Registration Services traffic, from IPv4 requests in light of impending free pool depletion, to transfer requests from organizations in need of or holding unused IPv4 addresses, to a large number of fraudulent requests and reports requiring extensive investigation. The final phase of ARIN's IPv4 Countdown Plan, triggered in April with the reduction of ARIN's free pool to less than a single /8 equivalent, resulted in a new approach for reviewing all IPv4 requests.

A single team of analysts is now reviewing all requests on a first in, first out basis, which drastically extends the processing and response time for each request. Despite undertaking this slowdown in request processing, we have worked our way back to a standard two-day response turnaround time, per our Service Level Agreement (SLA).

As ARIN Online has evolved, the subject matter experts in Registration Services have played a major role in the user experience. Some notable examples of ARIN Online improvements we were heavily involved in include the integration of Transfers to Specified Recipients, shared

ticket functionality, and the streamlining of POC Validation processes for both users and staff.

We have also laid groundwork with Engineering for forthcoming ARIN Online improvements, including further integration of resource transfers and preparations for implementing ARIN's Waiting List for Unmet Requests when IPv4 depletion reaches that crucial milestone.

Registration Services staff held a full day of off-site training to focus on "Impeccable Customer Service." During this training, we identified and implemented many simplifications and streamlines for customer interaction and service, while still maintaining our high level of due diligence and strict policy adherence.

In other news, we worked with Communications and Member Services staff on documentation improvements and updates, as well as representing ARIN at numerous outreach and training events, including the widely successful ARIN on the Road events.

## HUMAN RESOURCES & ADMINISTRATION



**Erin Alligood**  
*Director*

The Department of Human Resources and Administration took on many notable projects this year, one of the largest being a company-wide conversion of all payroll and timekeeping to Paychex. This conversion required a substantial effort by the HR/Admin team and other departments and has resulted in a more comprehensive solution with vastly improved reporting features. In addition to this project, ARIN implemented a new performance review system for its employees, which we put into place for our annual evaluations during the fourth quarter of the year. We also conducted an extensive employee benefit survey to ensure employee satisfaction with our benefits package.

This year the Human Resources and Administration team brought two new members onboard: Denise Alston joined as Receptionist, and Sarah Ba as Administrative Coordinator. Denise and Sarah are among five new hires for ARIN in 2014, bringing the total number of employees to 60. Our employee retention rate at ARIN remains at an impressive 94%, and approximately half of ARIN's employees have been with the company for six or more years. While ARIN prides itself on its employee tenure, we have had a healthy pipeline of new talent, a trend that will continue into 2015.

## COMMUNICATIONS & MEMBER SERVICES



**Susan Hamlin**  
*Director*

Communications and Member Services continues to bring new and easier opportunities for our community to interact and get involved with ARIN and the Policy Development Process (PDP). This includes in-person opportunities both large and small, and numerous remote opportunities to shape ARIN policy during this crucial stage in the Internet's evolution. In keeping with our education focus, CMSD also worked with Registration Services to develop new instructional videos for ARIN Online users and streamline many of the lengthier guidelines and instruction sets on ARIN's website.

During 2014 several open community consultations were held on topics both local and global in scale. On a local scale, consultations were held on the future of the ARIN Discuss Mailing List, Terms of Use for ARIN's Whois directory service, ARIN's fee schedule, and a new Experimental Allocation from 23.128.0.0/10, the space reserved to facilitate IPv6 deployment.

Globally focused consultations were held on ARIN's involvement in the Number Resource Organization (NRO) response to the IANA Stewardship Transition Coordination Group (ICG) "Request for Proposals (RFP) for IANA Stewardship Transition Proposal."

In-person opportunities for ARIN interaction continue to flourish in the form of Public Policy and Members Meetings (PPMs), Public Policy Consultations (PPCs), and ARIN on the Road events. ARIN held two PPMs and three PPCs during the North American Network Operator's Group (NANOG) meetings. ARIN on the Road, our lightweight ARIN training program, helped deliver crucial education and face time to underserved corners of the region where PPMs and PPCs are not held. In 2014, ARIN on the Road visited Salt Lake City, Cheyenne, Omaha, Anchorage, Winnipeg, and Columbia, SC. In addition, two ARIN + NANOG on the Road events were held in San Diego and Madison, with a full day of tutorials and networking opportunities. In 2015 we hope to grow the ARIN on the Road program and expand it to serve the Caribbean.

## FINANCIAL SERVICES



**Val Winkelman**  
*Director*

This year has brought big changes to ARIN's service departments, and Financial Services is no exception. This year the Financial Services team transitioned ARIN to a new bank, and we have been very pleased with the enhanced services and reduced fees offered by ARIN's new bank. This change included ARIN checking accounts, lockbox account, and corporate VISA, and it marked the end of an eight-year previous banking relationship. The ARIN community was notified by mail of the lockbox remittance change, and we have been happy to improve value by reducing financial processing costs.

