



Member Update

www.ripe.net

Information bulletin for the members of the RIPE Network Coordination Centre

August 2004

The RIPE NCC Member Update is intended for LIR contacts.

If you are not the right person to receive this update, please forward it to the appropriate colleague.

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<http://www.ripe.net/newsletter>

RIPE NCC Membership Growth Survey

During the first part of 2004, the RIPE NCC carried out a survey of members asking those taking part to predict how many Local Internet Registries (LIRs) they expect there to be in their home country over the next two years.

For member activities and budgeting purposes, the RIPE NCC relies on annual membership growth estimates. This is particularly important when setting membership fees.

The primary aim of the survey was to enable the RIPE NCC to better plan for future growth. The RIPE NCC does already look at past trends and uses industry knowledge to predict growth. It was felt that these figures could be significantly improved by using the knowledge of the market and local conditions offered by our members.

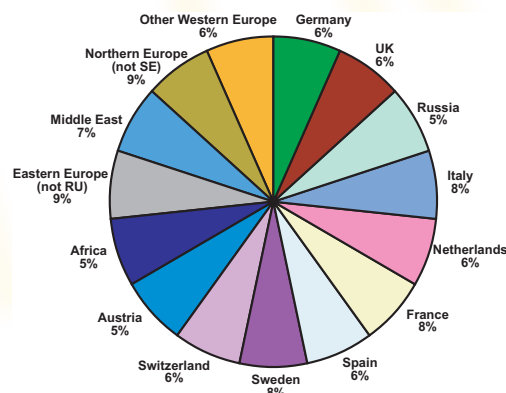
The survey was available for eight weeks through the secure LIR Portal. When members logged into the survey they were presented with a summary of how many RIPE NCC members were registered in their home country over the past five years, providing an indication of past growth trends. The RIPE NCC was not looking for exact figures, rather best estimates.

Who responded?

Response rates were good, averaging at around

17% of all LIR Portal account users, resulting in 825 completed surveys. The majority of those who responded worked within technical or operational fields. Response rates did tend to vary across our service region. We had little from our African members, which makes the data perhaps somewhat less useful when predicting growth across that area.

The chart below shows from where the responses were received for this survey.



How did we interpret the responses?

For each individual country, we took a weighted average. This means that we looked at the spread of predictions around the overall average. Thus a lower weighting was given to respondents whose predictions differed significantly from the majority of responses received for each country.

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New Instance of RIPE NCC Operated K-root Server Deployed in Doha, Qatar

Qtel, in partnership with the RIPE NCC, has deployed a mirror instance of the K-root server in Doha, Qatar. This deployment should boost Internet performance across the Middle East region as a whole.

Information about this node and the general requirements and guidelines for expressions of interest for hosting a mirror instance of K-root can be found on the K-root website:

<http://k.root-servers.org/> ■

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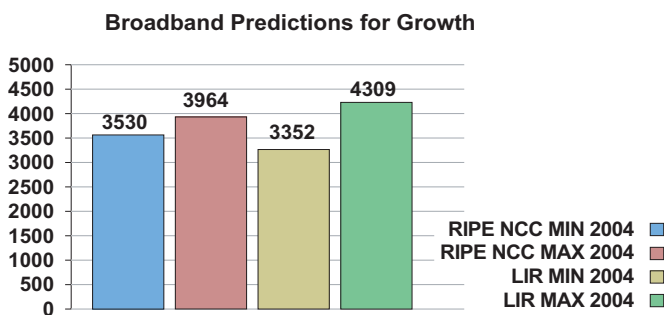
The mission of the RIPE NCC is to perform activities for the benefit of the membership; primarily activities that the members need to organise as a group, although they may compete with each other in other areas.

*RIPE NCC Membership Growth Survey
Continued from page 1*

From this we were able to look at the figures on a deeper level. We produced two ranges of figures. One showing a 65% probable broadband prediction for membership numbers at the end of 2004 and another showing a 95% probable range.

What did we find out?

The RIPE NCC uses variables to determine the growth percentages and formulate a broadband figure for growth over



the coming year. These include recent growth trends, growth over the past two to three years and the number of closures in each country.

The RIPE NCC is currently suggesting that the broadband of growth for 2004 will be between 3530 and 3964 LIRs.

