ARIN Update

10 June 2024
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American Registry for Internet Numbers
ARIN Organizational Priorities

- **MANAGE** all Internet number resources efficiently and securely for the region in accordance with community policy
- **EDUCATE** the community on the multi-stakeholder approach to Internet governance
- **ADVANCE** Routing Security services & the continued adoption of IPv6
- **OUTREACH** at industry events and provide superior customer support
- **CONDUCT** two Public Policy meetings, an Election cycle, and Fellowship and Community Grant programs
- **EXPAND** upon the educational resources we provide our community
Where is ARIN Today?

- Membership & Fees
- Elections
- Policy Development
- IPv6 at ARIN
- Routing Security
- Programs, Outreach, & Other Updates
ARIN Membership Overview

Since the introduction of the Registration Services Plan in 2016, ARIN has moved incrementally toward a consolidated membership model.

As of 1 January 2024, all customers with Internet number resources (IPv4, IPv6, and ASNs) under agreement with ARIN are members in one of two categories:

- Service Members
- General Members
Membership Options

Service Members

- Organizations that have signed an ARIN Agreement for IPv4 or IPv6 address space and/or Autonomous System Numbers (ASNs).
- Access to ARIN’s complete suite of services, including:
  - Resource Public Key Infrastructure (RPKI)
  - Internet Routing Registry (IRR).

General Members

- Service Members who have expressed a commitment to participate in ARIN Elections.
- Exclusive access to the General Members mailing list.
- Must vote in an ARIN Election at least once every three years to maintain this status.
  *Organizations may choose to cast a blank ballot.*
Current ARIN Membership Numbers

As of 31 May 2024

Service Members: 23,657
General Members: 1,999
Total: 25,656

ARIN provides basic services to 14,033 customers that hold Internet number resources not currently covered under any type of agreement with ARIN.
ARIN Fee History

- **2016**: Registration Services Plan (RSP) introduced for ISP customers
- **2018**: End users had the option to join RSP or pay annual maintenance fees
- **2022**: End users harmonized into RSP
- **2024**: ASN holders harmonized into RSP
The Cost of Doing Business

ARIN recovers the cost of its registry operations through annual fees charged to registry customers.

All new ARIN customers must sign a Registration Services Agreement (RSA) to receive registry services.

Fees vary by the aggregate Internet number resources held by the customer, whether IPv4, IPv6 or Autonomous System Numbers (ASNs).

Learn more about Service Categories and Fees at www.arin.net/fees
Elections
NOMINATIONS ARE NOW OPEN!

Check here for important election dates to follow!
https://www.arin.net/elections

Learn more about Nominations at: www.arin.net/participate/oversight/elections/processes
The Nomination Committee (NomCom) is responsible for recruiting candidates. Candidates must self-nominate and complete the nominee questionnaire by the deadline. A third-party vendor is solely responsible for assessing all nominees. The initial slate of candidates will be published; any nominee that is not placed on the initial slate may petition.
ARIN Board of Trustees (Three full-term open seats)
Maintains authority over the scope and mission of ARIN and establishes strategic direction and fiscal oversight.

ARIN Advisory Council (Five full-term open seats)
Forwards consensus-based policy proposals to the Board for ratification.

Number Resource Organization (NRO) Number Council (NC)
(One elected representative from the ARIN region)
Advises the Executive Council concerning the ratification of proposed global IP number resource allocation policies.
Interested in Learning More?

We offer two short, on-demand videos as part of our Leadership Development Series:

• The Board of Trustees and the governance of ARIN
• An in-depth look at the Policy Development Process and Advisory Council (AC)

Learn more at: www.arin.net/leadership
Why Participate in ARIN Elections?

- Fulfill a vital community responsibility
- Determine who guides ARIN’s strategic direction
- Ensure diverse perspectives are represented

REMINDER! Verify your ARIN membership classification and request General Membership to participate in 2024 Elections.

9 September is the deadline to establish voting eligibility
Updates to the NRO Election Process

Effective this year, the election to fill the open seat on the NRO NC will be conducted using the same process as the ARIN Board and Advisory Council elections.

Only eligible ARIN General Members with Voting Contacts will be able to cast ballots for the NRO NC nominee of their choice.
The Importance of Voting Contacts

To be eligible to vote, General Member organizations must be in good standing.

Organizations must have a Voting Contact identified and listed by the deadline of 9 September.

Voting Contact changes must be finalized at least seven days before voting begins on 24 October.

Don’t Delay – Check your ARIN Online account today

- Your Records > Organization Identifiers
- Select an Org Handle associated with your account
- If you have designated a Voting Contact, it will be displayed in the Voting Contact section
- If not, in the Org Info section, select, “Manage Voting Contact” from the Actions menu to assign one.
Policy Development
2024 Policy Summary

7 Policy proposals have been introduced so far

1 is an Editorial Update, and advanced to the Board for review

2 are under review as proposals

4 have been advanced to Draft Policies
Draft Policies

- ARIN-2023-7: Clarification of NRPM Sections 4.5 and 6.11 Multiple Discrete Networks
- ARIN-2023-8: Reduce 4.1.8 Maximum Allocation
- ARIN-2024-2: WHOIS Data Requirements Policy for Non-Personal Information
- ARIN-2024-4: Internet Exchange Point Definition
- ARIN-2024-5: Rewrite of NRPM Section 4.4 Micro-Allocation
- ARIN-2024-6: 6.5.1a Definition Update
Recommended Draft Policies

