

# ARIN Update

10 June 2024

John Sweeting, Chief Customer Officer  
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

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



**Where is ARIN Today?**

# Membership & Fees

# 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

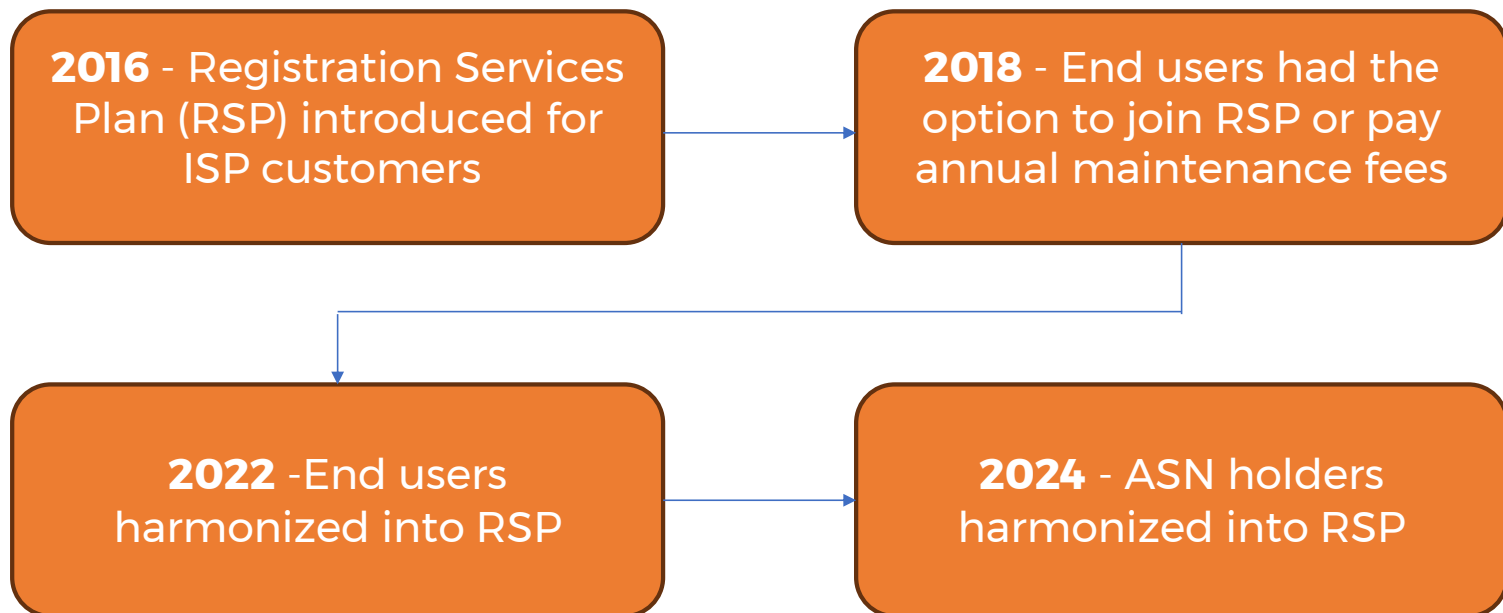
General Members: 1,999

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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





# 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](http://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](https://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.

# The Nomination Process

# Elected Positions



## **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 about how you can take on a leadership role in the ARIN community or get a better understanding of what those bodies do.



Learn more at: [www.arin.net/leadership](http://www.arin.net/leadership)

# Why Participate in ARIN Elections?

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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

