

First Timers' Breakfast

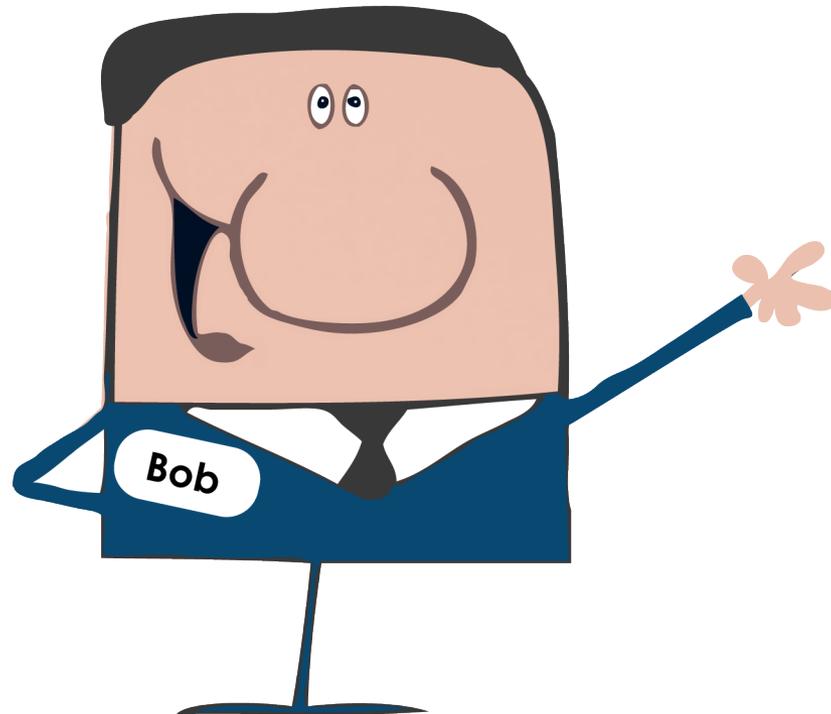
Susan Hamlin
Director,
Communications and
Member Services

24-26 Oct 2012

First Timers Breakfast

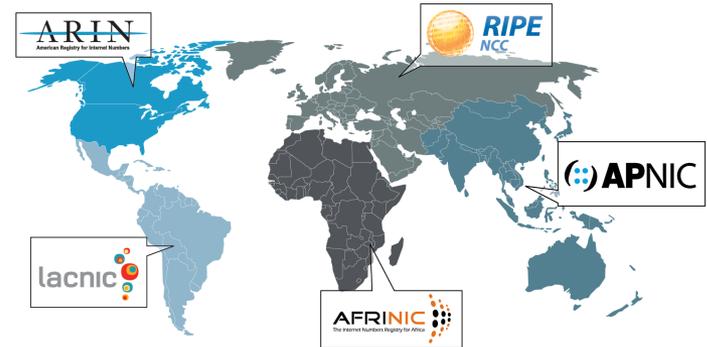
- Brief introductions
- ARIN and the Internet registry system
- Policy development at a glance
- What's ahead and how to participate
- Q&A at your table

Self-introductions



Regional Internet Registries (RIRs)

- The system began in 1992
- There are five RIRs



- Lacnic formed in 2002 out of ARIN region
 - AFRINIC formed in 2005 out of ARIN and RIPE NCC regions.
- All RIRs are nonprofit, community-driven organizations

RIR Structure

Nonprofit	Membership Organization	Community-regulated
<ul style="list-style-type: none">• Fee for services, not number resources• 100% community funded	<ul style="list-style-type: none">• Broad-based<ul style="list-style-type: none">- Private sector- Public sector- Civil society	<ul style="list-style-type: none">• Community developed policies• Member-elected executive board• Open and transparent