Alongside the extensive list of new features introduced to ARIN Online this year, we have also seen the first full year of automatic revocation functionality in 2014. The first automatic revocations happened in early December 2013. Since that time, Financial Services have greatly appreciated this automation in our collection process. With all ARIN customers on the same schedule for notifications and further revocation action, ARIN's bad debt expenses have been greatly reduced.

## CHIEF INFORMATION OFFICER



**Richard Jimmerson**  
*CIO*

ARIN's goal is to provide the best Internet number registry experience possible. To help us better understand the needs of our customers, we started 2014 by conducting our first ever community-wide customer satisfaction survey. The participation numbers for the survey were very encouraging, and we learned much about what was most important to our customers. At the conclusion of the survey, we published the unedited results for full disclosure back to the community and immediately began taking actions to answer the most highlighted concerns.

To learn more about customer needs on an ongoing basis throughout the year, we added a feedback feature on the ARIN website. This feature has helped us better understand issues users are experiencing with our services and more quickly respond to their needs.

This has been a great addition to our long-standing telephone help-desk and other customer service features at ARIN.

Also in 2014, we continued to make improvements to our services in response to suggestions submitted by customers through the ARIN Consultation and Suggestion Process. This process enables the submission of formal customer suggestions to ARIN. Each suggestion receives a response from ARIN staff, and many of them are implemented as improvements to ARIN services.

The ARIN team enjoys the work we do for you, and as we move forward into 2015 we are committed to advancing our efforts to improve your Internet number registry experience.



## GOVERNMENT AFFAIRS & PUBLIC POLICY



**Cathy Handley**  
*Executive Director*

## INTERNET GOVERNANCE IN 2014

As we look back on 2014, it is clear that ARIN is a recognized player in the Internet Governance space. It was a busy year with much of the focus on preparation and attendance at major International Telecommunication Union (ITU) activities. The year started with the World Telecommunication Development Conference (WTDC) and ended with the Plenipotentiary Conference (PP). Both conferences are held every four years and in the case of the WTDC, set the direction for development sector activities. The PP sets the budget, sees the election of the ITU officials and sets the overall four-year course of the ITU. ARIN continued to follow the various issues being discussed at the ITU, worked closely with both individuals and organizations attending both conferences and continues to be seen as a trusted resource.

The major United Nations (UN) activity was the annual WSIS Forum held in July 2014. The purpose of the forum is to highlight progress and take stock on specific items from the WSIS known as "Action Lines." The ITU, the lead for certain Action Lines, traditionally hosts the forum with participation from the United Nations Educational, Scientific and Cultural Organization, the United Nations Conference on Trade and Development, and the United Nations Development Programme, the other action line stakeholders. Preparation for the forum took place over several months, with participants from governments, civil society, private sector and intergovernmental organisations. This World Summit on the Information Society (WSIS) Forum was an expanded version of past events and featured a High Level Meeting (HLM) before the actual Forum began. The HLM focused on several policy statements from participants and the endorsement of two WSIS Outcome

documents, which can be found on the ITU website.

April brought NETmundial, a meeting the likes we had not seen before. NETmundial was billed as a Global Multistakeholder Meeting on the Future of Internet Governance. The Brazilian Internet Steering Committee (CGI) and an organization known as 1Net helped organize the meeting. 1Net was an organization of various stakeholders and international organizations involved in the Internet and Internet governance. While the outcome of the meeting was non-binding it did produce some results, such as support of consensus-based decision making and a statement that ICANN should be under international control by September 2015.

While not part of NETmundial, just prior to the meeting, the US Commerce Department's National Telecommunications and Information Administration (NTIA) announced its intent to transition oversight of the Internet Assigned Numbers Authority (IANA) functions contract from NTIA to the global multistakeholder community. The NTIA announcement tasked ICANN with convening a global, multi-stakeholder process to develop a proposal for transition of the IANA oversight role.

The ARIN community discussed the IANA Stewardship Transition planning process via an open public mailing list in order to provide input to the Number Resource Organization (NRO) alongside the other RIRs. RIR input will be consolidated in early 2015 and a complete submission on behalf of the Internet number resource community will be forwarded to the IANA Stewardship Coordination Group (ICG).

## IANA STEWARDSHIP TRANSITION

On 14 March 2014 the US government announced a plan transition oversight of the Internet Assigned Numbers Authority (IANA) functions contract from the National Telecommunications and Information Administration (NTIA) to the global multistakeholder community. The current contract expires on 30 September 2015. Historically managed by the Internet Corporation for Assigned Names and Numbers (ICANN), IANA functions are part of Internet infrastructure and include responsibility for allocating and maintaining the unique codes and numbering systems used in Internet technical standards.

