Regional Internet Registries
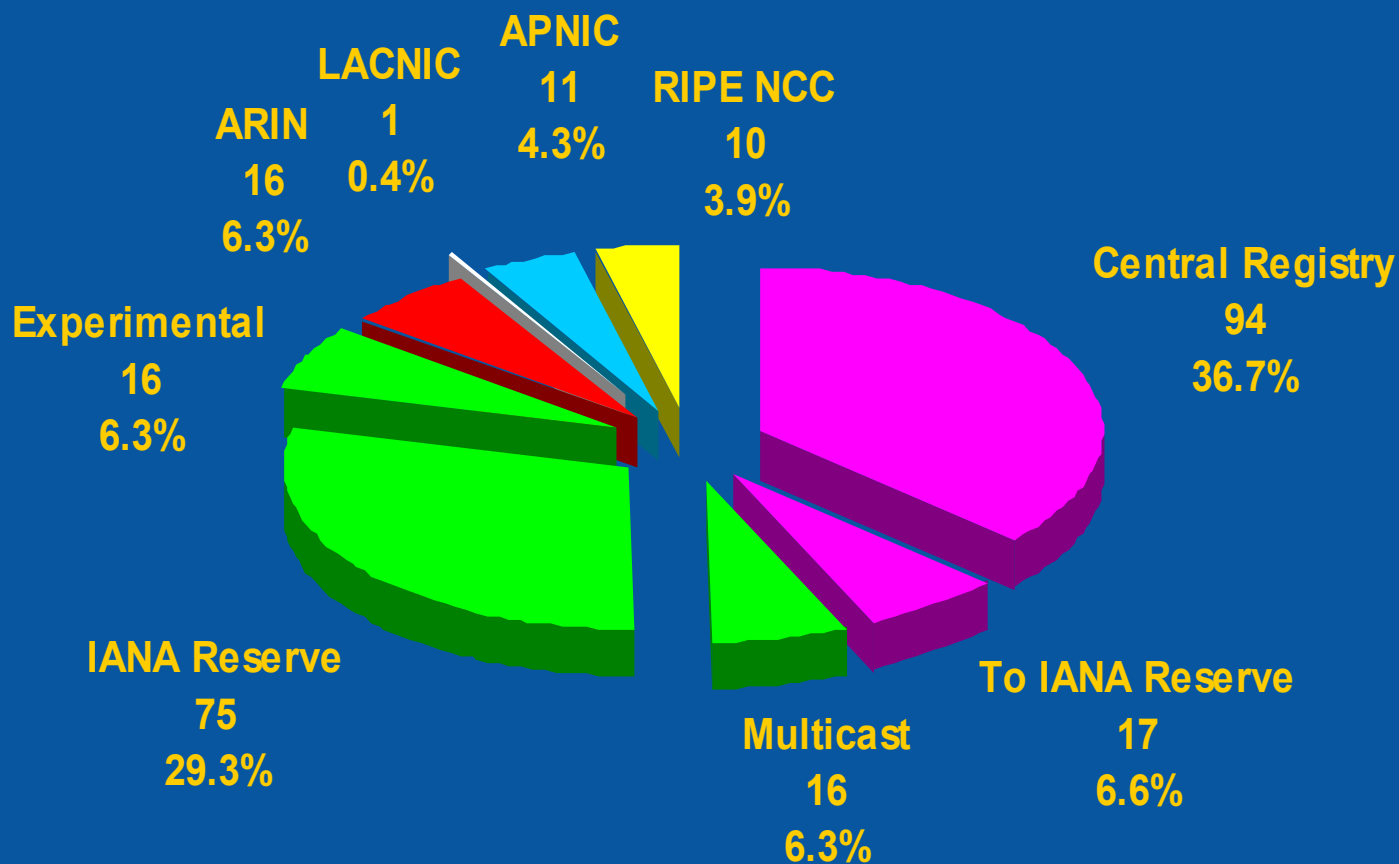
Statistics & Activities

