APNIC

ARIN
American Registry for Internet Numbers

LACNIC

Ripe
NCC

Overview

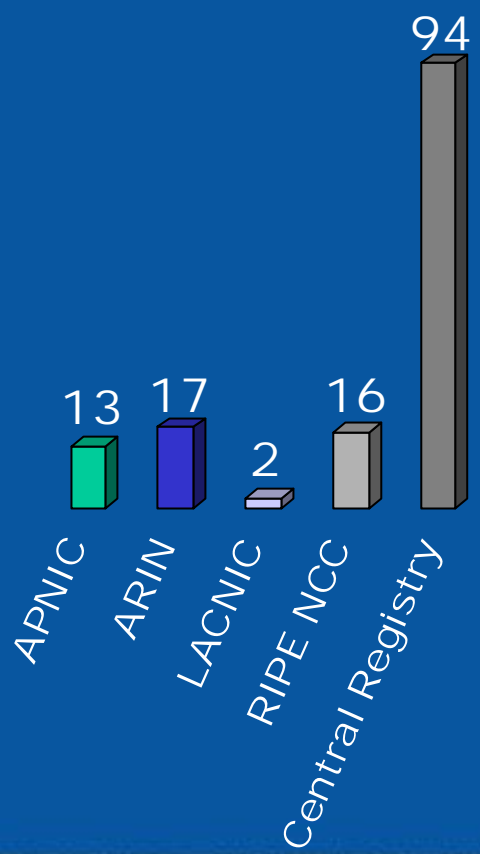- Internet Number Resource Status Report
- RIR Activities

INTERNET NUMBER RESOURCE
STATUS REPORT
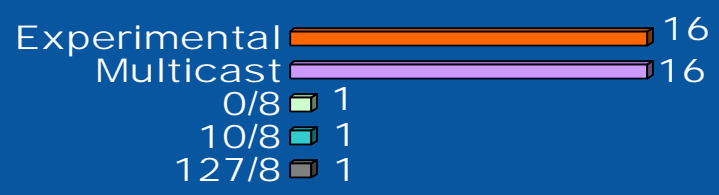
IPv4 /8 Address Space Status

(as of June 30, 2004)

