ARIN Optimized

Maximizing your ARIN Experience

op·ti·mize

"To make as effective, perfect, or as useful as possible."

Thank you for joining us at ARIN Optimized! This virtual event is specifically tailored to you – our new ARIN customer. We hope you will learn a few new things today about ARIN services and activities. Most importantly, we want to answer your questions and provide ample time to hear your feedback and ideas on how we can better meet your needs. Our presenters today are:

Hollis Kara
Director of Communications

John Sweeting
Chief Customer Officer

Jon Worley
Senior Technology Architect

Who We Are

The American Registry for Internet Numbers (ARIN) is the non-profit, member-based organization that manages and distributes Internet number resources throughout its service region of Canada, the United States, and many Caribbean and North Atlantic islands.

Our Mission

- Manage Internet number resources throughout our region
- Coordinate the development of policies by the community
- Advance the Internet through informational outreach
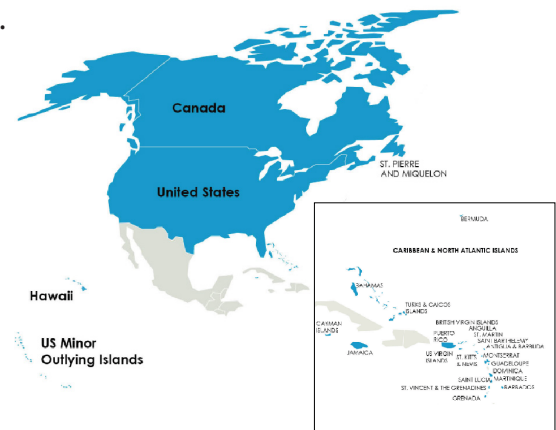
What We Do

Manage:
IP address allocations
Autonomous System Number (ASN) assignments
Transfers
Reverse DNS
Directory services (Whois, IRR, WhoWas)

Coordinate and administer:
Policy Development
Elections
Community outreach
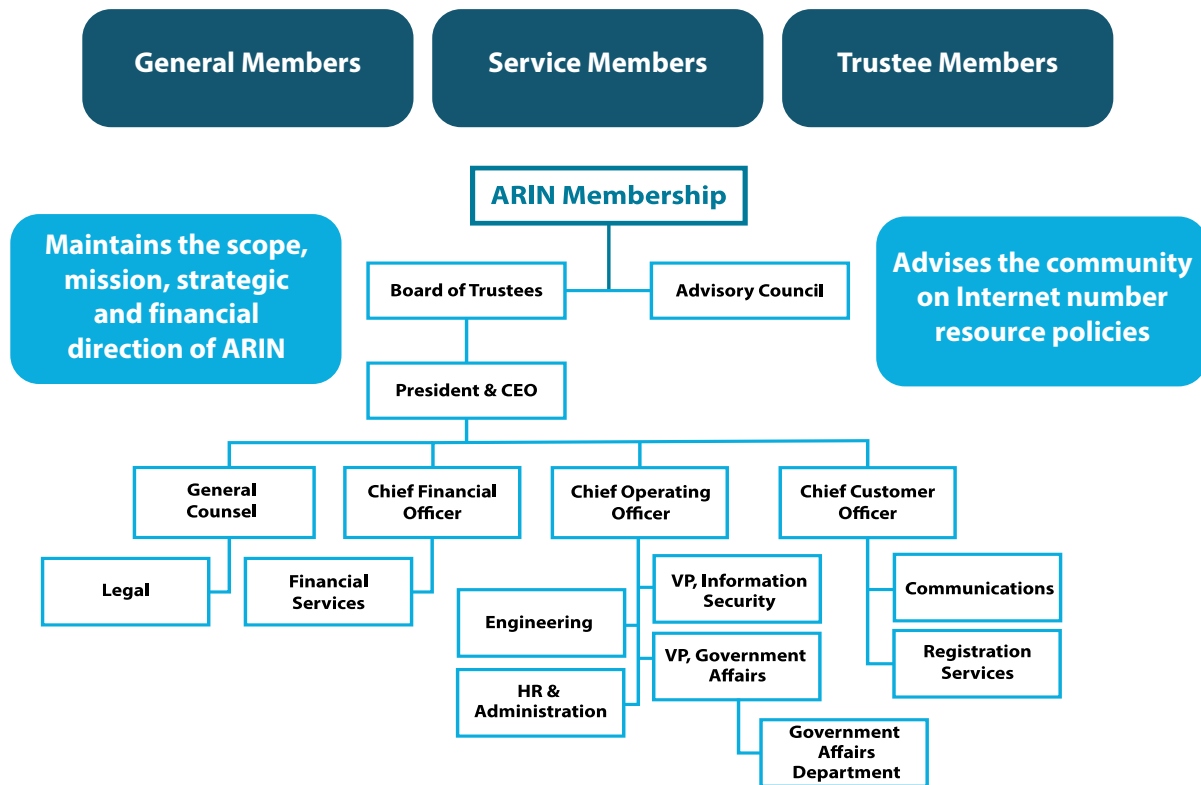Education and training