The Regional Internet Registries (RIRs) have convened a team of representatives to produce a single proposal to the IANA Stewardship Transition Coordination Group (ICG) in response to the RFP published on 3 September 2014. This team is known as the Consolidated RIR IANA

Stewardship Proposal Team (CRISP Team), and ARIN has appointed the following three members to the CRISP Team:

- Bill Woodcock, President and Research Director at Packet Clearing House, ARIN Board of Trustees
- John Sweeting, Sr. Director, Network Architecture & Engineering at Time Warner Cable, ARIN Advisory Council
- Michael Abejuela, Associate General Counsel at ARIN (non-voting member)

For more information about this transition, visit: <http://teamarin.net/education/internet-governance/iana-transition/>

# 2014 OUTREACH EVENTS

## CES

7 - 10 January | Las Vegas, NV  
Booth: #35403 in LVCC, South Hall 4

## PTC'14

19 - 22 January | Honolulu, HI  
Speaker: John Curran, President and CEO  
Session: Governance for a Global Resource with Global Implications

## NANOG 60

10 - 12 February | Atlanta, GA

## ARIN PPC at NANOG 60

11 February | Atlanta, GA

## Tribal Telecom and Technology Summit

10 - 12 February | Phoenix, AZ  
Speaker: John Curran, President and CEO  
Session: Keynote: Governance, Communications Technologies, and the Transition to IPv6

## APNIC 37

24 - 28 February | Petaling Jaya, Malaysia

## ARIN + NANOG on the Road San Diego

25 February | San Diego, CA

## ARIN on the Road Salt Lake City

27 February | Salt Lake City, Utah

## IETF 89

2 - 7 March | London, England

## v6 World Congress 2014

18 - 21 March | Paris, France  
Speaker: John Curran, President and CEO  
Session: Economics of IPv6 Transition

## ICANN 49

23 - 27 March | Singapore

## Global IPv6 Forum Summit

27 - 28 March | Richardson, TX  
Speaker: Richard Jimmerson, CIO  
Session: IPv4 Depletion and IPv6 Adoption Today  
Sponsorship: Bronze

## Cyber Dialogue 2014

30 - 31 March | Toronto, Canada  
Sponsorship: Bronze

## Interop Las Vegas

31 March - 4 April | Las Vegas, NV  
Booth #538

## PGConf NYC

3 - 4 April | New York, NY  
Speaker: Devon Mizelle, System Administrator  
Session: Building a High-Availability PostgreSQL Cluster at ARIN

## ARIN 33

13 - 16 April | Chicago, IL

## NETmundial

23 - 24 April | São Paulo, Brazil

## South School on Internet Governance

27 April - 2 May | Port of Spain, Trinidad and Tobago  
Speaker: John Curran, President and CEO  
Session: Defining Internet Governance: ARIN's Role  
Sponsorship: Copper

## CaribNOG 7

28 April - 2 May | Roseau, Dominica

## Scenarios for the Future of Internet Governance

30 April | Washington, DC  
Speaker: Richard Jimmerson, CIO  
Panel: What is the IANA Function? What led to the US decision to reduce its role in IANA? What are the risks and opportunities associated with this fundamental change?

## LACNIC 21

4 May - 9 May | Cancún, Mexico

## RIPE 68

12 - 16 May | Warsaw, Poland

## ARIN on the Road Cheyenne

20 May | Cheyenne, Wyoming

## ARIN on the Road Omaha

22 May | Omaha, Nebraska

## AFRINIC 20

25 May - 6 June | Djibouti, Djibouti

## NANOG 61

2 - 4 June | Bellevue, Washington  
Speaker: John Curran, President and CEO  
Session: Internet Governance Update

## ARIN PPC at NANOG 61

3 June | Bellevue, Washington

## ARIN on the Road Anchorage

5 June | Anchorage, Alaska

## ICANN 50

22 June - 26 June | London, England

## IGF USA

16 July | Washington, DC

## **IETF 90**

20 July - 25 July | Toronto, ON, Canada

## **Peer 2.0**

4 - 5 August

Speaker: Richard Jimmerson, CIO

Session: IPv4, IPv6 and AS allocation for network operators in a post-exhaustion world

## **Caribbean IGF**

6 - 8 August | The Bahamas

Speaker: Nate Davis, Chief Operating Officer

The Internet Ecosystem I: How the Internet works (Organizations, Roles and Relationships)

Speaker: Cathy Handley, Executive Director of Government Affairs and Public Policy

The Internet Ecosystem II: Participation, Policy and Multi-stakeholderism

## **CANTO 2014**

10 - 15 August | The Bahamas

Speaker: Nate Davis, COO

Session: Track 6: IPv6 Deployment and the IANA Oversight Transition Keynote: IPv6 and Internet Governance Developments

