



# ARIN

American Registry for Internet Numbers

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## 2015 ANNUAL REPORT



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# ABOUT ARIN

ARIN provides services related to the technical coordination and management of Internet number resources in accordance with its 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.**

Services are grouped into four areas:

## Registration Services

These include the allocation, assignment and transfers of all Internet number resources (IPv4 and IPv6 addresses and Autonomous System Numbers), help desk operations, reverse delegation registration, and maintenance of the Whois directory service, the WhoWas historical registration database, and an Internet Routing Registry service within the ARIN service region.

## Organization Services

These pertain to interaction between ARIN members and stakeholders and ARIN. They include annual Board of Trustees and Advisory Council elections, Public Policy and Members Meetings, Public Relations, Education, Outreach, and Training services.

## Policy Development Services

These include 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 like the Number Resource Policy Manual (NRPM).

## Technical Services

These include the development, implementation, and support of ARIN's internal systems, as well as community services like ARIN Online, Cryptographic Authentication, DNS Security (DNSSEC), RESTful Provisioning (Reg-RWS), Resource Public Key Infrastructure (RPKI), Registry Data Access Protocol (RDAP) and a community software repository.





**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



The communications protocol upon which the Internet was built, Internet Protocol version 4 (IPv4), has officially exhausted itself in the ARIN region. For just over two decades, the top minds and organizations in the Internet technical community have known this day would come

when the global Internet would eventually outgrow its addressing protocol. The good news is that their foresight has led to the deployment of Internet Protocol version 6 (IPv6), which has potential to serve an Internet of almost endless proportions.

The exhaustion of IPv4 in September 2015 required a great deal of planning and execution on the part of both community and staff members at ARIN, from policy development focused on ensuring a seamless transition throughout the final phases of exhaustion to raising community awareness and preparing for the notable influx of IPv4 transfer requests. I commend you, the ARIN community, for your tireless efforts to secure a stable and promising future for the Internet.

Our communication and outreach has been focused on the transition from IPv4 to IPv6 for most of the past decade, and seeing these efforts result in smooth transition to the post-IPv4 world is a point of considerable pride. On the technical side, our software development efforts have ramped up significantly, bringing many suggestions for the community to successful closure, including the timely integration of IPv4 address and Autonomous System Number transfer within ARIN Online. Our focus for 2016 will include significant user interface improvements and further integration of customer requests into ARIN Online.

On behalf of the entire ARIN staff and myself, I wish to thank the community for your support leading up to this new chapter, and look forward to working with all of you in 2016.

John Curran

*President and CEO*

*ARIN*



# BOARD OF TRUSTEES REPORT

The Board establishes and maintains authority over ARIN's scope, mission, and strategic and fiscal direction. The Board also oversees committee nominations, appointments, and elections, and votes on community-developed draft policies 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 member.

## 2015 MEMBERS

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

**Vinton G. Cerf**, *Chair*

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

**Timothy Denton**, *Secretary*

**Aaron Hughes**

**Bill Sandiford**

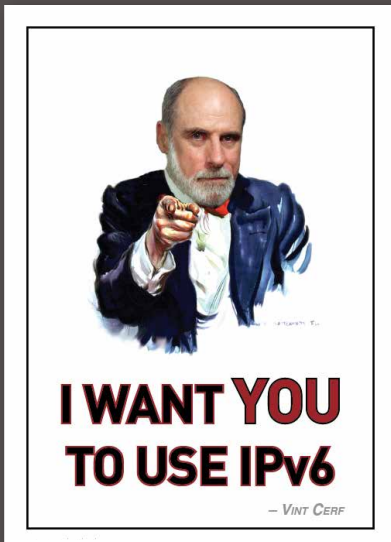
**Bill Woodcock**



Each year the Board holds approximately four in-person meetings and between five and ten teleconferences. View meeting minutes at: [https://www.arin.net/about\\_us/bot/index.html](https://www.arin.net/about_us/bot/index.html)

In October, Paul Andersen and Aaron Hughes were re-elected to the ARIN Board of Trustees for three-year terms beginning 1 January 2016. Read ARIN's election guidelines at: [https://www.arin.net/participate/elections/elec\\_procedures.html](https://www.arin.net/participate/elections/elec_procedures.html)





As ARIN nears its 20-year mark as a Regional Internet Registry, I feel honored to serve as the Chairman on its Board of Trustees. ARIN continues to support Internet operations through its registry services, the facilitation of registry policy development, and our informative outreach events, but 2015 brought a challenge to the organization unlike any we had experienced before.

On 24 September 2015, the free pool of IPv4 address space for the ARIN region was officially depleted. We had known for many years that this day was coming, but as with many of the Internet's milestones, we had no way to predict precisely when this event would occur. Fortunately, through no small effort by ARIN's community

and staff, this transition period has gone quite smoothly, and the organization was well prepared to handle the final rush of IPv4 requests and the ensuing increase in IPv4 transfer requests.

Throughout its history, ARIN has relied heavily upon community input and suggestions to shape its direction forward. As a result, we have not only successfully navigated the IPv4 depletion event (with appropriate policies and automation in place in a timely manner) but we have also built a library of knowledge and tools to support the community as it moves forward with IP version 6 (IPv6). If you have not yet adopted IPv6, or aware of others who might need help, I encourage you to utilize the IPv6 resources on the ARIN website to help with this journey.

I would like to thank the members of the Board of Trustees, the Advisory Council, and those serving on the Number Resource Organization Number Council. These elected volunteers do so very much to help ensure ARIN serves the community, and we are constantly reminded of the great effort they put forth. I join my fellow Board members in expressing immense pride in ARIN's continued dependability, even through such changing times. As to my own plans, it is my intent to complete my service to ARIN at the end of 2016. To assure a smooth transition, the Board has agreed that I will assume the vice chairmanship as of 1 July while the present vice chairman, Paul Andersen, takes the chair. I look forward to working with all of you during the year ahead.