Allocated Unicast

APNIC	ARIN	LACNIC	RIPE NCC	Central Registry
13	17	2	16	94

Available

IANA Reserve: 79

Not Available

Experimental: 16
Multicast: 16
0/8: 1
10/8: 1
127/8: 1
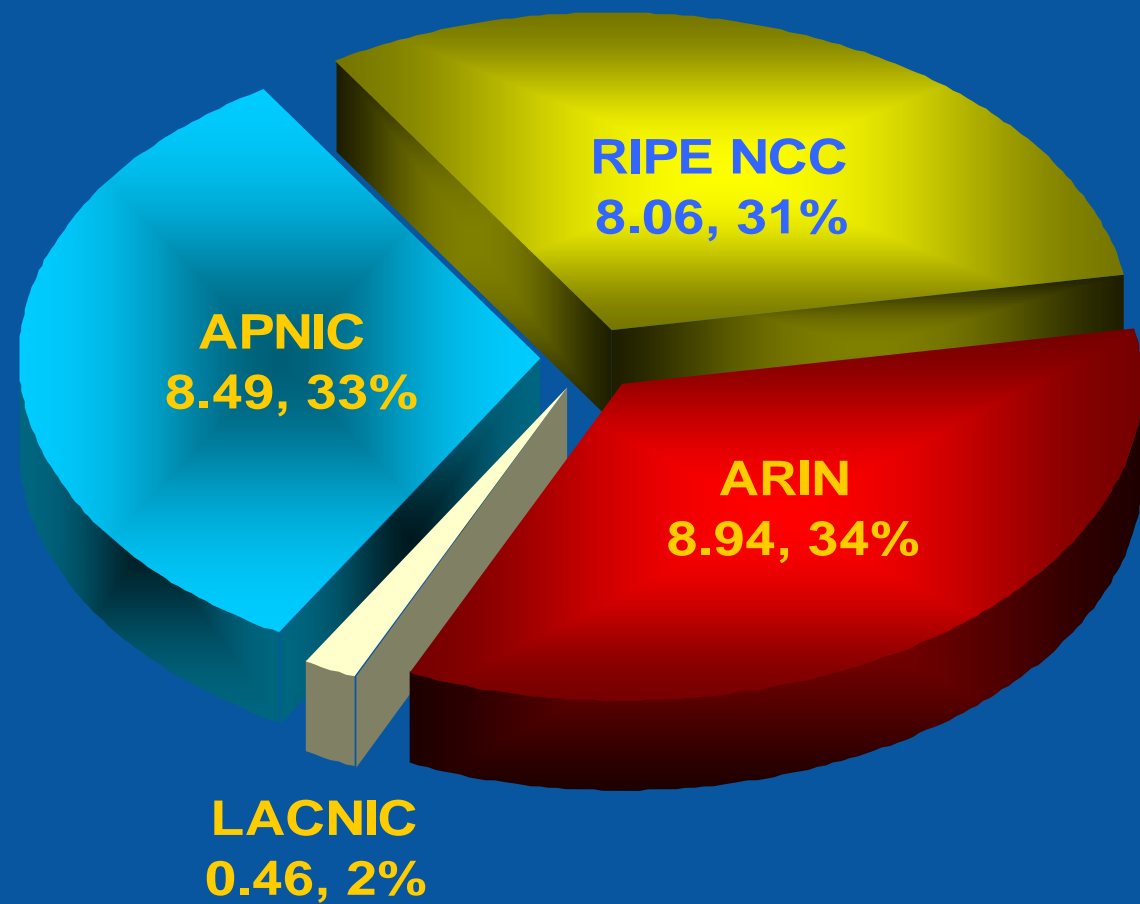
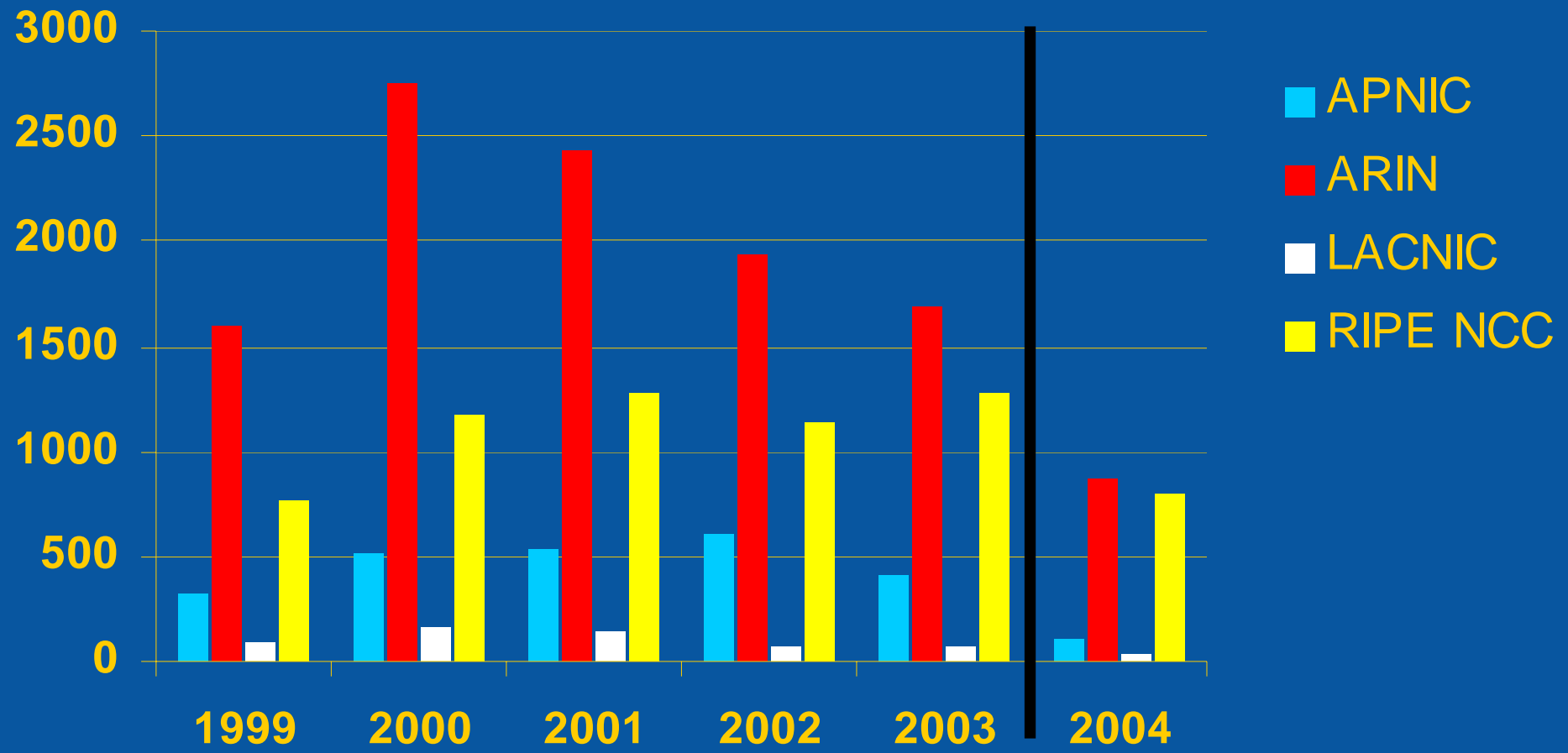# IPv4 Allocations from RIRs to LIRs/ISPs
Yearly Comparison

