

Getting to Know ARIN

Ray Plzak President & CEO





• The RIR System

- Where did the RIRs come from?
- Where do they fit in the global Internet community?
- What does an RIR look like?
- How does an RIR manage IP address space?

About ARIN

- Organization & Structure
- Policy Development Process
- Interacting with ARIN
- About the Public Policy & Members Meetings



The RIR System



Where did the RIRs Come From?

Where Do They Fit In The Global Internet Community?





RFC 790 1981

In The Beginning



"The assignment of numbers is also handled by Jon. If you are developing a protocol or application that will require the use of a link, socket, port, protocol, or network number please contact Jon to receive a number assignment."

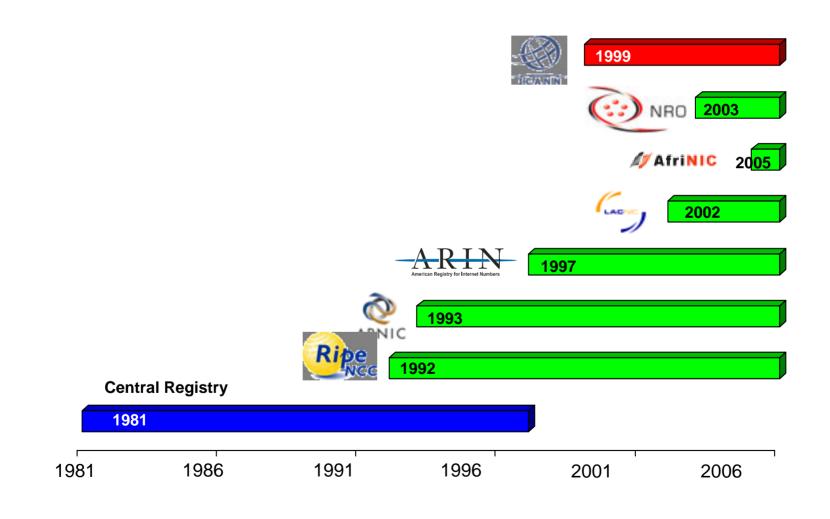
October 2005

Getting to Know ARIN

Los Angeles

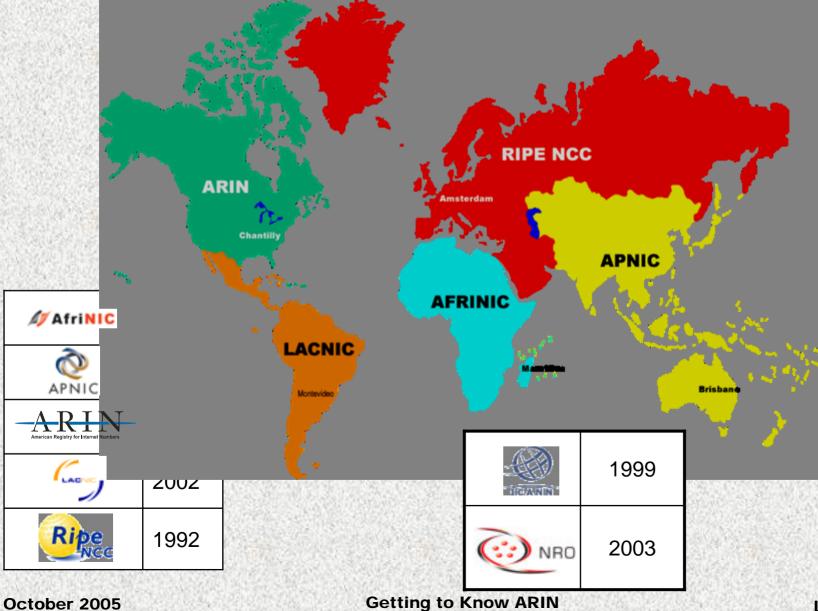


RIR System Evolution

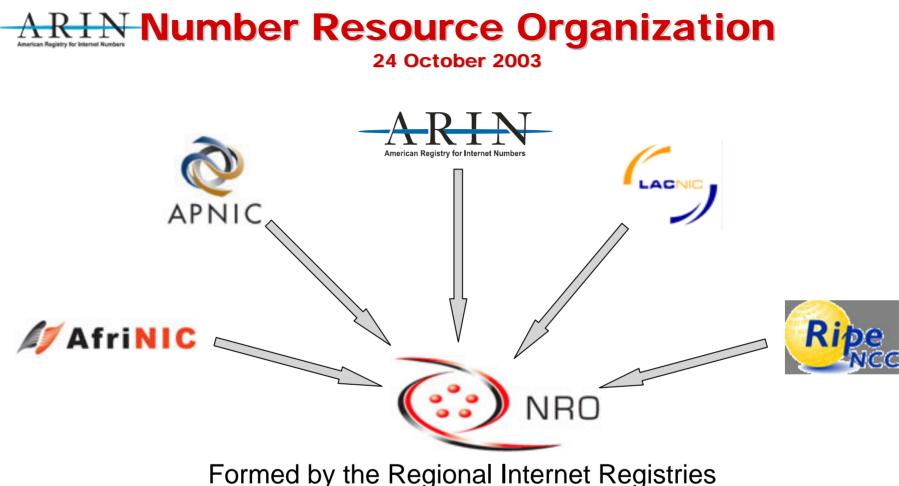




RIR Service Regions



Los Angeles



Formed by the Regional Internet Registries to formalize their cooperative efforts, 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.

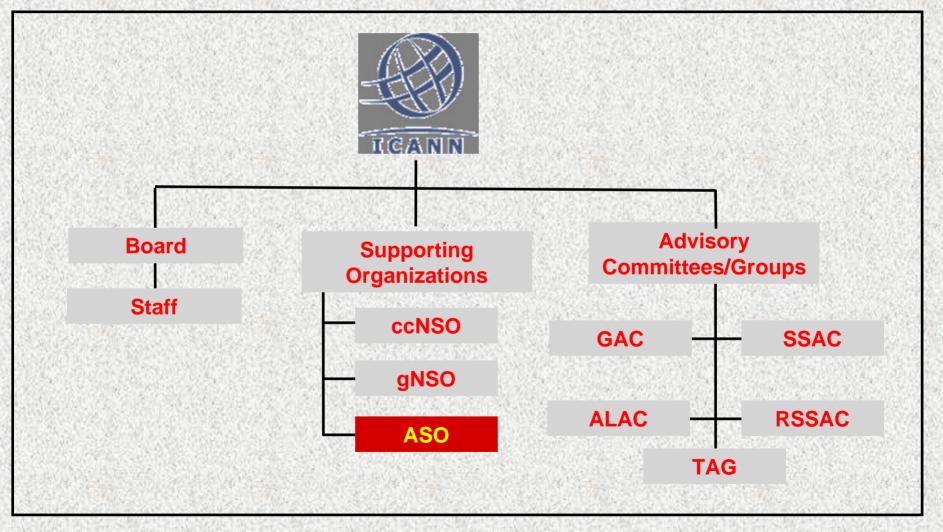


NRO Activities

NRO	 Communications CG Engineering CG
	 GAC Workshops ASO funding ASO Secretariat ICANN budget