Develop technologies for managing Internet number resources:
ARIN Online
Community Software Project Repository
DNS Security (DNSSEC)
Resource Certification (RPKI)
Whois RESTful Web Services (Whois-RWS)
Registration RESTful Web Service (Reg-RWS)
Registry Data Access Protocol (RDAP)

Governance and Leadership at ARIN

ARIN's Internet community within its region consists of its members, a Board of Trustees, an Advisory Council, and a professional staff of 75+.

General Members **Service Members** **Trustee Members**

ARIN Membership

Maintains the scope, mission, strategic and financial direction of ARIN

Board of Trustees — Advisory Council

Advises the community on Internet number resource policies

President & CEO

General Counsel | Chief Financial Officer | Chief Operating Officer | Chief Customer Officer

Legal | Financial Services | Engineering | VP, Information Security | Communications

HR & Administration | VP, Government Affairs | Registration Services

Government Affairs Department

ARIN Staff - https://www.arin.net/staff

ARIN Membership - https://www.arin.net/participate/oversight/membership
There are three types of ARIN Members: General Members, Service Members, and Trustee Members. Service Members and General Members both have a valid ARIN Registration Services Agreement (RSA or LRSA) for IPv4 and/or IPv6 address space; however, General Members have also expressed commitment to participate in ARIN elections. If you're not sure what your organization's member status is, check out our Membership FAQ page - https://www.arin.net/participate/oversight/membership/faq

Board of Trustees - https://www.arin.net/board
The Board of Trustees, elected by ARIN's General Members, establish and maintain authority over ARIN's scope, mission, and strategic and fiscal direction. The Board also oversees committee nominations, appointments, elections, and votes on community-developed draft policies in accordance with the Policy Development Process (PDP).

Advisory Council - https://www.arin.net/ac
Elected by the ARIN membership, the Advisory Council (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).

NRO Number Council - https://www.arin.net/about/welcome/nronc
The NRO exists to protect the unallocated number resource pool, to promote and protect the bottom-up policy development process, and to act as a focal point for Internet community input into the RIR system.

IP Resources at ARIN

With four billion Internet users worldwide, companies and consumers are leveraging online channels for content, commerce, and communication like never before. Internet Protocol version 6 (IPv6) was developed to be a successor to the now depleted IPv4. ARIN encourages you to deploy IPv6 and connect to the whole Internet, not just the old Internet.

Make Your First IPv6 Request

IPv6 provides a much larger address pool so that many more devices can be connected to the Internet. It also improves addressing and routing of network traffic.

