



APNIC



# Regional Internet Registries

Statistics

&

Activities



**IEPG @ IETF 58  
Minneapolis**



**Prepared By  
APNIC, ARIN, LACNIC, RIPE NCC**

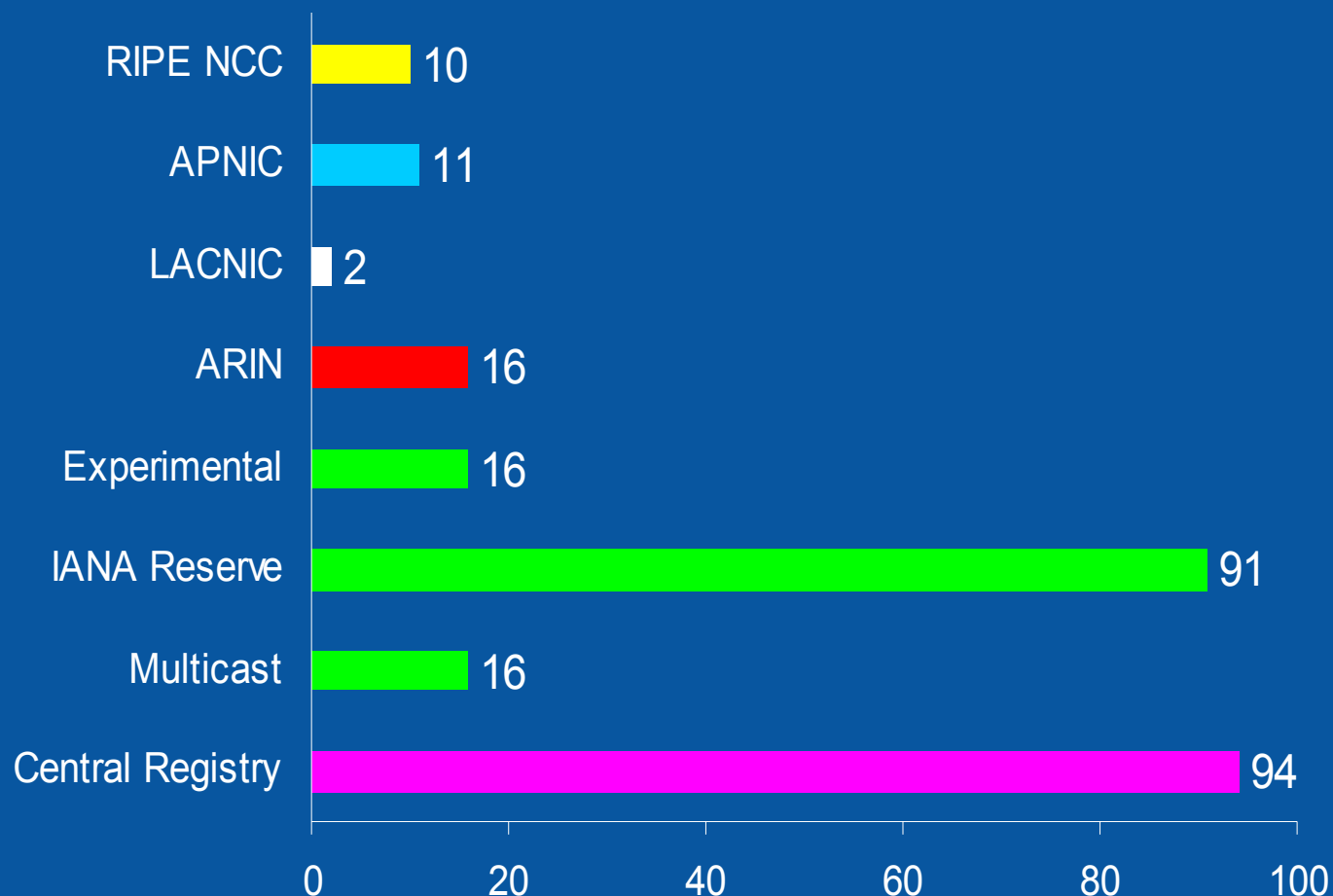
## Overview

- Internet Number Resource Status Report
- RIR Activities
  - Joint
  - Number Resource Organization [NRO]
  - APNIC
  - ARIN
  - LACNIC
  - RIPE NCC
  - Emerging AfriNIC