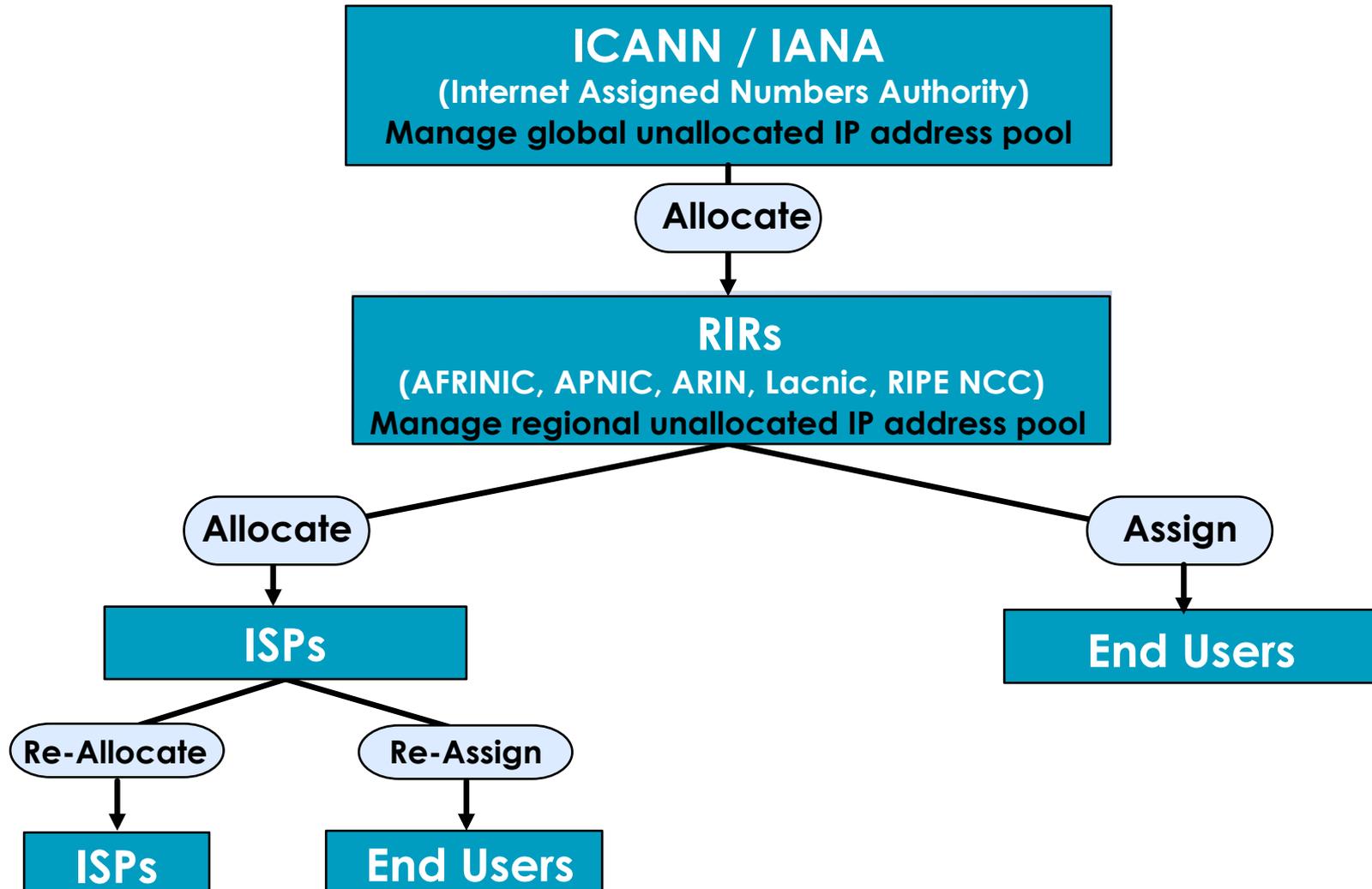
RIR Services

Number Resources	Organization	Policy Development
<ul style="list-style-type: none">• IP address allocation & assignment• ASN assignment• Directory services<ul style="list-style-type: none">• Whois• IRR• Reverse DNS	<ul style="list-style-type: none">• Elections• Meetings• Information dissemination<ul style="list-style-type: none">• Website• Newsletters• Roundtables• Training	<ul style="list-style-type: none">• Facilitate policy development process• Maintain email discussion lists• Conduct public policy meetings• Publish policy documents

Who Provisions IP Addresses and ASNs?