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 ARIN Board Standing Rules
- Established ARIN Compensation Committee and appointed Vint Cerf (Committee Chair), Aaron Hughes, and Paul Andersen
- Established ARIN Finance Committee and appointed Paul Andersen (Committee Chair), Bill Woodcock, and Aaron Hughes. Noted John Curran as ex-officio
- Established ARIN Audit Committee and appointed Vint Cerf (Committee Chair), Bill Sandiford, and Tim Denton. Noted John Curran as ex-officio
- Established ARIN Board Governance Committee and appointed Paul Andersen (Committee Chair), Vint Cerf, and Bill Woodcock. Noted John Curran as ex-officio
- Accepted the Charter of the ARIN Mailing List Acceptable Use Policy (AUP) Committee and appointed Bill Sandiford (Committee Chair), Kevin Blumberg, and Ronald da Silva. Noted John Curran as ex-officio
- Appointed John Curran to serve on the 2015 Postel Network Operator's Scholarship Program
- Appointed Paul Andersen to serve as ARIN Board Observer to the NRO EC
- Reviewed Directors and Officers Fiduciary Duty, presented by ARIN's General Counsel
- Authorized Treasurer to approve future commitments to "approve expenses beyond the current approved budget year"
- Adopted ARIN-2014-9: Resolve Conflict Between RSA and 8.2 Utilization Requirements
- Adopted 2015 ARIN Advisory Council Travel Policy
- Reviewed 2014 ARIN Fellowship Report and agreed to offer reimbursement for ARIN Fellow's travel to co-located NANOG Meetings
- Accepted the 2015 Fellowship Selection Committee and appointed Bill Sandiford (Committee Chair), Paul Andersen, Tina Morris, John Kuhn, and John Sweeting
- Adopted ARIN-2014-7: Change Utilization Requirements from Last-Allocation to Total-Aggregate
- Accepted changes to ARIN Election Bylaws. Revised the Voting Contact eligibility rule, including modifying the eligibility deadline from 60 days before election to 45 days prior and replacing "designated member representative" to "Voting Contact"
- Accepted 2014 Independent Financial Audit Report
- Extended congratulations to Alan Barrett in his new position of CEO of the African Network Information Center (AFRINIC)
- Adopted editorial changes made to Section 5 of the ARIN Number Resource Policy Manual (NRPM)
- Adopted ARIN-2014-6: Remove Operational Reverse DNS Text
- Adopted ARIN-2014-21: Modification to CI Pool Size per Section 4.4
- Adopted the 2015 Nominations Committee Charter
- Appointed the Nomination Committee with committee members Timothy Denton (Committee Chair) and Bill Woodcock
- Appointed Bill Sandiford as 2015 Election Vote Counter
- Directed the Finance Committee to review support of the Internet Society (ISOC)/Internet Engineering Task Force (IETF) Endowment and Cryptech funding
- Accepted revisions to the 2015 ARIN Fellowship Selection Committee Charter to allow consideration of applicants who attended past meetings and past ARIN Fellows
- Adopted changes to the ARIN Bylaws with regard to the Election Notice Requirement
- Reviewed and accepted ARIN IRS Form 990 and F5713 for filing with the Internal Revenue Service (IRS)
- Appointed John Sweeting to serve as Number Resource Organization Number Council (NRO NC) Member through the remainder of 2015
- Adopted 2016-2017 Strategic Plan
- Appointed John Sweeting to serve a two-year term as ARIN-Region NRO NC/ASO from 01 January 2016 through 31 December 2017
- Adopted the Registration Services Agreement (RSA)/Legacy RSA (LRSA)
- Approved staff proceeding with securing new office space to accommodate staff and proceed with moving plans
- Confirmed the results of the ARIN 2015 election process
- Adopted changes to the 2015 ARIN Advisory Council and 2015 ARIN Board of Trustees Travel Policies
- Adopted ARIN-2015-1: Modification to Criteria for IPv6 Initial End-User Assignments
- Adopted ARIN-2015-4: Modify Section 8.2 to Better Reflect How ARIN Handles Reorganizations
- Approved the 2015 401K discretionary match for ARIN employees
- Adopted the ARIN Fee Schedule
- Approved ARIN 2016-2017 Draft Budget
- Approved proposal of travel costs of \$20K USD in support of AFRINIC's participation, at their discretion, of Regional Internet Registry meetings.
- Recognized and appreciated Rob Blokzijl's many years of service to the Internet community and to RIPE NCC. Extended their deepest condolences to the Blokzijl's family and their friends, on behalf of the ARIN community







**Nate Davis**  
*Chief Operating Officer*

## CHIEF OPERATING OFFICER'S REPORT

2015 proved to be another productive and successful year for ARIN. Efforts to improve ARIN's ability to serve our community consistent with our mission and operating goals continued resolutely. The completed key objectives in support of ARIN's strategic plan were:

- Conducted nine ARIN on the Road Events, two Public Policy Consultations, and two ARIN Public Policy and Members Meetings
- Completed Number Resource Policy Manual (NRPM) sections 8.2 and 8.3 transfer functionality within ARIN Online
- Deployed the following enhancements
  - RIR Whois Syntax (RDAP) (ACSP 2008.21)
  - Added links to Whois query responses (ACSP 2011.29)
  - Changed Whois output for certain /8 records from other Regional Internet Registries (RIRs) in order that they no longer appear as the parent networks in Whois search results (ACSP 2013.4)
  - Two-factor authentication for ARIN Online (ACSP 2013.8)
  - A daily report of ARIN-issued AS Numbers (ACSP 2014.27)
  - Support for HTTPS for Whois-RWS (ACSP 2014.4)
  - Enable SSL support for whois.arin.net (ACSP 2014.29)
  - Publishing Point of Contact (POC) verification statistics
  - Modified template processing responses to conform to RFC 3156 with PGP signatures and multi-part messages
- Migrated from Designated Member Representatives (DMRs) to Voting Contact terminology as part of election system improvements
- Completed the 2014 annual independent financial audit
- 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 complete efforts in automating NRPM section 8.4 transfers as well as continuing efforts on other community requested enhancements in 2016.



