



APNIC



# Regional Internet Registries

Statistics

&

Activities



IEPG @ IETF 57  
Wien



Prepared By  
APNIC, ARIN, LACNIC, RIPE NCC

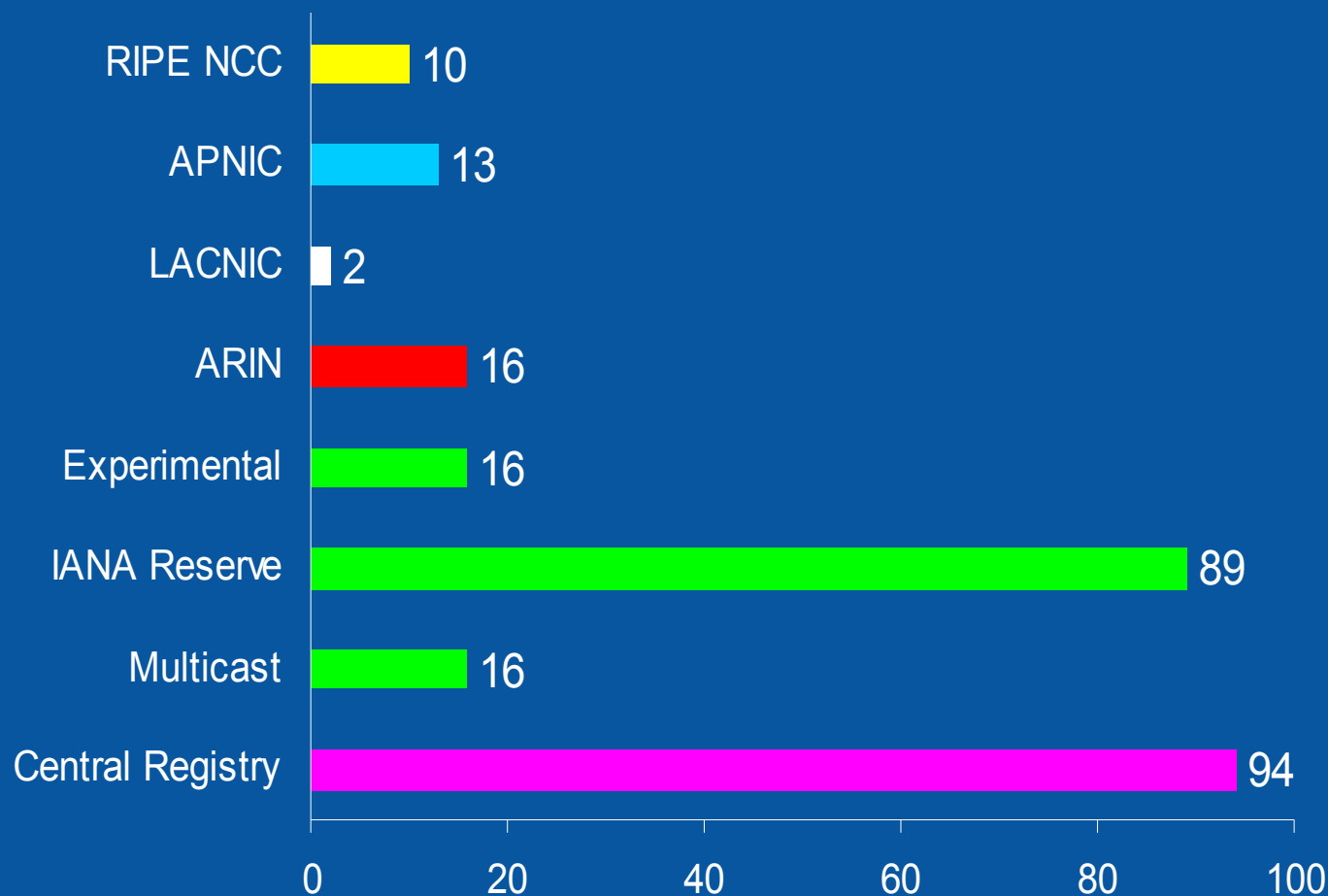
# Overview

- Internet Number Resource Status Report
- RIR Activities
  - Joint
  - APNIC
  - ARIN
  - LACNIC
  - RIPE NCC