The survey has shown that, overall, our members feel that in 2004, numbers of LIRs will remain fairly stable. The figures from the survey fall into a similar range to those suggested by the RIPE NCC, though the upper and lower limits are extended slightly.

Those who completed the survey suggested a figure somewhere between 3352 and 4209, the average overall for 2004 though gives a figure of 3631, well within the RIPE NCC predicted range.

The overall result holds up throughout the survey with results from most countries predicting a similar though slightly wider band of numbers. In almost every case the average prediction from each country was well within the broadband figure suggested by the RIPE NCC.

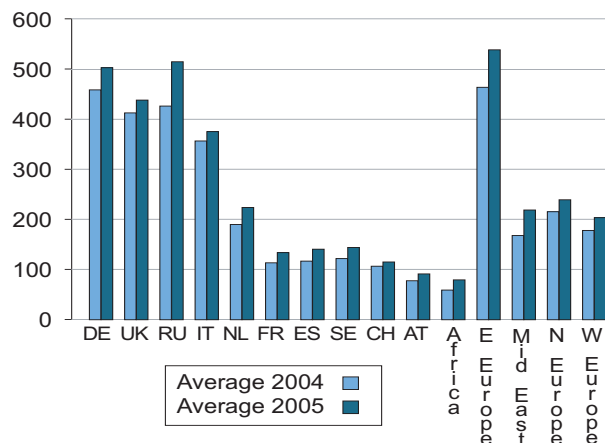
Predictions for 2005 are, it appears, far more optimistic, suggesting members see an average growth of around 7-8%. The areas that seem to show the greatest optimism are Russia and the Middle East. Here growth rate predictions average at 12%. The RIPE NCC predicts a broadband total between 3610 and 4025 by the end of 2005, our members place the figure at 4085.

Taking a deeper look at the predictions from Russian LIRs, however, shows that this optimism is not shared by all those who completed the survey in that country. There is a spread of

almost 26% around the overall average. In the Middle East, however, the spread is relatively low at just 13%, pointing to a geographical area in which a majority of members feel there will be growth far above the average levels seen elsewhere between now and December 2005.

The least optimistic results came from Eastern Europe. In most areas or countries, LIR broadband predictions for 2004 growth gave maximum ranges outside the broadband figure suggested by the RIPE NCC. In Eastern Europe, members predicted a figure between 482 and 583 (RIPE NCC broadband prediction is 540-610). The average prediction for 2004 is 485, down considerably on the current level of 545. The figure suggested for 2005 averaged out at 550.

The table below shows the average figures predicted for each country for the end of 2004 and 2005.



Complete information on this survey can be found at: <http://www.ripe.net/ripenc/mem-services/growth-survey/index.html#results>

RIPE NCC New Activities for 2005

As a follow-up to the RIPE NCC presentations in the RIPE NCC Services Working Group at RIPE 48 and at the General Meeting, in May 2004, the RIPE NCC compiled a list of new activities scheduled for 2005 and activities that represent a significant change in resource allotment from 2004.

This list was sent to members in mid-July 2004, and was not intended as a representation of the full 2005 Activity Plan or precise associated cost. Instead, it was intended to foster discussion and feedback from members to aid the RIPE NCC and its Executive Board in the planning and production of the final Activity Plan, Budget and Charging Scheme documents for 2005.

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Based on discussions at the RIPE NCC Services Working Group, the General Meeting, and the respective mailing lists, the RIPE NCC Executive Board will formally approve the final Activity Plan and Budget 2005 documents in Q3/2004.

According to the revised RIPE NCC Articles of Association, the members will be formally asked to approve the Charging Scheme 2005 at the RIPE NCC General Meeting in September. This document will be published four weeks in advance of the General Meeting according to the formal requirements.

Below is a list of new RIPE NCC activities scheduled for 2005 and activities that represent a significant change in resource allotment from 2004.

New Activities for 2005

For each of the new activities listed below, a description is provided as well as an assessment of its financial impact on resources.

The following ranges are used to show the financial impact and relative weight of the proposed new activities.

Fractional	0 - 50 kEUR
Small	50 - 100 kEUR
Moderate	100 - 200 kEUR
Significant	200 - 400 kEUR
Substantial	> 400 kEUR

1) RIPE NCC Member Service Desk

Feedback received from RIPE NCC Members has revealed a need to consolidate the communication channels members can use to contact the RIPE NCC. To achieve this, the RIPE NCC will create the RIPE NCC Member Service Desk, a convenient single point of contact that will be available through direct e-mail and phone contact. E-mail will remain the primary means of communication.