# 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

Provide Customer Support from 9:00 AM to 5:00 PM, Eastern Time, Monday through Friday, excluding holidays

Respond to phone and email messages from ARIN customers within two business days

### ***Billing schedule commitment:***

Send invoices for new registrations within three (3) business days following the approval announcement sent by Registration Services

Send invoices for renewal IP allocations forty-five (45) days in advance of the beginning of the anniversary month

Send invoices for maintenance thirty (30) days prior to the beginning of the anniversary month



99.8%



100%



100%



100%



100%



## COMMUNICATIONS & MEMBER SERVICES

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

Provide Customer Support from 7:00 AM to 7:00 PM Eastern Time, Monday through Friday, excluding holidays

Respond to all email within two (2) business days at the latest, with the intended goal being a same day response

Provide issue escalation services from 10:00 AM to 4:00 PM Eastern time, Monday through Friday, excluding holidays

Response time by staff to ARIN Online web tickets

**\*Phase 4 of IPv4 depletion did not allow for consistent two-day processing of IPv4 free pool requests. All other request types were consistently responded to within two (2) business days.**



99.8%



90%



100%



2.5 Days

# ENGINEERING

Auto reply for Registration

100%

Auto reply for Routing Registry

100%

DNS Reverse Master Zones

99.9%

DNS Provided by ARIN

100%

FTP Data

100%

RESTful (Reg-RWS) Services

100%

Routing Registry

100%

RWhois

100%

Web Whois

100%

Webserver (http)

100%

Webserver (https)

100%

ARIN Online

100%

RPKI Repository

100%

RPKI Provisioning

100%

Whois

100%

Whois-RWS

100%

RDAP

100%



## ENGINEERING



**Mark Kusters**  
*Chief Technology Officer*

In 2015 the ARIN Engineering team focused heavily on ARIN Online improvements, community-suggested improvements fielded through ARIN's Suggestion and Consultation Process (ACSP), and overall service availability.

The main focus within ARIN Online has been IPv4 and Autonomous System Number (ASN) transfers and transfer pre-approvals. Transfers Due to Mergers and Acquisitions and Transfers to Specified Recipients within the ARIN Region have been integrated into ARIN Online, and Inter-RIR transfers will follow in 2016. We are working with the other Regional Internet Registries (RIRs) to streamline the process for the management of IP address space from RIR to RIR. ARIN also successfully fulfilled and closed ten suggestions from the community for enhancements to ARIN Online during the year.

ARIN, as a leader in the IETF Web Extensible Internet Registration Data Service working group (WEIRDS)

instituted an IETF-compliant Registry Directory Service Protocol (RDAP) to complement both the Whois RESTful Web Service (Whois-RWS) and the traditional Whois directory services. We have also enabled https access to both RDAP and Whois-RWS offerings after replacing our non-compliant IPv6 load-balancing hardware. This satisfied an additional two community suggestions.

Over the past year we have also enhanced our footprint for external services adding an additional Public Facing Site (PFS) to our existing two operational sites. We now have PFS sites in Santa Clara, CA; Seattle, WA; and Ashburn, VA. ARIN also has two PFS-lite sites (DNS-only sites) located in Toronto, ONT and St. Maarten. We also added redundant transit paths to our PFS' as well as our provisioning network (based also in our Ashburn co-location center) with protection from Distributed Denial of Service (DDOS) attacks.

## REGISTRATION SERVICES



**Richard Jimmerson**  
*Interim Director*

At the beginning of 2015, there was a strong focus on IPv4 free pool request processing. By the end of the year, the IPv4 free pool had depleted and focus largely shifted to change of authority request types. These include organization recoveries, Point of Contact recoveries, organization name changes, and registration transfers of all types.

At the start of the year ARIN was in Phase 4 of our IPv4 Countdown Plan, which required team review of all IPv4 requests and ensured ticket responses were made on a chronological "first in, first out" basis. These long-documented processing procedures ensured fair distribution of the final blocks from ARIN's IPv4 free pool and started the numbered order of the waiting list for unmet requests. The IPv4 free pool officially reached depletion in September, and by year's end over 200 organizations were on the waiting list. The number of IPv4 requests destined for that list dropped to approximately a third of the peak request volume of 2015.

This reduction in request traffic was more than compensated for by the significant increase in other types of requests. We saw a sharp rise in the number of organization recovery requests, for instance. These requests

are made when an organization has not been maintained for many years (usually legacy resource holders) and someone requests to become an active administrator of the organization's resources with ARIN. These requests are treated with the same care and attention as transfer requests, which also ramped up in number near the end of 2015, becoming the most work-intensive request type for ARIN's Registration Services Department.

In the third quarter of 2015, we conducted our biannual, independent audit to ensure community-established policies and internal practices were being followed. The audit resulted in a positive report confirming our adherence to policy and internally documented procedures.

All of this work was accomplished by eleven dedicated staff members, including a director, functional area managers, and resource analysts. The team answered 9,091 customer telephone calls and thousands of request tickets throughout the year. The entire team is committed to providing the best possible service to you with the highest levels of care and attention to the integrity of your registration records. We look forward to serving you in 2016 and beyond.

## HUMAN RESOURCES & ADMINISTRATION



**Erin Alligood**  
*Director*

2015 was a year of growth for ARIN. The Human Resources and Administration team on-boarded a total of 24 new hires in 2015, over half of whom were employee referrals. This brought the total number of employees to a record 79. Employee retention at ARIN remains at an impressive 95%, and even with the growth we experienced in 2015, our average employee tenure is still high at five years. Given these statistics and the number of employee referrals, it demonstrates that our employees truly value ARIN as their employer.

This past year the Human Resources and Administration team completed several notable projects, including company-wide harassment prevention and diversity

training. We also conducted a salary survey to ensure that ARIN is competitive in the DC metro area job market. This valuable information will help ARIN attract and retain the best talent going forward.

In 2016, we are preparing for the significant effort of moving to a new office space, which will help us accommodate the increased staff levels at ARIN. Our move is currently projected for August 2016. The new office will provide additional benefits such as improved security and flexibility for the future.

