

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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ARIN XIV

Policy Discussions, ASO MoU Signing, and More at Reston Meeting

There's no place like home, or in IP parlance 127.0.0.1! ARIN XIV will be held October 20-22, 2004, in Reston, Virginia. The ARIN meeting will once again be held back-to-back with NANOG. The meetings will be held at the Hyatt Reston Town Center, a short drive from Dulles International Airport, with Washington D.C. only minutes away.

ARIN would like to express its appreciation for the meeting sponsorship provided by America Online and Time Warner Cable. Their support is greatly appreciated and we know will make this another successful meeting.

ARIN XIV Overview

On Sunday, October 17, during NANOG 32, ARIN staff will hold a tutorial titled "Internet Number Resource Management and Administration." It provides a general overview of ARIN, and will include details of

ARIN services, RIR structure, and how to get involved in ARIN activities. On the evening of Monday, October 18, there will be a NANOG BoF for ARIN to receive feedback from the operator community. The night of Tuesday, October 19, will feature an ARIN tutorial on Cryptographic Authentication and a Policy Proposal BoF. Wednesday, October 20, will be the first day of the Public Policy Meeting and, that evening, an exciting social event. The second day of the Public Policy Meeting will follow on Thursday, October 21. A highlight of the entire meeting will be the signing of the ASO Memorandum of Understanding (MoU) by the NRO and ICANN at the start of the meeting on Thursday. ARIN XIV will end with the Members Meeting on Friday, October 22.



Policy Discussions

Please see Page 5 for details about policy discussions taking place at ARIN XIV.

Continued on page 6

3rd Quarter
2004

NRO Active In Third Quarter Progress with AfriNIC, IANA to RIR IPv4 Allocation Policy



This past quarter was filled with activity related to the Number Resource Organization (NRO), and there is still a lot on the horizon. The NRO was formed by the Regional Internet Registries (RIRs) to formalize their cooperative efforts. It 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.

A major focus for the NRO has been assisting AfriNIC in its emergence as the RIR for the African region, and facilitating its transition to operational status, with the goal being its official recognition as a RIR by ICANN. For more information about AfriNIC and the assistance being provided by the NRO and ARIN, please see "AfriNIC Update" on Page 4.

In a joint Internet number resource policy development, the Address Supporting Organization

Continued on page 4

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Chantilly, VA 20151

Upcoming Internet Community Meetings Calendar

NANOG 32
October 17-19
Reston, Virginia, US

ARIN XIV
October 20-22
Reston, Virginia, US

LACNIC VII
October 26-29
San José, CR

61st IETF
November 7-12
Washington, D.C., US

ICANN Meeting
December 1-5
Cape Town, ZA

Updates to this calendar can be found at:
http://www.arin.net/library/internet_info/calendar.html.

Internet Community Meeting Reports

JOINT TECHS
July 18-21, 2004
Columbus, Ohio, US

ARIN staff attended the Joint Techs Workshop in Columbus, Ohio, and were invited to give a presentation on the status of ARIN-related activities. The Joint Techs Workshop is a national conference of networking engineers featuring presentations, Birds-Of-a-Feather meetings and demonstrations of state-of-the-art high-performance networking technologies.

<http://jointtechs.ornl.gov/>

ICANN
July 19-23, 2004
Kuala Lumpur, MY

The Internet Corporation for Assigned Names and Numbers (ICANN) held its 2nd meeting of 2004 in Kuala Lumpur, Malaysia, from July 19- 23.

At this meeting the ICANN Board adopted ICANN's

June 2005 budget, which is \$15,800,000, as compared to the June 2004 budget of \$8,230,000.

The World Summit on the Information Society (WSIS) held a workshop where different constituencies of the Internet community were given an opportunity to participate, and ICANN announced that it "particularly recognizes the continued initiatives of the At-Large Advisory Committee, the Business constituency, registries and registrars."

AfriNIC's progress towards emerging as the fifth Regional Internet Registry (RIR) was recognized by an ICANN Board Resolution. The text of the resolution, as well as additional information from this meeting, is available at:

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

RIPE NCC Regional Meeting
July 28-30, 2004
Nairobi, KE

RIPE NCC held a regional meeting for Africa in Nairobi, Kenya, from July 28-30, 2004. The meeting was held to discuss policy issues for the part of Africa currently within the RIPE NCC region.

The meeting was well attended by members of RIPE NCC inside Africa and several other individuals interested in the process. Meeting participation included representatives from the other RIRs and AfriNIC. The three day program covered several informational topics explaining the purpose of the RIPE NCC. Training courses and topics specific to the region of Africa were also included. The meeting resulted in a higher level of awareness of RIPE NCC activities and the emergence of AfriNIC. More information about this meeting is available at:

<http://www.ripe.net/ripenncc/regional-meetings/nairobi-2004/index.html>.