Prepared By
APNIC, ARIN, LACNIC, RIPE NCC

Statistics

IPv4 /8 Address Space Status
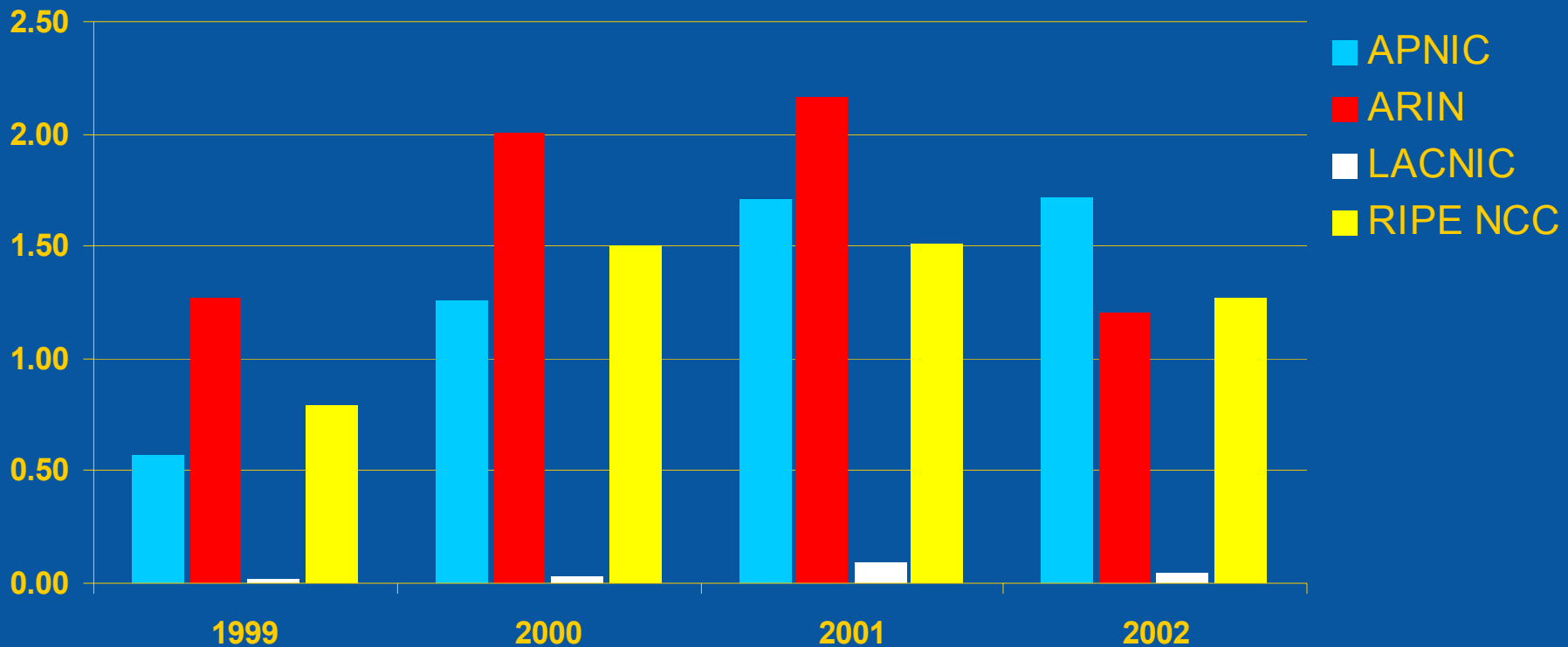
LACNIC
1
0.4%