world summit on the information society General 2003 - Turk 2003	 PREPCOM 3 Tunis Summit Tunis Summit Pavilion



Internet Corporation for Assigned Names and Numbers



Getting to Know ARIN





Internet Corporation for Assigned Names and Numbers

Mission	Structure	Organization
Coordinate Internet system of Unique Identifiers	 Non Profit Self-Regulatory 	 Supporting Orgs ccNSO gNSO ASO Advisory Cmtes



ASO AC Address Supporting Organization Address Council

Who is it?	The NRO Numbers Council Addressing Policy Advisory Body	
What is it?		
How is it Organized?	15 Members RIR & ICANN Observers	
What Does it Do?	 Advise ICANN Board Select ICANN Board Members (2) Select ICANN NomCom member (1) 	



NRO Number Council

- Term Three (3) years, staggered
- Responsibilities
 - Advise the NRO Executive Council on ratification of proposed global IP number resource allocation policies
 - Sit as members on the ICANN ASO Address Council and fulfill those duties



NRO Number Council

Representatives from the ARIN Region

- Two elected
 - Louis Lee
 - Sanford George
- One appointed by the ARIN Board
 - Lee Howard











http://www.afrinic.net

http://www.apnic.net





http://www.lacnic.net



http://www.ripe.net





http://www.icann.org



What does an RIR Look Like?