## COMMUNICATIONS & MEMBER SERVICES



**Susan Hamlin**  
*Director*

2015 saw the culmination of ARIN's greatest communications effort as the IPv4 free pool in our region reached zero /8 equivalents, triggering spikes in mainstream and social media coverage, and amplifying our community's focus on IPv6 adoption. The impending depletion of IPv4 and the need to adopt IPv6 have been focal points of our Get6 outreach campaign throughout the region, beginning at the Consumer Electronics Show in January, and continuing at the National Press Club, the Open Networking User Group, the Canadian ISP Summit, and beyond.

Outreach efforts also spanned the region in the form of ARIN on the Road, held jointly with NANOG in Orlando and Chicago, and flying solo in Ottawa, Halifax, Helena, Dominica, Fairfield NJ, and Lansing MI. We continued to engage with audiences in the Caribbean at a range of events, including the Caribbean Telecommunication Union's 25th Anniversary program, Grenada ICT week, British Virgin Islands ICT Week, Caribbean Internet Governance Forum, CANTO, and technical presentations at CaribNOG events.

We kicked our social media presence into high gear to cover these significant milestones and outreach efforts, drawing

record interest in our company and guest blogs, and prompting a successful "Ask Me Anything" session on Reddit with ARIN President and CEO John Curran.

CMSD continues to facilitate our Policy Development Process (PDP), conducting Public Policy Consultations at NANOG 63 and 64, and two Public Policy and Members Meetings in San Francisco and Montreal. Participant numbers continue to rise, with a greater influx of new faces this year, a trend we aim to give further strength to through our newly expanded fellowship program. We have increased the possible number of fellows five fold, and offer our fellows the opportunity to attend adjoining NANOG or CaribNOG meetings as they occur.

Also of note, ARIN held three successful open community consultations in 2015, pertaining to IRR Route Validation, Election-related Bylaws changes and revisions to the Registration Services Agreement. To improve engagement even further, ARIN signed a Memorandum of Understanding with the North American Regional at Large Organization of ICANN (NARALO), a partnership to identify areas of cooperative outreach activities in support of Internet number resource policy development.



## FINANCIAL SERVICES



**Val Winkelman**  
*Director*

Much as it did for the entire Internet community, 2015 brought several key changes to ARIN's Financial Services. Perhaps the most notable was a long-anticipated upgrade to ARIN's accounting software. The Financial Services team underwent intensive training on this new accounting software, and was heavily involved in the development, testing, and deployment of the software to production. The team and our members have benefited from its completely redesigned user interface as well as its deep integration into ARIN Online. This upgrade involved a significant effort from ARIN's Engineering department to thoroughly test the software and its compatibility with our systems and covered a four-month span from planning to implementation.

As a result of ARIN's 2014 changes in banking services, we are now able to accept Automated Clearing House (ACH) payments from our members. As an organization, ARIN has received 248 ACH payments since the announcement of this service in April 2015. We also saw a \$31,000 reduction in our banking fee expenses for 2015. As confirmed by the independent financial audit conducted in early 2015, ARIN's accounting practices remain consistent with Generally Acceptable Accounting Principles (GAAP) and ARIN remains financially sound heading into 2016.

## FROM THE SENIOR DIRECTOR OF GLOBAL REGISTRY KNOWLEDGE



**Leslie Nobile**

As ARIN's new Senior Director of Global Registry Knowledge, one of my main tasks will be the development and oversight of an ongoing program to assess Internet registry data quality and integrity globally, and making recommendations for relevant process improvements within ARIN.

Projects for 2015 encompassed both regional and global initiatives. Projects included an analysis of the issues created by the thousands of instances of the ARIN Point of Contact record (POC) CKN-23-ARIN (No Contact Known), a result of past changes made to ARIN's database structure, as well as recommendations for solutions and improvements. Additionally, I reviewed ARIN's automated system for validating every registered POC in its database in order to evaluate any data integrity implications and recommended process improvements. I also worked to develop a global procedural document that all five RIRs can use

to synchronize our coordination efforts during inter-RIR transfers as well as upon receipt of new IANA IPv4 blocks; and researched and documented all "historic" or "legacy" assignment practices in each of the RIRs. All recommendations related to these four projects were reviewed and are currently in the process of being implemented, or will be in 2016 and beyond.

2016 projects will include researching and documenting Whois accuracy practices and requirements across the global registry system and recommending internal vetting and data maintenance process improvements at ARIN; additional work on inter-RIR transfers; and an analysis of IPv6 reassignment policy compliance and implications. I will also continue to liaise with the law enforcement community on issues concerning data accuracy and cyber crime, represent ARIN in discussions of registry data quality globally, and support ARIN's outreach efforts.





## GOVERNMENT AFFAIRS & PUBLIC POLICY



**Cathy Handley**  
*Executive Director*

Internet Governance activities in 2015 were punctuated by the conclusion of a multi-year review by the United Nations of the World Summit on the Information Society known as WSIS+10. The results of the review were published in an Outcome Document, available at:

<http://www.itu.int/net/wsis/implementation/2014/forum/dam/documents.html#outcomes>

The draft version of this document was subject to negotiations by various stakeholders during the second half of 2015, with final adoption during the December United Nations General Assembly meetings. Nothing problematic came to light as a result of the review, which was good news for all involved.

In many cases, the Outcome Document strengthened existing key values in Internet Governance including the multistakeholder concept. As stated in paragraph 62 of the Outcome Document:

“We recognize paragraph 29 of the Tunis Agenda and that the management of the Internet as a global facility includes multilateral, transparent, democratic and multistakeholder processes, with the full involvement of governments, the private sector, civil society, international organizations, technical and academic communities, and all other relevant stakeholders in accordance with their respective roles and responsibilities.”

The Internet Governance Forum (IGF) was officially renewed for ten more years in 2015, marking its second renewal since its inception, and offering a promising future for all involved and active organizations.

In other news, Information Communications Technology (ICT) was recognized as an important enabler for development, which in turn supports the UN’s Sustainable Development Goals (SDGs). Additionally, the topic of “Human Rights on the Internet” was the subject of lengthy debates and in the end was recognized as being a fundamental part of the Information Society, a significant act considering the document was not developed by just one set of stakeholders, it was truly a multistakeholder effort. The technical community was very active in the process as well, serving as a knowledge base for the various governments and offered valuable insights to various issues.