APNIC
11
4.3%

RIPE NCC
10
3.9%

ARIN
16
6.3%

Experimental
16
6.3%

Central Registry
94
36.7%

IANA Reserve
75
29.3%

Multicast
16
6.3%

To IANA Reserve
17
6.6%
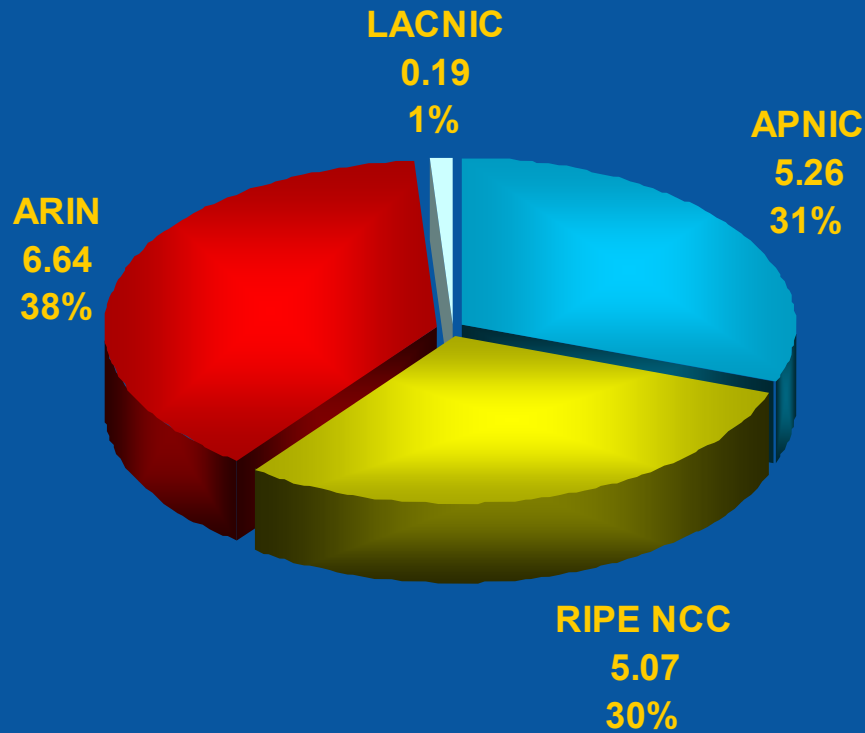
IPv4 Allocations from RIRs to LIRs/ISPs Yearly Comparison

IPv4 Allocations from RIRs to LIRs/ISPs
Four-Year Cumulative Total (1999 – 2002)

LACNIC
0.19
1%

APNIC
5.26
31%

ARIN
6.64
38%

RIPE NCC
5.07
30%

ASN Assignments from RIRs to LIRs/ISPs Yearly Comparison

ASN Assignments from RIRs to LIRs/ISPs Four-Year Cumulative Total (1999 – 2002)

