

APNIC Status Report

ARIN VI Public Policy Meeting 2-4 October 2000

Overview

- ◆News
- Membership Growth
- Statistics
- Activities
- Priorities





◆Total number of medals won - top 5

◆USA 97

◆RUSSIA 88

◆CHINA 59

AUSTRALIA 58

•GERMANY 57





Medals per million inhabitants

◆AUSTRALIA 3.02

◆GERMANY 0.68

◆RUSSIA 0.60

◆USA 0.35

◆CHINA 0.04

Source: www.medaltally.com



News - APNIC Open Policy Meeting

- 25-27 Oct, Brisbane, Australia
 - Plenary, AC Election & Members Meeting
 - Special Interest Groups (SIGs)
 - Routing, Database, Address Policy & IPv6
 - Training & tutorials
 - ◆APNIC policies & procedures, IPv6, RPSL & DNS
 - Hostmaster consultations
 - **◆**BOFs
 - Membership Agreement, Multi-homing, CA Authority, and Exchange Points

- DRAFT agenda Address Policy SIG
 - ◆IPv6 policy review
 - IP addresses for GPRS backbone & mobile phones
 - Cable network assignment policies review
 - PI assignment criteria
 - PA first allocation criteria
 - Common registry evaluation principles



Membership Growth

Monthly total members (2nd quarter)

	<u>2000</u>	<u> 1999</u>
◆April	479	279
◆ May	505	294
→ Jun	518	302
→ Jul	540	320

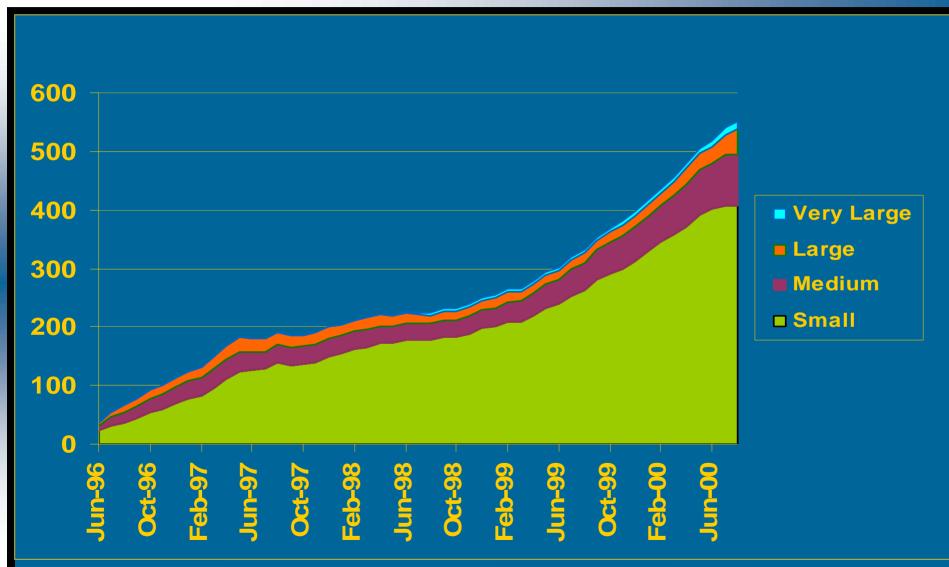
 Monthly total new members (2nd quarter)