- Learn more about IPv6 - https://www.arin.net/ipv6
- Make your first IPv6 request - https://www.arin.net/resources/guide/ipv6/first_request
- The latest buzz on IPv6 and read about Deployment Case Studies: https://www.arin.net/blog/ipv6

IPv4 Addressing Options and Waiting List

Since ARIN's free pool of IPv4 address space was depleted in September 2015, organizations with a justified need for IPv4 addresses have several options for securing IPv4 address space:

• Acquire IPv4 addresses through the transfer process - https://www.arin.net/transfers
• Request a spot on ARIN's IPv4 Waiting List - https://www.arin.net/resources/guide/ipv4/waiting_list. Distributions are issued to the Waiting List quarterly.
• Request IPv4 addresses from pools reserved specifically for Micro-allocations or Dedicated IPv4 block to facilitate IPv6 Deployment (Reference the ARIN Number Resource Policy Manual 4.4 and 4.10) - https://www.arin.net/participate/policy/nrpm/#4-4-micro-allocation

> ▶ **WATCH**
> **IPv6 Address Planning Basics**
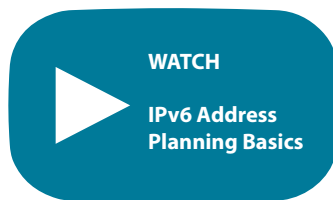
Subscribe to the ARIN Blog ✉
Sign up to receive the latest news about ARIN and the most pressing issues facing the Internet community.

SIGN ME UP

Transition Reserve Policy

ARIN has a dedicated IPv4 Block to facilitate IPv6 Veployment. Th[e allows organizations that have obtained an IPv6 block the ability to request an IPv4 / 24 as frequently as once every six months for IPv6 transition use, such as dual-stacking key servers and translation pools.

Read more about the Dedicated IPv4 block here – https://www.arin.net/participate/policy/nrpm/#4-10-dedicated-ipv4-block-to-facilitate-ipv6-deployment

Read more about requesting an IPv6 block here – https://www.arin.net/resources/guide/ipv6/first_request

Once you have your IPv6 block, make sure to mark your application for the 4.10 IPv6 transition reserve. Read more about it here – https://www.arin.net/resources/guide/ipv4

Your ARIN Toolbox – Making the most of your ARIN Online account

1. Secure your account with Two-factor Authentication

Two-factor authentication (2FA) is a means of identifying a user through two separate pieces of information or identification. For ARIN Online, these two pieces are your account password and a onetime password generated using a third-party mobile authenticator. By combining proofs of identity that an unauthorized user is unlikely to possess, two-factor authentication provides an increased level of security for ARIN Online users.

Learn more about Two-factor authentication here -
https://www.arin.net/reference/materials/security/twofactor

2. Explore all the tools and services available to you

a. RPKI - Resource Public Key Infrastructure (RPKI) is an opt-in service at ARIN that provides security for Internet routing. You can use ARIN's RPKI system in two ways:
• Using ARIN's RPKI Repository for Routing:
• Providing Certification for Your ARIN Resources:
Learn more about RPKI here - https://www.arin.net/resources/manage/rpki
b. IRR - ARIN's Internet Routing Registry (IRR) provides routing information for service providers and others to use in making networking decisions and it is integrated with ARIN Online.
Learn more about IRR here - https://www.arin.net/resources/manage/irr

3. Automating Interactions

a. Integrating with ARIN Online
ARIN has a Reg-RWS API available to automate your interactions, such as managing reassignment information or updating reverse DNS delegations.

b. Operational Test and Evaluation (OT&E)
The OT&E environment allows developers to experiment with ARIN interactions without affecting production data. OT&E allows for experimentation with these ARIN services: Whois RESTful Web Service (Whois-RWS), Registration RESTful Web Service (Reg-RWS), Resource Public Key Infrastructure (RPKI) and Registration Data Access Protocol (RDAP).

Learn more about OT&E here - https://www.arin.net/reference/tools/testing

WATCH
Routing Security Webinars On Demand

Who You Gonna Call? https://www.arin.net/contact

Ready to request resources?
Get started today: https://www.arin.net/request_resources

Call +1-703-227-0660
Monday-Friday, 7:00 AM - 7:00 PM ET

Tips for calling the help desk: https://www.arin.net/helpdesk

Have questions about your resources?
When logged in to ARIN Online, select "Ask ARIN" in the navigation menu to submit a ticketed request.

Need to report a service issue?
Issues can be reported through the Feedback button found on every page of the ARIN website, or on the Service Status page - https://arin.statuspage.io

Need help with billing?
Call +1-703-227-8708
Monday-Friday, 9:00 AM - 5:00 PM ET

Just need a general question answered?
Submit general questions to info@arin.net. We'll get you in touch with the right person to answer your question!