While these are all good “wins” we cannot lose sight of the fact that the Information Society is constantly evolving and changing. We all have a responsibility to continue to build on those relationships that will allow the Internet to flourish in coming years.



# 2015 OUTREACH EVENTS

## **CES 2015**

6 – 9 January | Las Vegas, NV

## **PTC 15**

17 – 21 January | Honolulu, HI

Speaker: John Curran, President and CEO

Session: Executive Insight Roundtable 10: Internet Governance

## **NANOG 63**

2 – 4 February | San Antonio, TX

Speaker: John Curran, President and CEO

Session: Stewardship and Accountability for Internet Identifiers

## **ARIN PPC at NANOG 63**

3 February | San Antonio, TX

## **CTU 25th Anniversary**

2 – 6 February | Trinidad and Tobago

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

Keynote Address: Leveraging the Internet for National Development

## **ICANN 52**

8 – 12 February | Singapore

## **APNIC 39**

24 February – 6 March | Fukuoka, Japan

## **Grenada ICT Week**

16 – 20 March | Grenada

Speakers: Mark Kusters, Chief Technology Officer & Leslie Nobile, Senior Director of Global Registry Knowledge

## **IETF 92**

22 – 27 March | Dallas, TX

## **Americas Interconnection Summit**

7 – 10 April | San Diego, CA

Speaker: John Curran, President and CEO

Session: IP Addresses for Internet Exchanges

## **SSIG 2015**

20 – 24 April | San José, Costa Rica

South School on Internet Governance

## **North American IPv6 Summit**

22 – 23 April | Greenwood Village, CO

Speaker: Mark Kusters, Chief Technology Officer

Session: State of IPv6

## **CaribNOG 9**

27 April – 1 May | Castries, St. Lucia

Speaker: Mark Kusters, Chief Technology Officer

Sessions: ARIN Update and Understanding DNSSEC

## **RIPE 70**

11 – 15 May | Amsterdam, Netherlands

## **LACNIC 23**

18 – 22 May | Lima, Peru

## **NANOG 64**

1 – 3 June | San Francisco, CA

## **AFRINIC 22**

3 – 5 June | Tunisia

## **Visual Communications and Infographics Summit**

8 – 9 June | Aurora, CO

Speaker: Jennifer Bly, Public Relations and Social Media Coordinator

Session: Infographics Bootcamp for PR and Corporate Communicators

## **ISP Radio**

17 June

Speaker: Richard Jimmerson, Chief Information Officer

Spoke about IPv4 depletion on ISP radio show

## **ICANN 53**

21 – 25 June | Buenos Aires, Argentina

## **IGF USA**

16 July | Washington, DC

## **IETF 93**

19 – 24 July | Prague, Czech Republic

## **CANTO 2015**

26 – 31 July | Miami, FL

Speaker: Richard Jimmerson, Chief Information Officer

Session: The Ever Changing ICT Ecosystem – A Detailed Look into the Fundamental Changes in the Industry

## **Campus Technology 2015**

27 – 30 July | Boston, MA

Speaker: John Curran, President and CEO

Session: Changing the Campus IT Networks

## **Caribbean IGF**

26 – 28 August | Port of Spain, Trinidad and Tobago

Speaker: John Curran, President and CEO

Session: Introduction to the Internet Ecosystem

## **APNIC 40**

3 – 10 September | Jakarta, Indonesia

## **ISCC Symposium**

24 September | Ottawa, Canada

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

Panel Session: ICANN Accountability and the Transition of IANA Stewardship

## **BVI ICT Week**

28 September – 1 October | British Virgin Islands

Speaker: John Curran, President and CEO

Session: Deploying e-Gov Services in Today's Internet

## **LACNIC 24**

28 September – 2 October | Bogotá, Colombia

## **NANOG 65**

5 – 7 October | Montréal, Canada

## **ICANN 54**

18 – 22 October | Dublin, Ireland

## **IETF 94**

1 – 6 November | Yokohama, Japan

## **Dominios Latinoamérica Conference**

2 – 3 November | San José, Costa Rica

Speaker: John Curran, President and CEO

Session: Moving to IPv6

## **ONUG**

3 – 5 November | New York, NY

Speaker: John Curran, President and CEO

Session: IPv6: An Open Cloud Infrastructure Enabler or Corporate Tax?

## **Canadian ISP Summit**

9 – 11 November | Toronto, Canada

Speaker: Richard Jimmerson, Chief Information Officer

Session: IPv6 – Now You Have No Choice

## **IGF 2015**

10 – 13 November | João Pessoa, Brazil

## **RIPE 71**

16 – 20 November | Bucharest, Romania

## **AFRINIC 23**

28 November – 4 December | Pointe Noire, Congo



# POLICY DEVELOPMENT



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

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

In 2015, 11 policy proposals were submitted, all of which were promoted to Draft Policies and discussed by the community on the Public Policy Mailing List and at the ARIN 35 and ARIN 36 Public Policy and Members Meetings. Four draft policies were promoted to Recommended Draft Policies as a result of these discussions, and two of those four will be implemented in 2016. Seven draft policies will continue to be worked on in 2016.

## VIEW POLICY PROPOSALS

Information about current draft policies and past policy proposals is available at:

<https://www.arin.net/policy/proposals/>

## HOW TO 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 in person or remotely.

<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>

# PUBLIC POLICY CONSULTATIONS

ARIN



One of the features of the 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 and Members Meetings, at other forums approved by the Board of Trustees. In 2015, two PPCs were conducted during North American Network Operators' Group (NANOG) meetings.

#### View the Reports:

[https://www.arin.net/participate/meetings/reports/ppc\\_nanog63/index.html](https://www.arin.net/participate/meetings/reports/ppc_nanog63/index.html)

[https://www.arin.net/participate/meetings/reports/ppc\\_nanog64/index.html](https://www.arin.net/participate/meetings/reports/ppc_nanog64/index.html)

# ADVISORY COUNCIL

The AC advises the Board of Trustees on Internet number resource policy and related matters and forwards recommended draft policies to the Board for ratification, in adherence with the Policy Development Process (PDP).