IPv4 Allocations from RIRs to LIRs/ISPs Cumulative Total (Jan 1999 – Jun 2004)

RIPE NCC
8.06, 31%

APNIC
8.49, 33%

ARIN
8.94, 34%

LACNIC
0.46, 2%
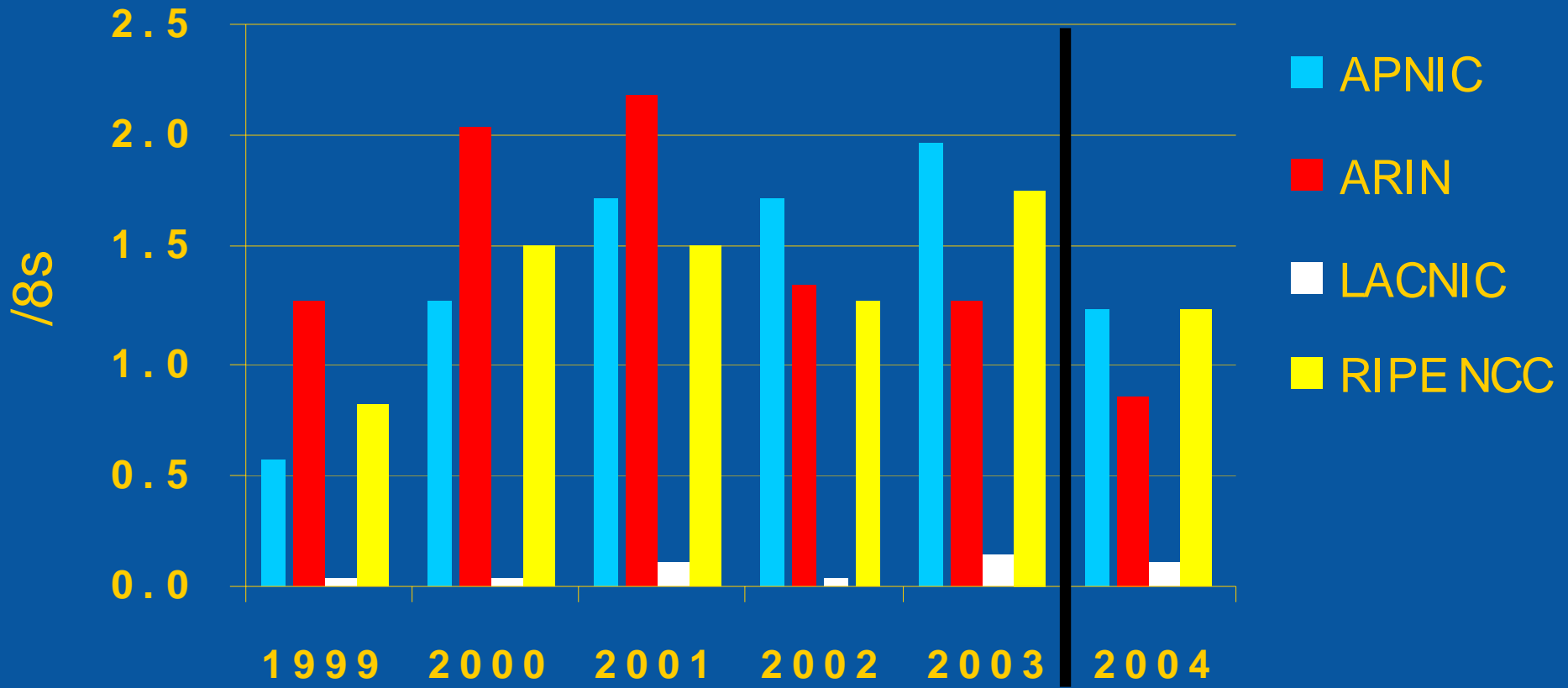
ASN Assignments from RIRs to LIRs/ISPs
Yearly Comparison