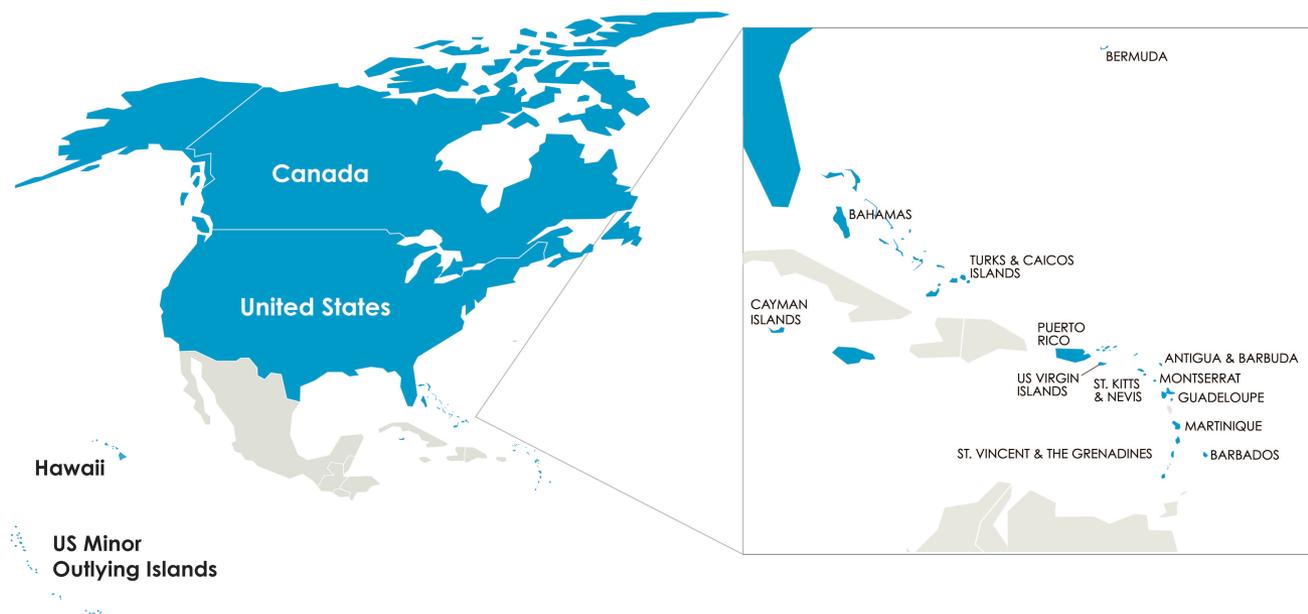
ICANN IANA	<ul style="list-style-type: none">• Top level technical coordination of the Internet Names, Numbers, Root Servers• Manage global unallocated IP address pool<ul style="list-style-type: none">• Allocate number resources to RIRs
RIR	<ul style="list-style-type: none">• Manage regional unallocated IP address pool<ul style="list-style-type: none">• Allocate number resources to ISPs/LIRs• Assign number resources to End-users
ISP/LIR	<ul style="list-style-type: none">• Manage local IP address pool for use by customers and for infrastructure<ul style="list-style-type: none">• Allocate number resources to ISPs• Assign number resources to End-users

