

## Mission Statement

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.



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# News from ARIN XIII

With the many representatives from the ARIN member and stakeholder community in attendance, ARIN XIII was a great success. Held in Vancouver, British Columbia, from April 18-21, the Public Policy and Members Meetings included many important policy discussions, updates on ARIN operational procedures, and presentations on such timely subjects as IPv6 and cryptographic authentication.

The meeting opened on Sunday, April 18, with two workshops and a Policy Proposal Birds-of-a-Feather (BoF) session. The first workshop centered around ARIN's recent introduction of X.509 authentication for registration services communication between ARIN and its member organizations. ARIN staff gave a presentation and provided a demonstration of how to request a certificate from ARIN and how those certificates are used in signing resource requests and record management templates sent to [hostmaster@arin.net](mailto:hostmaster@arin.net). The presenters also covered how ARIN does identity checks, how it handles customer privacy, and what needs to be considered when organizations use role-accounts with certificates. Additional information about ARIN's cryptographic authentication can be found at <http://www.arin.net/CA/>.



In the second workshop, ARIN staff provided information on how to efficiently manage and maintain resource, organization, and Point-Of-Contact (POC) records within the ARIN database. Staff presentations included basic information about the relationships between data records in the database, levels of authorization associated with different types of POCs, and a description of the ARIN data model. The presenters also included instruction on how organizations can more easily keep track of their records through efficient use of ARIN's WHOIS service.

As always, the Policy Proposal BoF at ARIN XIII allowed an informative and lively discussion of informal proposals and ideas for ARIN policy changes. As a direct result of the BoF discussion

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## ARIN Holds Regional Public Policy Meeting In Africa



ARIN President Ray Plzak addresses attendees at ARIN's first regional meeting in Dar es Salaam, Tanzania.

Jambo! Karibu! These were the opening words of the ARIN regional Public Policy Meeting, held in Dar es Salaam, Tanzania. On June 23, 2004, over sixty attendees gathered for a one-day meeting in the city's International Conference Centre. The meeting, hosted by the Tanzania Commission for Science and Technology (COSTECH), brought together ARIN members from Tanzania, Mozambique, and South Africa, and other interested members of the Internet community in sub-equatorial Africa. RIR colleagues from the RIPE NCC were in attendance. By all accounts it was a very successful meeting.

ARIN currently has 30 members in Africa spread

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2nd Quarter  
2004



American Registry for Internet Numbers  
3635 Concorde Parkway  
Suite 200  
Chantilly, VA 20151

## Upcoming Internet Community Meetings Calendar

### **SANOG IV**

July 23-30  
Kathmandu, Nepal

### **RIPE NCC Regional Meeting**

July 28-30  
Nairobi, Kenya

### **ICANN**

July 19-23  
Kuala Lumpur, Malaysia

### **60th IETF**

August 1-6  
San Diego, California (USA)

### **APNIC 18**

August 31 - September 3  
Nadi, Fiji

### **RIPE 49**

September 20-24  
Manchester, United Kingdom

Updates to this calendar can be found at:  
[http://www.arin.net/library/internet\\_info/calendar.html](http://www.arin.net/library/internet_info/calendar.html).

## Internet Community Meeting Reports

### **RIPE 48**

**May 3-7, 2004**  
**Amsterdam, NL**

The RIPE 48 Meeting was held May 3-7, 2004, at the NH Grand Hotel Krasnapolsky in Amsterdam, the Netherlands. Highlights of the meeting included the European Operators Forum, a discussion on RIPE NCC services, an IP Request Tutorial, various working group discussion sessions, and the RIPE 48 Plenary. The Plenary included an update on the Number Resource Organization (NRO), reports from the RIRs (AfriNIC, APNIC, ARIN, and LACNIC), an update on ICANN, and working group reports.

<http://www.ripe.net/ripe/meetings/ripe-48/>

### **INET/IGC 2004**

**May 10-14, 2004**  
**Barcelona, ES**

This year's INET meeting, hosted by the Internet Society (ISOC) was the first held jointly with Spain's Internet Global Congress (IGC). The conference featured a special track focused on the broad issues surrounding "Internet Governance," and included ISOC tutorials that centered on topical Internet issues.