ASN Assignments from RIRs to LIRs/ISPs
Cumulative Total (Jan 1999 – Jun 2004)
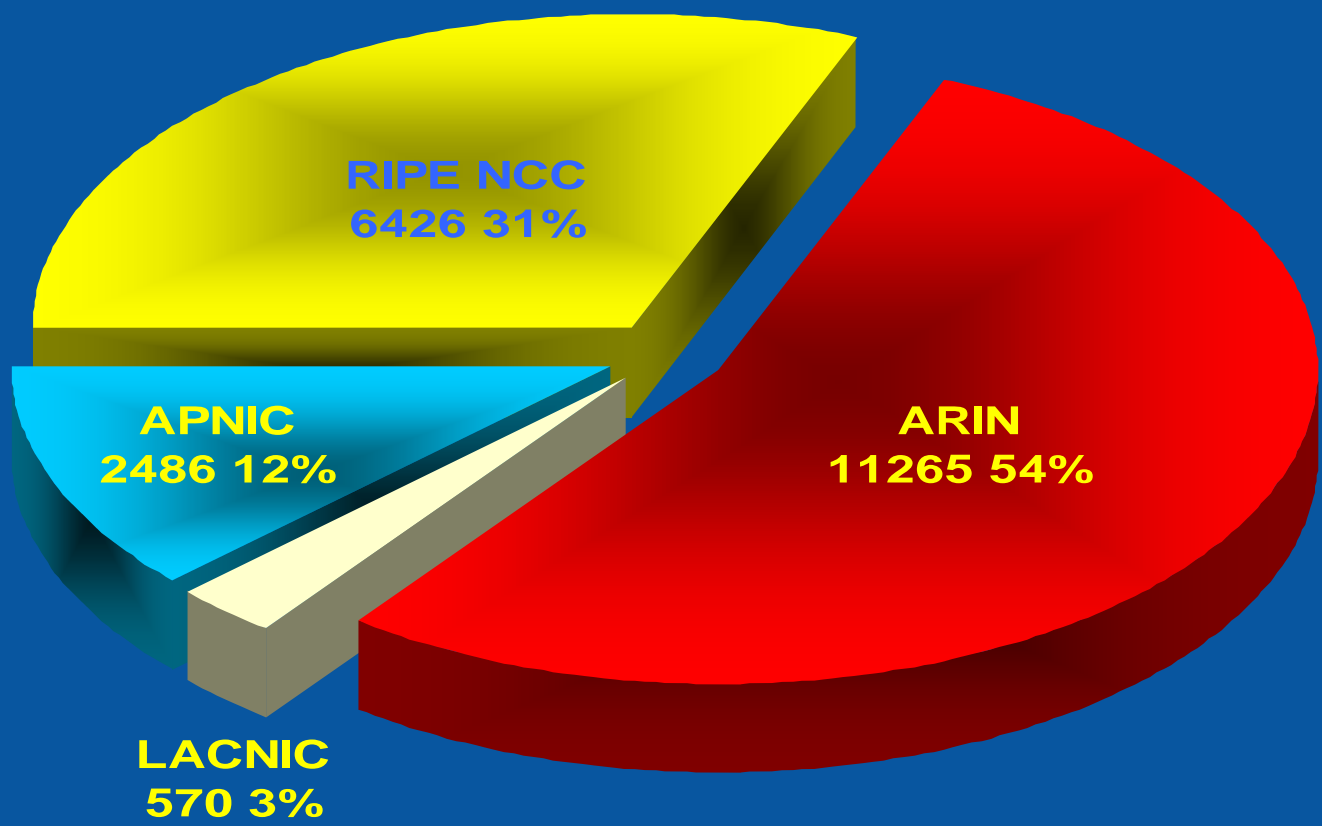
RIPE NCC
6426 31%