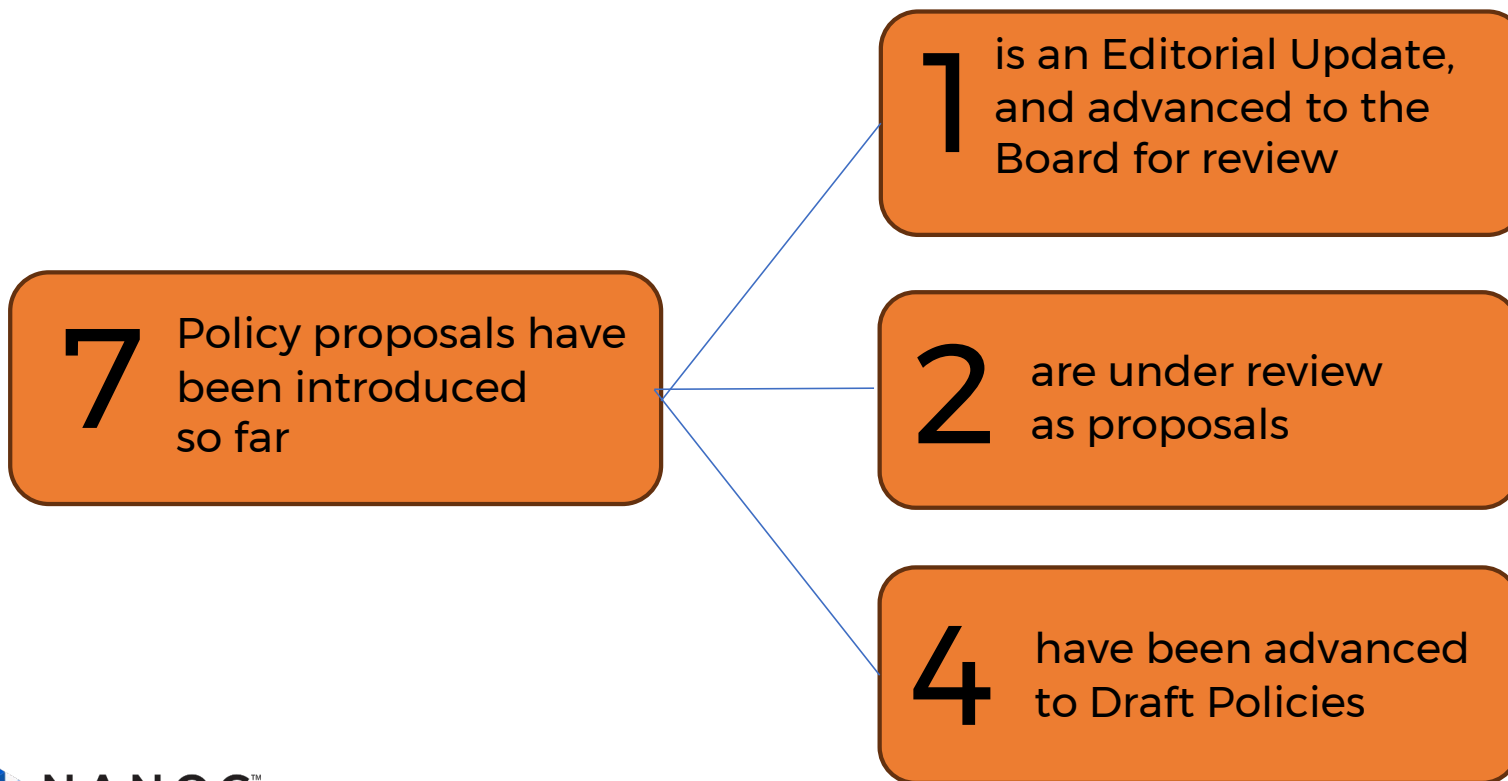
Voting Contact changes must be finalized **at least seven days** before voting begins on 24 October