ARIN staff attended the conference and gave a presentation on IPv6 during one of the ISOC tutorials. Other tutorial topics included Internationalized Domain Names (IDN) and emerging security technologies.

<http://www.isoc.org/isoc/conferences/inet/04/>

### **NANOG 31**

**May 23-25, 2004**  
**San Francisco, CA, US**

NANOG 31 was held in San Francisco, CA, from May 23-25 and was well attended. Merit implemented a new wireless authentication system to make it easier to isolate problems with the wireless network. Tutorials began on Sunday and included talks on BGP Techniques, IS-IS, and IP Sec. Monday's and Tuesday's presentations included a variety of technical and operational talks, with several run and moderated by a panel of experts. Topics included BGP Wedgies, VPN Isolation, Experiences in Adding IPv6 Services to Existing IPv4 Networks, and Preparing RIR Allocation Data for Network Analysis.

<http://www.nanog.org/mtg-0405/index.html>

### **AfriNIC I**

**May 23-24, 2004**  
**Dakar, SN**

The inaugural members meeting of the African Regional Internet Registry AfriNIC, was held in Dakar, Senegal, May 23-24, 2004, in conjunction with AfNOG, the annual meeting of the African Network Operators Group.

The first board elections were held, with the provisional board replaced by the newly elected board. The new board selected a Chairman and formally appointed Adiel Akplogan as Executive



Director, a role he has been filling for some time. All of the initial policy documents received ratification, and pricing was announced. The organization successfully incorporated in Mauritius as a not-for-profit association limited by guarantee, and the initial business office in Mauritius and technical office in Pretoria, South Africa are both fully functional. The North African office, which will provide customer service, is in the final stages of organization, and the Senegalese and Ghanaian offices, which are responsible for training programs, are ready to provide four training workshops before the end of 2004.

AfriNIC's electoral procedure guarantees that the Board of Directors will be filled by one member from each region of Africa. It currently consists of: North representative - Tarek Kamel (reelected); West representative - Pierre Dandjinou (chairman, reelected); South representative - Alan Barrett (reelected); Indian representative - Viv Padayatchy (acting treasurer); Central representative - Didier Kasole; East representative - Brian Longwe.

Representatives were on hand from ARIN and each of the other Regional Internet Registries, and Raúl Echeberria, Executive Director of LACNIC, acted as an impartial overseer of the electoral procedure.

RIPE has scheduled a regional meeting in Nairobi, Kenya, and ARIN held one in Dar es Salaam this summer in order to assist African members in the transition process to AfriNIC participation.

<http://www.afrinic.net/>

## ASO AC Selection to ICANN Board

At its meeting on May 6, in Amsterdam, the Address Council of the Address Supporting Organization (ASO) selected Raimundo Beca to fill the ASO position on the ICANN Board to be vacated by Lyman Chapin. Raimundo Beca will immediately start to serve on the ICANN board for a term of three years.

The minutes of the meeting are on the ASO website at:

<http://www.aso.icann.org/meetings/>

## ARIN Board Actions

The ARIN Board of Trustees met on April 6, April 9, April 29, May 14, and June 10. The following are highlights of ARIN Board of Trustees actions and discussions from the past quarter:

- Approved updated and revised ARIN Bylaws, and adopted guidelines for the ARIN Board of Trustees, the ARIN Advisory Council, and ARIN Elections.
- Authorized the release to ICANN of 50% of the funds held in escrow as of April 1, 2004. The Board of Trustees authorized the release of the remaining funds in escrow to ICANN, at the discretion of the President, consistent with an encouragement to sign the IANA contract.
- Adopted a *Procedure for Selecting an ARIN Interim Member of the ASO AC*.
- Adopted an *ARIN Board Election Petition Process*. Beginning in the 2005 election cycle, the petition process will start after the Nomination Committee finishes its work, so that the members of the community can augment the candidate list if they are dissatisfied with the NomCom-produced list.
- Discussed a proposal to modify AS number fees, with further action pending a deeper examination of the impacts of any changes.
- Amended the Finance Committee Charter to state in Item 4., under 'Investment,' "*The Committee shall make changes to individual investments, as required, and report to the Board.*"

The minutes for all Board of Trustee meetings are available at: <http://www.arin.net/library/minutes/bot/>.

Recent policy actions are listed in the "ARIN XIII Policy Report" on **page 5**.