# Internet Number Resource Status Report



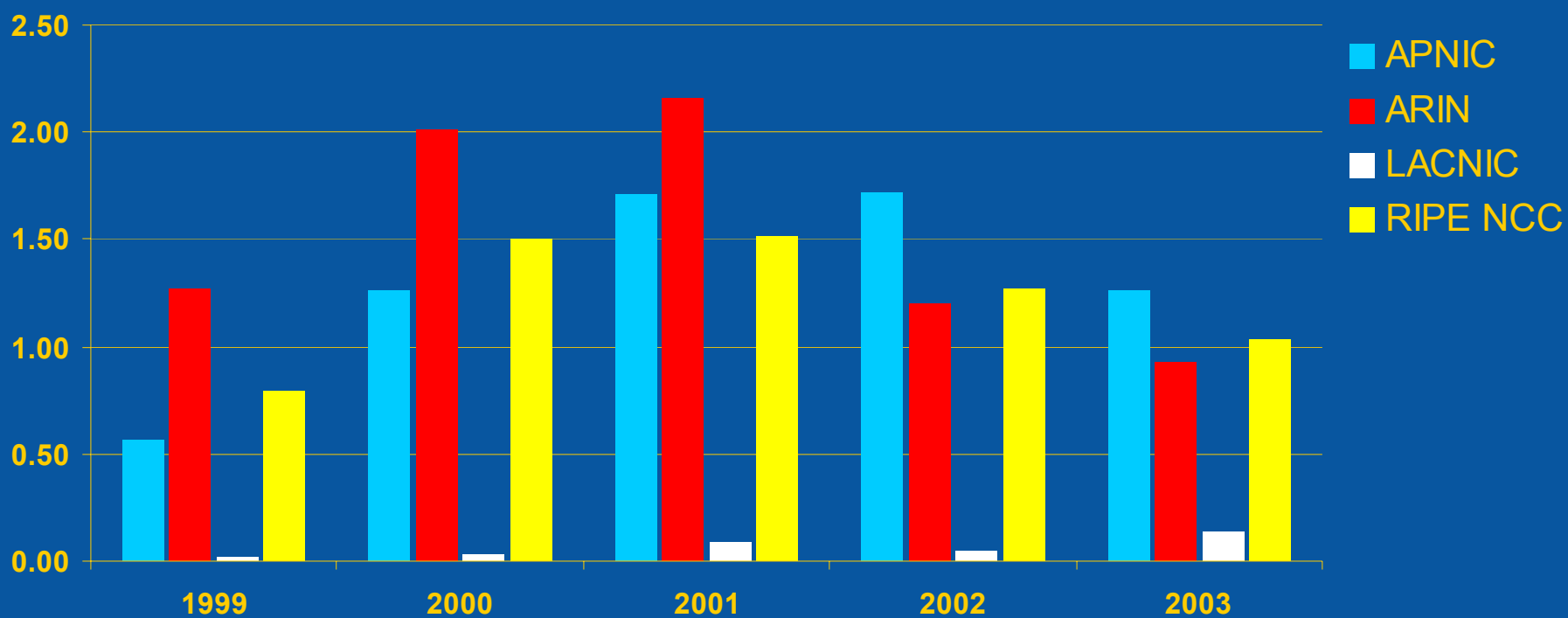
# IPv4 /8 Address Space Status



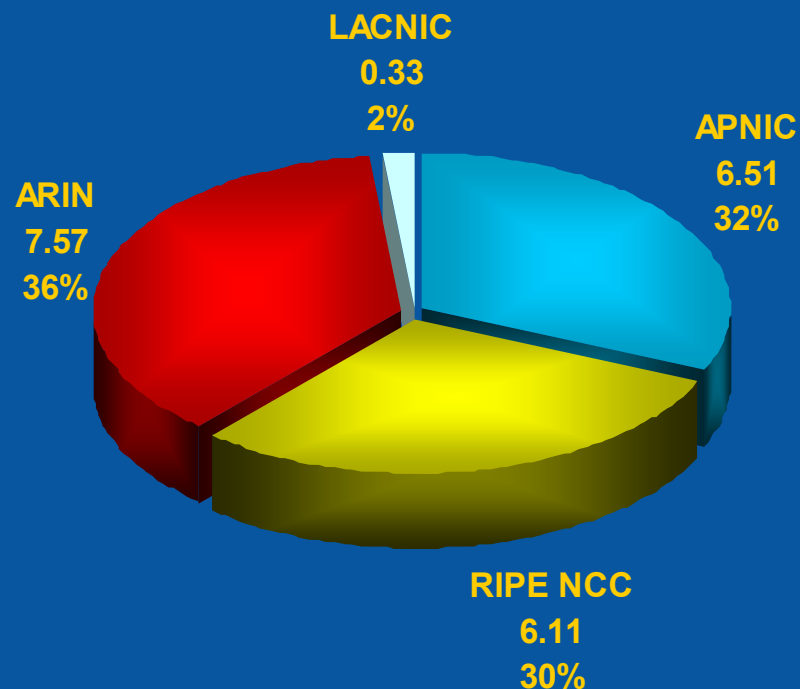
# IPv4 Allocations from RIRs to LIRs/ISPs