Exhibiting: Booth #34

## **US Government IPv6 Conference**

20 August | Washington, DC

Speaker: John Curran, President and CEO

Session: The Current State of IPv6 Adoption and Where it's Headed

## **IGF 2014**

2 - 5 September | Istanbul, Turkey

## **APNIC 38**

9 - 19 September | Brisbane, Australia

## **ARIN + NANOG on the Road Madison**

9 September | Madison, WI

## **ARIN on the Road Winnipeg**

11 September | Winnipeg, Manitoba

## **North American IPv6 Summit**

24 - 25 September | Denver, Colorado

Speaker: Richard Jimmerson, CIO

Keynote: 15 Years of IPv6

## **Interop New York**

29 September - 2 October | New York, NY

Booth #131

## **CaribNOG 8 – LACNIC Caribbean 6**

29 September - 3 October | Willemstad, Curacao

Sessions: ARIN Update by Mark Kusters

DNSSEC Tutorial by Mark Kusters and Carlos Martinez

## **NANOG 62**

6 - 8 October | Baltimore, MD

Lightning Talk by John Curran, ARIN President and CEO

Session: IANA Governance Changes

## **ARIN PPC at NANOG 62**

7 October | Baltimore, Maryland

## **ARIN 34**

9 - 10 October | Baltimore, MD

## **ICANN 51**

12 - 16 October | Los Angeles, CA

## **ITU Plenipotentiary Conference 2014**

20 October - 7 November | Busan, Korea

## **LACNIC 22**

27 - 31 October | Santiago, Chile

## **ARIN on the Road Columbia**

30 October | Columbia, SC

## **RIPE 69**

3 - 7 November | London, England

## **Canadian ISP Summit**

3 - 5 November | Toronto, ON

Sponsorship: Silver

## **IETF 91**

9 - 14 November | Honolulu, HI

## **gogoNET Live 5**

19 - 20 November | Sunnyvale, CA

Bronze sponsorship

## **AFRINIC 21**

22 - 28 November | Mauritius

## **ASAE Technology Conference**

16 - 17 December | National Harbor, MD

Booth #115



# POLICY DEVELOPMENT

The community in the ARIN region engages in a Policy Development Process (PDP) to define how ARIN will manage and administer Internet number resources. These community decisions are recorded as policies and published in the ARIN Number Resource Policy Manual (NRPM).

<https://www.arin.net/policy/nrpm.html>

On 14 January 2013, a new version of the PDP was implemented following its adoption by the ARIN Board of Trustees. The new PDP superseded the version that had been in place since 7 January 2009.

The PDP was established to bring forth clear, technically sound, and useful policy. To that end, the Advisory Council has been empowered as a development body, and the process has been balanced through the expansion of the community petition process.

In 2014, 22 policy proposals were submitted, 21 were advanced to draft policy status and discussed by the community, and nine (three of which were carried over from 2013) were adopted and implemented.

## VIEW POLICY PROPOSALS

Information about current draft policies and past policy proposals is available at: <https://www.arin.net/policy/proposals/>

## HOW DO INDIVIDUALS PARTICIPATE?

Subscribe to the Public Policy Mailing List (PPML) and discuss ideas for new policies, pending proposals, and draft policies: [https://www.arin.net/participate/mailing\\_lists/index.html](https://www.arin.net/participate/mailing_lists/index.html)

Participate in biannual Public Policy and Members Meetings or other Public Policy Consultations via webcast or as an attendee. <https://www.arin.net/participate/meetings/index.html>

Submit a proposal to create a new policy or to revise current policy. Read and follow the instructions in the PDP and submit your proposal. <https://www.arin.net/policy/pdp.html>



# ARIN



## PUBLIC POLICY CONSULTATION



One of the features of the new Policy Development Process (PDP) is the addition of the Public Policy Consultation (PPC), which allows for formal policy discussions to be held, in addition to biannual Public Policy Meetings, at other forums approved by the Board of Trustees. During 2014, three PPCs were conducted during North American Network Operators' Group (NANOG) meetings.

### VIEW THE REPORTS:

[https://www.arin.net/participate/meetings/reports/ppc\\_nanog60/index.html](https://www.arin.net/participate/meetings/reports/ppc_nanog60/index.html)

[https://www.arin.net/participate/meetings/reports/ppc\\_nanog61/index.html](https://www.arin.net/participate/meetings/reports/ppc_nanog61/index.html)

[https://www.arin.net/participate/meetings/reports/ppc\\_nanog62/index.html](https://www.arin.net/participate/meetings/reports/ppc_nanog62/index.html)

### NUMBER RESOURCE POLICY MANUAL (NRPM)

The NRPM is updated and published when new policies are adopted and implemented. Details of the changes are recorded in the NRPM Change Log ([https://www.arin.net/policy/nrpm\\_changelog.html](https://www.arin.net/policy/nrpm_changelog.html)), and the most recent version is available at: <https://www.arin.net/policy/nrpm.html>.



# ADVISORY COUNCIL

The Advisory Council (AC) serves in an advisory capacity to the Board of Trustees on Internet number resource policy and related matters. Adhering to the procedures in the Policy Development Process (PDP), the AC forwards consensus-based policy proposals to the Board for ratification.

The AC consists of 15 elected members. The President and CEO of ARIN is an ex-officio member and acts as the liaison between the Board of Trustees and the AC.