IETF 60
August 1-6, 2004
San Diego, California, US

The 60th IETF was held in San Diego, California. Attendance was up slightly from the previous two meetings. The reorganization of the IETF is well underway with a mission statement that has passed Internet Engineering Steering Group (IESG) approval. A new legal entity to bridge the current relationship with the Internet Society (ISOC) will be proposed and

debated in the coming months.

On the working group front, a long-sought milestone was met with the approval by the IESG of the DNSSEC protocol documents. The proposed standard now resides with the RFC editor. Publication is expected within a few months. This accomplishment gave an added level of energy and enthusiasm to both the IETF DNS-related working groups and external industry and research group meetings that were held during the same week.

One effort to promote DNSSEC is being chaired by Steve Crocker. His effort, funded by the U.S. Department of Homeland Security, is open to anyone in the Internet community. Information is available from:

<http://www.dnssec-deployment.org/>.

An association group called the DNS Manufacturers, Operators and Developers Association (DNS MODA) is in the formation process.

Jim Reid presented a suggested framework and business focus for the new group. DNS MODA is currently underwritten by Autonomica/Netnod, the Internet Software Consortium (ISC), and the WIDE Project. Further details on the group can be found at:

<http://www.dns-moda.org/>.

The Routing Protocol Security Requirements (RPsec) working group met. One of the drafts discussed addresses generic and protocol-specific routing threats. A design team of the working group is developing a report on BGP security. The report will be presented in the operators group panel during NANOG 32 in Reston, Virginia. The group is also working on authentication and session security drafts. The Cross Registry Information Service Protocol (CRISP) working group had a lengthy discussion of the updated Address Registry (AReg) draft. The most recent revision of the document included many substantive changes. Most notably, organization and resource name searches were removed from the draft. ARIN encourages anyone interested in Directory Services issues to take part in the discussion of this new protocol by joining the mailing list at:

<https://www1.ietf.org/mailman/listinfo/crisp>.

APNIC 18 **August 31-September 3, 2004** **Nadi, FJ**

The 18th APNIC Open Policy Meeting was held in Nadi, Fiji, from August 31-September 3, 2004 and was the first time that an APNIC meeting had been held in a Pacific island economy. The meeting was hosted by Telecom Fiji and Connect Fiji. APNIC 18 included tutorials, Special Interest Groups (SIGs), Birds-of-a-Feather sessions (BoFs), hostmaster consultations, the APNIC Member Meeting, and a social event.

There were several policy proposals up for consideration at this meeting. Consensus was reached on the following policy proposals: prop-021-v001 "Expansion of the initial allocation space for existing IPv6 address space holders," prop-005-v003 "Internet Assigned Numbers Authority (IANA) policy for allocation of IPv6 blocks to Regional Internet Registries" (with some modifications), and prop-025-v001 "Proposal for IPv6 IRR service at APNIC," while no consensus was reached on prop-023-v001 "A proposal to prevent the routing of "dark" address space," nor on prop-020-v001 "HD ratio for IPv4 allocations."

Additional highlights of the meeting included a discussion related to APNIC database maintenance.

<http://www.apnic.net/meetings/18/>

RIPE 49 **September 20-24, 2004** **Manchester, UK**

The RIPE 49 Meeting was held September 20-24, 2004, in Manchester, United Kingdom. The meeting was well attended by representatives of the RIPE community and RIPE NCC membership.

The first day of the meeting consisted of a full day LIR training course aimed at training new and prospective members on procedures for interacting with the RIPE NCC. The European Operators Forum (EOF), working group meetings, and the RIPE NCC General Meeting filled out the remainder of the one week event. The policy working group included an update of the new policy development process soon to be implemented in the RIPE NCC service region.

<http://www.ripe.net/ripe/meetings/ripe-49/>

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Address Council (ASO AC) submitted the "Global Addressing Policy ASO-001-2" for the approval of the ICANN Board of Directors on September 3, 2004. This policy is intended to describe the procedures by which IANA will make IPv4 allocations to the Regional Internet Registries (RIRs). This policy was separately approved in accordance with each of the four current RIR's local policy development processes. As a result of that effort, the policy was forwarded from the NRO to the ASO Address Council (ASO AC). The text of the policy is available at:

<http://www.nro.net/archive/news/aso-001-2.pdf>.