	2000	<u> 1999</u>
◆April	23	14
◆ May	30	17
→ Jun	20	10
→ Jul	26	18

July totals 68% increase over 1999

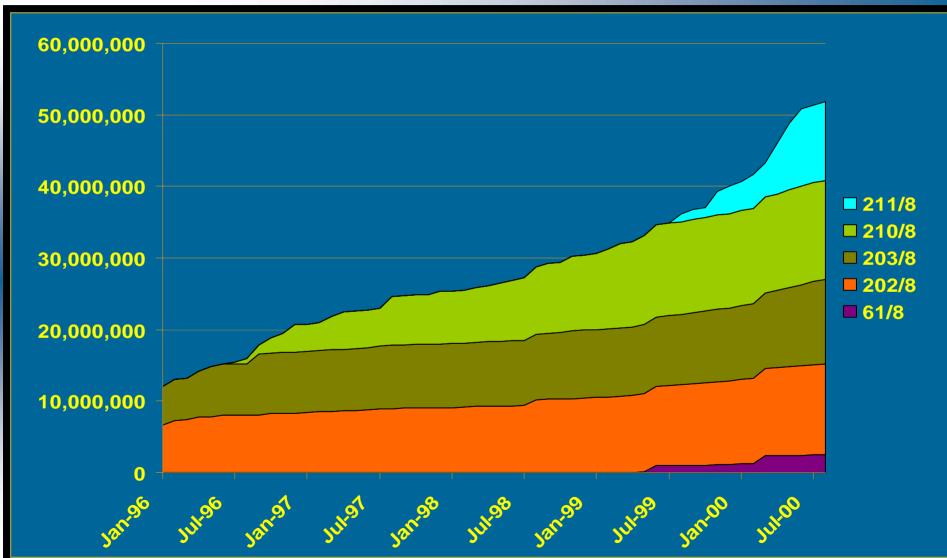


Membership Growth



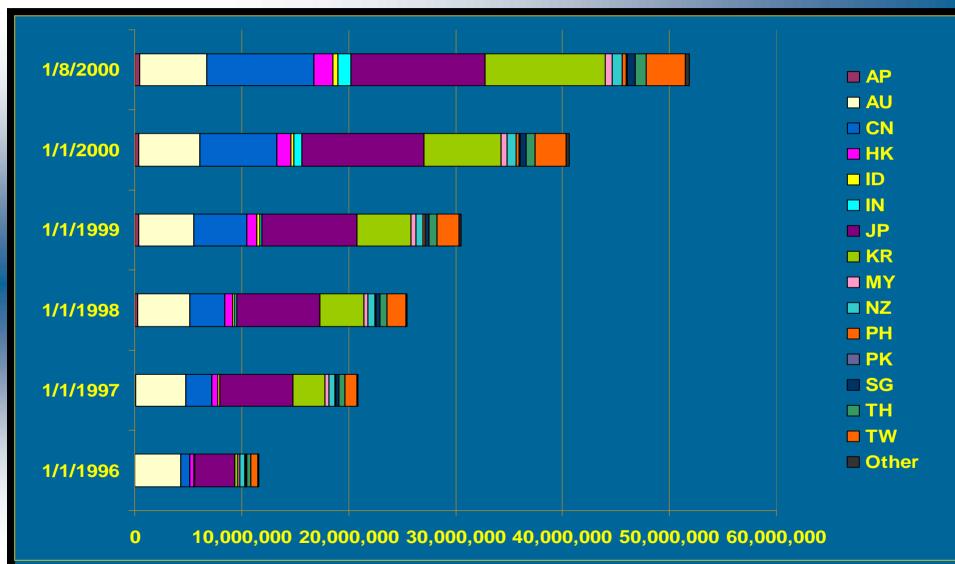


IPv4 Address Space Usage



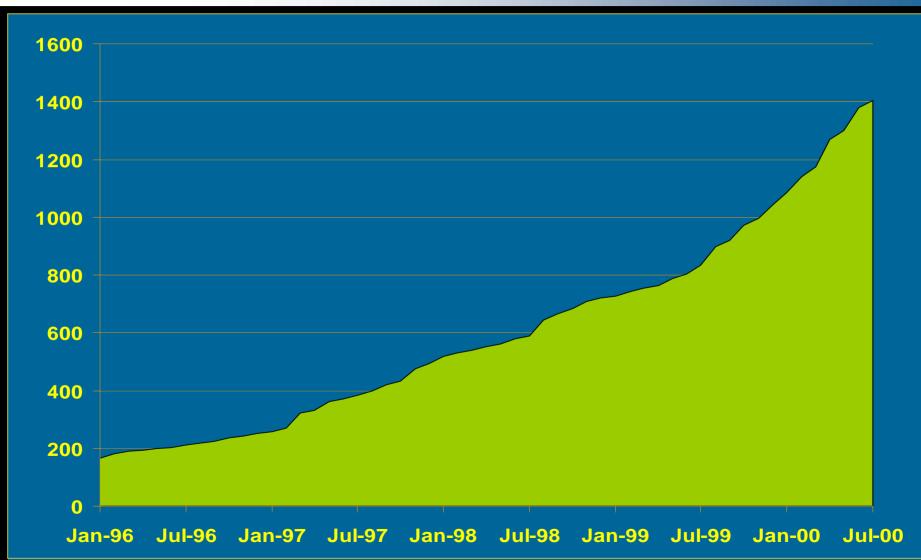


IPv4 Allocations - Distribution



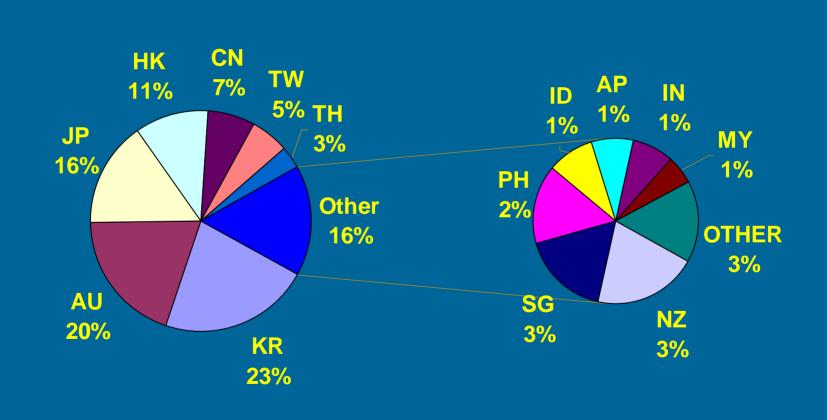


ASN Allocations - Total