## 2014 MEMBERS:

**Dan Alexander**, *Vice Chair*

**Cathy Aronson**

**Kevin Blumberg**

**Bill Darte**

**Owen DeLong**

**Andrew Dul**

**David Farmer**

**Stacy Hughes** *(resigned May 2014)*

**Scott Leibrand**

**Tina Morris**

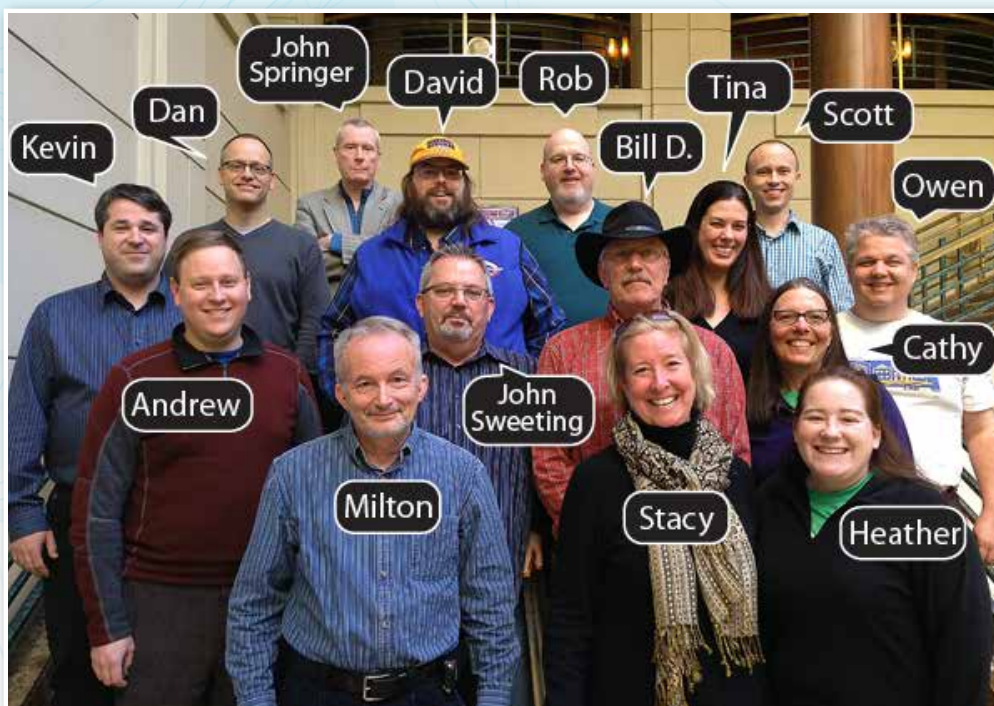
**Milton Mueller**

**Heather Schiller**

**Robert Seastrom**

**John Springer**

**John Sweeting**, *Chair*



The AC holds three in-person meetings and approximately nine teleconferences annually. The meeting minutes are published on the ARIN website:

[https://www.arin.net/about\\_us/ac/index.html](https://www.arin.net/about_us/ac/index.html)

Elections were held during October to seat five representatives on the AC for three-year terms, and two representatives were elected to one-year seats, which began 1 January 2015. Leif Sawyer and Christian Tacit were elected

and Kevin Blumberg, Andrew Dul, and David Farmer were re-elected. Dan Alexander and David Huberman were elected to fill the one-year seats.

Read the Election Guidelines for more information on how AC members are nominated and elected:

[https://www.arin.net/participate/elections/elec\\_procedures.html](https://www.arin.net/participate/elections/elec_procedures.html)