RIR Structure

Not For Profit	Membership Organization	Community Regulated
 Fee for Services NOT Number Resources 100% membership funded 	 Open Broad-based Private Sector Public Sector Civil Society 	 Community Developed Polices Member Elected Executive Board Open and transparent processes





Number Resources	Organization	Policy Development Process
 IP Address Allocation Assignment ASN Assignment Directory Services WHOIS IRR DNS (reverse) 	 Elections Meetings Information Dissemination Web Site Newsletters Round Tables Training 	 Maintain e-mail discussion lists Conduct public policy meetings Publish policy documents

Los Angeles

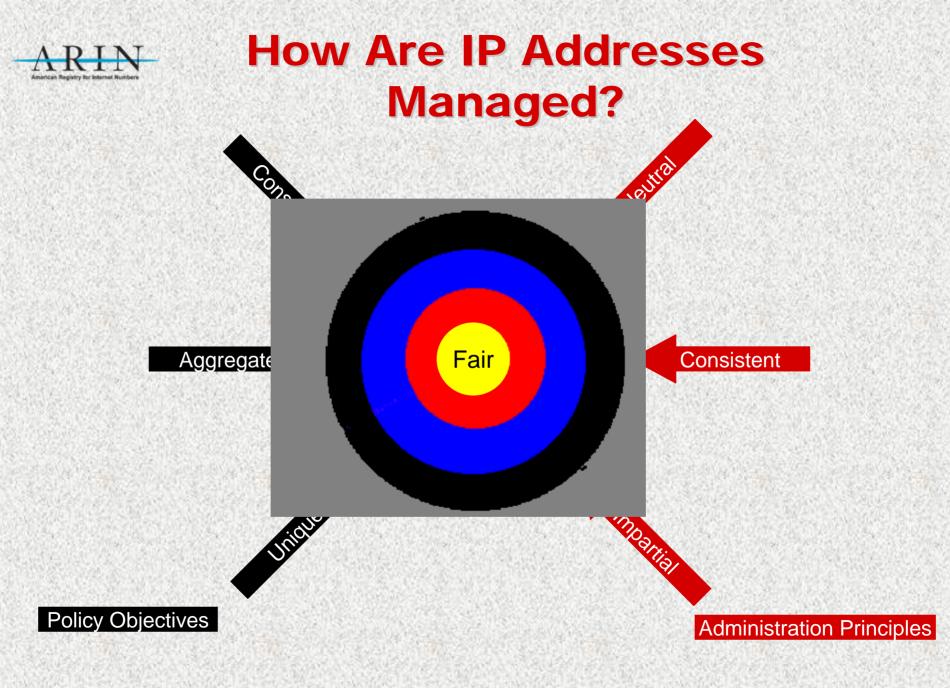
Arrentour Registry for Internet Numbers How does an RIR Manage IP Address Space?



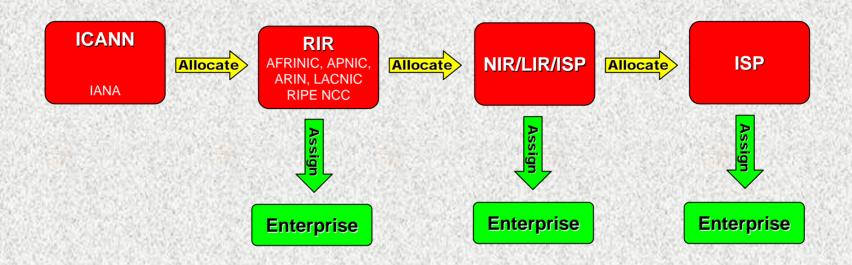
Why Manage IP Address Space?

Address Space Constraints Require Good Stewardship

- Technical Requirements
 - Defined Characteristics Create a Finite Common Resource
 - Network Topology Realities
- Prevent Capricious Consumption
- Ensure Fair Distribution to All