On September 20, 2004, the NRO announced that it has pledged \$50,000 (USD) to the Working Group on Internet Governance (WGIG), as part of its continued commitment to this working group and the overall World Summit on the Information Society (WSIS) process. The full text of the announcement is available at:

http://www.nro.net/archive/press-releases/PR_NRO-WGIG-commitment.html.

On September 21, 2004, Ray Plzak, ARIN President and CEO, made a statement on behalf of the NRO to a conference on the establishment of the WGIG. The full text of this statement is available at:

<http://www.nro.net/documents/statements/WGIG-Statement.html>

To help you keep current on the latest NRO news, ARIN highlights the latest NRO announcements on its home page, and additional information can always be found at :

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

Additional documents and background information about the NRO, including the NRO MoU and a NRO FAQ, are also available through the URL provided above. If you have any questions related to the NRO, please be sure to check out the NRO Mailing List (nro-comments@nro.net). Information on how to subscribe to this list is available at:

<http://www.nro.net/mailman/listinfo/nro-comments>.

AfriNIC Update

On July 20, 2004, Paul Wilson, as Chair of the NRO, signed a joint letter to ICANN with Adiel Akplogan, CEO of AfriNIC. The letter was a progress report on the establishment of AfriNIC as the RIR for the African continent. Fifteen separate milestones are noted in the report as being accomplished or reached since October 2003. Some highlights of these milestones include the adoption of Africa-specific policies by the area's existing RIRs (APNIC, ARIN, RIPE NCC), AfriNIC's adoption of a policy development process that has already been used to develop policies for use when AfriNIC begins operations, and major operational and organizational infrastructure developments necessary for AfriNIC to continue transition activities and begin early implementation activities in the coming months. The letter, with a full listing of these milestones, is available at:

<http://www.nro.net/documents/nro14.html>.

Following on that previous letter, the NRO sent a formal statement of support for the recognition of AfriNIC to ICANN on September 1, 2004. The statement of support encourages the ICANN Board to provide provisional recognition of AfriNIC as soon as possible, but no later than the ICANN meeting scheduled for December 2004 in Cape Town, South Africa. A copy of the letter is available at:

<http://www.nro.net/archive/news/afrinic-sos.html>.

Also on September 1, 2004, ARIN published updated information about AfriNIC's activities related to its emergence as a Regional Internet Registry. Included in the announcement were links to the transition plan and a reminder to organizations with resources in the Africa region that beginning September 1, ARIN will begin training with AfriNIC staff to conduct joint reviews of all IP and AS number requests coming from the ARIN-portion of the region.

The full text of the announcement is available at:

<http://www.arin.net/announcements/20040901.html>.

Additional information about AfriNIC can be found on its website at:

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

ARIN XIV Policy Discussions

The following Internet number resource policy proposals will be up for discussion at ARIN XIV, having successfully completed the initial steps as outlined in the Internet Resource Policy Evaluation Process (IRPEP) or were carried over from the last ARIN meeting. The IRPEP document is available at:

<http://www.arin.net/irpep.html>.

2004-5: Address Space for Multiple Discrete Networks

2004-6: Privacy of Reassignment Information

2004-7: Residential Customer Privacy Policy

2004-8: Allocation of IPv6 Address Space by the Internet Assigned Numbers Authority (IANA) Policy to Regional Internet Registries

2004-3: Global Addresses for Private Network Inter-Connectivity

Leading up to the meeting, policy proposals are open for discussion on the Public Policy Mailing List (ppml@arin.net). Each policy proposal has been posted to PPML as an independent thread to facilitate discussion. A summary of the active policy proposals under discussion is available at:

http://www.arin.net/policy/proposal_archive.html.

As the text of these proposals is subject to change prior to the meeting, please remember to check the above URL for the latest version. You can also subscribe to the Public Policy Mailing List (ppml@arin.net) for all announcements and discussions related to these proposals. Information on how to subscribe to this and other ARIN mailing lists is available at:

http://www.arin.net/mailing_lists.

The entire Internet community is invited and encouraged to participate in policy discussions. Your active participation in these discussions is vital to the process and will help to form policies that are beneficial and fair to all.