## Yearly Comparison

### 30 September 2003



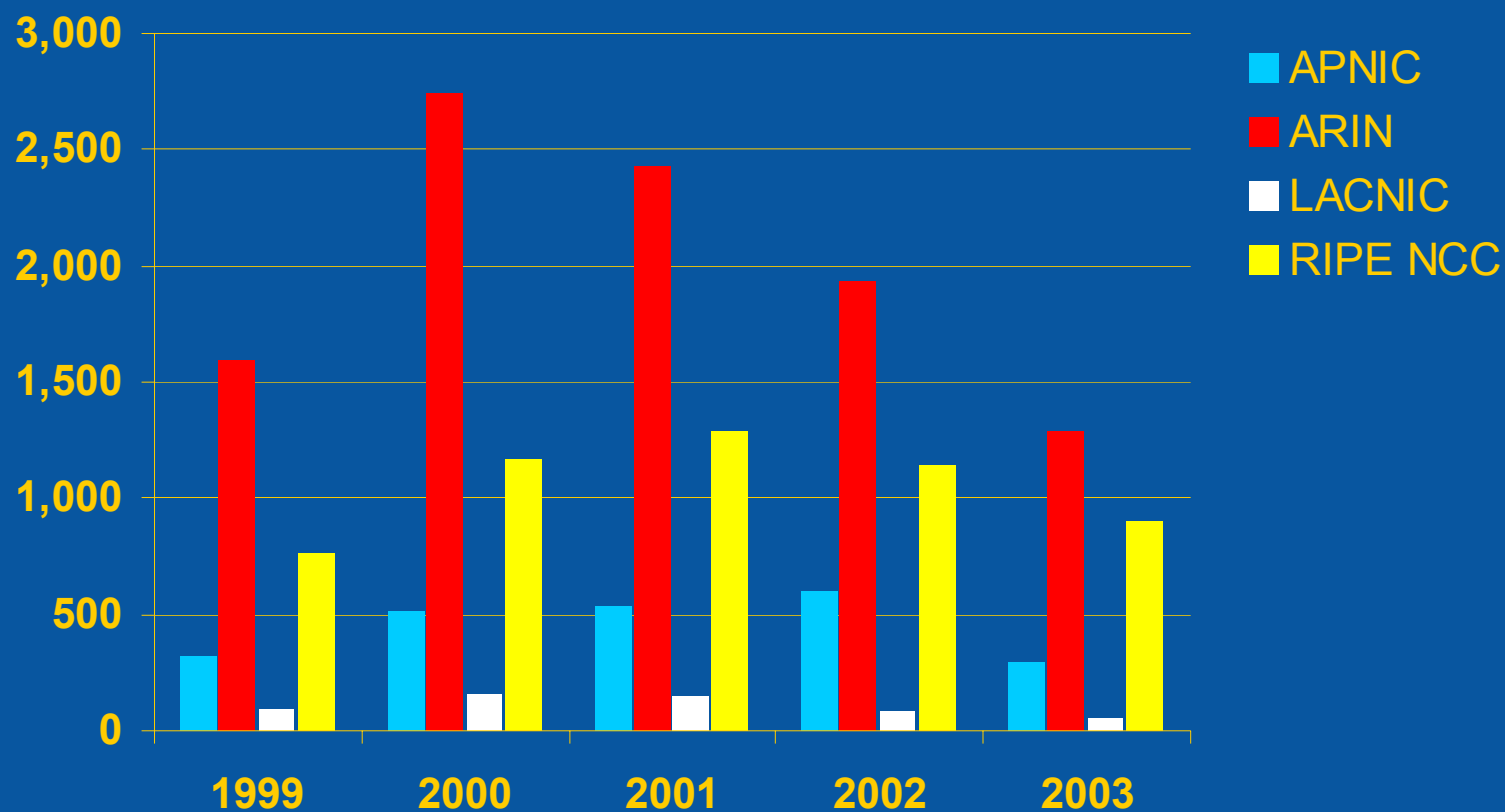
## IPv4 Allocations from RIRs to LIRs/ISPs Cumulative Total (1 January 1999 – 30 September 2003)