## IPv6 Services at ARIN

On May 11, 2004, ARIN announced its support of additional IPv6 network services. These include DNS, FTP, HTTP, and WHOIS via port 80. Additional services, such as WHOIS via port 43 and HTTPS will be added in the future.

Details of some of the v6 implementation issues ARIN encountered were presented during a panel discussion at the NANOG 31 meeting held May 23-25 in San Francisco.

## ARIN 2003 Annual Report Available Online

ARIN's Annual Report for FY 2003 is now available. The Annual Report includes a summation of ARIN's activities in 2003 with activity reports from ARIN's departments, the Board of Trustees and Advisory Council, and the Public Policy and Members Meetings. It provides information on ARIN's global activities, public policy actions in 2003, and Registration Services statistics for the year. The Auditor's Report on ARIN's finances for FY 2003 is also now available.

Adobe Acrobat (PDF) versions of these documents can be found at: [http://www.arin.net/library/corp\\_docs/annual\\_rprt.html](http://www.arin.net/library/corp_docs/annual_rprt.html).

## Policy Implementations and Updates

Policy 2002-3 "Address Policy for Multi-homed Networks" ([http://www.arin.net/policy/2002\\_3.html](http://www.arin.net/policy/2002_3.html)) and Policy 2003-15 "IPv4 Allocation Policy for the African Portion of the ARIN Region" ([http://www.arin.net/policy/2003\\_15.html](http://www.arin.net/policy/2003_15.html)) have been adopted in the ARIN region and took effect on May 18, 2004. Implementation of these policies had been delayed pending the ARIN Board of Trustees' review of a new fee schedule that would have an impact on the policies. The Board conducted its review, and as a result, 'extra small' is a new category for allocations and assignments smaller than /20.

The ARIN Fee Schedule is available at: [http://www.arin.net/registration/fee\\_schedule.html](http://www.arin.net/registration/fee_schedule.html).

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across the 7 economies of Angola, Mozambique, Namibia, Swaziland, Tanzania, South Africa, and Zambia.

This one-day meeting was held to discuss policy issues for parts of Africa currently within the ARIN region and to stimulate involvement regarding AfriNIC [<http://www.afrinic.net>], the emerging Regional Internet Registry. Translations of ARIN's Internet Resource Policy Evaluation Process, a FAQ on the Number Resource Organization, and copies of ARIN's Letter of Support for AfriNIC were provided in Swahili, Arabic, and French.

Following opening remarks by ARIN President Ray Pizak and COSTECH Director of Information and Documentation Theophilus Mlaki, members of ARIN's Board of Trustees, Advisory Council, and staff outlined ARIN's structure, its open and transparent policy development process, and current ARIN numbering resource policies. There were no formal policy proposals presented during the meeting.

AfriNIC's CEO Adiel Akplogan reported on the recent AfriNIC meeting in Dakar and the current status and timeline of AfriNIC's transition plan.

A common theme expressed in these presentations was the community-based processes in ARIN's region and the emerging AfriNIC through which Internet numbering resource users express their needs and ultimately develop new policies. All Internet community stakeholders in Africa were invited to get involved on the public mailing lists hosted by ARIN and AfriNIC.

In the course of Open Microphone sessions and questions and answers following presentations, the following issues were addressed:

- A better definition of 'efficient address utilization' for



ARIN Regional meeting attendees





reporting purposes was requested

- An explanation of the nomination and voting process for Advisory Council elections was given. There are no geographic requirements or restrictions for AC members, and you do not need to be an ARIN member to serve. However, you must be nominated by an ARIN General Member in good standing.
- Attendees mentioned that the initial fee for AS number registration is too high for many in Africa. There was a suggestion to waive the initial fee and charge only the annual maintenance fee.
- A question was asked concerning whether ARIN would continue to service requests for IP numbering resources from its current region in Africa once AfriNIC receives formal recognition. It was explained that the answer was no, as each RIR's region is independent from the other RIRs.
- Given the new minimum allocation of a /23 in Africa, a representative from one ISP asked if they should send their customers requesting this amount directly to ARIN. The answer is that ARIN has no recommendation, and it is up to the ISP to decide how they wish to handle it.