The AC consists of 15 elected members, and ARIN's President and CEO, who serves as an ex-officio member and AC-Board liaison.

## 2015 MEMBERS:

**Dan Alexander**, *Chair*

**Cathy Aronson**

**Kevin Blumberg**, *Vice Chair*

**Owen DeLong**

**Andrew Dul**

**David Farmer**

**David Huberman**

**Scott Leibrand**

**Tina Morris**

**Milton Mueller**

**Leif Sawyer**

**Heather Schiller**

**Robert Seastrom**

**John Springer**

**Chris Tacit**



Each year the AC holds three in-person meetings and approximately nine teleconferences. View meeting minutes at:

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

### 2015 Election Results

In October, Dan Alexander, David Huberman, Rob Seastrom, and John Springer were re-elected, and Amy Beth Potter was elected to the AC for three-year terms beginning 1 January 2016. Read ARIN's election guidelines at:

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



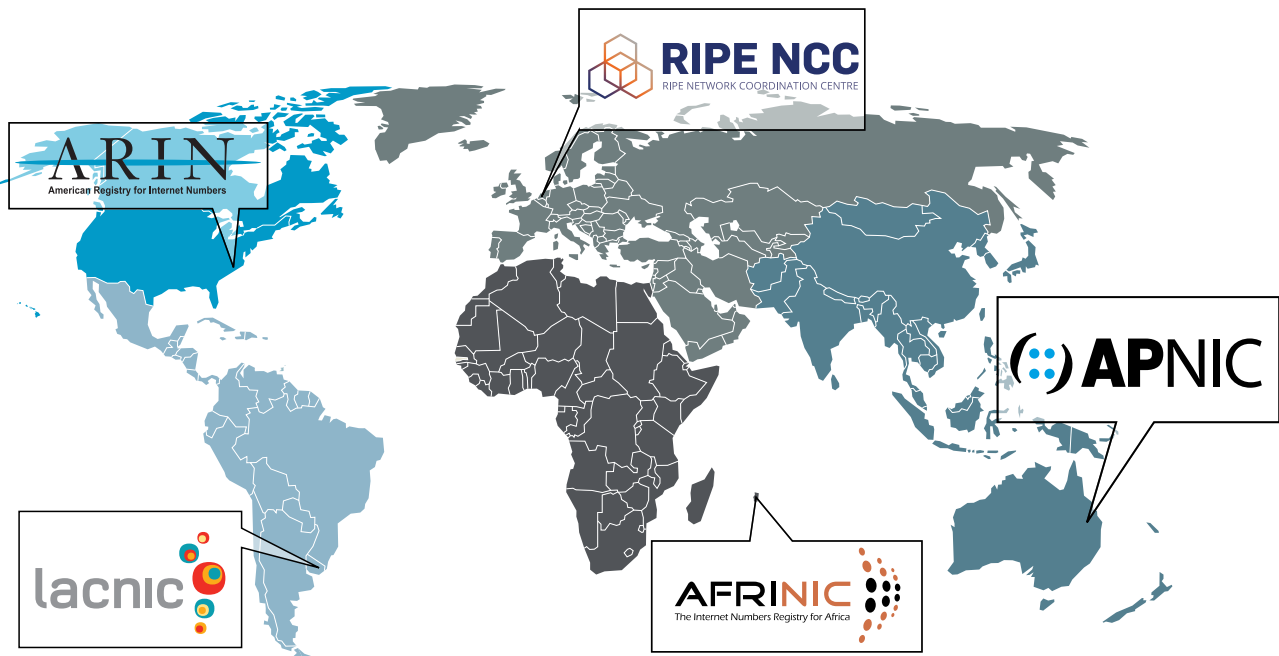
# GLOBAL POLICY AND THE NRO NUMBER COUNCIL



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.

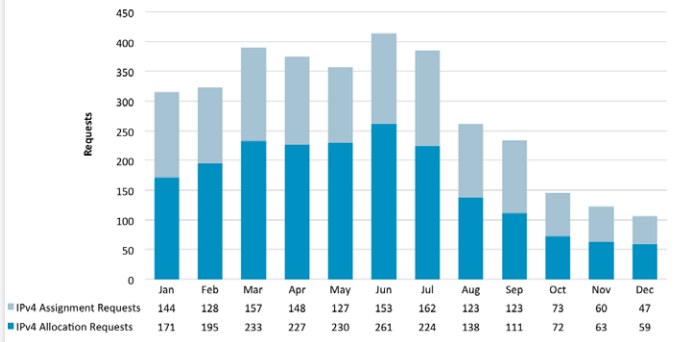
There are three NRO NC representatives from each RIR region. The members from the ARIN region for 2015 were Ron Da Silva, Louis Lee, and Jason Schiller. We thank them for their service and commitment to the global Internet community.