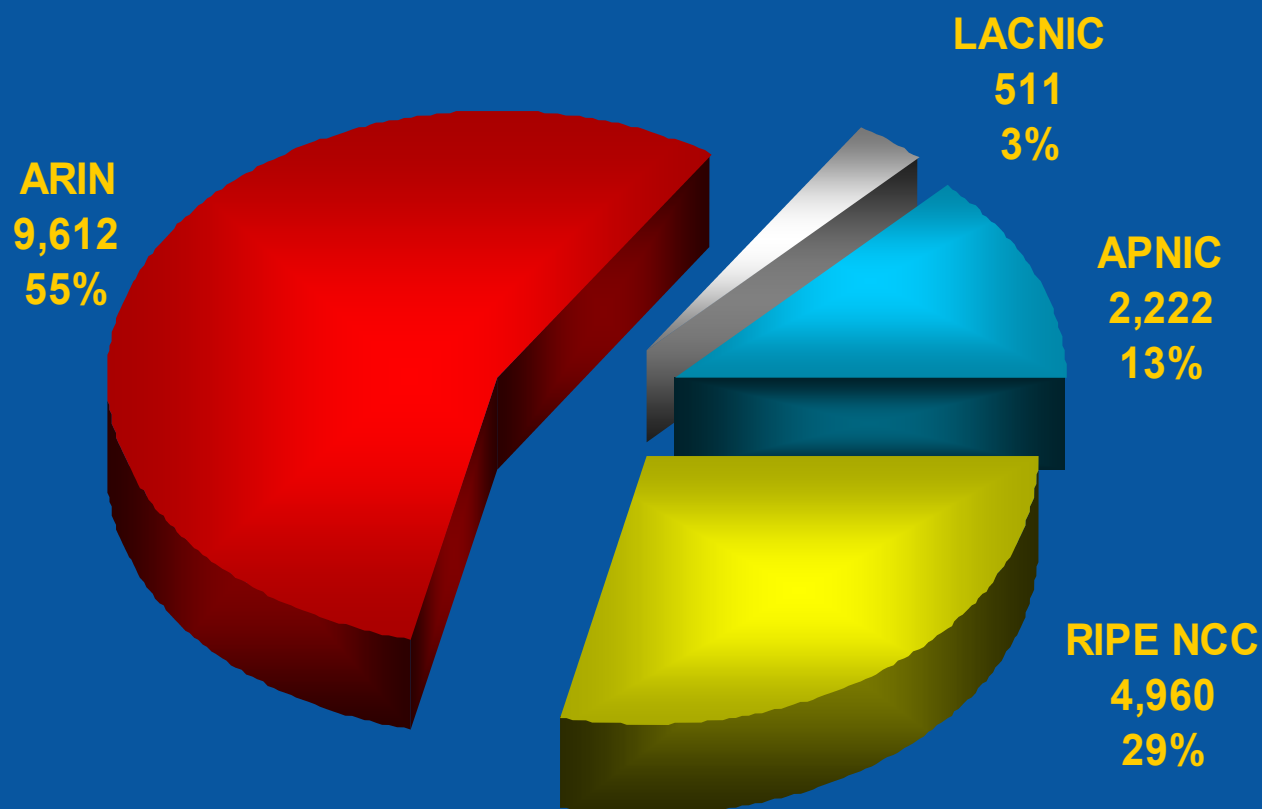
# ASN Assignments from RIRs to LIRs/ISPs