## **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





# 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

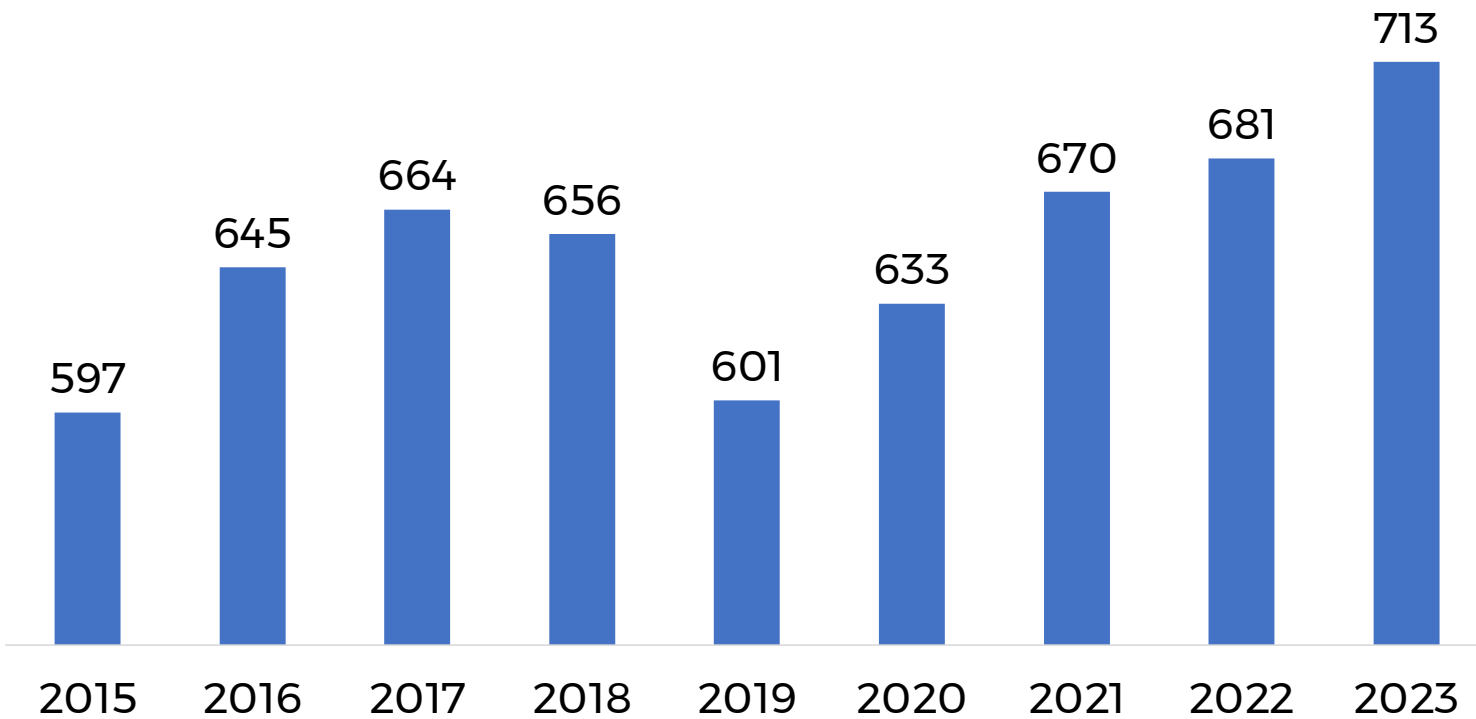
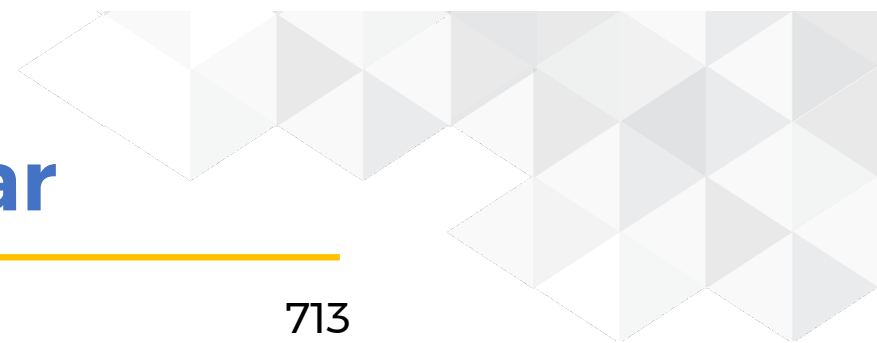
Explore content on network operators considering *how* they will deploy IPv6 and *establishing* the business case for doing so for their organization.