ASN Allocations - Distribution



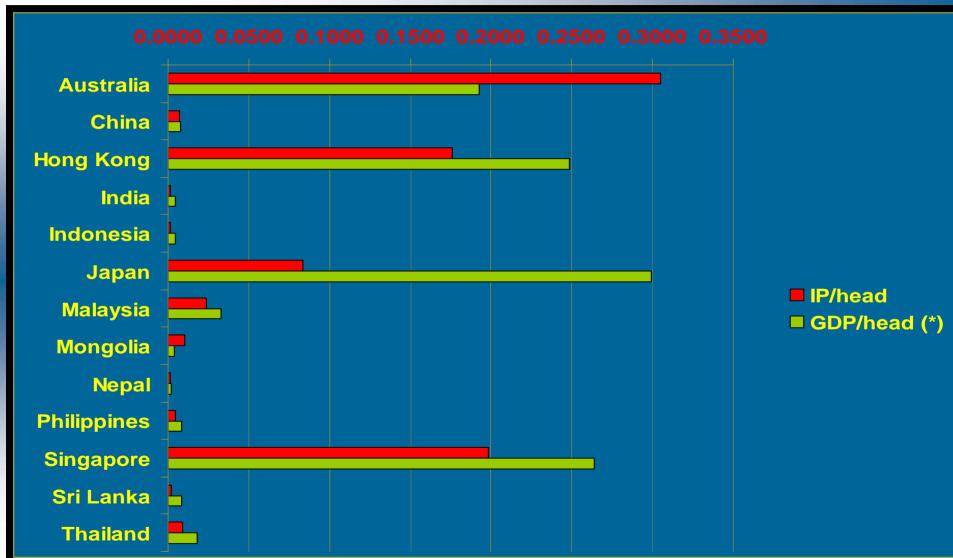


APNIC Resources

- Consumption rate (3 years)
 - ◆IPv4 755,000 IP/month (0.54 x /8 p.a.)
 - ◆ASN 28 ASN/month (341 p.a.)
- Consumption rate (1 year)
 - ◆IPv4 1,312,000 IP/month (0.94 x /8 p.a.)
 - ◆ASN 43 ASN/month (524 p.a.)
- Consumption rate (6 months)
 - ◆IPv4 1,698,000 IP/month (1.21 x /8 p.a.)
 - ◆ASN 47 ASN/month (568 p.a.)