ARIN Board Actions

The ARIN Board of Trustees met on July 1 and August 3. The following are highlights of Board actions and discussions from the past quarter:

- Adopted Policy 2003-4: IPv6 Policy Changes.
- Modified the initial fee for ISP IPv4 Subscriptions to: \$1,250 for extra small; \$2,250 for small; \$4,500 for medium; \$9,000 for large; and, \$18,000 for extra large.
- Discussed a proposal to modify AS number fees, with further action pending a deeper examination of the impacts of any changes.
- Modified the size categories for end-user assignments to be the same as for ISP subscriptions, and that the initial fee be the same as for ISP subscriptions, with no change to annual maintenance fees.
- Modified the initial and renewal fees for IPv6 ISP subscriptions to: \$1,250 for an extra small; \$2,250 for a small; \$4,500 for a medium; \$9,000 for a large; \$18,000 for an extra-large; and, \$36,000 for an extra, extra-large, without altering the fee waiver currently in effect.
- Set the initial fees for IPv6 end-user assignments to be the same as those for ISP subscriptions, with annual maintenance to be consistent with other maintenance fees, and without altering the fee waiver currently in effect.
- Established milestones necessary to produce the ARIN Internet Number Resource Policy Manual.

The minutes for all Board of Trustees meetings are available at:

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

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Elections

An election to fill the ASO Address Council seat from the ARIN region will take place during the meeting. Also, the nominees for ARIN's Board of Trustees and Advisory Council will be introduced and given a chance to speak. Please see Page 6 for additional information and details on this year's elections.

Social Event

From 6:30 - 9:30 PM on Wednesday, Oct. 20, 2004, come join your colleagues from the community at the ARIN XIV social at the eCITIE Restaurant and Bar! The evening will include appetizers, a buffet style dinner, an open bar, and music and dancing.

Transportation will be provided between the Hyatt Regency Reston and eCITIE. In addition, when departing from the event, attendees will have the option to take an hour-long narrated driving tour of Washington, D.C. at night before being returned to the hotel.

Remote Participation

In its continuing effort to supply the community with as open a forum as possible, ARIN will offer those individuals who can't attend the meeting in person the ability to participate remotely. For this meeting, it will be a test of the process, allowing ARIN to judge the interest in this service and receive feedback and experience. Remote participation will only be available to those who have not registered to attend the meeting in person and will only be open during the Public Policy Meeting. Comments received from remote participants will be moderated and presented to the meeting during the normal question and answer periods. Additional information about this service and about our RealMedia (provided by Merit) and multicast (provided by Univ. of Oregon) webcast of the Public Policy Meeting will be available on the ARIN website prior to the ARIN XIV meeting.

Additional Information

Both before and during the meeting, the central information source for news and updates about ARIN XIV is:

<http://www.arin.net/ARIN-XIV/>.

Here you can find agenda updates, meeting announcements, and links to presentations during the meeting.

Information about NANOG 32 can be found at:

<http://www.nanog.org/>.

2004 Election Information

Board of Trustees and Advisory Council

On July 23, ARIN issued an open call for nominations to fill two seats on the Board of Trustees and five seats on the Advisory Council that will become vacant at the end of this year. All new terms will begin on January 1, 2005.

The Board seats opening are currently held by Lee Howard and Bill Manning.

The Board of Trustees candidates are:

- Lee Howard, Blackboard, Inc.
- Aaron Hughes, YellowBrix
- David Kessens, Nokia
- Bill Manning, EP.NET, Ilc.
- Alec Peterson, Catbird Networks
- Barry Shein, Software Tool & Die
- Paul Vixie, Internet Systems Consortium, Inc.

The AC seats opening are currently held by Paul Andersen, Ron da Silva, Sanford George, Kevin Martin, and Cathy Wittbrodt.

The Advisory Council candidates are:

- Paul Andersen, egateNETWORKS Inc.
- Marla Azinger, Electronic Lightwave
- Ron da Silva, Time Warner Cable, Inc.
- Owen DeLong, DELONG
- Alan Levin, Future Perfect Organization
- Michael Loevner, Verizon Internet Services
- Greg Massel, DataPro
- Alex Rubenstein, Net Access Corporation
- Bill Sangiwa, Tanzania Internet Exchange & Tanzania Network Information Center
- Scott Shackelford, Cox Communications
- Cathy Wittbrodt, Daydream Imagery, Inc.

Candidate biographies and information about the election process is available at:

<http://www.arin.net/elections/>.

Voting is open to all ARIN General Members in good standing . The online voting booth will open at 09:00 ET on October 25 and will close exactly 7 days later, at 09:00 ET, November 1.

Now is the time to make sure you have a designated member representative for your Org ID and that

you are eligible to vote in this year's Board and AC elections. Contact memsvcs@arin.net if you have any questions about your membership status.

ASO Address Council

On July 19, ARIN issued an open call for nominations to fill the vacancy created by the expiration of Eric Decker's term on December 31, 2004. The new term will begin on January 1, 2005.