# Internet Number Resource Status Report



# IPv4 /8 Address Space Status

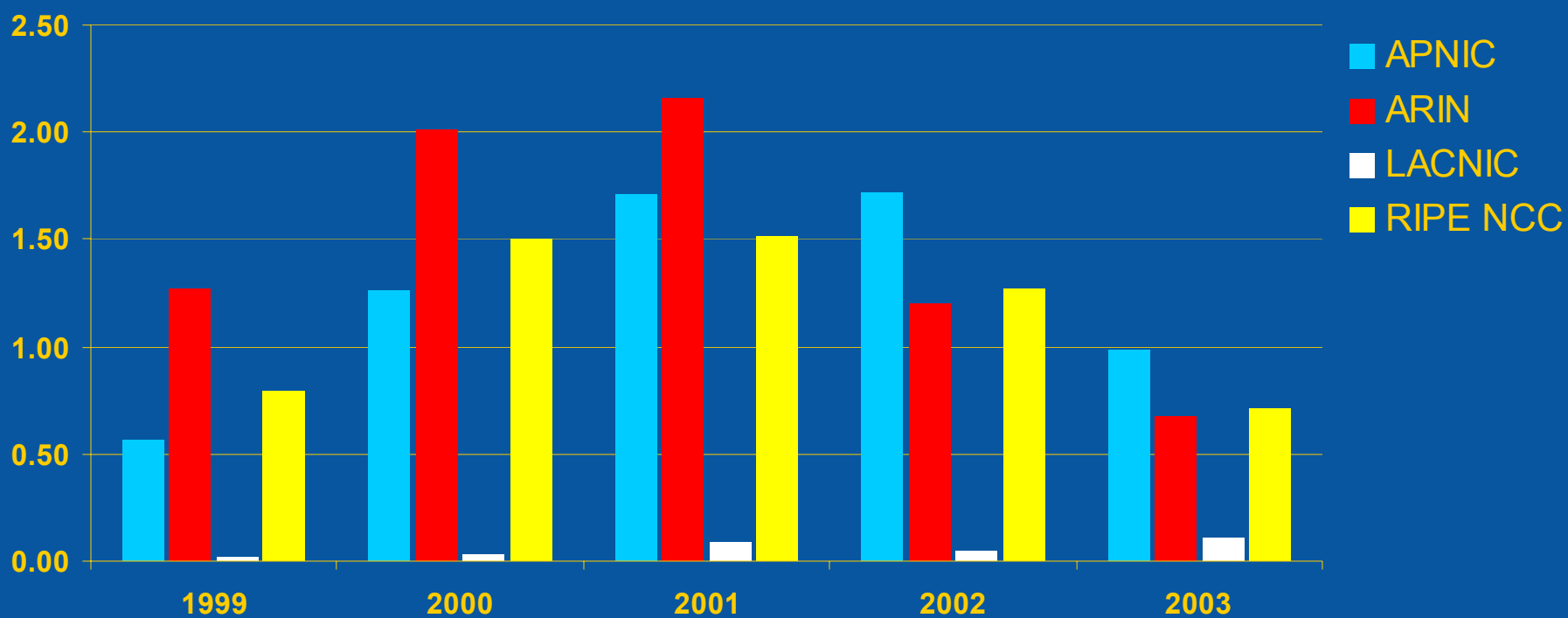




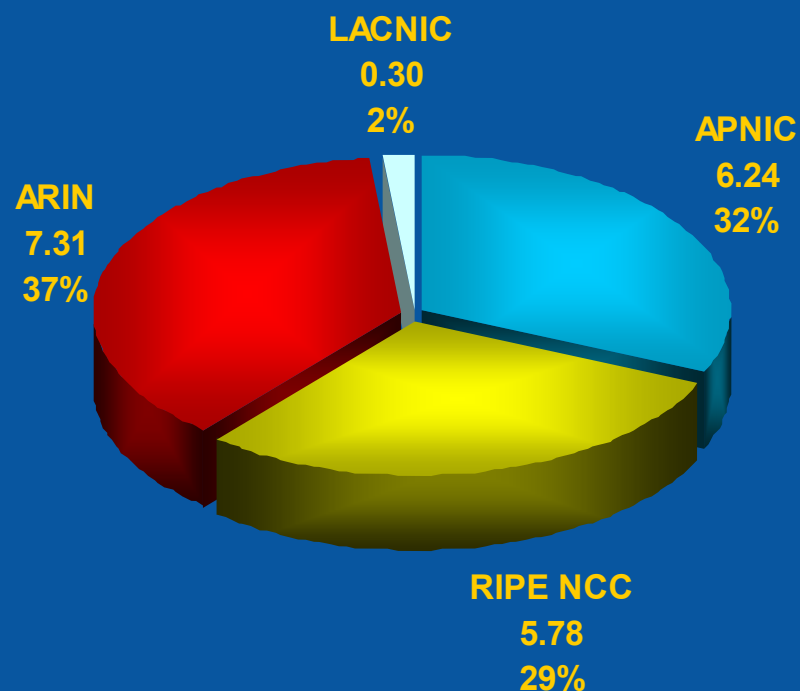
# IPv4 Allocations from RIRs to LIRs/ISPs