LACNIC
471
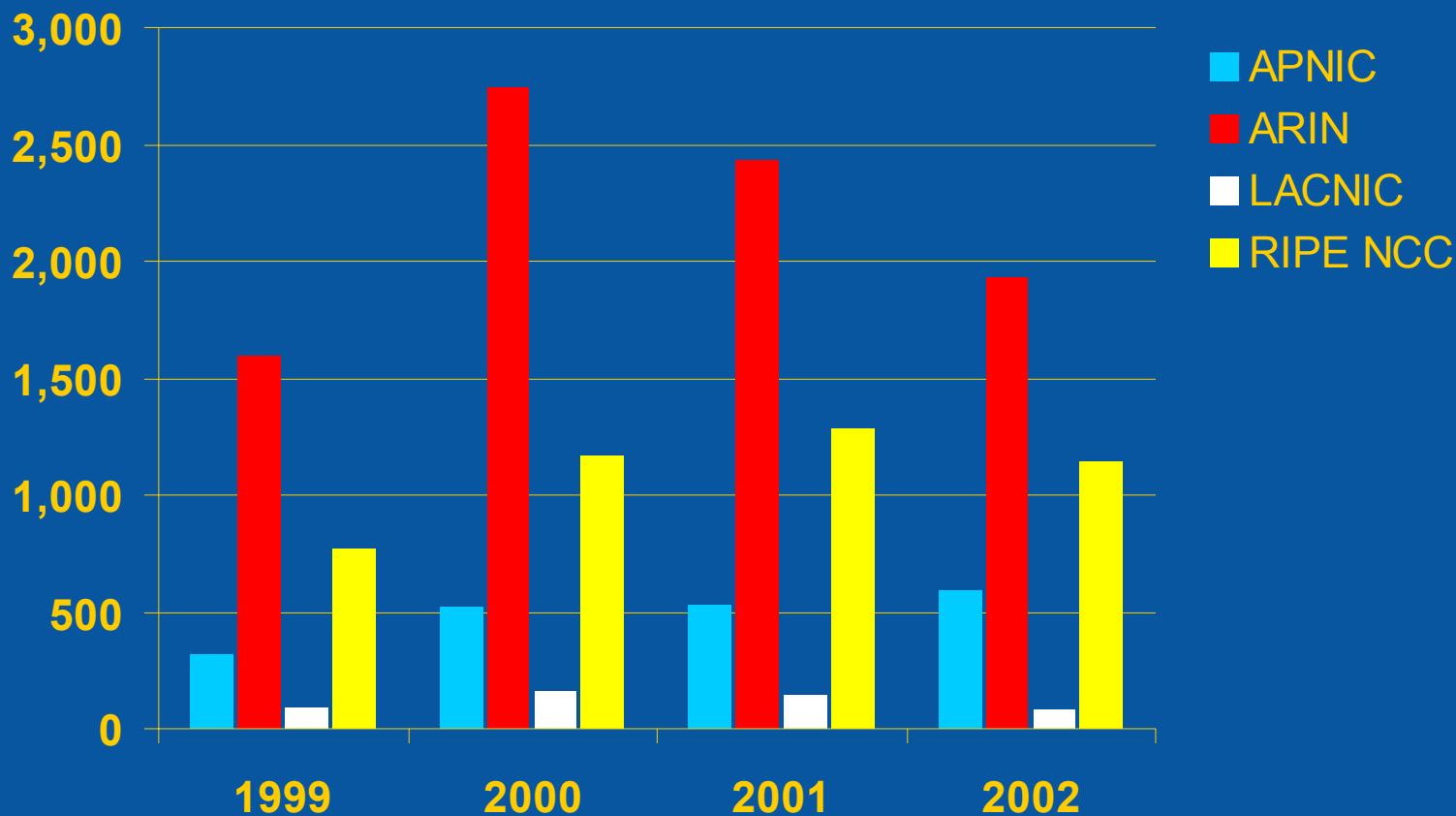3%

APNIC
1,968
13%

ARIN
8,702
56%

RIPE NCC
4,361
28%
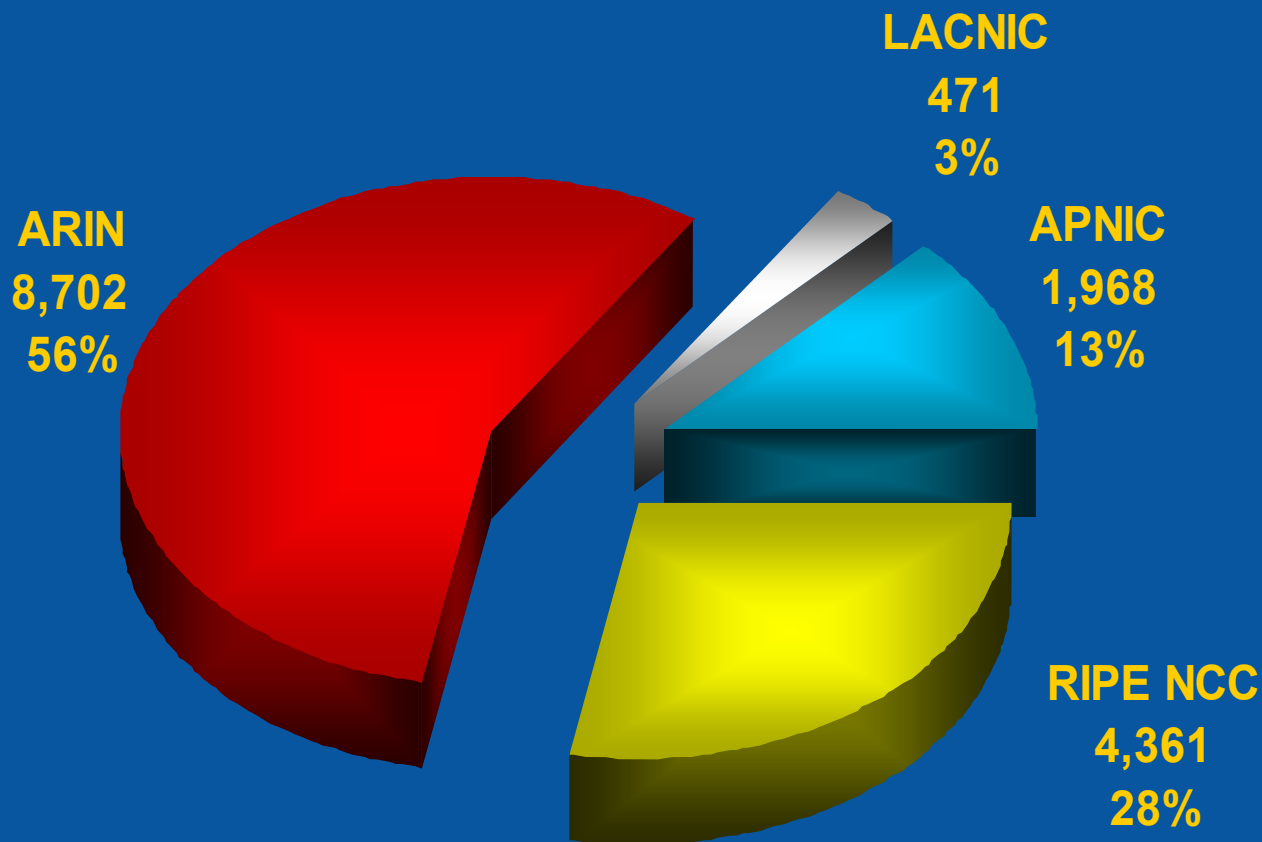
IPv6 Allocations from RIRs to LIRs/ISPs Yearly Comparison