IP usage & GDP per Head





IPv6 Allocations - Distribution

- ◆IPv6 allocations
 - 'Steady trickle'
 - 20 requests received
 - 16 allocations in total
 - ◆JP (9) KR (3) AU (1) SG (1)TW (1) CN (1)
 - Excellent RIR co-operation
- IPv6 policy document revision ongoing
 - Substantial input from IETF
 - Discussion at members meeting

◆NIRs

- KRNIC trainee hostmaster 3 months at APNIC
- Aim to improve understanding of NIR
- Other NIR trainees planned APJII Indonesia
- **♦**RIRs
 - Policy co-ordination & documentation
 - Mutual attendance at meetings
 - Assistance to RIPE NCC
 - To assist with workload

- Course schedule developed
 - From 'Expressions of Interest'
 - Co-locate training with outreach work where possible
- Open seminars & training
 - Co-presented with APTLD/APIA
 - To promote awareness of Internet Governance and APNIC
 - ◆Aug Indonesia
 - Sep Vietnam and Thailand
 - Oct Brisbane (training only)
 - Nov NZ (Pacific Islands), Korea and Taiwan

Content

 New modules on IPv6, SPAM and IP address management of different network topologies

Delivery

- Whois server database demonstrations
- Video capturing tool to record how to fill in web request forms



Translation

- Call for translation proposals
 - Translating APNIC core documents into major languages of region
 - ◆Proposals received from CN, TW, SG, ID, JP, KR
- NIR policy document translations into English
 - Assisted by APNIC hostmasters
 - **◆CNNIC** China
 - TWNIC Taiwan (ongoing)



Software and Automation

- Migration internal data to relational DB (mysql)
 - Completed consistency checking of address allocation data
- ISP Parser and Analyser
 - Tool to support users and data analysis for hostmasters
 - Usability testing planned in October with members
- New 'Whois' client library
 - Submitted to CPAN
 - Online at http://www.apnic.net/apnic-bin/whois2.pl



Special Projects

- Certification authority (X.509)
 - Response to member concerns on security
 - Feasibility project underway
 - Identity certificates for APNIC members will be issued at APNIC meeting
 - Used for secure access to web site, encrypted and signed email
- 'MyAPNIC' member pages
 - Integrating secure access to billing, ticketing, whois DB and request data of member



Priorities 2000/2001

- Improved quality of service
 - Software to support request process
 - 'Help-desk' to support users
 - Improved member security through CA project
 - Improved documentation
- Statistical analysis
 - To support policy development
- Staffing
 - Sufficient to meet demand!



Questions?



RIPE NCC Status Report

ARIN VI Public Policy Meeting
2-4 October 2000



Outline

- News
- Statistics
- Achievements
- Activities
- Priorities



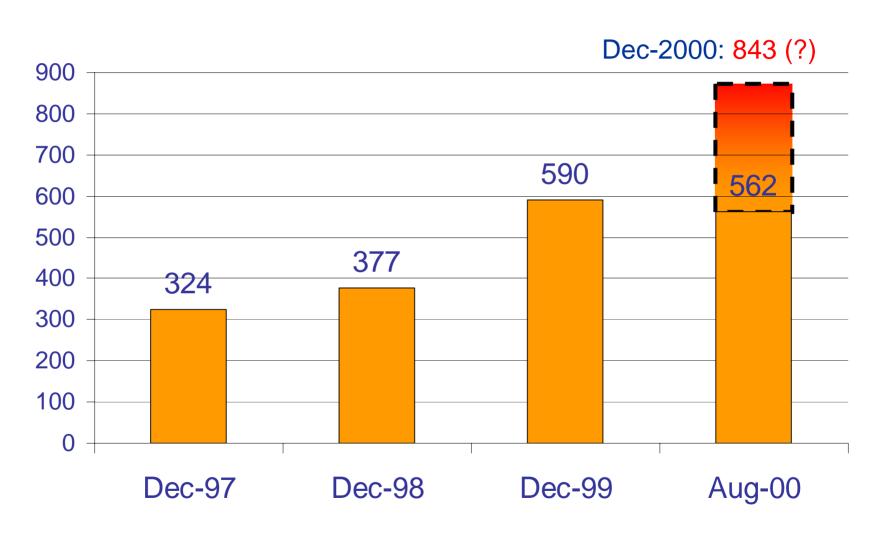
News

- Minimum Allocation Policy changed (/20)
- lir-help@ripe.net> helpdesk mailbox
- Improve & update documentation (on-going)
- Tools BoF at RIPE 37