## Yearly Comparison

### 30 September 2003



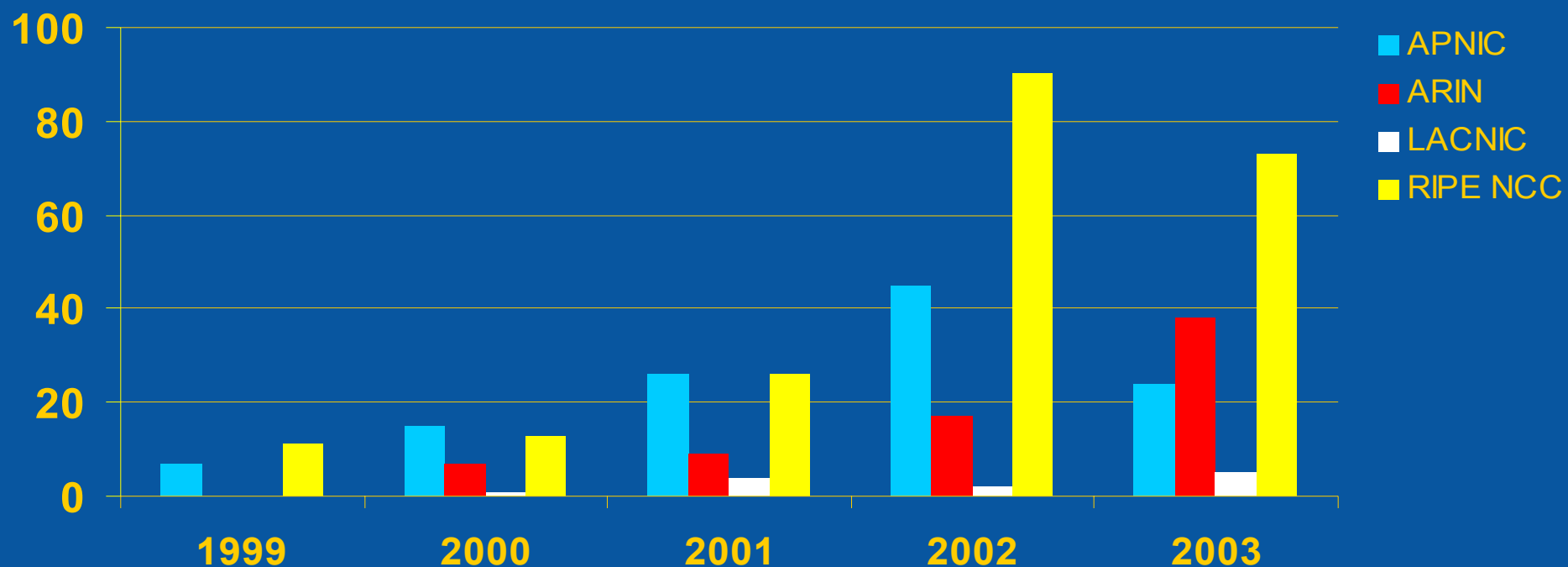
## ASN Assignments from RIRs to LIRs/ISPs Cumulative Total (1 January 1999 – 30 September 2003)



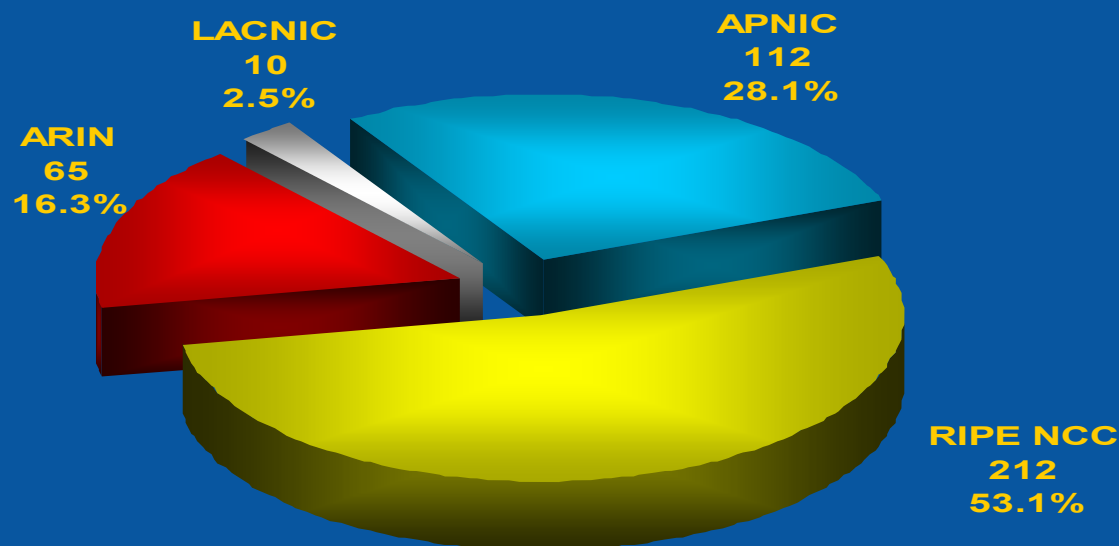
# IPv6 Allocations from RIRs to LIRs/ISPs