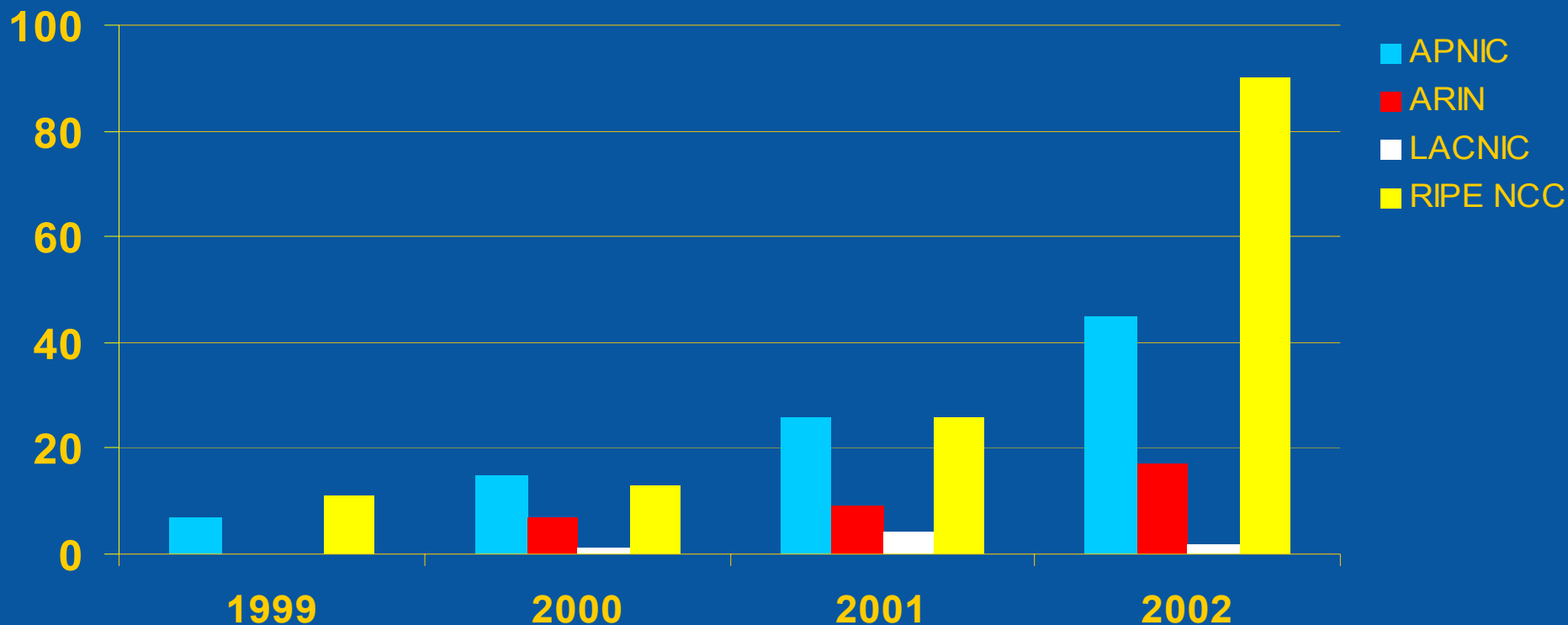# IPv6 Allocations from RIRs to LIRs/ISPs Four-Year Cumulative Total (1999 – 2002)