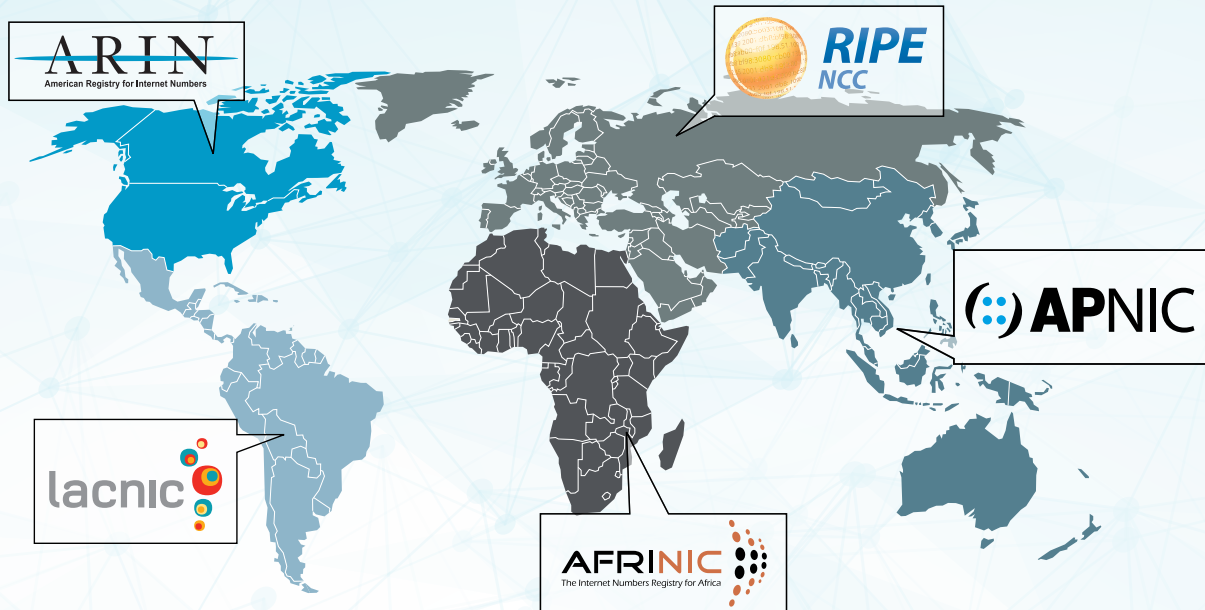


# GLOBAL POLICY AND THE NRO NUMBER COUNCIL



The Number Resource Organization (NRO), <http://www.nro.net>, is a coordinating body for the five Regional Internet Registries (RIRs) – AFRINIC, APNIC, ARIN, LACNIC, and RIPE NCC. The NRO Number Council (NRO NC) fulfills the role of the Internet Corporation of Assigned Names and Numbers (ICANN) Address Supporting Organization Address Council (ASO AC) (<http://aso.icann.org/>), providing advice to the Board of ICANN on Internet number resource policy, in conjunction with the RIRs.

There are three NRO NC representatives from each RIR region. The members from the ARIN region for 2014 were Ron Da Silva, Louis Lee, and Jason Schiller. We thank them for their service and commitment to the global Internet community.

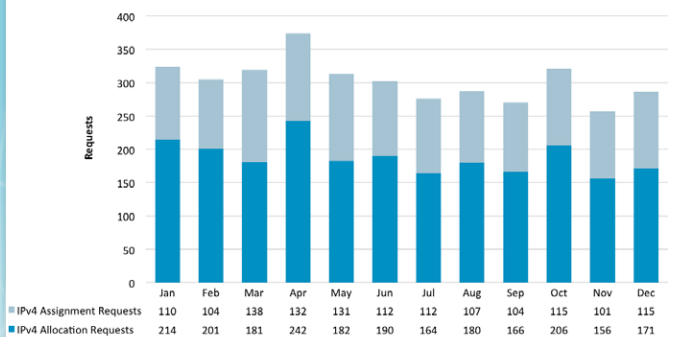




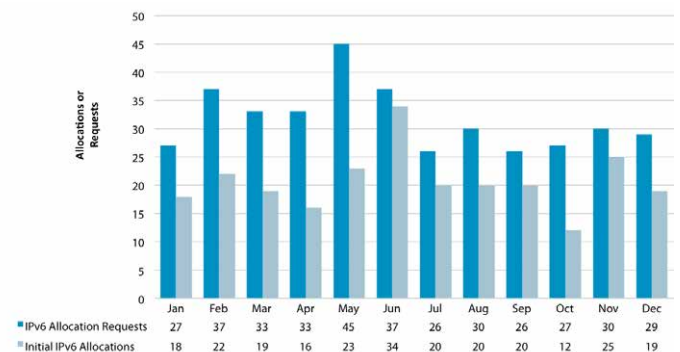
# 2014 **STATISTICS**

FOR MORE STATISTICAL REPORTS, VISIT: <https://www.arin.net/knowledge/statistics/>

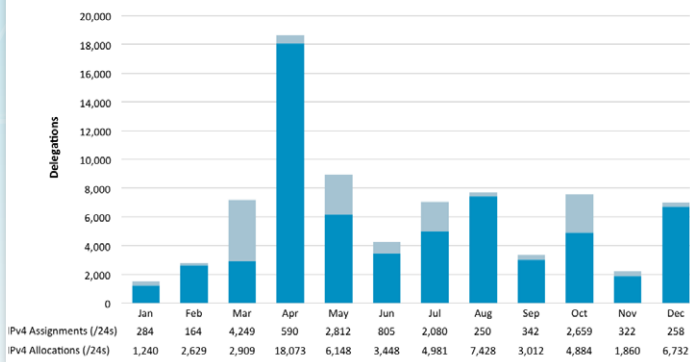
## 2014 IPv4 Address Requests



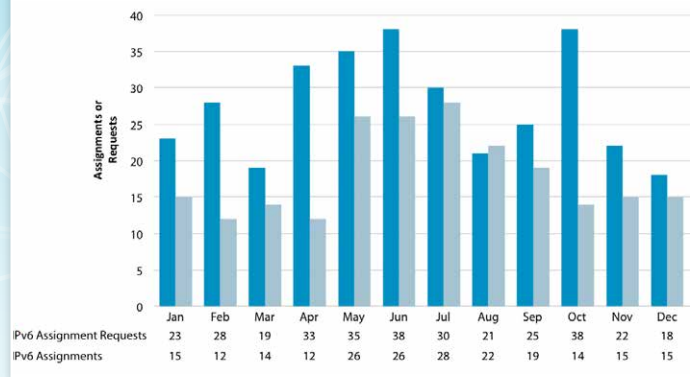
## 2014 IPv6 Address Allocations and Requests