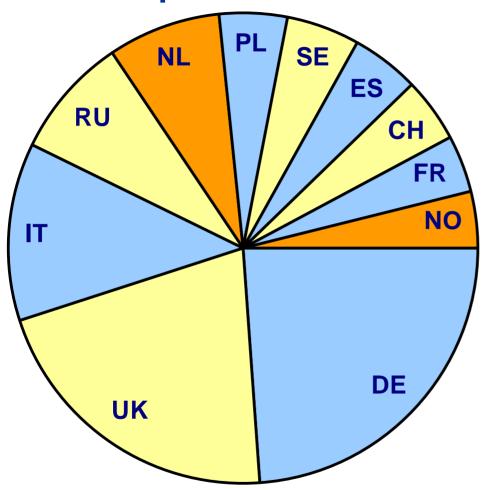
LIR Growth 97-00

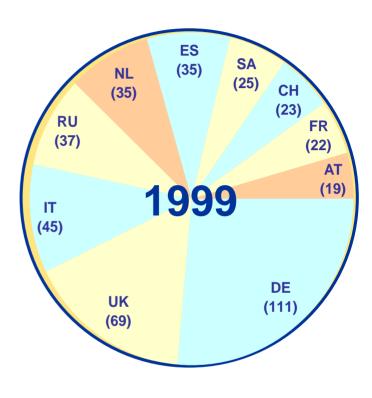
(current membership total: ~ 2500)