LACNIC
7
2.5%

APNIC
93
33.8%

ARIN
35
12.7%

RIPE NCC
140
50.9%
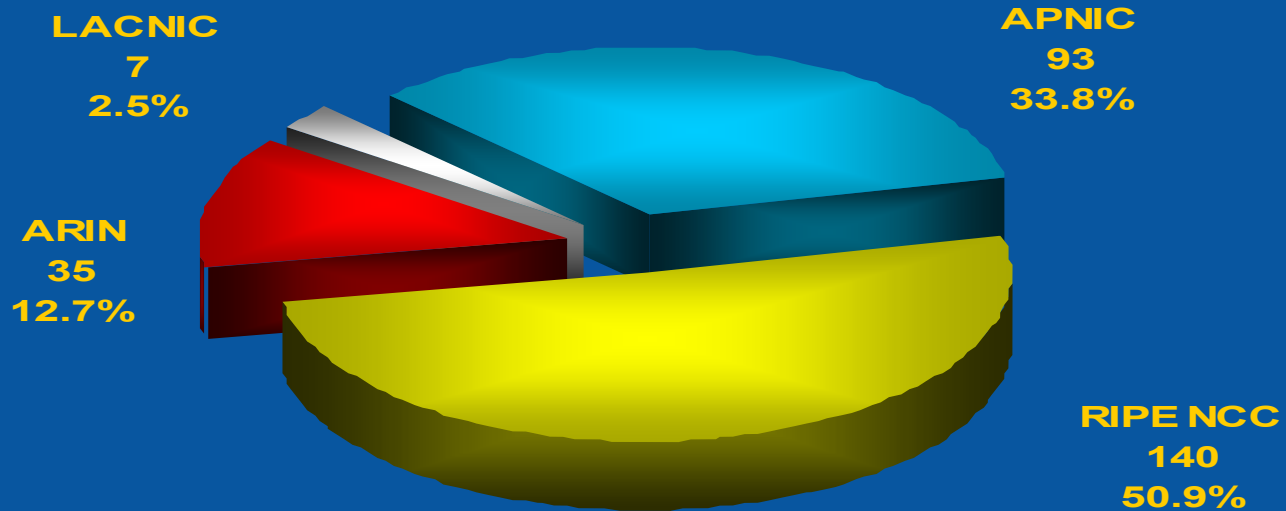
Total IPv6 Allocations from RIRs to LIRs/ISPs By Country
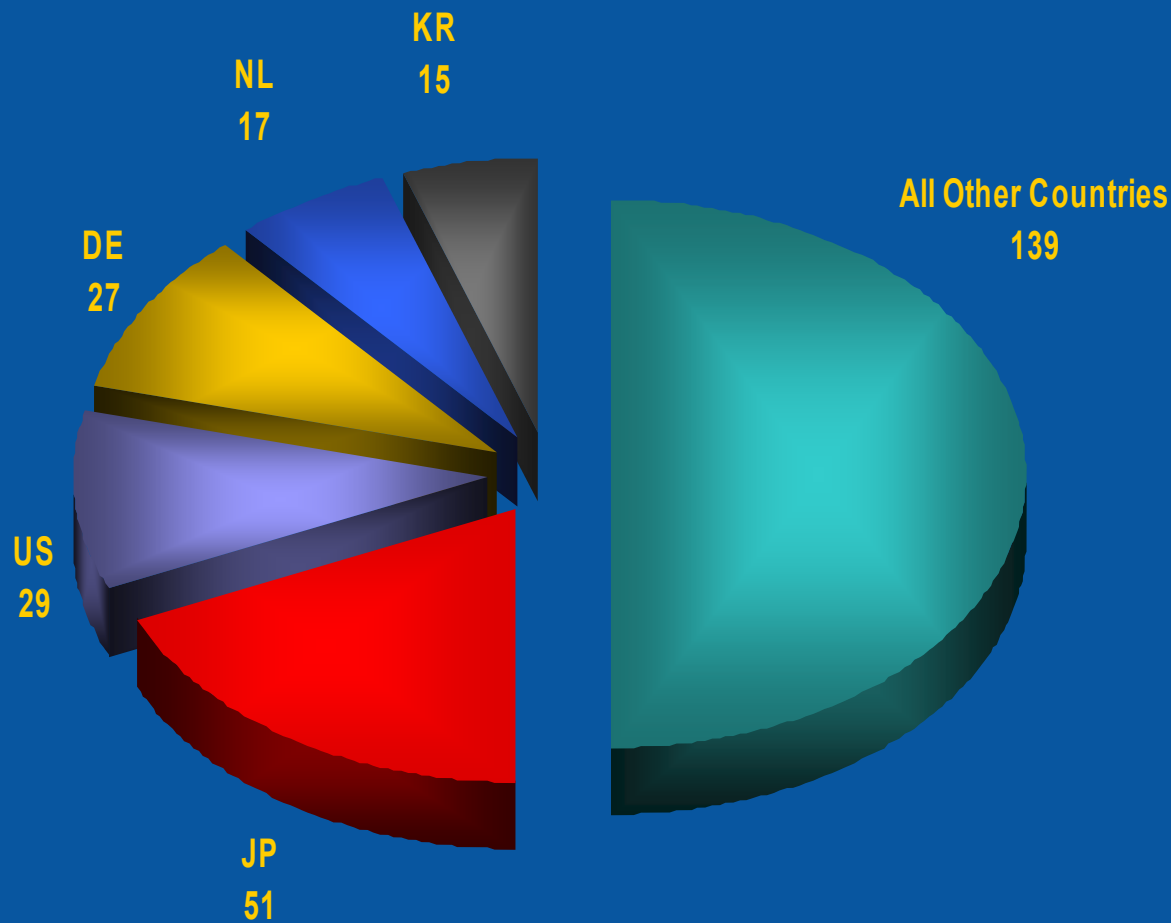
Links to RIR Statistics