## Yearly Comparison

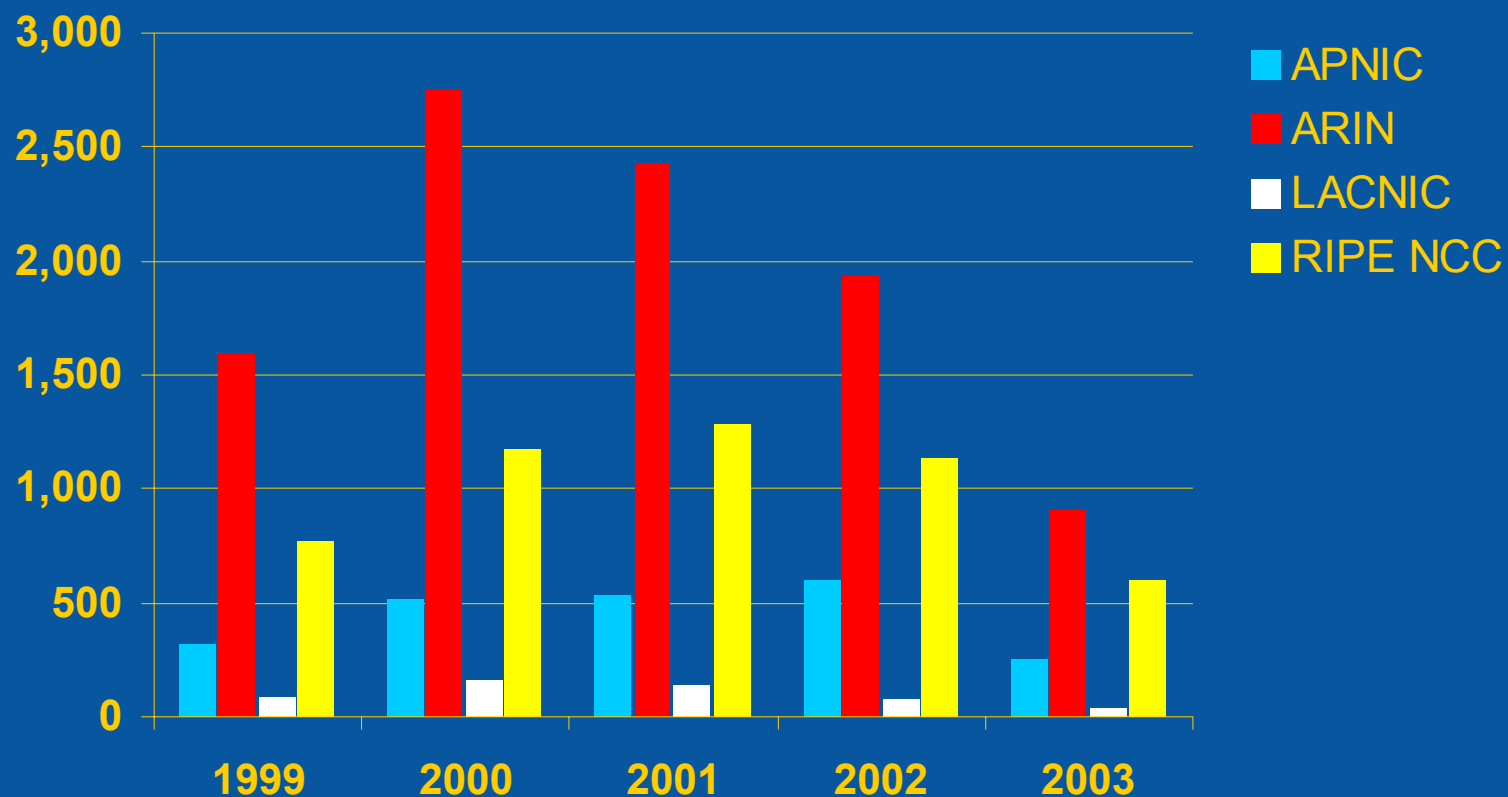
### As Of 30 June 2003



## IPv4 Allocations from RIRs to LIRs/ISPs Cumulative Total (1 January 