Top10 New LIRs 2000 to Date



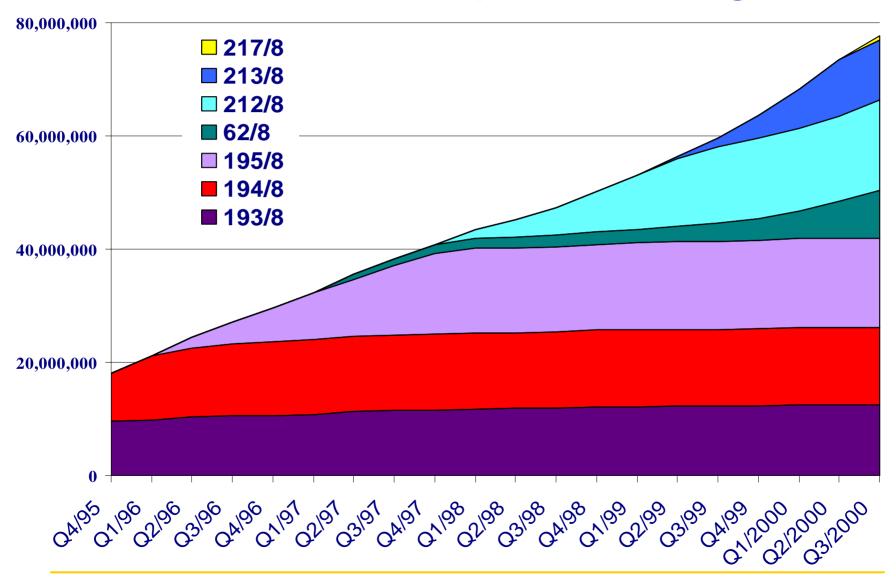


Jan-Aug 2000: 562

Jan-Aug 1999: 380



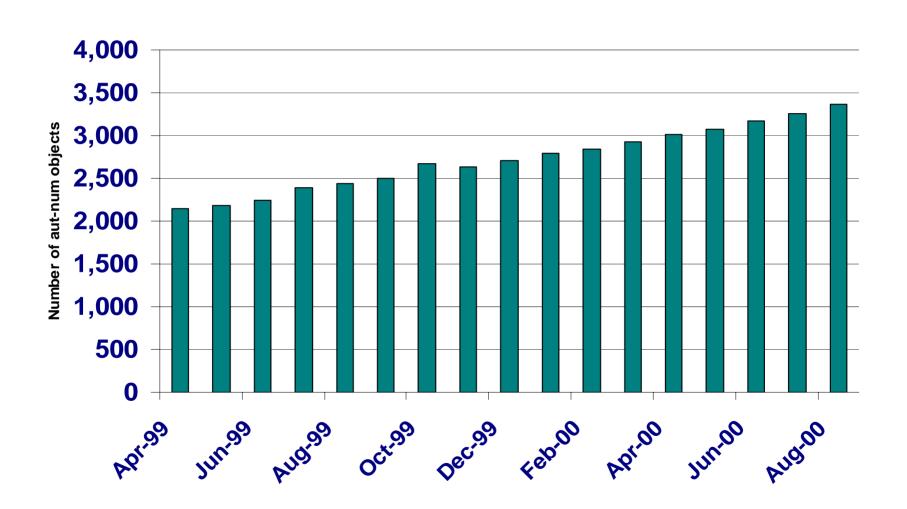
Address Space Usage





AS Numbers

During Last 12 months





Consumption rates

- 97-98
 - 691,467 IPv4 Addresses per month (0.62 /8 p.a.)
 - 41 AS numbers per month
- 1999
 - 1,178,027IPv4 Addresses per month (0.80 /8 p.a.)
 - 54 AS numbers per month
- 2000
 - 2,237,389 IPv4 Addresses per month (1.2 /8 p.a.)
 - 82 AS numbers per month



IPv6

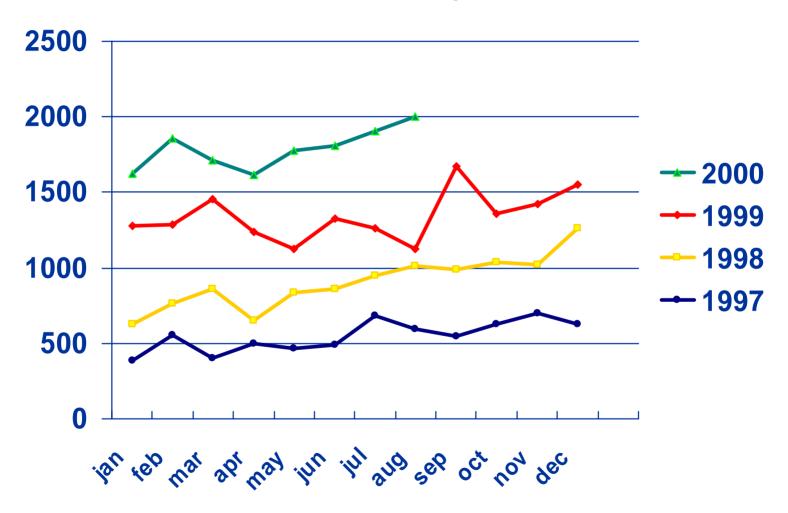
- 21 sub-TLAs Allocated
 - 7 DE
 - 2 EU, 2 FR, 2 UK
 - 1 AT, 1 CH, 1 GR, 1 NL, 1PT, 1 RU, 1 SE, 1 PL
 - 10 ranges reverse delegated
- Excellent co-operation between RIRs
 - Common evaluation of requests

http://www.ripe.net/ripe/docs/ripe-196.html



Number of new requests in

<hostmaster@ripe.net>





RS Achievements

- LIR booklet ready
- TIP list
 - http://www.ripe.net/ripencc/tips/tips3.html
- Extended and improved FAQ
 - http://www.ripe.net/ripencc/faq/index.html
- 'Asused public' further improved
- More pro-active AW raises!
- Further improved automation and efficiency



Courses & External Comms.