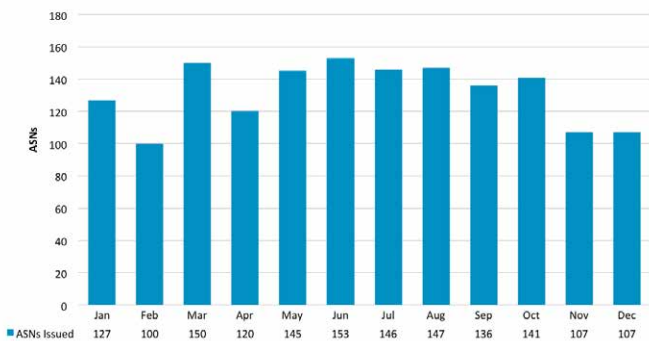
## 2014 IPv4 Address Delegations Issued by ARIN



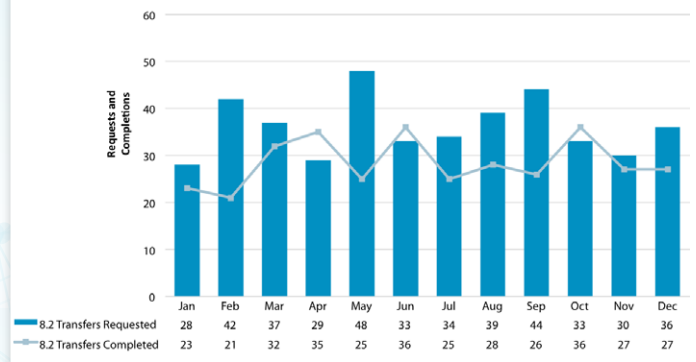
## 2014 IPv6 Address Assignments and Requests



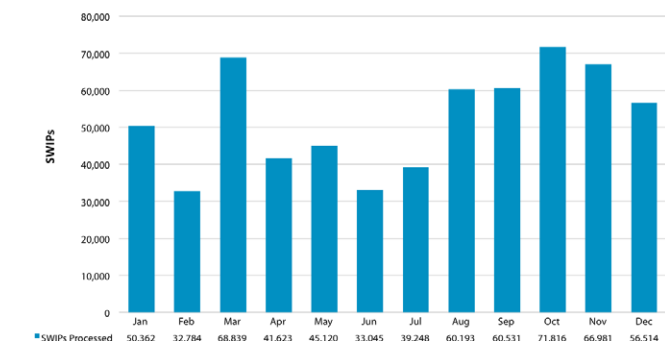
## 2014 Autonomous System Numbers Issued by ARIN



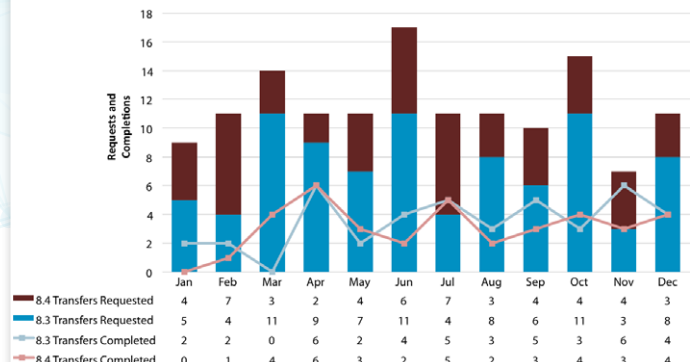
## 2014 New Requests for Transfers and Completed Transfers



## 2014 SWIP Templates Processed by ARIN

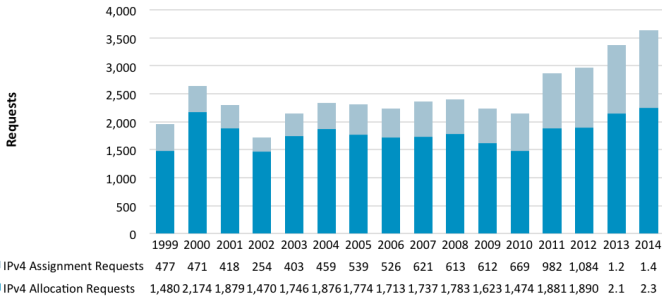


## 2014 New Requests for Transfers and Completed Transfers

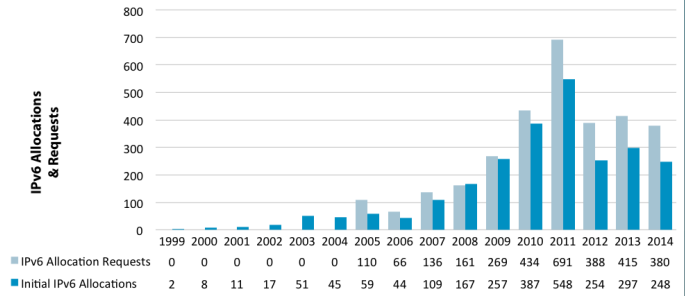




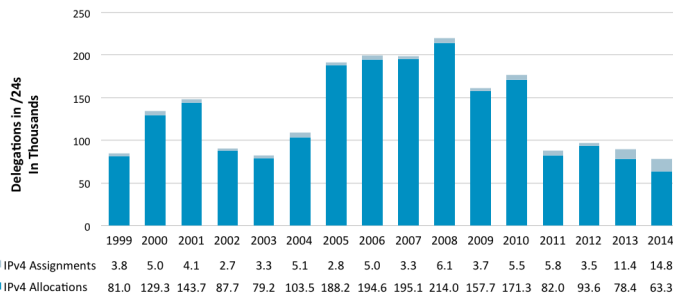
## IPv4 Address Requests by Category 1999-2014