Number Resource Provisioning Hierarchy



About ARIN

- Established December 1997
- 100% community funded



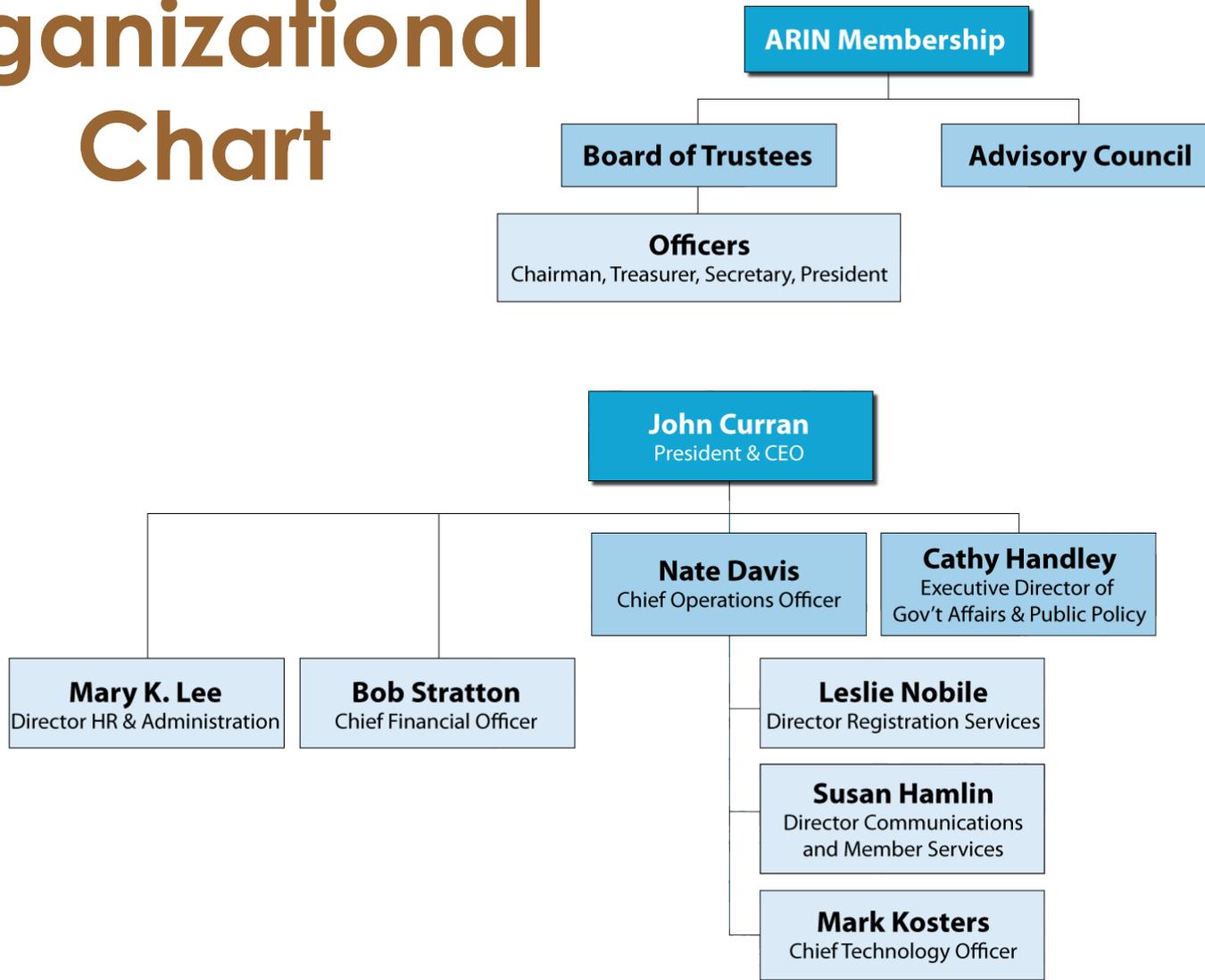
ARIN's region includes Canada, many Caribbean and North Atlantic islands, US Minor Outlying Islands and the United States.

ARIN's Mission

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.**

Organizational Chart



Registration Services



- Coordination & management of Internet number resources
- Internet number resource transfers
- Directory Services
- Registration transaction information (Whois)
- Record maintenance
- Routing information (Internet Routing Registry)

Technical Services



- ARIN Whois/Whois-RWS
- ARIN Online
- Internet Routing Registry
- Reverse DNS Services
- DNSSEC
- RPKI
- IT support for organization

Organization Services

- Information publication and dissemination
- Education & outreach
- Elections (Board, AC, NRO NC)
- Policy development process
- Public Policy and Member Meetings

Policy Development Process (PDP)

ARIN
American Registry for Internet Numbers

SEARCH Whois [advanced search](#)

NUMBER RESOURCES PARTICIPATE POLICIES FEES & INVOICES KNOWLEDGE ABOUT US

ARIN POLICY DEVELOPMENT PROCESS

SEARCH THIS SECTION [Advanced Search](#)

This version of the ARIN Policy Development Process was published on 7 January 2009. It supersedes the [previous version](#).

PART ONE - PRINCIPLE

1. Purpose

This document describes the ARIN Policy Development Process (PDP). The ARIN 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. ARIN's Internet number resource policies are documented community decisions that directly determine the rules by which ARIN manages and administers Internet number resources.