The aim of the RIPE NCC Member Service Desk is to provide members with any additional help necessary to resolve queries involving RIPE NCC Registration Services, RIPE Database and RIPE NCC billing procedures.

The RIPE NCC Member Service Desk will provide a single point of contact that RIPE NCC members can use to resolve issues that cannot be resolved satisfactorily by other methods. The RIPE NCC Member Service Desk aims to improve the ease and efficiency with which members can interact with the relevant person at the RIPE NCC. The desk will be available through direct email and phone contact.

Regular service requests will continue to be processed by RIPE DBM and the Hostmasters in the RIPE NCC Registration Services department. The RIPE NCC Member Service Desk is intended to support members who have issues that cannot be resolved through these regular channels.

Various interfaces to the RIPE NCC Member Service Desk, such as Jabber, PSTN or VoIP, will be investigated and prepared.

Dependent on feedback from RIPE NCC Members, the scope of the RIPE NCC Member Service Desk may be expanded in the long term.

This activity includes the capital expenses of telecommunications equipment that will be deployed company-wide.

Financial Impact: Significant (200 - 400 kEUR)

2) Further Deployment of Mirror Instances of the K-root Nameserver

The RIPE NCC will continue to deploy mirror instances of the K-root nameserver. This will further improve the distribution, redundancy and performance of this crucial service as well as its resilience against Denial of Service (DoS) attacks. In 2005, the RIPE NCC will continue deployment of local nodes in the RIPE NCC service region, which will be done on a cost recovery basis. The RIPE NCC will also deploy several (2-3) global nodes in North America and Asia-Pacific. Most of the costs of global node deployment will be covered by the RIPE NCC.

Financial Impact: Significant (200 - 400 kEUR)

3) Improving Data Integrity

In 2005, the RIPE NCC will focus efforts on improving the accuracy, integrity and consistency of data related to Internet number resources. Mechanisms will be established to ensure higher quality data in the long term, decreasing discrepancies and incorrect contact details and thus increasing the speed at which requests and disputes can be resolved. The improved integrity of data will benefit the Internet community by increasing the reliability of using registration data in the daily operations of LIRs and ISPs.

Financial Impact: Moderate (100 - 200 kEUR)

4) Developing New Training Methods

To adapt the training offered by the RIPE NCC to the differing needs of the audience, new training methods will be developed, particularly focusing on online training.

The intention is to reach a broader audience, particularly those who are unable to attend RIPE NCC training courses due to geographical, financial, scheduling, or other constraints. Offering more accessible training will help members to send better-prepared requests to the RIPE NCC Hostmasters. This aims to ensure a more timely completion of allocation requests.

In addition, the RIPE NCC will develop new forms of training and information dissemination to specifically target non-traditional audiences such as journalists, politicians and administrators. This is a logical progression of the RIPE NCC's outreach efforts developed over previous years. The aim is to encourage well-informed decisions and to win continued support for the existing RIR framework.

Financial Impact: Small (50 - 100 kEUR)

5) Membership Survey

The RIPE NCC will commission an independent member and stakeholder survey, similar to the survey conducted by KPMG in 2002. Based on the results of this survey and in close interaction with the members and stakeholders, the RIPE NCC will continue to improve its operational

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*RIPE NCC New Activities for 2005
Continued from page 3*

quality and organisational structure.

Financial Impact: Small (50 - 100 kEUR)

6) Cross Registry Information Service Protocol (CRISP)

Responding to requests from the community for a standard, uniform global view of Internet Number Resources, the RIPE NCC will continue to participate in the IETF process to develop the Cross Registry Information Service Protocol. In 2005, the RIPE NCC will provide server implementation and client tools, while co-ordinating with other server operators, client tool authors, and service providers to encourage use.

Financial Impact: Small (50 - 100 kEUR)

7) Deployment of Anti-SPAM Measures and SPAM Abuse Policies

The RIPE NCC will deploy technical facilities to minimise the effect of SPAM towards the RIPE NCC and the mailing lists it provides for members and the RIPE community.