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

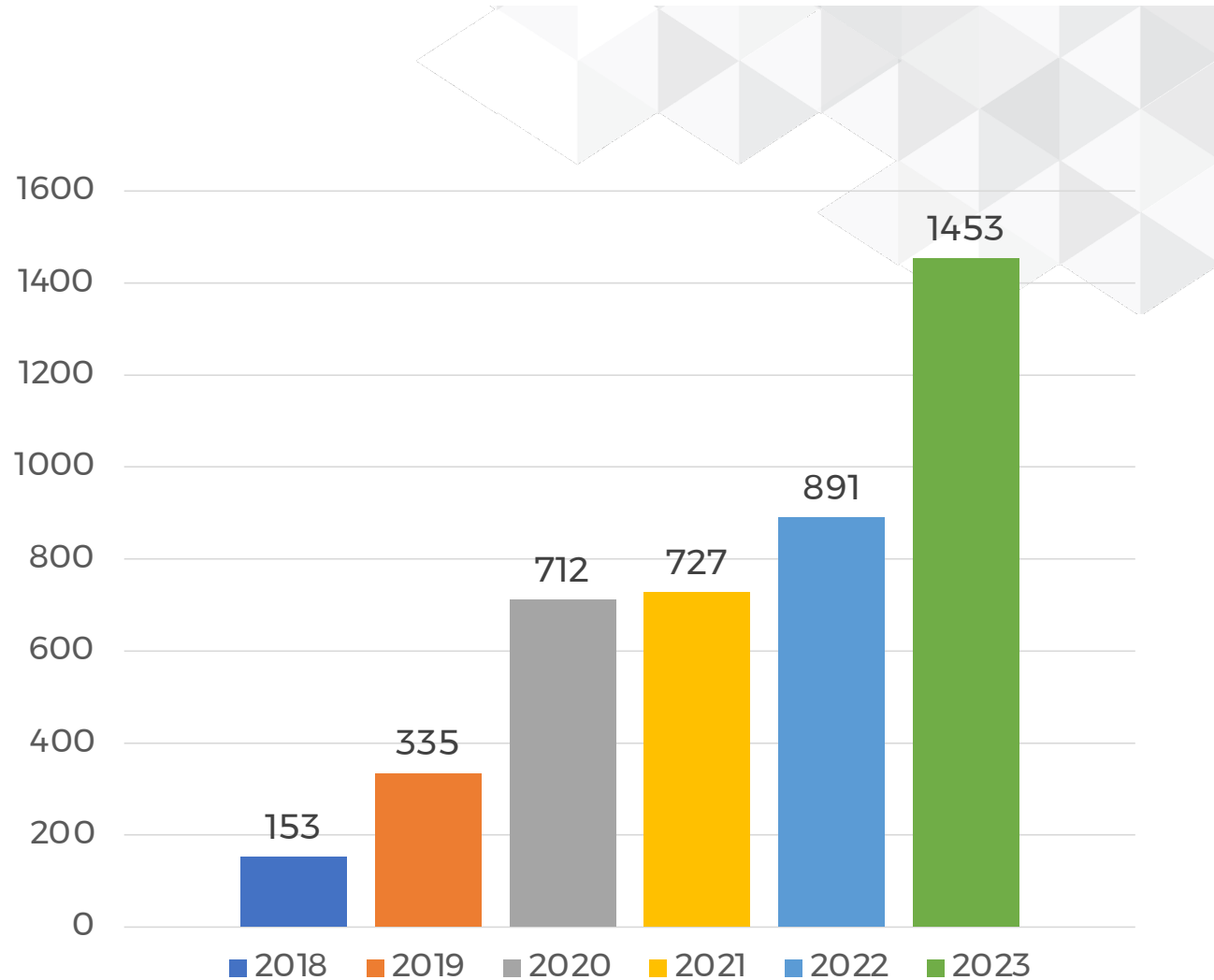
# Routing Security

# Resource Coverages Hit New Milestones

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

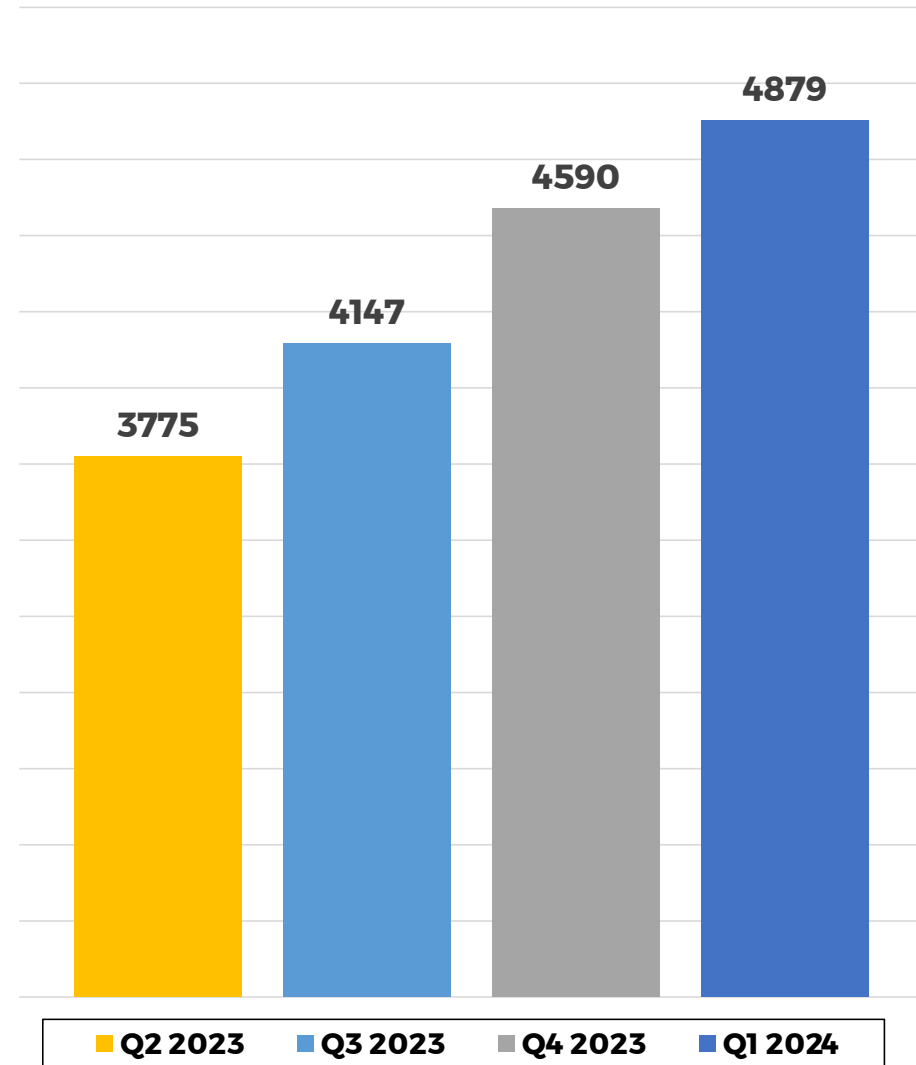
As of 31 May 2024:

**Organizations registered  
to use RPKI services: 5,159**

- Hosted – 5,027
- Delegated – 132
  - Repository Publication Service (RPS) – 61



Organizations registered to use RPKI



# RPKI Adoption: Org Participation

## % RPKI Adoption per Entity Type<sup>\*</sup>:



Government  
**11.0% of 816**



Educational Institutions  
**12.4% of 2,201**



Commercial/ISPs/  
Enterprises/Individuals  
**13.0% of 39,684**

## % of Allocated Resources Covered in RPKI ROAs:



Government  
**5.0% of 918.7k /24s**



Educational Institutions  
**15.2% of 1.24k /24s**



Commercial/ISPs/  
Enterprises/Individuals  
**49.2% of 6.47M /24s**

# RPKI is on the US Government's Radar



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.

The FCC released “Reporting on Border Gateway Protocol Risk Mitigation Progress Notice of Proposed Rulemaking PS Docket Nos. 24-146 and 22-90” on 16 May 2024.

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 Routing  
Intelligence

RPKI advanced  
features to ARIN  
Online interface

Number Resource  
Organization RPKI  
Working Group



The background of the slide is a solid blue color with a complex, low-poly geometric pattern of various shades of blue, creating a textured, crystalline effect.

# **Programs, Outreach & Other Updates**

# Email Template Processor Retirement

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



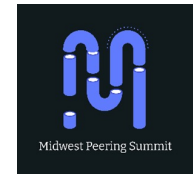
Reno, NV



Kansas City, MO

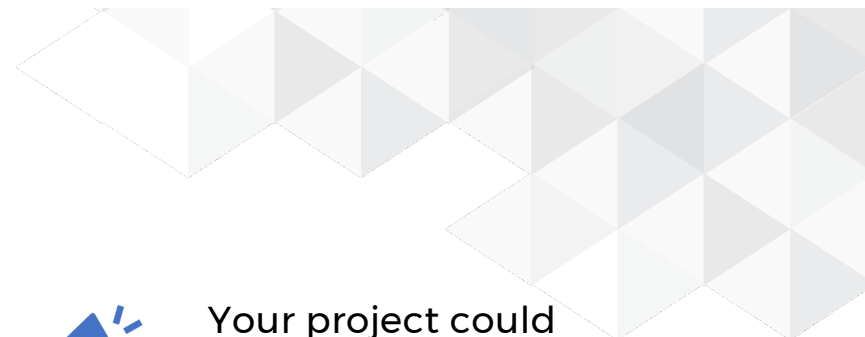


Midwest  
Broadband  
Operators



The IT Modernization  
Summit





Your project could  
receive up to \$20,000  
in funding!

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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](http://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

# SAVE THE DATE

24-25 October 2024 • Toronto, Canada



*POWERED BY PARTICIPATION*



# Thank you

Any questions?





# Appendix

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/>

Press Release: U.S. Department of Commerce Implements Internet Routing Security (13 May 2024)

<https://www.commerce.gov/news/press-releases/2024/05/us-department-commerce-implements-internet-routing-security>

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

<https://www.fcc.gov/document/reporting-border-gateway-protocol-risk-mitigation-progress>

FCC Fact Sheet (16 May 2024)

<https://docs.fcc.gov/public/attachments/DOC-402609A1.pdf>