Internet number resource policies are developed in an open and transparent manner by the Internet community. Anyone may participate in the process - ARIN membership is not required. The Policy Development Process (PDP) described in this document defines how policy is established in the ARIN region. Part I of this document provides background information regarding the ARIN PDP and Part II provides the details of the process.

2. Scope

1. Policies developed through the PDP are community self-regulatory statements that mandate or constrain actions. They apply throughout the ARIN region. Policies contribute to the security and stability of the Internet as they foster good stewardship of Internet number resources by ensuring fair distribution of resources and facilitating the operation of the Internet by those who use them.
2. Policies developed through the PDP do not describe a step-by-step process. Such a process is called a procedure. Procedures are established by the policy implementer to execute the policy in such a manner to comply with the policy.
3. Policies developed through the PDP do not define a service to be offered by ARIN.
4. Policies developed through the PDP do not define or establish ARIN fees. All matters concerning fees are a fiduciary responsibility of the Board of Trustees.
5. The ARIN Board of Trustees adopts draft policies recommended to it by the ARIN Advisory Council if the Board determines that the PDP has been followed, that support and consensus for a policy has been reached among the community, and if the draft policies are consistent with ARIN's Articles of Incorporation and Bylaws and with the applicable laws and regulations.
6. Internet number resource policies are distinctly separate from ARIN general business practices and procedures. ARIN's general business practices (including fees) and procedures are not within the purview of the Policy Development Process. (The ARIN Consultation and Suggestion Process can be used to propose changes in non-policy areas.)
7. This version of the ARIN PDP is designed to bring forth clear, technically sound and useful policy, reduce overlapping policy proposals; require both staff and legal assessments; give adequate opportunity for discussion prior to each public policy meeting; and provide a means of review prior to possible adoption.

PDP

- > PDP
- > Appendix A - Process Flow Chart
- > Appendix B - Proposal Template
- > PDP Archive
- > PDP Petitions

TRANSLATIONS

- > French
- > Spanish

RELEVANT LINKS

- > How to Participate
- > PDP Flash Presentation

Flowchart
Proposal Template
Archive
Movie

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

ARIN XXX DALLAS

Policy Development Principles

Open

- **Developed in open forum**
 - Public Policy Mailing List
 - Public Policy Meetings
- **Anyone can participate**

Transparent

- **All aspects documented and available on website**
 - Policy process, meetings, and policies

Bottom-up

- **Policies developed by the community**
- **Staff implements, but does not make policy**

Who Plays a Role in the Policy Process?

Community

- Participate in discussions and petitions
- Submit proposals

Advisory Council (elected volunteers)

- Develop policy from proposals; goal is “clear, technically sound and useful” policy
- Determine consensus based on community input

Roles...

ARIN Board of Trustees (elected volunteers)

- Provide corporate fiduciary oversight
- Ensure the policy process has been followed
- Ratify policies

ARIN Staff

- Provide feedback to community/AC
 - Clarity and Understanding Reports
 - Staff and legal assessments
 - Policy experience reports
- Implement ratified policies

Basic Steps

1. Community member submits a proposal
2. Community discusses the proposal on the “List”
3. AC creates a draft policy (*petition process)
4. Community discusses the draft policy on the “List” and at the meeting
5. AC conducts its consensus review
6. Community performs last call
7. Board adopts
8. Staff implements

Number Resource Policy Manual

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

ARIN
American Registry for Internet Numbers

Your IPv4 address is 192.149.252.11

SEARCH Whois

NUMBER RESOURCES PARTICIPATE POLICIES FEES & INVOICES KNOWLEDGE ABOUT US

ARIN ONLINE

Username and password are case sensitive.

username: [new user?](#)

password: [assistance](#)

log in

About ARIN Online

ARIN NUMBER RESOURCE POLICY MANUAL

SEARCH THIS SECTION

Advanced Search

Version 2012.2 - 10 February 2012

This is ARIN's Number Resource Policy Manual (NRPM). It is available at: <https://www.arin.net/policy/>. This version supersedes all previous versions.