1999 – 30 June 2003)

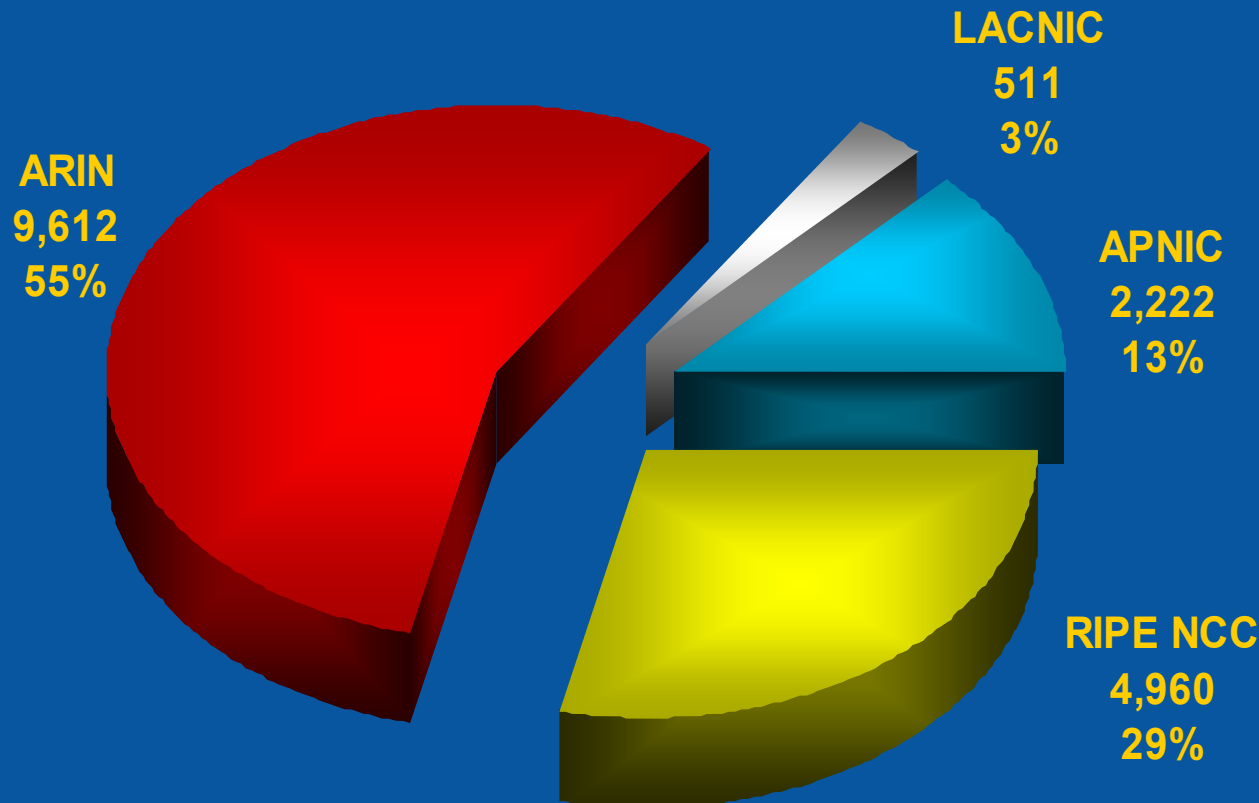


# ASN Assignments from RIRs to LIRs/ISPs Yearly Comparison As Of 30 June 2003