ARIN-2022-12: Direct Assignment Language Update

ARIN-2024-1: Definition of Organization ID / Org ID

Advanced to the Board for Review

ARIN-2023-1: Retire 4.2.1.4. Slow Start

ARIN-2023-6: ARIN Waitlist Qualification

ARIN-edit-2024-3: Edit 6.5.8.3 Section 2
Proposals

• ARIN-prop-331: Addition of definitions for General and Special Purpose IP Addresses
• ARIN-prop-335: Restrict the largest initial IPv6 allocation to /20

Last Call

• ARIN-2023-5: Clean-up of NRPM Sections 4.3.4, 4.4, 4.10 and 6.10.1

*Extended Last Call expired 22 May
IPv6 at ARIN
Investing in the Transition to IPv6

Explore content on network operators considering how they will deploy IPv6 and establishing the business case for doing so for their organization.

Read more at: [www.arin.net/blog/category/Business-Case-for-IPv6](http://www.arin.net/blog/category/Business-Case-for-IPv6)
IPv6 Allocations Per Year

Note:
351 IPv6 allocations through 20 May 2024
Routing Security
In October 2023, **IPv6** announcements marked RPKI-valid exceeded 50%.

On 1 May 2024, **IPv4** announcements marked RPKI-valid exceeded 50%.
New RPKI registrations at ARIN outpace previous years

There are 724 new RPKI Resource Certificates as of 31 May 2024
RPKI Adoption – Deployment Type

As of 31 May 2024:

Organizations registered to use RPKI services: 5,159

- Hosted – 5,027
- Delegated – 132

Repository Publication Service (RPS) – 61
### RPKI Adoption: Org Participation

<table>
<thead>
<tr>
<th>Entity Type</th>
<th>% RPKI Adoption</th>
<th>% of Allocated Resources Covered in RPKI ROAs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Government</td>
<td>11.0% of 816</td>
<td>5.0% of 918.7k /24s</td>
</tr>
<tr>
<td>Educational Institutions</td>
<td>12.4% of 2,201</td>
<td>15.2% of 1.24k /24s</td>
</tr>
<tr>
<td>Commercial/ISPs/Enterprises/Individuals</td>
<td>13.0% of 39,684</td>
<td>49.2% of 6.47M /24s</td>
</tr>
</tbody>
</table>

*Entities in the ARIN Region and regardless of Agreement status. Data as of 31 May*
The National Cybersecurity Strategy Implementation Plan emphasizes the importance of secure Internet routing.

There is an increasing focus on adopting Resource Public Key Infrastructure (RPKI) to enhance the security and stability of routing for critical infrastructure networks.


For a list of associated links, see the APPENDIX at the conclusion of this presentation.
In the Works: RPKI Development Priorities

- IRR / RPKI integration release
- RPKI advanced features to ARIN Online interface
- RPKI Routing Intelligence
- Number Resource Organization RPKI Working Group
Programs, Outreach & Other Updates
On 3 June, ARIN retired the Email Template Processor.

There are several options available to submit reassignment information as ARIN no longer accepts or responds to email templates.

- Reg-RWS
- ARIN Online Account
- Open-Source Template Processor

Questions? Check out the “Hosted Reg-RWS Basics” Webinar from 22 February 2024
Q2 and Q3 Community Outreach

CaribNOG
Caribbean Network Operators Group

ARIN ON THE ROAD
Reno, NV

ARIN ON THE ROAD
Kansas City, MO

CENO CONNECT
2024 Member Conference

NYSLGTDIA
Midwest Broadband Operators

Registration Operations Workshop

The IT Modernization Summit

39th Annual Conference & Trade Exhibition

ABQNOG

LOGICOM USA
Supporting operational and research projects that improve the overall Internet industry and Internet user environment.

Project must fit into one of the following categories:
• Internet technical improvements
• Registry processes and improvement
• Informational outreach that advances the Internet
• Research related to ARIN's mission and operations

Application site closes 23 June. Visit www.arin.net/grants for the application!
In **2019** the ARIN Community Grant Program launched.

Since then, **21** projects have been selected to receive funding.

A total of **$230,975** has been dispersed for these projects.

Read about past recipients at [www/arin.net/about/community_grants/recipients](http://www/arin.net/about/community_grants/recipients)
An interactive learning opportunity for individuals interested in learning more about Internet number resource policy development and Internet governance.

Takes place before, during and after the ARIN Public Policy and Members Meeting.

Receive an in-depth introduction to ARIN and the Policy Development Process (PDP), in addition to Mentorship from a member of the ARIN community.

The ARIN 54 Fellowship includes participation at Applications open 27 June
Thank you

Any questions?
The National Cybersecurity Plan (2 March 2023)
https://www.whitehouse.gov/oncd/national-cybersecurity-strategy/

Fact Sheet: Biden-Harris Administration Releases Version 2 of the National Cybersecurity Strategy Implementation Plan (7 May 2024)
https://www.whitehouse.gov/oncd/briefing-room/2024/05/07/fact-sheet-ncsip-version-2/


Reporting on Border Gateway Protocol Risk Mitigation Progress (16 May 2024)

FCC Fact Sheet (16 May 2024)