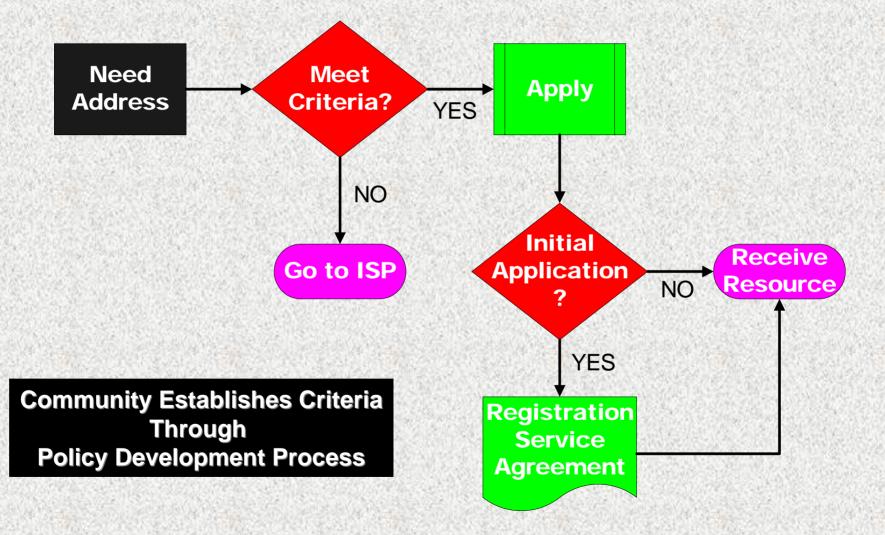


ProvisionAllocate or Assign Number ResourceAllocateProvide Number Resource to Registry or Service PrAssignProvide Number Resource to Enterprise		Allocate or Assign Number Resource
		Provide Number Resource to Registry or Service Provider
		Provide Number Resource to Enterprise

Los Angeles



How Are IP Addresses Provisioned?





About ARIN

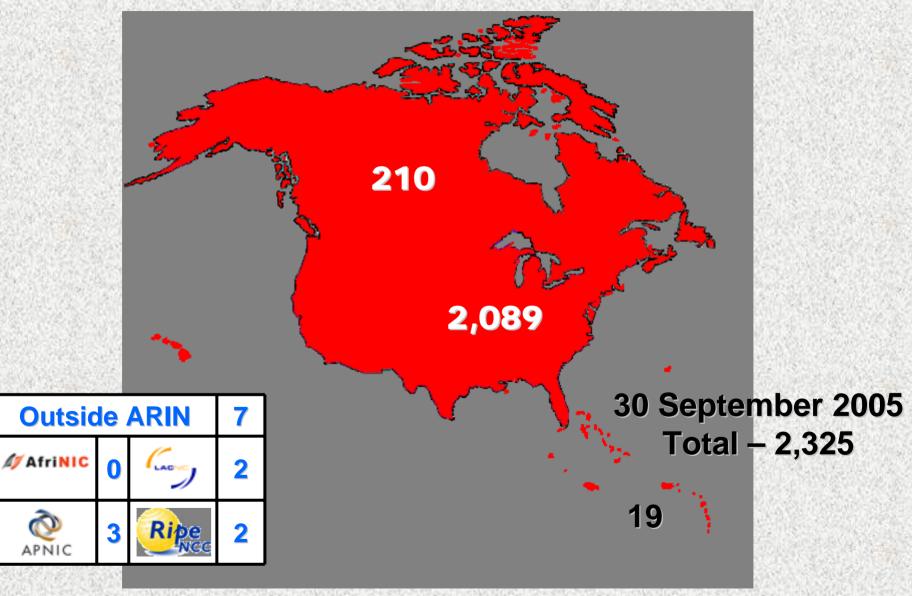


American Registry for Internet Numbers

"Applying the principles of stewardship, ARIN, a nonprofit corporation, allocates Internet Protocol resources; develops consensus-based policies; and facilitates the advancement of the Internet through information and educational outreach."



Membership



October 2005

Getting to Know ARIN

Los Angeles



OPEN MEMBERSHIP

Two methods:

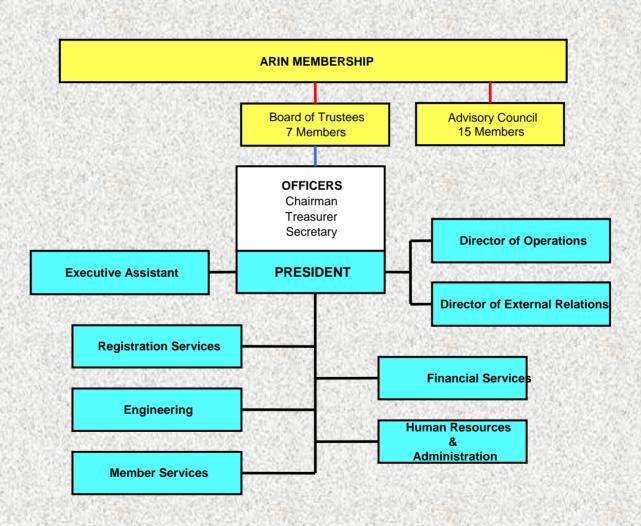
Complete a Membership Application Form
 Pay Annual Membership Fee