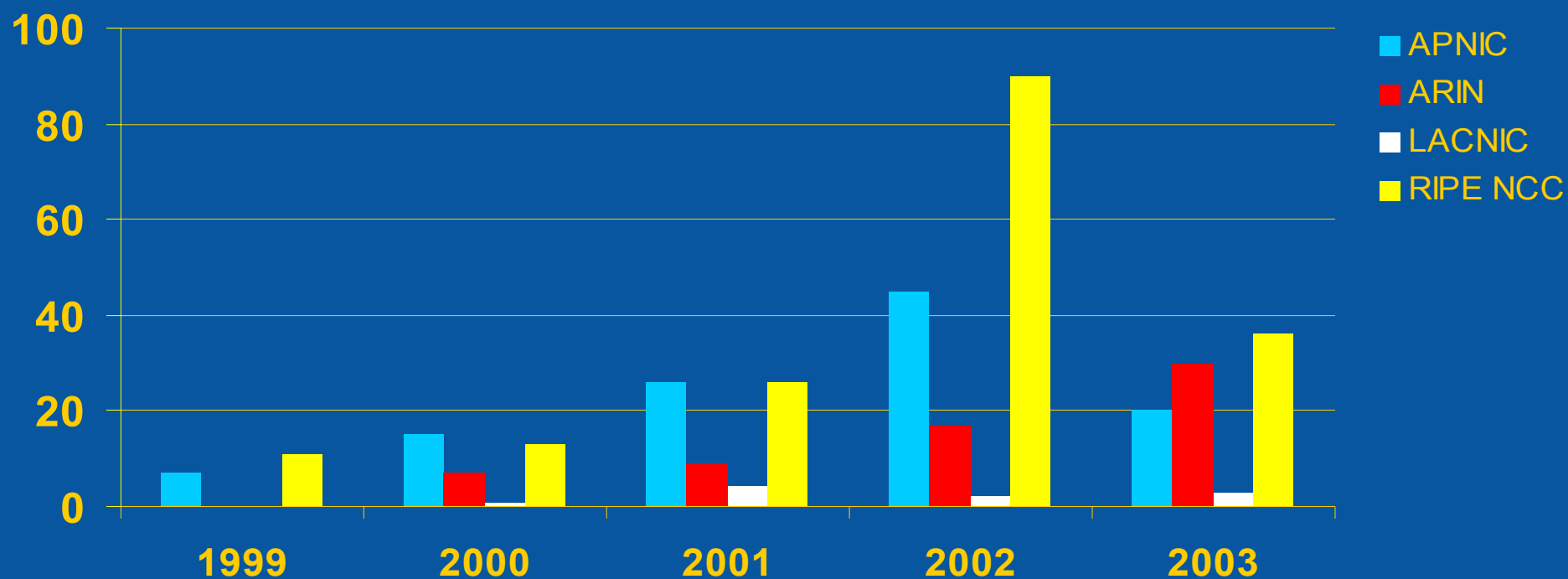




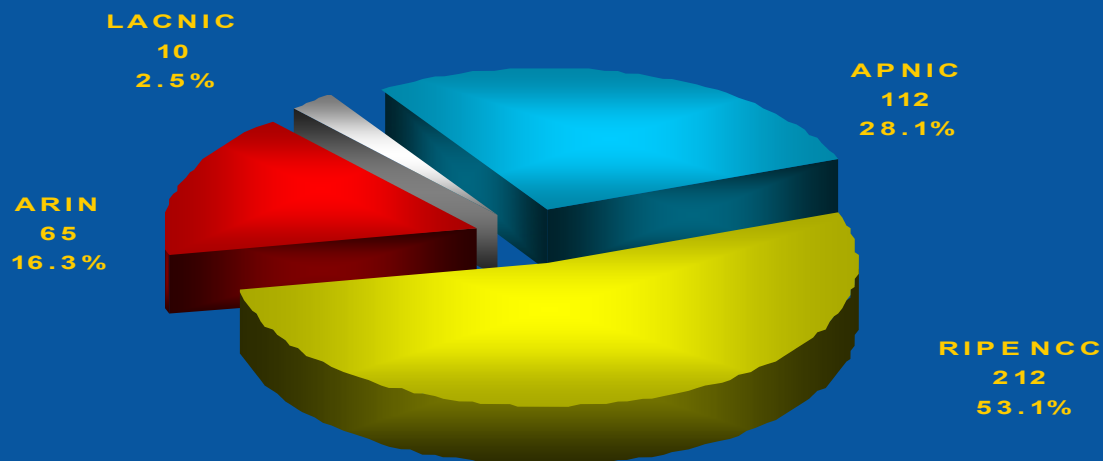
## ASN Assignments from RIRs to LIRs/ISPs Cumulative Total (1 January 1999 – 30 June 2003)