APNIC
2486 12%

LACNIC
570 3%

ARIN
11265 54%

IPv6 Allocations from RIRs to LIRs/ISPs Yearly Comparison

Legend:
- APNIC
- ARIN
- LACNIC
- RIPE NCC
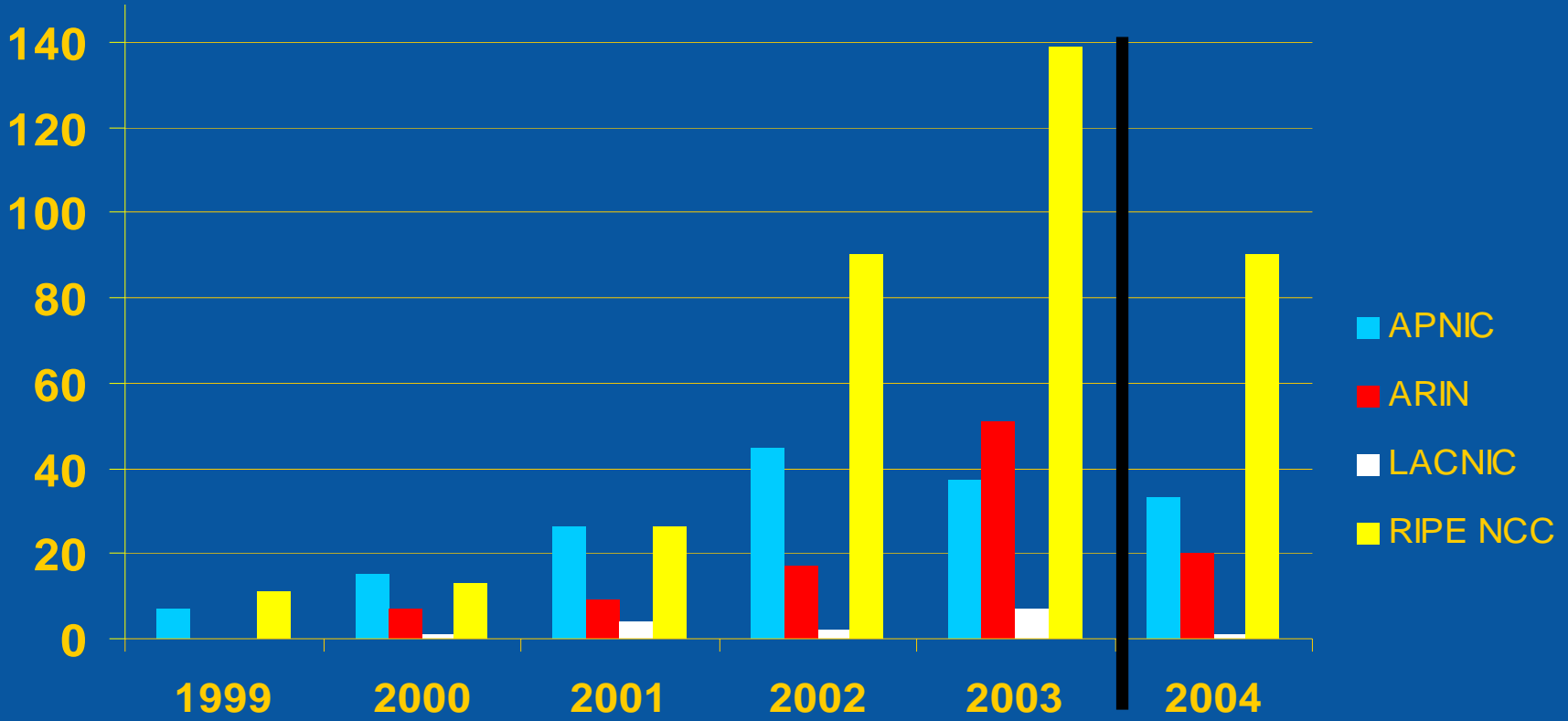
IPv6 Allocations from RIRs to LIRs/ISPs Cumulative Total (1999 – Jun 2004)