- LIR Training Courses
 - 41 courses planned for 2000
 - Increased number of participants per course to 30
 http://www.ripe.net/ripencc/mem-services/training/
- RIPE NCC awareness
 - Established relations with ETSI
 - RIPE NCC / GSM Assoc. joint press release
 - Meetings with Members of European Parliament and national governments



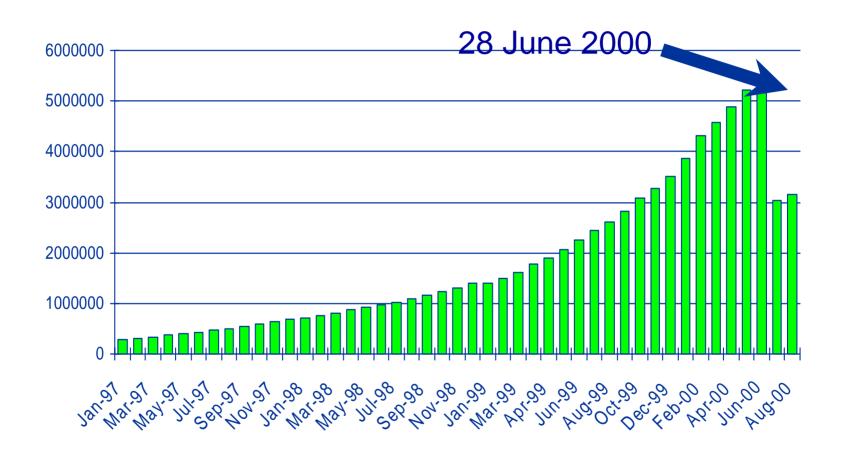
RIPE Database

- Domain objects in the RIPE Database
 - < 20% of RIPE Database (57% at RIPE 36)</p>
 - 4 ccTLD registries moved since RIPE 36

- Database reimplementation
 - http://www.ripe.net/ripencc/pub-services/db/reimp
- Routing Registry Consistency
 - Increase the accuracy of the Routing Registry



3 Million Objects





New Projects

- TTM: Test Traffic Measurements
 - Becoming a member service final proposal at RIPE 37
- PAM2001-Workshop
 - Call for Papers issued
 - http://www.ripe.net/pam2001
- RIS: Routing Information Service
 - collect routing info. between ASes & AS development over time
- Security Deployment
 - New project, started June 2000
 - Project Plan in development / BoF at RIPE38



RIR Co-ordination

- Policy co-ordination
 - IPv6 discussions at IETF
- Assistance from APNIC staff (Thanks!)
- Common evaluation of requests
 - (IPv6, GPRS, large and complex requests etc.)
- RIR staff attending RIPE, ARIN and APNIC meetings
- Support of LACNIC and AfriNIC setup



NCC Next Steps

- Further automate internal tools and processes
- Complete infrastructure overhaul
- Extend tools for members
- Update and improve external documentation
- Migrate to new DB software
- Introduce TTM as a service
- Further formalise ICANN relations



RIPE NCC Priorities

 Ensure and further improve stable, reliable and high quality services

- Respond to members needs and propose and develop services as needed
- Further increase RIPE NCC and RIPE awareness





Medals / million square miles

- GERMANY 413
- USA 26
- AUSTRALIA 19
- CHINA 15
- RUSSIA 13





Medals / RIR Service Region

• RIPE NCC: 556

• APNIC: 188

• ARIN: 185



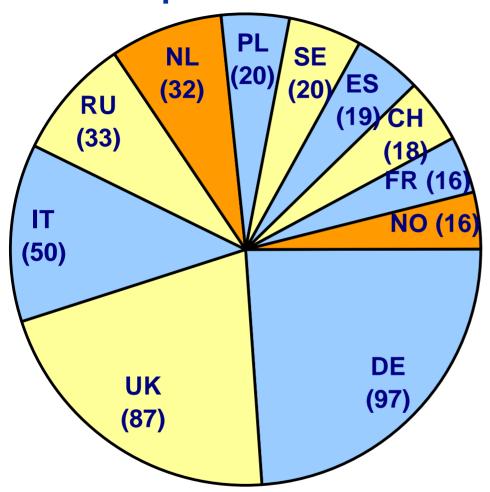
Questions and Answers

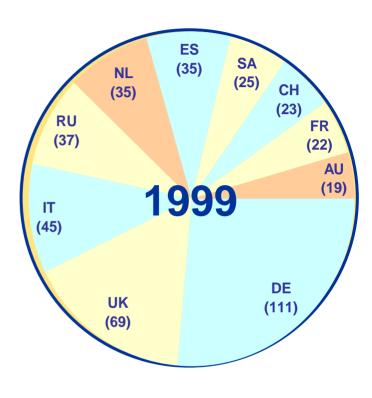


http://www.ripe.net/ripencc/about/presentations/index.html



Top10 New LIRs 2000 to Date





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LACNIC STATUS

ARIN VI Herndon, VA October, 2000

http://www.lacnic.org



Work based on:

Criteria for Establishment of New Regional Internet Registries Document.