Feedback Channels

Customer Satisfaction Survey and Regular Transaction Surveys -
https://www.arin.net/customersurvey
ARIN's goal is to provide the best Internet number registry experience possible. To help better understand the needs of our customers and evaluate how we're doing, we conduct a large-scale customer satisfaction survey periodically. ARIN's Registration Services Department also conducts regular transaction surveys.

ARIN Consultation & Suggestion Process (ACSP) - https://www.arin.net/acsp
This process provides an organized and transparent method for ARIN to accept community feedback and gauge consensus regarding non-policy related issues. Submit a suggestion regarding existing or potential ARIN services or practices and join in the discussions on the Consultation mailing list.

Subscribe to ARIN Mailing Lists https://www.arin.net/mailing_lists

ARIN regularly communicates updates and information to its community via its mailing lists. ARIN mailing lists suit a variety of interests and are a great way to stay informed!

ARIN Announce Mailing List (arin-announce@arin.net)
Read-only list that provides information on issues affecting the community, including elections, meetings, policy updates, training opportunities, and other ARIN events.

Public Policy Mailing List (arin-ppml@arin.net)
Public forum to raise and discuss issues surrounding existing and proposed policies. The PPML is an integral part of ARIN's Policy Development Process. Opinions expressed here are reviewed to determine consensus for a policy proposal.

General Members Mailing List (general-members@arin.net)
Open to individuals from ARIN General Member organizations. This list is provided to create a forum for the discussion of topics relevant to ARIN's governance.

ARIN Consultation Mailing List (arin-consult@arin.net)
Open list used in conjunction with the ARIN Consultation and Suggestion Process to gather comments. This list is only open when there is a call for comments.

ARIN Issued Mailing List (arin-issued@arin.net)
Read-only list open to the general public. Used by ARIN staff to provide a daily report of addresses returned and addresses issued directly by ARIN or address blocks returned to ARIN's free pool as requested in ACSP Suggestion 2008.2.

ARIN Technical Discussions Mailing List (arin-tech-discuss@arin.net)
Open to the general public. Provided for those interested in providing technical feedback to ARIN on experiences in the use or evaluation of current ARIN services and features in development.

ARIN Suggestions Mailing List (arin-suggestions@arin.net)
Read-only list open to the general public. Used by ARIN staff to provide notification to community of new ACSP suggestions and ARIN responses

Connecting with the ARIN Community

The success of ARIN as a steward of Internet number resources depends on the participation of people like you. We rely on the community to determine policy and provide direction for the services we provide. Here are some ways you can stay involved:

Read ARIN Bits - https://www.arin.net/blog/category/ARIN-Bits
ARIN Bits is a quarterly blog to keep everyone in the loop on the latest happenings at ARIN. There are several different "bits" of information in each issue, including the latest policies up for discussion, upcoming events, helpful tips, and ARIN Online updates.

Subscribe to the ARIN Blog - https://www.arin.net/blog
This is your source for the latest news about ARIN and the most pressing issues facing the Internet community. Topics include ARIN services, events, the policy development process, status of IPv4 address space, ongoing IPv6 deployment, routing security, and more. Consider contributing a guest blog yourself!

Apply for an ARIN Community Grant - https://www.arin.net/grants
The ARIN Community Grant Program provides financial grants in support of operational and research projects that improve the overall Internet industry and Internet user environment.

Attend the Public Policy and Members Meetings - https://www.arin.net/participate/meetings
ARIN Public Policy and Members Meetings are filled with interesting sessions, opportunities to network with your peers in the industry, educational presentations, discussions of important number resource policy issues, and more! They are held in April and October each year throughout the ARIN region.

*** Remote participation is available for every ARIN Public Policy and Members Meeting. As a registered remote participant, you'll be able to access the live transcript and webcast throughout the meeting, submit questions and comments alongside in-person attendees and raise your virtual hand during straw polls.*

Take Action as a Member During Elections - www.arin.net/elections
Each October, designated Voting Contacts from ARIN's General Members in Good Standing elect candidates to the ARIN Board of Trustees and Advisory Council to serve staggered three-year terms. The ability to vote and shape the future of the Internet is undoubtedly the most important perk of ARIN Membership.