NRPM

- > Change Log
- > PDF
- > Index

CONTENTS

1. Introduction
2. Definitions
 - 2.1. Internet Registry (IR)
 - 2.2. Regional Internet Registry (RIR)
 - 2.3. [Section Number Retired]
 - 2.4. Local Internet Registry (LIR)
 - 2.5. Allocate and Assign
 - 2.6. End-user
 - 2.7. Multihomed
 - 2.8. Utilization (IPv6)
 - 2.9. HD-Ratio
 - 2.10. End site
 - 2.11. Community Network
 - 2.12. Organizational Information
 - 2.13. Residential Customer
 - 2.14. Serving Site (IPv6)
 - 2.15. Provider Assignment Unit (IPv6)
 - 2.16. Utilized (IPv6)
3. Directory Services
 - 3.1. Bulk Copies of ARIN's Whois
 - 3.2. Distributed Information Server Use Requirements
 - 3.3. Privatizing POC Information
 - 3.4. Reverse Registry

Policies Covered:

- IPv4 Address Space
- IPv6 Address Space
- Autonomous System Numbers (ASNs)
- Directory Services (WHOIS)
- Reverse DNS (in-addr)
- Transfers
- Experimental Assignments
- Resource Review Policy

Draft policies at this meeting:



- **ARIN-2012-2:** IPv6 Subsequent Allocations Utilization Requirements
- **ARIN-2012-4:** Return to 12 Month Supply and Reset Trigger to /8 in Free Pool
- **ARIN-2012-6:** Revising Section 4.4 C/I Reserved Pool Size
- **ARIN-2012-7:** Reassignments for Third Party Internet Access (TPIA) over Cable
- **ARIN-2012-8:** Aligning 8.2 and 8.3 Transfer Policy
- **ARIN-prop-180:** ISP private assignment

How to monitor and not be overwhelmed?

Once a month:

- Front page of the website leads to proposals and draft policies under discussion
 - New proposals need feedback for the AC's initial decision
 - Web site can help you focus on what's important to you and your company

Twice per year:

- Check the ARIN Public Policy Meeting site in the weeks leading up to the meeting
 - Proposals/Draft Policies on Agenda
 - Discussion Guide (summaries, text, staff assessments)
 - Attend in Person/Remote
- AC meeting last day: Watch list for AC's decisions, Last Calls – State your opinion, are you For or Against?

What's Ahead this week

Dallas Ballroom CD

Today:

NANOG and ARIN Joint Programming, 9:30 AM – 12:15 PM

ARIN lunch – 12:15-1:30 PM, Houston Ballroom A,B,C

ARIN Public Policy Meeting, 1:30 – 5:30 PM

ARIN social tonight – Gilley's Dallas South Side Music Hall



Thursday: ARIN Public Policy Meeting, 9:00 AM – 6:00 PM

Friday: ARIN Members Meeting (open to all), 9:00 AM – Noon

Ways to participate this week: Membership is not required 😊

- Meet your fellow attendees at meals and during breaks
- Join a lunch table topic discussion led by the AC on Wednesday or Thursday
- ARIN Board, Advisory Council, NRO Number Council and Staff all have ribbons on our name tags – seek us out and ask questions
- Go the floor microphones in the meeting room, be sure to state name and organization upfront
- Raise your hand to voice your opinion when votes are taken during policy discussions

Don't Forget Your Survey

Please complete the survey form and drop it in the bowl.

Be present in the meeting room this afternoon for the drawing – you might win a \$100 Think Geek gift certificate.

Questions?

Reference Material

Historical Timeline

Government Oversight

1993 IR function contracted by NSF to NSI; InterNIC formed, DoD oversight ends. APNIC formed.



1992 RFC 1366: Regional IRs established; RIPE NCC formed



1991 RFC 1261: DoD IR function contract moved to Network Solutions, Inc.



1990 Internet Registry (IR) function contracted by DoD to SRI International



1980's NSFNET/ARPANET - Jon Postel managed addressing via DoD contract; this was called the Internet Assigned Numbers Authority (IANA)



Historical Timeline

Community Oversight

2005 Regionalization complete; AfriNIC formed



2002 Regionalization continues; LACNIC formed



1998 ICANN formed by US Gov't (top level technical coordination)



1997 IR regionalization continues; ARIN formed. USG oversight of IR function ends.