RIPE NCC
369, 56.7%

APNIC
163, 25.0%

ARIN
104, 16.0%

LACNIC
15, 2.3%
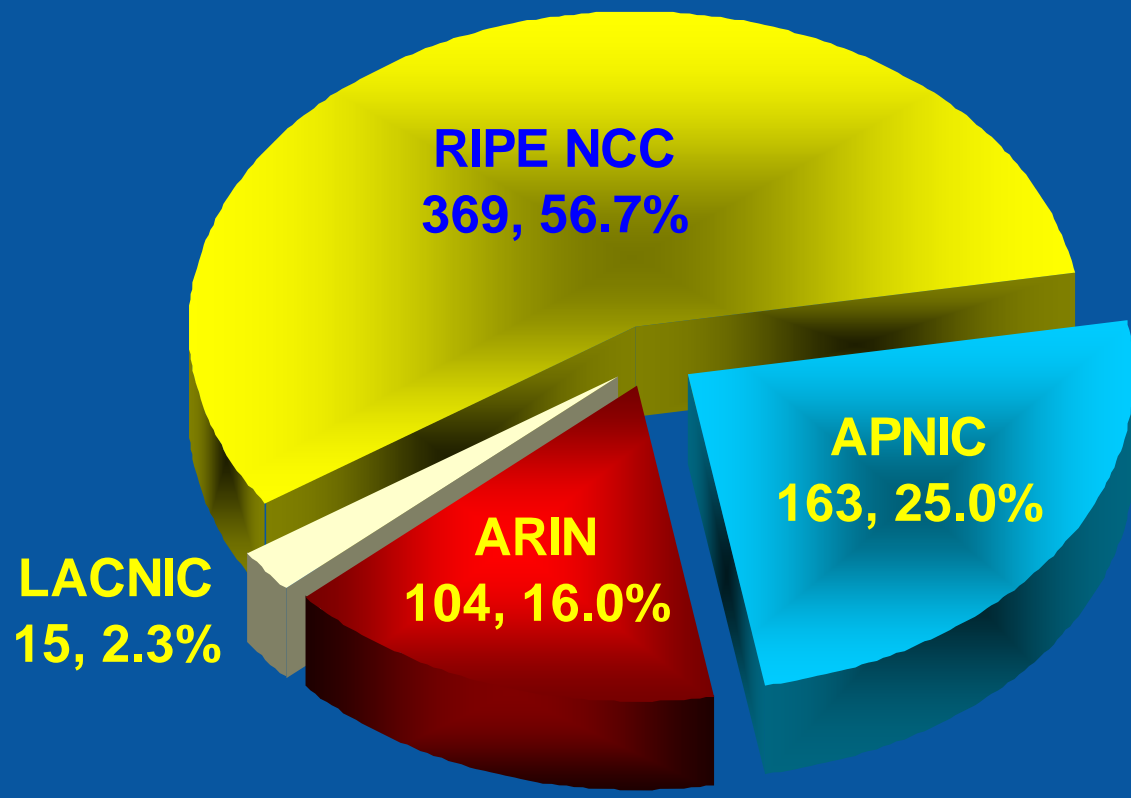
Total IPv6 Allocations from RIRs to LIRs/ISPs Top 10 Economies

Legend:
- Other (58 Economies)
- TW
- SE
- FR
- IT
- UK
- KR
- NL
- DE
- JP
- US

Economy	Allocations
Other (58 Economies)	243
TW	16
SE	19
FR	22
IT	22
UK	29
KR	29
NL	39
DE	62
JP	70
US	88