Financial Impact: Fractional (0 - 50 kEUR) ■

AfriNIC's First Public Policy Meeting

By Adiel Akplogan, Chief Executive Officer, AfriNIC

The 23rd and 24th of May 2004 were two important days for the African LIR community. During those two days, AfriNIC held its first public policy meeting in Dakar, Senegal. It was the first time that discussions could focus on operations and organisational matters. There were 125 registered participants (an average of 80 in permanent attendance in the meeting room) with more than 30 existing LIRs.

This meeting marks an important step forward in the AfriNIC process showing the involvement of the local African Internet community. The policies adopted, according to the AfriNIC policy development process have been sent back to the AfriNIC policy discussion list (policy-wg@afriNIC.org) for a last call for comment. All the documents are available at:
<http://www.afriNIC.net/documents.htm>

After this final step, they will be shifted to the AfriNIC Board of Directors for final adoption.

During the same meeting, AfriNIC held its Annual General Meeting where a new board was elected to replace the Interim board appointed three years ago. According to the newly adopted bylaw (<http://www.afriNIC.net/bylawstexte.htm>), the AfriNIC Board is now composed of seven members; six of whom are elected with one alternate for each. The seventh seat is filled by the AfriNIC Chief Executive Officer. The seats are numbered as follows:

Seat 1 and 2: Northern and Western sub-regions
Seat 3 and 4: Southern and Eastern sub-regions
Seat 5 and 6: Central and Indian Ocean sub-regions

The newly elected board is composed as follows:

1. Western Africa:

Primary: Pierre Dandjinou (BJ)
Secondary: Sunday Folayan (NG)

2. Northern Africa:

Primary: Kamal Okba (MA)
Secondary: Mokhtar Hamidi (DZ)

3. Eastern Africa:

Primary: Brian Longwe (KE)
Secondary: Charles Musisi (UG)

4. Southern Africa:

Primary: Alan Barret (SA)
Alternate: Alan Levin (SA)

5. Central Africa:

Primary: Didier Kasole, (RDC)
Secondary: Pierre Mutumbe (CD)

6. Indian Ocean:

Primary: Viv Padayatchy (MU)
Secondary: Kenneth Yiptong (MU)

The meeting ended with Pierre Dandjinou from Benin being appointed Chair of the AfriNIC Board of Directors, and Adiel Akplogan, the CEO of the organisation, becoming the seventh member of the board. The next major step in the AfriNIC process will be the recognition of AfriNIC as a formal Regional Internet Registry by ICANN during its meeting in Cape Town, South Africa, later this year.

More information on AfriNIC can be found at:
<http://www.afriNIC.net/> ■

The RIPE NCC General Meeting May 2004

The RIPE NCC General Meeting May 2004 was held Friday, 7 May 2004, adjacent to the RIPE 48 Meeting, at the Hotel Krasnapolsky in Amsterdam.

The RIPE NCC members approved all of the resolutions on the agenda, including the new Clearing House Procedure, the new Standard Service Agreement and the new Terms and Conditions.

The members also approved the 2003 Financial Report of the RIPE NCC.

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*The RIPE NCC General Meeting May 2004
Continued from page 4*

The 2003 Annual Report of the RIPE NCC can be found at:
<http://www.ripe.net/ripe/docs/ar2003.html>

The meeting agenda included the election to fill two RIPE NCC Executive Board member seats for three-year terms. The members elected Nigel Titley and Janos Zsako to fill these two seats.

The presentations given at the General Meeting can be found at:
<http://www.ripe.net/ripencc/about/gm/gm-may2004/presentations/index.html> ■

APNIC Update

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

Along with the APNIC Member Meeting, SIG meetings, and Birds of a Feather sessions (BoFs), the APNIC 18 programme will include a number of tutorial sessions presented by APNIC training staff, and a four-day pre-conference ISP/IXP networking workshop.

As in the past, APNIC is offering a limited number of fellowships to allow members of the Internet community in the developing economies of the Asia Pacific region to attend APNIC 18.