 Receive IP Address <u>Allocation</u> Directly from ARIN

Pay Annual Service Fee

Organization & Staff







ARIN Board of Trustees

- Elected by Members
- Term
 - Three years
 - Staggered 2 Trustees
 elected each year
- Responsibilities
 - Fiduciary
 - Policy ratification
 - Liability

MEMBERS Scott Bradner – Secretary David Conrad – Treasurer [Resigned] John Curran - Chairman **Bill Manning** Ray Plzak – President & CEO **Paul Vixie Bill Woodcock**



ARIN Advisory Council

- Elected by Members
- Term
 - Three years
 - Staggered 5 members elected each year
- Responsibilities
 - Advises ARIN Board
 - Forwards consensus-based policy proposals to the Board for ratification



Advisory Council

Ron da Silva, Chairman Alec Peterson, Vice-Chairman

- Paul Andersen
- Marla Azinger
- Leo Bicknell
- Bill Darte
- Andrew Dul
- Mark Kosters
- Lea Roberts

- Alex Rubenstein
- Robert Seastrom
- John Sweeting
- Stacy Taylor
- Cathy Wittbrodt
- Suzanne Woolf



Department Activity

RSD	 Reclamation [451 ASN] Robust Verification 	Lame DelegationNew Templates	
MSDARIN XVIElection System		 Contact Database Outreach Support System 	
FSD • Procurement System • Disbursement System		Over Due Accounts	
 ENGR Ticket System Credit Card System Voting System 		 RS/MS/FS DB Integration Secure Routing 	
HR	Position InventorySalary Survey	MINDEX Training	



Interacting With ARIN





Registration	Member	Financial
Services	Services	Services
 Registration Help Desk IP Address Allocation Assignment ASN Assignment Directory Services WHOIS IRR DNS (reverse) 	 Elections Meetings Information Dissemination Web Site Web Site Newsletters Annual Report Training Maintain e-mail discussion lists Publish policy documents 	 Billing Help Desk Accounting Financial Reports

Los Angeles



http://www.arin.net

- Registration Services
- Policy
 - Current policies
 - Policy proposals
- Meetings
 - Past minutes
 - Future meetings



• WHOIS

- Training

 WHOIS CBT
 WHOIS CBT
 - FAQs
 - Process
 Flowcharts
- Membership
- Statistics



Contact Information

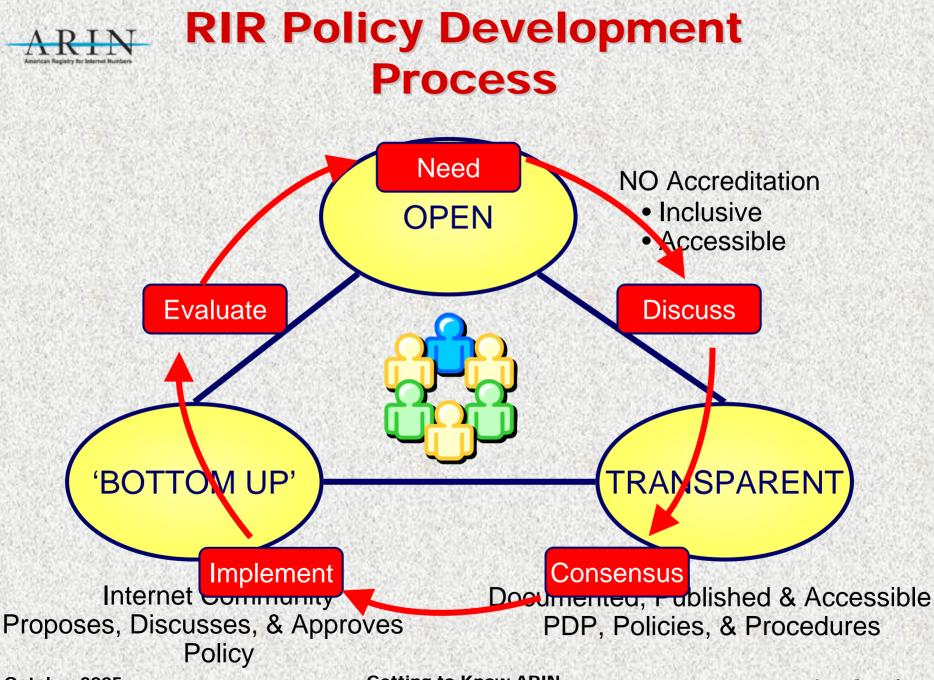
- Registration Services Help Desk
 - (703) 227-0660
 - Monday Friday, 7AM 7PM US Eastern time
- Hostmaster E-mail
 - hostmaster@arin.net
 - Ticketing system for request/inquiry tracking
- Billing Help Desk
 - (703) 227-9886
 - billing@arin.net
 - Monday Friday, 9AM-5PM US Eastern Time