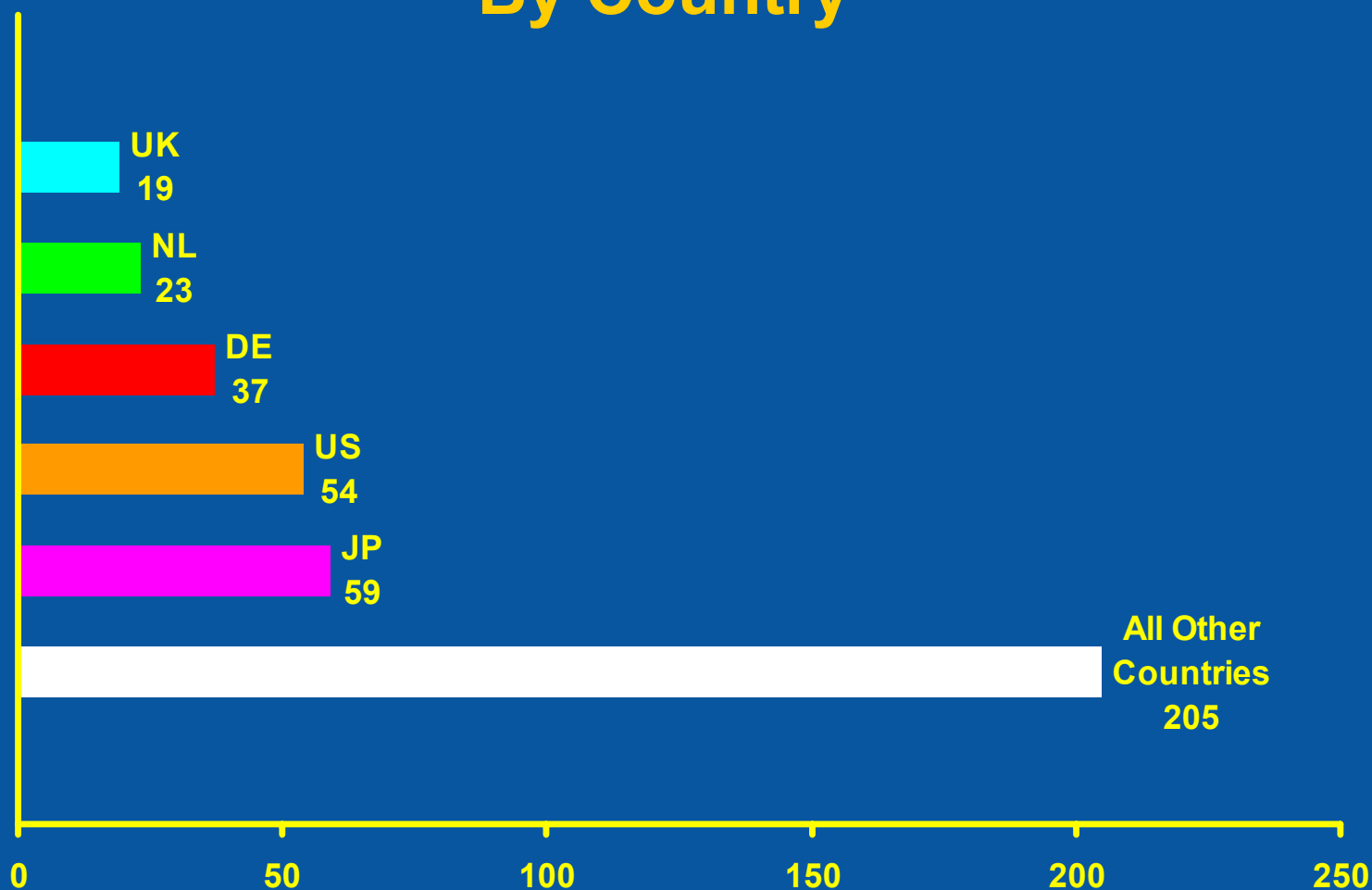
# IPv6 Allocations from RIRs to LIRs/ISPs Yearly Comparison



## IPv6 Allocations from RIRs to LIRs/ISPs Cumulative Total (1 January 1999 – 30 June 2003)



## 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/en/est.html>

<http://www.ripe.net/ripenncc/pub-services/stats>

# Joint Activities



**ASO  
Support**

- 2003 Secretariat - APNIC

**Activities**

**Outreach**

- Emerging RIR Workshop

**Coordination**

- Eng-Coord Meeting
- IPv6 Policy
- ERX Project
- Staff Exchange
- RIR / ICANN MoU

# APNIC





# Policy Developments

- Approved at APNIC 15
  - Database cleanup
  - DNS lame delegation cleanup
  - Requirements for local “whois” servers
- More work needed
  - Policy process improvements
  - IPv6 sparse allocation (RIPE 261)
  - Signing the root
  - Delegation of 2.0.0.2.ip6.arpa
  - IPv6 policy review/feedback
- See: <http://www.apnic.net/meetings/15>

# Service Developments

- Database
  - RIPE 3.1.1 with local policy mods
  - Rate limiting
  - Data cleanup implementation
  - Early Registration Transfer (ERX)
- IPv6
  - Website, ftp, email, whois (via web) enabled
  - DNS in JP and AU now listed in IPv6
- F-root
  - HK upgraded and operational
  - KR and CN due in August

# Service Developments

- MyAPNIC
  - whois object management
- CA
  - Certificate life-cycle management
- Coming soon...
  - New internal registry systems
  - New statistics publication
  - Complete RIR database mirroring
  - DNSSEC?