For more information on any aspect of APNIC 18, please see the meeting website:
<http://www.apnic.net/meetings/18/>

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/> ■

ARIN Holds First Regional Meeting

Jambo! Karibu! With these words the ARIN regional Public Policy meeting was opened 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, brought together ARIN members from Tanzania, Mozambique, and South Africa, as well as 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 across seven economies. This one-day meeting was held to discuss policy issues for this part of Africa currently within the ARIN region and to stimulate involvement regarding AfriNIC, the emerging Regional Internet Registry. Handout materials on ARIN's Internet Resource Policy Evaluation Process, an FAQ on the Number Resource Organization, and copies of ARIN's Letter of Support for AfriNIC were available in English, Swahili, Arabic, and French.

Members of ARIN's Board of Trustees, Advisory Council, and staff outlined ARIN's structure, the policy development process, and current ARIN IP numbering resource policies. AfriNIC CEO Adiel Akplogan reported on the recent AfriNIC meeting in Dakar and the current status of AfriNIC's transition plan. There were no formal policy proposals presented. During Open Microphone sessions items of interest included a need for a definition of efficient address utilization for reporting purposes, membership on the ARIN Advisory Council, and transition matters following AfriNIC's formal recognition. ■

LACNIC Update

In May 2004, LACNIC reached its first 18 months of fully independent operational work. In this period, as part of LACNIC's goals, the Board of Directors and staff have been fully committed to the development of the Internet in our region. As part of this commitment, LACNIC has been supporting a number of relevant Internet projects and activities that contribute to the stability and deployment of the Internet in the Latin American and Caribbean (LAC) region.

At this moment, LACNIC is managing a fund of \$450,000 USD intended for small grants for Information Technology projects in the LAC region. This program, called FRIDA (www.programafrida.net), has received a broad welcome in our community as reflected by the 122 applications received for grants.

Together with the Internet Systems Consortium (ISC) we reached an agreement for the deployment of seven new anycast copies of the F-root server in the LAC region. LACNIC contributes part of the set-up cost for these anycast instances.

Educational and training activities are also in the scope of LACNIC efforts. We have held Internet Resources Management training sessions in nine countries, which represents more than 83% of our current membership. LACNIC sponsors other educational efforts

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such as the WALC, the most important networking technology training event in the LAC region. Since 1998 WALC has helped to train 1500 attendees.

In the LAC region, one of our most important concerns is the deployment of IPv6. LACNIC is hosting the activities of the IPv6 Latin America Forum (FLIP-6). One of the outcomes of FLIP-6 is the creation of the Latin American IPv6 Task Force.

Finally, we are currently looking to consolidate new relationships with NAPs and Advanced Academic Networks to increase involvement in new projects that can benefit our community. ■

ISOC Launches New ccTLD Workshops

The Internet Society (ISOC) recently held the first in a series of new workshops for country code Top Level Domain (ccTLD) operators. The workshops, which continue ISOC's long tradition of delivering network training to developing countries, are being held in response to numerous requests for technical education as well as help with best practices relevant to running exemplary registry services.

The first event, which was held at the RIPE NCC in Amsterdam from 19 - 22 June, was sponsored by the Public Interest Registry (PIR) and brought together operators of ccTLDs in Burundi (.bi), Benin (.bj), Nepal (.np), Sri Lanka (.lk), Ghana (.gh), Thailand (.th) and Uruguay (.uy). Instructors included renowned experts from a wide range of organisations including ICANN and the University of Oregon's Network Startup Resource Center (a joint organiser of the workshop).

"We recognise the important role ccTLD operators play in the development of the Internet. Our workshops are aimed at helping them get access to the knowledge and skills that they need to build up high quality infrastructure and services as well as a strong policy capability in their countries," said Lynn St. Amour, President and CEO of the Internet Society. "As the Internet continues to grow, ccTLDs are integral in shaping the global evolution. .ORG is supportive of this growth and PIR is proud to have sponsored the ISOC ccTLD workshop on best practices for an exemplary registry," said Edward G. Viltz, President and CEO of Public Interest Registry, managers of the .ORG gTLD.

Starting with a review of DNS, attendees were taken through the steps required to build and scale their DNS infrastructure. Detailed examples were given of how to install BIND and how to build and maintain a zone file. The instructors went on to provide valuable tips on techniques and tools to help automate operations and hands-on exercises helped attendees get a grip on the practical aspects of building their registry operation.

Participants had the opportunity to learn not only how to set up the required technical infrastructure, but also how to interact with bodies

such as IANA and ICANN. Participants learned that the practical details of knowing who to talk to, where to find information and what

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RIPE NCC Regional Meetings

The RIPE NCC has organised three successful Regional Meetings. The meetings took place in Dubai (December 2003), Moscow (June 2004) and Nairobi (July 2004).