ARIN is grateful for the excellent support from COSTECH, the meeting host. It provided meeting venue coordination, transportation, and Internet connectivity through SimbaNET. In addition, COSTECH hosted a dinner for attendees Wednesday evening, which was attended by its Director General, Brig. Gen. Prof. Yadon M. Kohi.

Meeting minutes and presentations are available on the ARIN website at:

<http://www.arin.net/library/minutes/africa/>.

## ARIN XIII Policy Report

*The following is the Advisory Council reported actions on policy proposals discussed at ARIN XIII.*

### **Recommend Adoption and Move to Last Call**

- 2003-4 "IPv6 Policy Changes"
- 2002-2 "Experimental Internet Resource Allocations"
- 2003-5 "Distributed Information Server Use Requirements"

### **Work with author on modifications**

- 2004-3 "Global Addresses for Private Network Inter-connectivity"

### **Intends to Abandon**

- 2003-9 "WHOIS Acceptable Use Policy"
- 2003-16 "POC Verification"
- 2004-1 "Defining Utilization of IPv4 Addresses"
- 2004-2 "Use of HD-Ratio for IPv4 Allocations"
- 2004-4 "Purpose and Scope of WHOIS Directory"

### **Current Status as of June 30, 2004:**

#### **Ratified by Board of Trustees**

- 2003-5 "Distributed Information Server Use Requirements"
- 2002-2 "Experimental Internet Resource Allocations"

#### **Awaiting Board of Trustees Review**

- 2003-4 "IPv6 Policy Changes"

#### **Abandoned**

- 2003-16 "POC Verification"
- 2004-1 "Defining Utilization of IPv4 Addresses"
- 2004-2 "Use of HD-Ratio for IPv4 Allocations"
- 2004-4 "Purpose and Scope of WHOIS Directory"

#### **Abandoned after unsuccessful Last Call Petition**

- 2003-9 "WHOIS Acceptable Use Policy"

*Links to the specific text and histories for each proposal are available on the Policy Proposal Archive page at:*

[http://www.arin.net/policy/proposal\\_archive.html](http://www.arin.net/policy/proposal_archive.html).

*ARIN's Internet Resource Policy Evaluation Process is available at:*

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

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of one topic, the matter was brought before the entire meeting during an open microphone session, and the ARIN Advisory Council will look at how best to address the concerns raised. ARIN invites everyone to participate in current and future policy discussions.

Copies of the presentations given are available at [http://www.arin.net/library/minutes/ARIN\\_XIII/tut.html](http://www.arin.net/library/minutes/ARIN_XIII/tut.html).

The first day of the meeting ended with the 5th Annual ARIN Foosball Tournament. Thanks to everyone who participated and congratulations to our award winners: First Place - Raúl Echeberría and Darren Kara; Second Place - Steve Gibbard and Kevin Neish; Third Place - Mike Loevner and Lynn St. Amour; "Bringing Up The Rear" Award - Ron da Silva and Erin Centanni.

### **Public Policy Meeting**

The Public Policy Meeting took place April 19-20. Summaries of the discussions, copies of the presentations, and RealMedia video archives of the webcast from the meeting are available at: [http://www.arin.net/library/minutes/ARIN\\_XIII/ppm.html](http://www.arin.net/library/minutes/ARIN_XIII/ppm.html).

### **Policy Proposal Discussions**

The current status of those policies discussed at the meeting are available on Page 5 of this newsletter, and on the Policy Proposal Archive page ([http://www.arin.net/policy/proposal\\_archive.html](http://www.arin.net/policy/proposal_archive.html)) of ARIN's website.

### **Working Group Reports**

#### **Database Implementation Working Group (DBWG)**

Cathy Murphy, on behalf of ARIN and standing in for Ginny Listman, ARIN's Director of Engineering and Working Group Chair, presented an update on ARIN database issues, including an engineering update and NRO technical coordination. Highlighted activities and developments included a database cleanup process, the formulation of a disaster recovery plan, the formation of an NRO Engineering Coordination Group, and an update on the Early Registration Transfer (ERX) Project. Other issues presented included ARIN's implementation of cryptographic authentication and an update on the Referral Server field.