Axis: 0, 50, 100, 150, 200, 250, 300
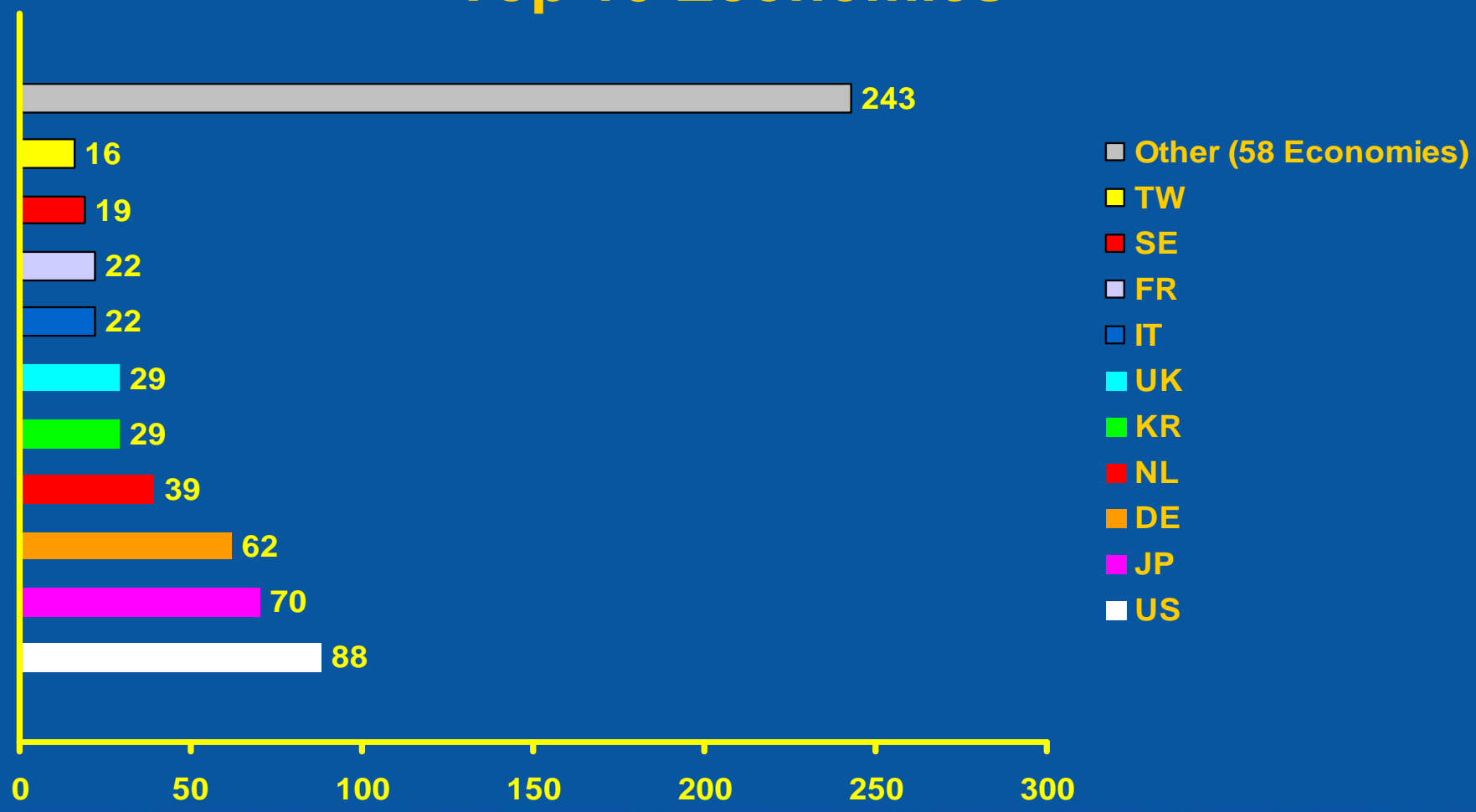
Links to RIR Statistics

Raw Data/Historical RIR Allocations:

http://www.aso.icann.org/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/en/est.html

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

RIR Activities

APNIC

Hostmaster & Technical Activities

- ## Member Services
  - Response time
    - One day turnaround for all requests
    - Account management for more personal service
    - Extended helpdesk operating hours
- ## Technical
  - More root deployments supported in region
    - TH (I root) deployed since last IEPG
    - MY (I root) Proceeding
    - ID (F root) in acceptance testing
    - AU (K root) waiting delivery
      - others progressing
  - Test implementation of 2.0.0.2.ip6.arpa delegation engine (delegation from IANA in progress)