About Public Policy & Members Meetings



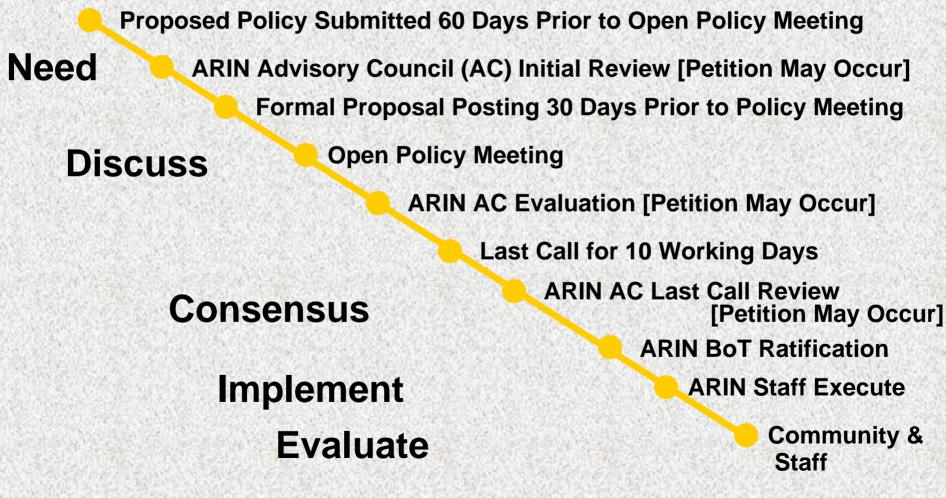
Policy Development Process



Getting to Know ARIN



ARIN Internet Resource Policy Evaluation Process



Getting to Know ARIN



N ARIN Policy Documents

ARIN Number Resource Policy Manual: <u>http://www.arin.net/policy/index.html</u>

Internet Resource Policy Evaluation Process <u>http://www.arin.net/policy/ipep.html</u>



	A

	승규가 제품 문제 등 일을 수 있는 것을 수 있다. 이번 가지 않는 것을 통하는 것을 수 있는 것을 수 있는 것을 수 있는 것을 수 있다.	
Issue 1	Allocation of IPv4 Address Space	
Issue 2	Allocation of IPv6 Address Space	
Issue 3	Directory Services	
Issue 4	NRPM Edits	



Allocation of IPv4 Address Space	
2005-6	IPv4 Micro-allocations for Anycast Services
2005-7	Rationalize Multi-Homing Definition and Requirement



	Allocation of IPv6 Address Space
2005-1	Provider-independent IPv6 Assignments for End Sites
2005-5	IPv6 HD ratio
2005-8	Proposal to amend ARIN IPv6 assignment and utilisation requirement



Directory Services

2005-2 Directory Services Overhaul



Number Resource Policy Manual (NRPM) Edits

2005-4 AfriNIC Recognition Policy



ARIN XVI Policy Discussions

2005-1	Provider-independent IPv6 Assignments for End Sites
2005-2	Directory Services Overhaul
2005-4	AfriNIC Recognition Policy
2005-5	IPv6 HD ratio
2005-6	IPv4 Micro-allocations for Anycast Services
2005-7	Rationalize Multi-Homing Definition and Requirement
2005-8	Proposal to amend ARIN IPv6 assignment and utilisation requirement



Get The Most From This Meeting

By:

- Participating
- Meeting your peers and ARIN staff
- Visiting the RSD help desk
- Visiting the Billing Help Desk
- Completing the meeting survey