#### **IPv6 Working Group**

Thomas Narten, the IPv6 Working Group Chair, opened this portion of the agenda by introducing Jordi Palet, of the European IPv6 Task Force & Steering Committee, for the purpose of a presentation on "Adoption Perspectives of IPv6." This was followed by Thomas Narten's presentation on "IETF IPv6 Activities - Update on Unique Local IPv6

Unicast Addresses."

### **Routing Table Measurement and Analysis (RTMA) Working Group**

Cathy Wittbrodt, RTMA Working Group Chair, announced that due to lack of interest and involvement, the working group would be dissolved. The RTMA mailing list ([rtma@arin.net](mailto:rtma@arin.net)) will still exist and the routing table updates will still go out. In addition, Cathy announced that her activities relating to this working group would probably continue, but that there seemed to be no interest in keeping RTMA as an active working group.

*Editor's Note: After the meeting, it was decided to close the [rtma@arin.net](mailto:rtma@arin.net) mailing list, and the Weekly Routing Table Reports are now being sent to [nanog@nanog.org](mailto:nanog@nanog.org). Subscription information for the NANOG mailing list can be found at <http://www.nanog.org/email.html>.*

### **Other Discussion Items**

#### **NRO Report**

On behalf of the NRO, Axel Pawlik, Managing Director of the RIPE NCC, gave a presentation on the Number Resource Organization. His update included a history of the issues that led to the formation of the NRO and information on the current status of the NRO, its structure, and its activities.

#### **ICANN Report**

Paul Verhoef, ICANN's Vice President for Policy Development Support, provided a presentation on recent ICANN achievements and activities, as well as a general overview of ICANN's operations and structure. Highlighted issues and activities included the fact that ICANN had completed its organizational restructure and new staff recruitment effort, it had opened a new office in Brussels, and details of the continued work on the extension and finalization of its MoU with the U.S. Department of Commerce.

#### **ASO MoU Update**

Axel Pawlik provided a presentation on the Address Supporting Organization (ASO) Memorandum of Understanding (MoU). His presentation focused on providing a historical timeline of the MoU and the organizations involved.

### **World Summit on the Information Society (WSIS) Discussion**

John Curran, Chairman of the ARIN Board of Trustees, introduced a panel of speakers who would address the issues surrounding WSIS. Those on the panel included: Lynn St. Amour, President and CEO of the Internet Society (ISOC); Theresa Swinehart, General Manager



for Global Partnerships at ICANN; and on behalf of all the RIRs, Axel Pawlik of RIPE NCC.

### Near-Real-Time Publication of Allocated Netblocks Discussion

Leo Bicknell, of the ARIN Advisory Council, gave a presentation on the possibility for the publication of data showing allocated netblocks. Leo made clear that while this was not a policy proposal, the ARIN AC and staff were looking for community input on the issue. After his presentation, a lengthy discussion was held and it was announced that the AC would take all the feedback under advisement.

### Preview of ARIN Policy Catalog and Glossary

Richard Jimmerson, then ARIN's Director of Operations and now Director of External Affairs, previewed the idea of enumerating the current ARIN policies for easy reference and documentation clarity. The goal is to replace the current ARIN policy web pages with a single document containing numbered and lettered sections. Challenges include unintended policy changes and community mapping of existing documentation to a new document. He presented a timeline for completion, which included additional opportunities for feedback from the community, and culminated in the possible publication of the new policy document at the end of 2004.

### Members Meeting

The ARIN XIII Members Meeting was held April 21, 2004. Full meeting minutes and presentation archives are available at: [http://www.arin.net/library/minutes/ARIN\\_XIII/mem.html](http://www.arin.net/library/minutes/ARIN_XIII/mem.html).

Reports were given by the Directors of ARIN's departments, the Chairs of the ARIN Advisory Council and Board of Trustees, and ARIN's Treasurer.

Highlights included Alec Peterson, Chairman of the Advisory Council, providing status reports on pending policy proposals and Lee Howard, ARIN Treasurer, giving an overview of ARIN's financial position and its outlook for the future.

## ARIN XIV

Don't forget to get ready for ARIN XIV! The meeting will be held October 20 - 22 in Reston, Virginia. Once again, it will be held back-to-back with NANOG. Remember to check out ARIN's website for more details later this summer.