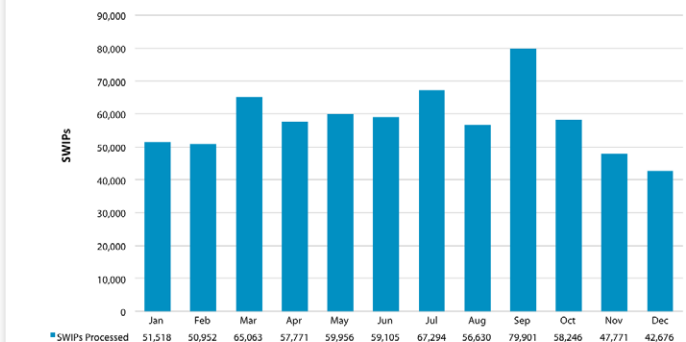
# STATISTICS & REPORTS

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

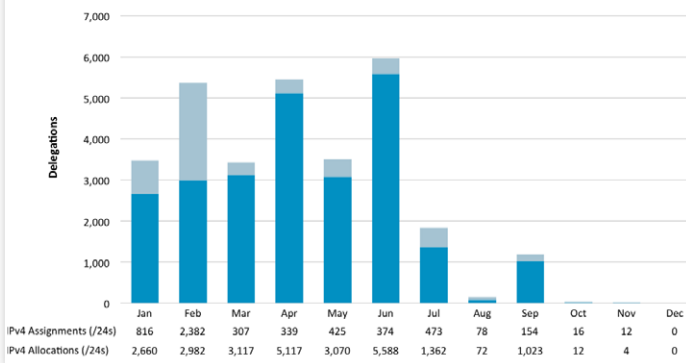
## 2015 IPv4 Address Requests



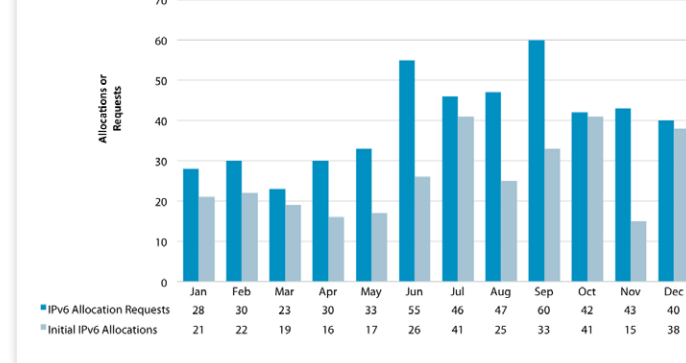
## 2015 SWIP Templates Processed by ARIN



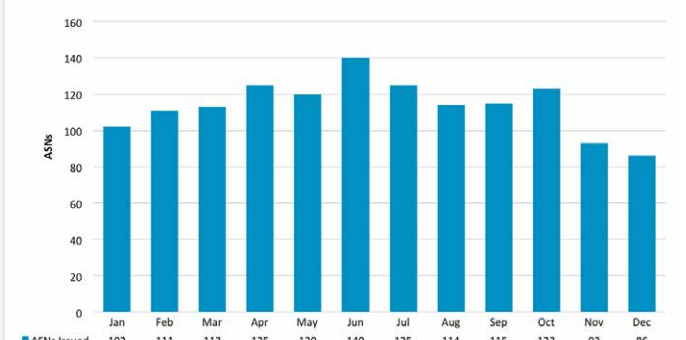
## 2015 IPv4 Address Delegations Issued by ARIN



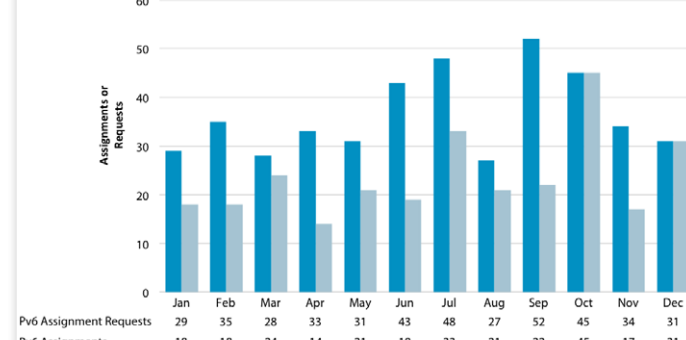
## 2015 IPv6 Address Allocations and Requests



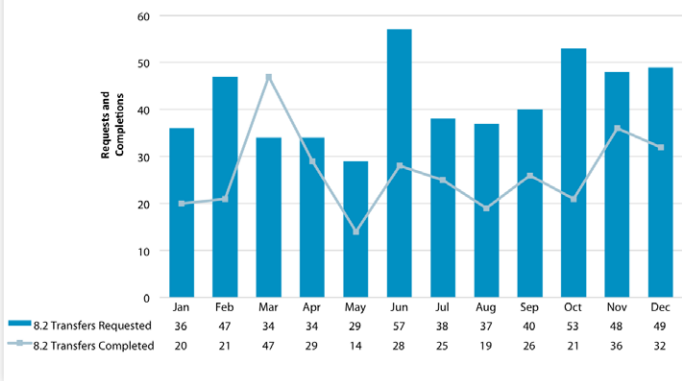
## 2015 Autonomous System Numbers Issued by ARIN



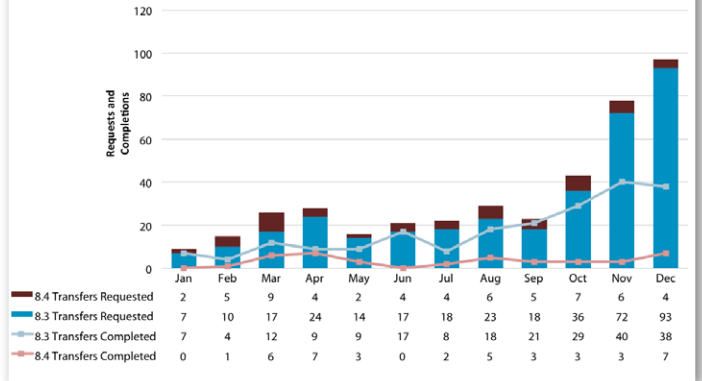
## 2015 IPv6 Address Assignments and Requests



### 2015 8.2 Transfers Requested and Completed



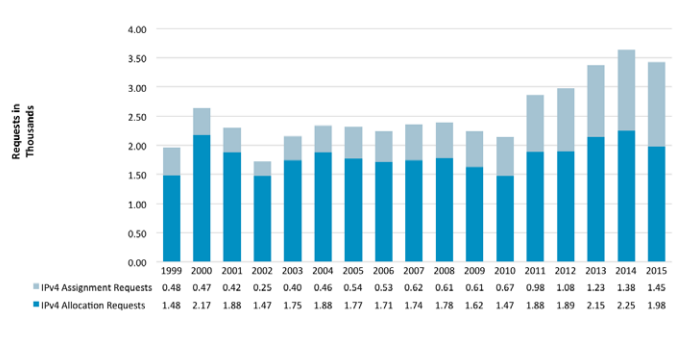
### 2015 8.3 & 8.4 Transfers Requested and Completed