*** To learn if your organization is eligible to vote or if you are your organization's designated Voting Contact, please email members@arin.net or visit https://www.arin.net/voting_contacts and follow the steps under "Viewing Your Voting Contact Information."*

Apply for the ARIN Fellowship Program - https://www.arin.net/fellowship
Do you want to know more about the behind-the-scenes work and people of ARIN, or interested in becoming more involved with the community? Consider applying to the ARIN Fellowship Program. Held virtually in the weeks leading up to each policy meeting, this program provides the framework for selected Fellows to dig deeper into discussions related to ARIN's Policy Development Process and learn about ARIN's work and services. Fellows will be paired with an ARIN community member mentor to guide them through the program.

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Instructional Webinars

Expand your knowledge with our Training & Education - https://www. arin.net/reference/training
ARIN offers a free library of resources for the ARIN community. Access on-demand information to help utilize our tools and services, participate in webinars, or view how-to videos on completing common tasks in ARIN Online.

Volunteer your time - https://www.arin.net/get-involved/#other-ideas
Join an ARIN committee - such as the Fellowship Selection Committee, Grant Selection Committee, Nomination Committee, or the Mailing List Acceptable Use Committee - when we call for volunteers.

Attend an ARIN Outreach event - https://www.arin.net/outreach
ARIN hosts a variety of outreach events to create opportunities for customers and the community to learn more about how they can maximize the value of their ARIN experience. These events are designed to help potential, new, and existing customers understand all of the services that ARIN provides in support of our community.

Get social with us!
Join other attendees in sharing experiences with IPv6, ARIN Meetings, or other related stories and topics by using:

www.twitter.com/TeamARIN   www.facebook.com/TeamARIN   www.linkedin.com/company/ARIN   www.youtube.com/TeamARIN

ARIN's Policy Development Process

https://www.arin.net/participate/policy

The ARIN Policy Development Process (PDP) is the process by which all policies governing the management of Internet number resources in the ARIN region are developed by and for the ARIN community. Policy development is an open and transparent process that anyone may participate in the process.

The ARIN Advisory Council shepherds proposals through the PDP and when the community consensus is reached, recommends draft policies to the Board of Trustees for adoption and implementation.
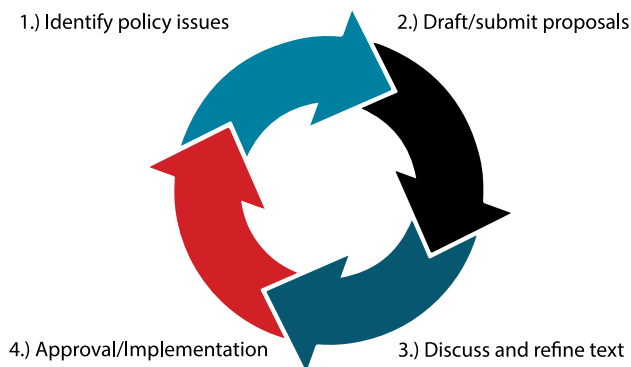
The Public Policy Mailing List (arin-ppml@arin.net)
All Draft Policies are discussed on ARIN's Public Policy Mailing List (PPML). The discussion on PPML can cover a variety of policy related topics, and ARIN encourages free discussion.

Number Resource Policy Manual - https://www.arin.net/participate/policy/nrpm
This is the repository for all policies. It is updated when new policies are implemented. The change log shows the history of this document.

View Draft Policies and Proposals - https://www.arin.net/participate/policy/drafts

WATCH

ARIN's Policy Development Process

1.) Identify policy issues   2.) Draft/submit proposals

4.) Approval/Implementation   3.) Discuss and refine text

Thank you for joining us!

Take our post-event survey and let us know how we did.
For additional comments or questions following this presentation, please email training@arin.net.

ARIN
American Registry for Internet Numbers

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ARIN 101
Getting to know
ARIN