Raw Data/Historical RIR Allocations:

http://www.aso.icann.org/rirs/stats/index.html

http://www.iana.org/assignments/ipv4-address-space

RIR Stats:

http://www.apnic.net/info/reports/index.html

http://www.arin.net/statistics/index.html

http://www.lacnic.net/IP-ASN-LACNIC-stat-en.pdf

http://www.ripe.net/ripencc/pub-services/stats

Joint Activities

Activities

ASO Support

- 2002 Secretariat - ARIN
- 2003 Secretariat - APNIC

Outreach

- AfriNIC
- IPv6 Forum

Coordination

- IPv6 Policy Revision
- ERX Project
- Staff Exchange
- ICANN

APNIC

Policy Developments at APNIC15 (1)

- Consensus decisions
  - Database SIG
    - 'whois' database cleanup

- Rough consensus: needs ML discussion
  - Address Policy SIG
    - APNIC policy and document review processes
      - Widen process to give increased opportunity for input using mailing lists before and after meeting
    - IPv6 'sparse allocation' address management
      - Based on RIPE-261
      - Some concerns about regional filtering

Policy Developments at APNIC15 (2)

- Rough consensus: needs ML discussion
  - DNS SIG
    - Sweeping lame delegations
- More ML discussion needed
  - Address policy SIG
    - An interim scheme for signing the DNS root
    - Delegation of 2.0.02.ip6.arpa
    - IPv6 policy in action – feedback
  - Database SIG
    - Requirements for running a local 'whois'
- Presentations & SIG reports available at
  - http://www.apnic.net/meetings/15/schedule/index.html
  - http://www.apnic.net/meetings/15/amm/index.html

APNIC Service Developments

- APNIC meetings
  - Purchased language translation equipment
  - Multicast of all meetings