The ASO AC candidates are:

- Sherrod DeGrippe, NNSA / DOE
- Sanford H. George, USC
- Kyle Hamilton, Brooks Institute
- Martin Hannigan, VeriSign
- Thomas Simes, Alaska Communications Systems

ARIN's General Members in good standing are able to vote online beginning 09:00 ET October 13. In addition, ALL registered NANOG 32 and ARIN XIV attendees (except RIR staff) are entitled to vote onsite during the meetings. Both online and onsite voting booths close at 17:00 ET on October 20th, the first day of the ARIN Public Policy Meeting.

Important Election Dates

October 5-6: Candidates announced via arin-announce and the ARIN website

October 13-20: Online voting for the ASOAC election for ARIN General Members in good standing

October 19-20: Onsite voting for the ASO AC election for all attendees (except RIR staff) of NANOG 32 and ARIN XIV

October 20: Online and onsite ASO AC voting closes at 17:00 ET

October 21: ASO AC election winner announced during the ARIN XIV Public Policy Meeting

October 22: Board and AC candidates given the opportunity to present their qualifications at the ARIN Members Meeting

October 25 - November 1: Online voting for the Board and AC for ARIN General Members in good standing

November 8: ARIN President announces Board and AC election winners via arin-announce and the website

Expanded Eligibility for ARIN Certificates

As of October 4, 2004, ARIN has expanded the number of Points of Contact (POCs) eligible to apply for an X.509 certificate for use with ARIN's registration system. ARIN will now accept requests from Tech or Admin POCs associated with any organization that has signed a Registration Services Agreement (RSA) with ARIN. Previously, only POCs for member organizations were eligible.

Cryptographic signing of e-mail communications, including template requests, to ARIN's hostmaster@arin.net offers participating organizations enhanced security for their ARIN records and resources.

For your reference, ARIN has published Frequently Asked Questions (FAQ) at:

http://www.arin.net/CA/ca_faq.html.

Eligibility and usage criteria, as well as overviews of the processes involved, are explained in the FAQ.

ARIN's Certification Practice Statement contains a statement of practices that ARIN's Certificate Authority (CA) employs in issuing public-key certificates to qualified POCs. It is available at:

http://www.arin.net/CA/ca_cps.html.

If you are a POC that meets the eligibility criteria, you may request a certificate at:

<http://ca.arin.net/request>.

You will be asked to fill in a form with some basic information, and your browser will lead you through the process of requesting the certificate. Please direct any questions not addressed by the above referenced FAQ to hostmaster@arin.net.

Solution to Last Issue's Crossword

N		P		M	O	U	N	T
A		P	O	C		V		
N		M			R	O	A	D
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B	U	S			W	A	R	N
								R

Beyond ARIN - An Update from APNIC

By Gerard Ross
APNIC

APNIC has played a significant role over the past year in deploying root server mirrors throughout the Asia Pacific region. In collaboration with F-Root administrators, the Internet Systems Consortium (ISC), and I-Root administrators, Autonomica, APNIC has helped to establish eight anycast mirrors at sites including Brisbane, Bangkok, Beijing, Hong Kong, Seoul, Singapore, and Taipei. These servers are ensuring more robust DNS services and improvements in speed and reliability have already been observed.



Further information on APNIC's root server activities is available at:

<http://www.apnic.net/services/rootserver/>.

Development is continuing on APNIC's online resource management system, MyAPNIC. Now at version 1.3, the system has expanded to include a range of advanced member services, including a looking glass feature, bulk upload and download of database objects, online voting in member elections, integration with APNIC's request tracking system, and a simplified IPv4 request form.

Work is already underway on the next upgrade of the system, which will provide account holders the ability to make their customer assignment records hidden or visible in the APNIC Whois database, create reverse DNS records, and store infrastructure records.

The APNIC website features a Flash demonstration outlining the core features of MyAPNIC, at:

<http://www.apnic.net/myapnic-demo/flash/>.

The 18th APNIC Open Policy Meeting (APNIC 18) was held at the Sheraton Fiji Resort, Nadi, Fiji from 31 August to 3 September 2004. Not only did this mark the first time that an APNIC meeting was held in Fiji, but it was also APNIC's first meeting in the Pacific Islands, opening up the APNIC policy development process to an even wider audience.

This past summer, APNIC announced that although the next election for an Asia-Pacific seat on the ASO Address Council was due to be held during APNIC 18, the APNIC Executive Council decided to defer this election pending an outcome in the current negotiations between the Number Resource Organization (NRO) and ICANN.

These two bodies have signed a letter of intent to form a new ASO Memorandum of Understanding (MoU), which is expected to be finalized sometime in the next few months, and may have implications for the structure of the Address Council.



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.

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