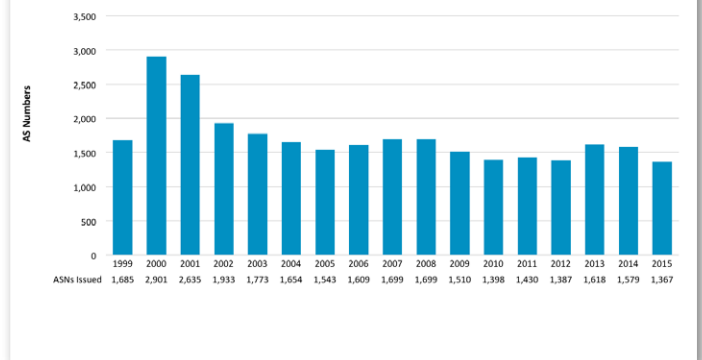
# HISTORICAL REPORTS

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

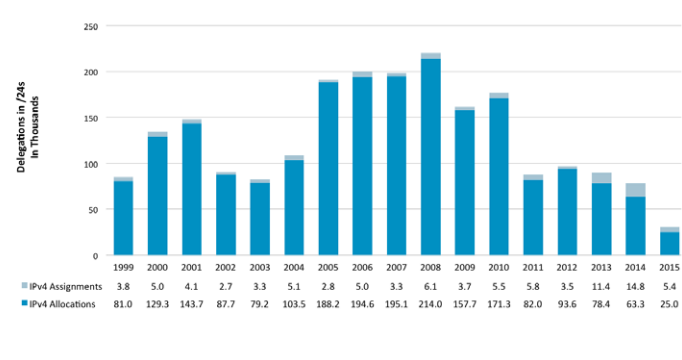
### IPv4 Address Requests by Category 1999-2015



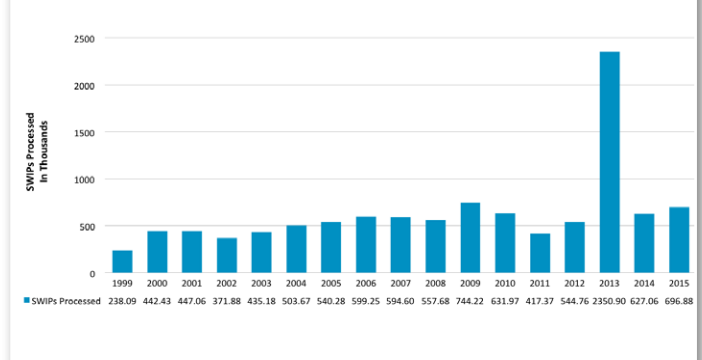
### AS Numbers Issued by ARIN 1999 - 2015



### ARIN IPv4 Address Delegations by Category 1999-2015

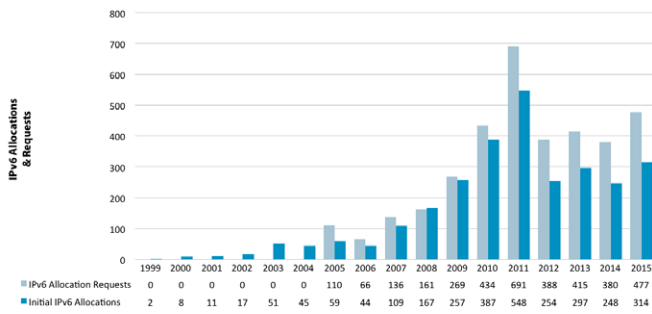


### SWIPs Templates Processed by ARIN 1999-2015

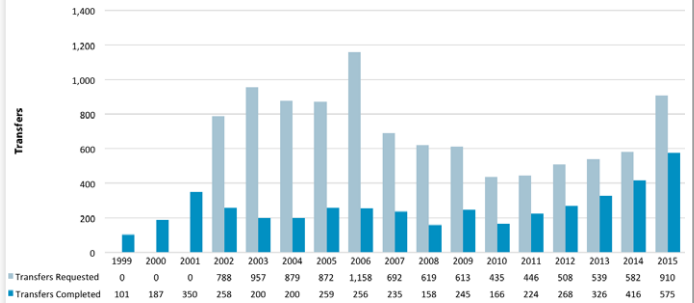




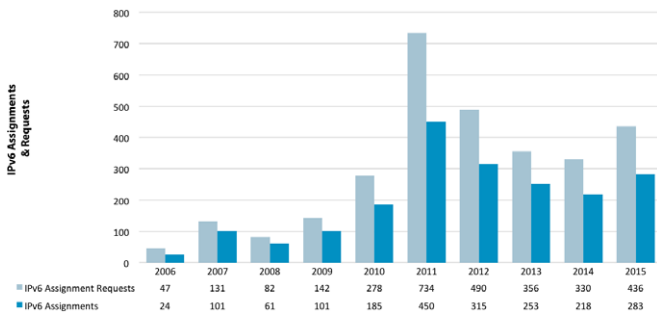
### IPv6 Address Allocations and Requests 1999-2015



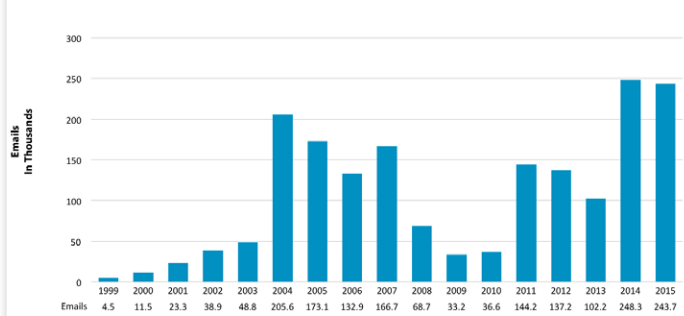
### New Transfer Requests and Completed Transfers 1999-2015



### ARIN IPv6 Address Assignments and Requests 2006 - 2015



### Email Received at hostmaster@arin.net 1999 - 2015



## **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 2015 will be made available for community review upon completion.