Feedback from members and other meeting attendees has been very positive.

These Regional Meetings have helped the RIPE NCC to initiate local contact and support, and to enable the RIPE NCC to gather valuable input and comments from members in particular areas of its service region.

Regional Meetings also bring the RIPE NCC closer to its members who are not able to participate in RIPE Meetings, providing a perfect opportunity for establishing direct contact and promoting open dialogue.

Additionally, the Regional Meetings bring members from a specific region closer to the RIPE community and encourage their participation in RIPE Meetings, RIPE Working Groups and the policy-making process.

We are open to your suggestions regarding these meetings. Please send your suggestions about RIPE NCC Regional Meetings to the RIPE NCC Membership Liaison Officer at:

<contact@ripe.net>

Previous RIPE NCC Regional Meetings

- The RIPE NCC Regional Meeting, Dubai, U.A.E., took place on the 7 - 9 December 2003 at the Taj Palace Hotel, Dubai.

Presentations from this meeting can be found at:
<http://www.ripe.net/ripenncc/regional-meetings/dubai-2003/presentations/>

- The RIPE NCC Regional Meeting, Moscow took place on the 16 - 18 June 2004 at the Hotel Metropol, Moscow.

Presentations from this meeting can be found at:
<http://www.ripe.net/ripenncc/regional-meetings/moscow-2004/presentations.html>

- The RIPE NCC Regional Meeting, Nairobi took place on the 28 - 30 July 2004 at the Norfolk Hotel, Nairobi.

Presentations from this meeting can be found at:
<http://www.ripe.net/ripenncc/regional-meetings/nairobi-2004/presentations/> ■

ISOC Launches New ccTLD Workshops Continued from page 6

information needs to be provided during registration or dispute handling processes are equally important to smooth registry operations. The workshop also provided an excellent forum for participants to exchange their own experiences and to work with the instructors to tackle their specific issues.

The success of the event was due to the enthusiasm of all who participated and to the efforts of organiser Mirjam Kuehne (ISOC), instructors Lucy Lynch (University of Oregon), Joe Abley and Suzanne Woolf (ISC), Frederico Neves (Registro.br), Jaap Akkerhuis (SIDN), John Crain (IANA/ICANN), Olaf Kolkman (RIPE NCC) and Alain Aina (Technologies Reseaux & Solutions, Togo). Event hosting and administrative support was provided by the RIPE NCC and Michiel Leenaars of the ISOC Netherlands chapter.

Materials presented at the workshop are available now at ISOC's Workshop Resource Centre (<http://ws.edu.isoc.org>). The ISOC ccTLD workshop series will continue with events in other parts of the world.

For further details please see the Internet Society's website at: <http://www.isoc.org>

Upcoming RIPE NCC General Meeting

The RIPE NCC General Meeting (GM) is open to all members of the RIPE NCC.

The GM enables the membership to openly discuss the performance of the RIPE NCC and the quality of the services that it provides to its members.

The next RIPE NCC General Meeting will be held alongside RIPE 49 on Friday, 24 September 2004 14:00 - 17:00 (CET) at the Renaissance Hotel, Manchester, United Kingdom.

Information about the RIPE NCC General Meeting is available at: <http://www.ripe.net/ripencc/about/gm>

RIPE Meetings

RIPE Meetings are open to anyone. The meetings address technical and policy issues affecting Internet administration and operations specific to IP networking.

Next RIPE Meeting: RIPE 49

RIPE 49 will take place 20 - 24 September 2004 at the Renaissance Hotel, Manchester, United Kingdom.

At RIPE 49 there will be various working group sessions of

interest to network operators and administrators. For the latest up-to-date information and to register for the upcoming RIPE Meeting please refer to:

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

Upcoming RIPE Meetings

RIPE 50: 2 - 6 May 2005, Hotel Clarion, Stockholm ■

Current Policy Developments in RIPE

Consensus Reached on Minimum Allocation for LIRs in Africa:

There was consensus to change the minimum allocation for LIRs operating in Africa. The minimum allocation for these LIRs is now /22. Larger allocations will be made to African LIRs when justified.