## ARIN Director of Operations

*Text of announcement on June 15, 2004, from Ray Plzak, ARIN's President and CEO:*

The responsibilities and scope of ARIN's Executive Team has expanded tremendously in recent years, particularly due to emerging issues in the worldwide Internet Community. To more effectively support the community and manage internal company operations, the Director of Operations job was formally split into two separate positions. Richard Jimmerson, who has been ARIN's Director of Operations for the past four years, assumed the newly created Director of External Relations position on June 7, 2004. Richard will concentrate on coordinating the development of Number Resource policy through regional and global liaison; communicating with stakeholders in the ARIN region to gather information; and promoting participation in the Number Resource policy development process. Nate Davis will join our team on June 28 and take over the Director of Operations position. Nate will focus on overseeing and maintaining the effective internal operations of ARIN.

## New RSA Takes Effect

On June 1, 2004, ARIN announced that it released an updated Registration Services Agreement (RSA) that would take effect immediately.

To view the new RSA, visit:

<http://www.arin.net/library/agreements/rsa.pdf>.

Solution to Last Issue's Crossword

V	I	N	C	E	R	N	C
A	P	E	O	A			
A	N	N	U	A	L	M	E
C	U	C	S	E	C	R	U
R	O	M	E	O	S	O	R
E	B	B		U	M	K	
J	E	X	I	V		S	
N	E	R	D	T	O	E	
C	S		R	E	T	U	R
T			U	S	E	R	

## Crossword

### Across

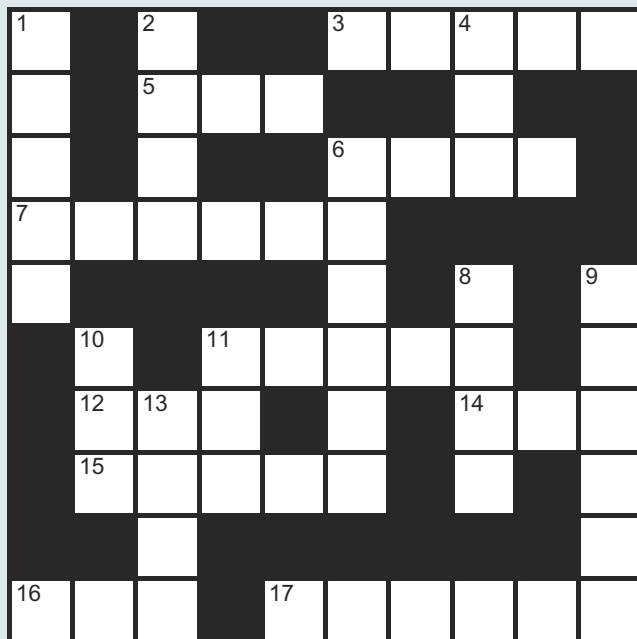
- 3. Home of Washington: \_\_\_\_\_ Vernon
- 5. Type of ARIN record, Admin or Tech for example
- 6. With 9 Down, nemesis of coyote
- 7. The OL in AOL
- 11. Successor of HTML
- 12. \_\_\_-distant
- 14. ARIN resource used for routing
- 15. After George Washington, the number of U.S. presidents from state where ARIN XIV will be held

16. The 'B' in USB

17. Last name of U.S. Senator and Governor from state where ARIN XIV will be held

### Down

- 1. Organization that holds back-to-back meetings with ARIN every fall
- 2. ARIN mailing list for discussion of policy: \_\_\_\_\_@arin.net
- 4. Abbr. of public university whose sports teams are known as the 'Cavaliers'
- 6. Early planned community and city that is site of ARIN XIV



8. Newton invented version of this for cats, also networking term

9. See 6 Across

10. Standard used to separate design from content in web pages

11. Constitutional amendment which includes 'equal protection' clause, expressed in roman numerals

13. Abbr. of company that makes things from components bought from other manufacturers, plural

*Solution will appear in next quarter's newsletter.*



**ARIN Today**, a quarterly newsletter, is produced for the ARIN membership and the Internet community. Articles and contributions dealing with IP address issues and technology are welcome from all sources.

Each issue is filled with news highlights, meeting descriptions, policy updates, and information about training and other services ARIN provides its members. Technology news and interesting applications are also covered.

If you have an idea about an article you'd like to submit, or something you'd like to see, please contact the editor at [webmaster@arin.net](mailto:webmaster@arin.net).

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