- Hostmaster/Training
  - 'Train the trainer' for staff for DNS courses

- Technical
  - Distributed service architecture - POPs in major IXPs
    - HKIX presence now established
    - Call for 'EOI' for new sites made
  - Exploring native IPv6 transport
    - Host level IP is live for DNS
  - Anycast 'F'-rootserver deployed in HKIX

ARIN

Activities

- Implemented Lame Delegation Policy

- ERX

- RWhois Design Team

- Staff Exchange
    - Nov 2002 RIPE NCC Hostmasters
    - Feb 2003 APNIC Engineering

Immediate Plans

- Continue
  - Lame Delegation Cleanup
  - ERX
- Data Base
  - Continue RWhois Efforts
  - Integrate RWhois Research Efforts with CRISP
- Develop CA
- Produce "Using ARIN's Whois" CBT
- Staff Exchange
  - April APNIC Hostmaster
  - June LACNIC Member Services

The meeting is at the **Peabody Hotel**!

Don't Miss These Activities:
- **Policy Discussions**
- **Tutorials / Training**
- **IPv6 Mini Workshop**
- **Help Desk**
- **Learning Center**
- **4th Annual Foosball Tournament**
- **Social Event @ BB King's**

ARIN XI

April 6 - 9, 2003

Memphis, TN

Watch www.arin.net for Info

LACNIC

LACNIC Background

- became the fourth RIR in October 31st 2002:

  – resolution of ICANN Board in Shanghai Meeting.

  – http://www.icann.org/minutes/prelim-report-31oct02.htm#FinalApprovalofLACNIC

  – Confirmed through the IANA Report in November 7th 2002
  http://www.iana.org/reports/lacnic-report-07nov02.htm

  – incorporated as an independent, not-for-profit and open bottom-up membership organization.

- Legal establishment is in Montevideo, Uruguay.

- Headquarters in Montevideo, Registration Services are based in Sao Paulo, Brazil.

- LACNIC currently manage the next resources for its region :

  - IPv4   200/8, (84 % allocated)
  - IPv6   2001:1200::/23
  - ASN   27648 – 28671 and 26592 - 26623 . Total ASN - 1056

LACNIC POLICY ACTIVITIES

- LACNIC IV - April 23rd – 25th 2003, Santiago, Chile.

- **www.lacnic.net/en/lacnicIV.html**

- LACNIC IV includes the Open Policy Forum and Members Assembly

- Hosting the ASO General Assembly.

- 7 working groups working toward LACNIC IV. (proposals will be published on Apr. 4th).

  - DNS Lame delegation
  - Allocation of Internet resources for experimental use
  - Bulk Whois
  - IPv6 Microallocation
  - Microallocation for End User (Multihoming)
  - Allocation windows
  - NAP microallocations

- LACNIC used to work based on the ARIN's policies until LACNIC III.

- LACNIC's first complete policy document was approved during LACNIC III. November, 2002. http://lacnic.net/en/policies-m.html

RIPE NCC

RIPE Region Policy Update

- IPv4 Policy

  - Sub-Allocation Policy – accepted (Q2)

  - Portable address space Task Force established

- IPv6 policy

  - Discussion of revision to common policy begun

- LIR-WG name change

  - Clarification of where policy is developed

RIPE NCC Service Developments (1)

- Improved service level in 2002
  - Response time 2 days or fewer
  - Simplified documentation & change log
- LIR Portal (secure member access)
  - v.1 launch in Feb. 2003
  - View and update contact information
  - Mailing list subscription
  - Online services integrated with resource information
    - https://lirportal.ripe.net
- PKI – uniform secure communication
- Early Registration Transfer Project
  - 4 test /8s being transferred now
  - Close co-ordination between RIRs

RIPE NCC Service Developments (2)

- IPv6 Update
  - 175 IPv6 allocations in total
    - http://www.ripe.net/ipv6/ipv6allocs.html
  - TTM IPv6 ready
  - Whois accessible by IPv6
  - RPSLng prototype under development
  - ns.ripe.net accessible by IPv6
- New "Hostmaster Robot" for Q2 2003
  - Simpler forms
- NSD deployed on k-root – Feb. 2003
- MyAS prototype released
- Internet Incident reporting - "MS SQL Slammer"

THANK YOU

Prepared by APNIC, ARIN, LACNIC and RIPE NCC