# Coming soon... APNIC 16



16th

APNIC Open Policy Meeting  
19 - 22 August 2003 Seoul - Korea



Seoul, Korea - 19 to 22 August 2003

with interpretation, multicast, real-time reporting

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

*All welcome!*



# ARIN



# Activities

- \* Lame Delegation Project
- \* ERX
- \* Hijacking
- \* CRISP

# Policy Proposals

2003- 1: Required Performance of Abuse Contact	Deferred
2003- 2: Network Abuse	Deferred
2003- 3: Residential Customer Privacy	Deferred
2003- 4: IPv6 Policy Changes	Deferred
2003- 5: RWhois Server Use Requirements	Last Call
2003- 6: Micro-Assignments with Sponsorship	Rejected
2003- 7: Announcement of New ARIN IPv4 Blocks	Rejected
2003- 8: End-User to Subscriber Member Status Change	Rejected
2003- 9: WHOIS Acceptable Use	Deferred
2002- 2: Experimental Internet Resource Allocations	Deferred
2002- 3: Micro-Assignments for Multihomed Networks	Deferred
2002- 5: Amnesty Requests	Last Call
2002- 6: Aggregation Requests	Last Call



**29**

**Sunday, Oct. 19 –  
Tuesday, Oct. 21**

**XII**

**Wednesday, Oct. 22-  
Friday, Oct. 24**

**CHICAGO!!**



# LACNIC







# LACNIC General Information

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- Became the fourth RIR in October 31st 2002: *www.lacnic.net*
- Completely integrated and involved in all the RIR's activities.
- Engineer Projects
  - Full IPv6 support in the system and IPv6 transport for all the services.
  - Improving the systems
    - Automated Invoicing System
    - New PoC in the entity object (Billing and Membership)
    - New features to analyze statistic information to be launched in August. (Datawarehousing)
    - Client Accounting System
    - Customization of ARIN's voting system with some new Add-on (to be used this year in the election).
  - Proactive in Reverse Delegation Lane.



# LACNIC POLICY ACTIVITIES

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**LACNIC IV** - April 23rd – 25th 2003, Santiago, Chile - [www.lacnic.net/en/lacnicIV.html](http://www.lacnic.net/en/lacnicIV.html)

**Policies approved:**

IPv6 Microallocations (*Implemented*)

Microallocation for End Users multihomed. (*Implemented*)

Bulk Whois. (*Not implemented yet*)

**Policies under discussion toward LACNIC V**

DNS Lame delegation

Allocation of Internet resources for experimental use

Allocation windows

IPv6 revision.

Rwhois

**LACNIC's Policies** - <http://lacnic.net/en/policies.html>

**LACNIC's Policies Status** - <http://lacnic.net/en/des-pol.html>

**LACNIC Policy Development Process** - Currently under discussion. There is a draft to discuss and the discussion will continue in LACNIC V. <http://lacnic.net/en/d-pol.html>

# LACNIC V



**La Habana, Cuba**  
Nov. 19-20, 2003  
Hotel Nacional



Enjoy the most famous Cuban show in the  
LACNIC V social event!!  
**TROPICANA**



# 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

- Service level stable
  - < 2 days response time
  - Reducing Request Fulfilment Time
- LIR Portal
  - Major contributor to service level stability
  - Good uptake by members
  - Very positive comments about functionality
  - X.509 certificates integration
- PKI
  - Discussion of role of X.509 certificates
  - Integration into existing services



# RIPE

## Organisational Update

- EOF revived at RIPE 45
  - Good success
  - More operational presentations requested to...  
[dfk@ripe.net](mailto:dfk@ripe.net)
- Working Groups
  - LIR WG became Address Policy WG
  - RIPE NCC Services WG introduced
    - Chair: Kurt Erik Lindqvist, [kurtis@kurtis.pp.se](mailto:kurtis@kurtis.pp.se)
  - DNR and DNS WGs merged
- Webcasting proved popular
  - Will be continued



# RIPE NCC

## Future Plans

- General Meeting 2003
  - To increase participation, adjacent to RIPE 46
  - 5 September 2003, announcements 25 July
- Focus on Membership
  - Regional membership meetings
  - Tie-in with regional government relations
- Information Services
  - Integration of Active Measurements, Incident Reporting, RIS, ...
  - Presentations for various target groups

Thank You