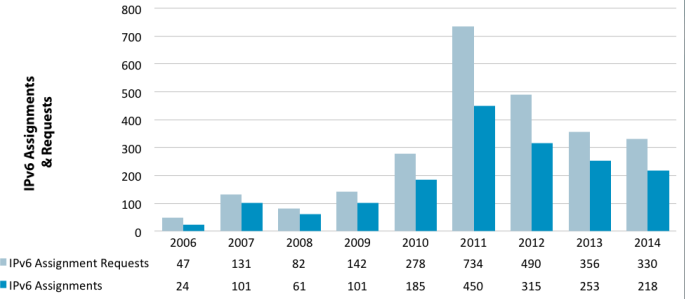
## IPv6 Address Allocations and Requests 1999-2014



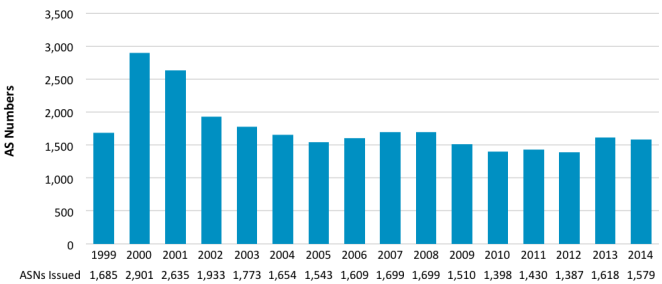
## ARIN IPv4 Address Delegations by Category 1999-2014



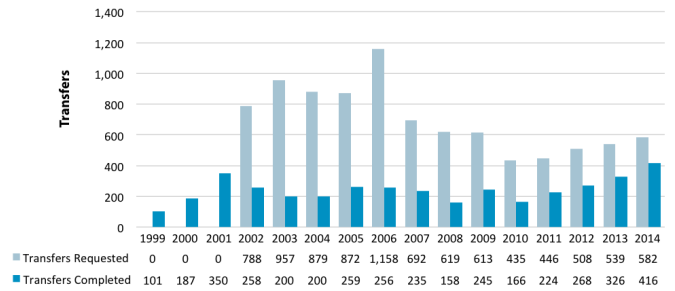
## ARIN IPv6 Address Assignments and Requests 2006 - 2014



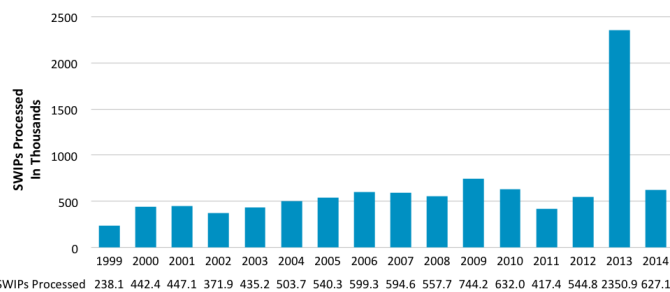
## AS Numbers Issued by ARIN 1999 - 2014



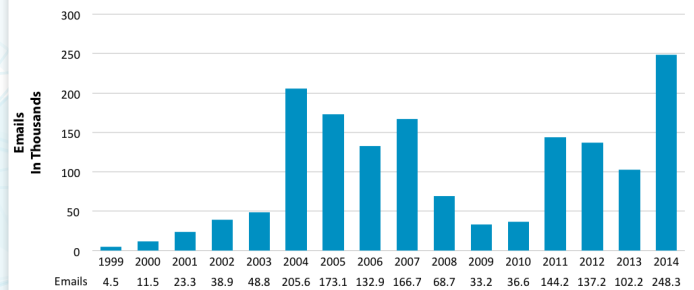
## New Transfer Requests and Completed Transfers 1999-2014



## SWIP Templates Processed by ARIN 1999-2014



## Email Received at hostmaster@arin.net 1999 - 2014



## AUDITORS' REPORT

ARIN operates as a nonprofit 501(c) 6. Federal guidelines do not require nonprofit organizations to undergo an annual financial audit. However, the ARIN Board of Trustees believes a financial audit is the best tool for oversight of financial management.

ARIN has an annual financial audit performed by an independent outside firm to fulfill the Board's fiduciary responsibility to the community, and the audited financial statements are included in the Annual Report.

The Financial Statements for the year ending 31 December 2014 will be made available for community review upon completion.