Status of policy implementations

- Aug
  - prop-014-v001 New minimum allocation size /21 and changed initial allocation criteria
    - /23 immediately, /22 in one years time
  - prop-016-v001 IPv6 allocations to IPv4 networks
- Sep
  - prop-007-v001 Privacy of customer assignment records
  - prop-004-v001 Lame delegation cleanup
- Dec
  - prop-017-v001 Recovery of unused address space
  - prop-018-v001 Protecting historical records in APNIC Whois database
- Further information
  - http://www.apnic.net/docs/policy/proposals/

Next APNIC meeting – all welcome

18th

APNIC Open Policy Meeting

31 August - 3 September 2004   Nadi - FIJI

- *Fellowship programme available*
- Participate in policy development
- Attend workshops, tutorials & presentations
- Exchange knowledge and information with peers
- Stay abreast with developments in the Internet
- View webcast and transcripts online
- Provide your input in matters important to You

http://www.apnic.net/meetings/

ARIN

Activities

- IPv6 Services
- Cryptographic Authentication Established
- Directory Service Improvements

New Policies

2002-3:   Multi-homed Networks

Multi-homed entities may obtain a /22 from ARIN

2003-3:   Residential Customer Privacy

2003-15:   Africa Portion of ARIN Region

Minimum allocation/assignment size reduced to /22

Policy Manual Project

- Purpose
  - Enumerate all policies into single manual
  - Eliminate reference difficulties
  - Protect integrity of policy documentation
- Review and Publication
  - Advisory Council
  - Board of Trustees
  - 2004 publication

Next ARIN Meeting

Third Joint Meeting with NANOG

NANOG: Oct. 17 – 19
ARIN: Oct. 20 – 22

Reston, Virginia

LACNIC

LACNIC Policy Recent Policy Adopted

- Experimental Allocation Policy

- Microallocation for Multihomed End Users

- IPv6 initial allocation for LACNIC Region

- Policy Development process established

- Lame Delegation Policy to be implemented

LACNIC Activities in region

- Deployment of FRIDA Project. Smalls grants for Investigation projects in LAC region. Funds of 450,000 USD. 12 projects selected for summons 2004.

- +Raíces Project - Agreement signed for the deployment of 7 anycast copies of the F root server in LACNIC region.

- Secretariat for IPv6 Activities in LAC Region:

  - Latin America and Caribbean Task Force. **LAC IPv6 TF** (created during LACNIC VI)
  - Latin America IPv6 Forum. **FLIP-6**

LACNIC VII

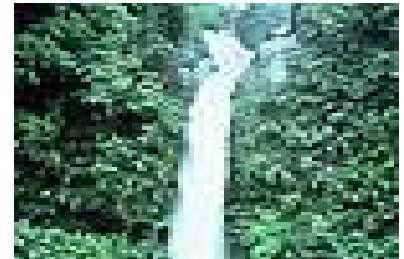October 26th – 29th 2004
San José, Costa Rica
http://lacnic.net/en/lacnicVII.html
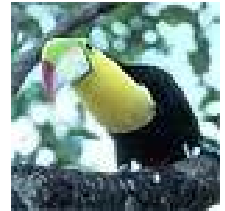
Tutorials (IPv6, Security)
IPv6 Latin American Forum (FLIP-6)
IPv6 LAC Task Force
Open Policy Forum
SPAM Round Table

RIPE NCC

Registration Services

- Service Interface Improvements
  - Documentation
  - LIR-Portal
  - Wizards & Forms

- Large IPv6 Allocations
  - May become more common
  - Reverse delegation

- de-bogonising new address space
  - Filtering problems could be solved in advance
  - Experiment with new 84/8, testing 85/8 … 88/8
  - Identified large number of sites filtering

Engineering

- **Reverse DNS management**
  - automated and streamlined

- **dnsmon to be moved into production service**
  - crucial parts of the DNS infrastructure

- **K-root server anycast deployment**
  - 2 global + 3 local nodes deployed
  - plan for additional 6 local and 3 global nodes

- **Database features**
  - X.509 authentication support
  - organisation object type

Co-ordination and Outreach

- Regional meetings
  - Dubai, December 2003
  - Moscow, June 2004
  - Nairobi, July 2004

- Coordination between RIRs
  - Address Hijacking
  - AFRINIC transition

Please Participate

- http://www.apnic.net

- http://www.arin.net

- http://www.lacnic.net

- http://www.ripe.net

THANK YOU