MoU ASO

RFC 2050, RFC 1918, RFC 1930, etc.

The region of coverage should meet the scale to be defined by ICANN, given the need to avoid global address fragmentation.

Coverage: Caribbean countries. Latin-American countries.

LACNIC Operational Center: São Paulo, Brasil.

The new RIR must demonstrate that it has the broad support of the LIRs (ISP community) in the proposed region.

Part I

Supporting Letter at LACNIC website

- ▶149 individual supports.
- ▶107 Companies.
- ▶16 Countries.

*Telecommunications Regulatory Bodies from LAC Region (20 countries) have shown their support through their resolution statement after their III Summit Meeting. http://www.ahciet.net/actividades/cumbre_reg

-http://www.lacnic.orc

The new RIR must demonstrate that it has the broad support of the LIRs (ISP community) in the proposed region.

Part II

60% actual Latin-American ARIN's members have signed the letter support in the website or have shown their support by email.

Some LACNIC presentations

- Globecom, Rio Janeiro, December 1999
- •AHCIET Internet 2000, Santiago Chile, June 2000
- ·Latin-American and Caribbean Workshop, Mexico City, July 2000.

-http://www.lacnic.org

Bottom-up self-governance structure for setting local policies.

According to MoU we will establish mechanism for open forums for regional policies discussion.

December 15th Buenos Aires, Argentine open forum for LACNIC policies discussion.

-http://www.lacnic.orc



Neutrality and impartiality in relation to all interested parties and particularly the LIRs

Policies draft document finished. /20 minimum allocation.

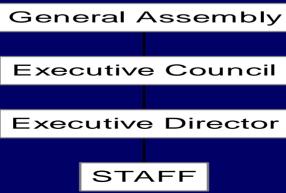
Bylaws document finished.

not-for-profit.

open and based on membership (those who receive services

from LACNIC, those who are willing to join to the LACNIC

membership)



http://www.lacnic.org

Technical Expertise

In the start-up, staff and infrastructure will be provided by NIC-Brazil.

Both ARIN's National LIRs, Brazil and Mexico, have been involved in LACNIC policies development.

NIC-Brazil agrees in guarantee all the operational resources for 2 years.

Adherence to global policies regarding address space conservation, aggregation and registration.

IPv4, IPv6, ASN, Reverse DNS delegation LACNIC policies are based on

- RFC documents.
- APNIC Policies.
- **ARIN** Policies
- RIPE Policies.

Spanish version already in LACNIC website. English version will be ready for Brisbane Meeting and publish in LACNIC website.

http://www.lacnic.org

Activity Plan

Document not ready yet. This plan should include the traditional RIRs activities and additional services LAC community as:

Training Information Services Coordination tasks Etc,

The staff and infrastructure provided by NIC-Brazil will be totally independent from domain name activities and the staff will be submitted to LACNIC policies and purposes only.

-http://www.lacnic.org

Funding Model

Not-for-profit organization.

In the start-up, NIC-Brazil will take care of the LACNIC costs. (2 years)

Final funding model in process according to Brazil Economy.

Structure fee same as ARIN.

Record Keeping

English official languaje of the Registry System.

Core documentation (at least):

- Policies
- **Bylaws**
- Procedures
- Website
- Whois DB
- Service staff.
- Meeting (simultaneous translations)



Confidentiality

Information collected by a RIR in the registration process must be kept in strict confidence and uses for registration purposes only.

Present to the AC ASO at Brisbane a formal advance document according to the Emerging RIR Document.

Start technical steps in order to settle a dependable staff and infrastructure (In coordination with the other RIRs, mainly ARIN).

Organize open forum for LACNIC policies (first at Buenos Aires, Argentine in December).

Complete Emerging RIR document guidelines (including technical issues) by ICANN meeting in March 2001.



LACNIC STATUS

Questions?

http://www.lacnic.org