The following issues are currently being discussed:

Policy Development Process

The RIPE community is continuing the process of formalising and documenting its Policy Development Process. By formalising and documenting the process, it is hoped that people will find it easier to participate in RIPE. The discussion is taking place on the <ripe-pdp@ripe.net> mailing list. Participation is open to all.

You can subscribe at this web page:

<http://www.ripe.net/mailman/listinfo/ripe-pdp>

The list archives can be found at:

<http://www.ripe.net/ripe/mail-archives/ripe-pdp/index.html>

IP Assignments for Anycasting DNS Servers

Discussion was restarted at RIPE 47 on the proposal for allowing special IP assignments to enable zone operators to anycast some of their DNS servers. The mailing list discussion on this issue is archived at:

<http://www.ripe.net/ripe/mail-archives/address-policy-wg/2004/msg00220.html>

IPv6 Policy

Following a presentation and discussion at RIPE 48 in May, some of the ambiguous text in the IPv6 policy document is being discussed and clarified. The presentation can be found at:

<http://www.ripe.net/ripe/meetings/ripe-48/presentations/ripe48-ap-ipv6-policy.pdf>

The discussion on clarifying the text can be found at:

<http://www.ripe.net/ripe/mail-archives/address-policy-wg/2004/msg00240.html> ■

RIPE NCC Training Courses

LIR Training Courses

Moscow, Russia

Friday, 27 August 2004

Antwerp, Belgium

Friday, 3 September 2004

Budapest, Hungary

Friday, 10 September 2004

Manchester, United Kingdom

Monday, 20 September 2004

(During RIPE 49)

Oslo, Norway

Friday, 1 October 2004

Geneva, Switzerland

Thursday, 14 October 2004

Nuremberg, Germany

Wednesday, 20 October 2004

Nicosia, Cyprus

Friday, 22 October 2004

Madrid, Spain

Friday, 29 October 2004

Novosibirsk, Russia

Thursday, 4 November 2004

Amsterdam, the Netherlands

Friday, 12 November 2004

Damascus, Syria

Monday, 22 November 2004

Belgrade, Yugoslavia

Friday, 26 November 2004

Edinburgh, United Kingdom

Friday, 3 December 2004

Naples, Italy

Friday, 10 December 2004

Amsterdam, the Netherlands

Friday, 17 December 2004

Routing Registry Training Courses

Geneva, Switzerland

Friday, 15 October 2004

Damascus, Syria

Tuesday, 23 November 2004

DNSSEC Training Courses

Copenhagen, Denmark

Friday, 20 September 2004

Amsterdam, the Netherlands

Friday, 8 October 2004

Novosibirsk, Russia

Friday, 5 November 2004

Conference Calendar

Conferences and meetings that may be of interest to RIPE NCC members:

August 2004

SIGCOMM 2004

Portland, OR/ US

<http://www.acm.org/sigs/sigcomm/sigcomm2004/>

Monday, 30 August - Friday, 3 September

APNIC 18

Fiji

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

Tuesday, 31 August - Friday, 3 September

September 2004

CENTR (23rd GA)

Yerevan/ AM

<http://www.centri.org/meetings/ga-23/>

Tuesday, 21 September - Wednesday, 22 September

RIPE 49

Manchester/ UK

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

Monday, 20 September - Friday, 24 September

IPv6 Deployment

Manchester/ UK

<http://www.uk.ipv6tf.org/>

Tuesday, 21 September - Thursday, 23 September

SANE

Amsterdam/ NL

<http://www.nluug.nl/events/sane2004/>

Monday, 27 September - Friday, 1 October

October 2004

NANOG 32

Reston, VA/ US

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

Sunday, 17 October - Tuesday, 19 October

ARIN XIV

Reston, VA/ US

<http://www.arin.net/membership/meetings/>

Wednesday, 20 October - Friday, 22 October

LACNIC VII

San Jose/ C.R.

<http://lacnic.net/en/meetings.html>

Sunday, 24 October - Tuesday, 26 October

November 2004

IPv6 Summit

Madrid/ Spain

<http://www.ipv6forum.com/navbar/events/global.htm>

Date to be announced.

IETF 61

Washington, D.C./
US

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

Sunday, 7 November - Friday, 12 November

December 2004

ICANN

Cape Town/ Z.A.

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

Wednesday, 1 December - Sunday, 5 December