## Yearly Comparison

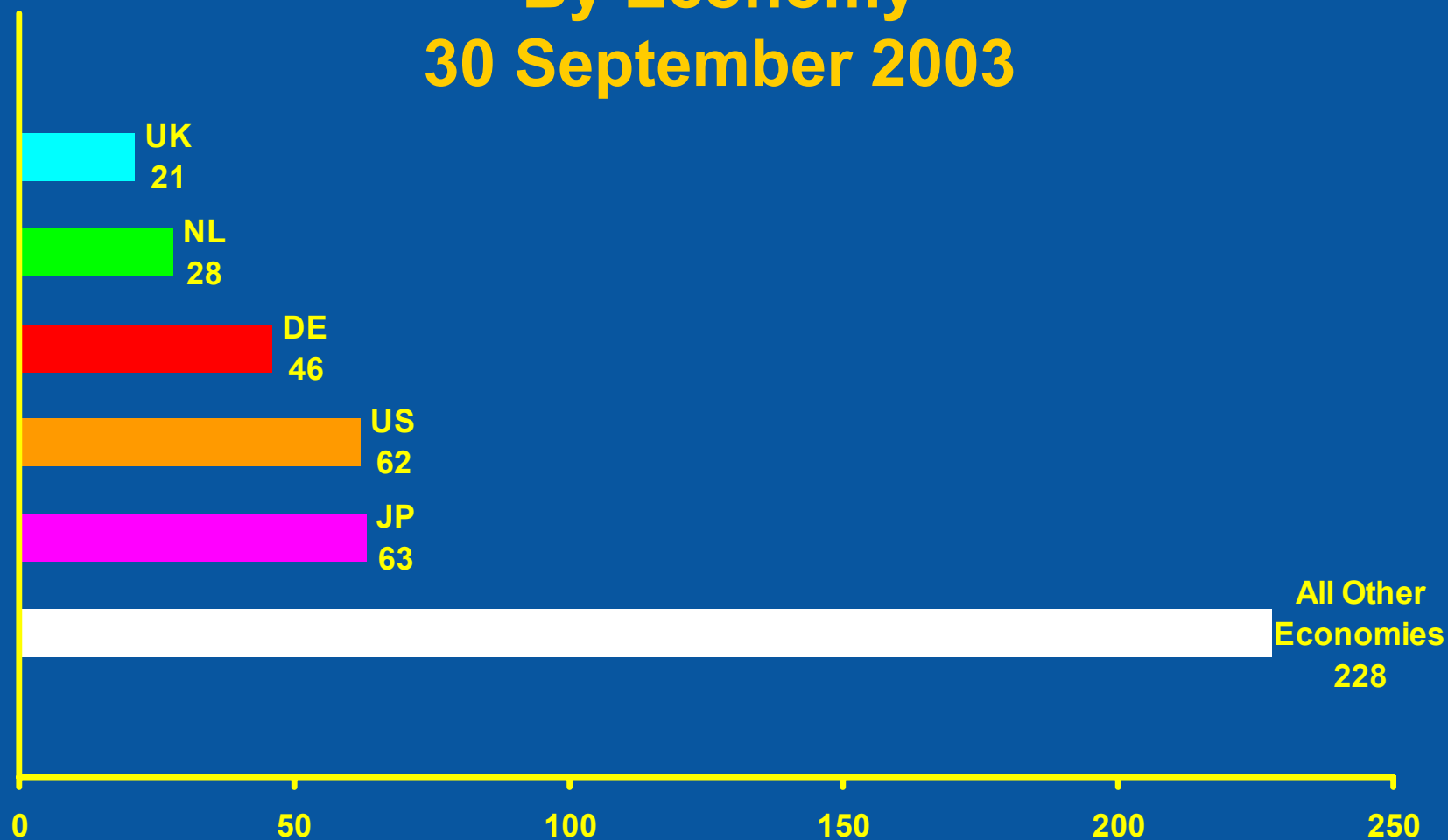
### 30 September 2003



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



# Total IPv6 Allocations from RIRs to LIRs/ISPs By Economy 30 September 2003



## Number Resources in Africa

Source	IPv4 (/24)	IPv6 (/32)	ASN
APNIC	48	0	1
ARIN	32,178	3	121
RIPE NCC	5,664	1	57
<b>TOTAL</b>	<b>37,890</b>	<b>4</b>	<b>179</b>

## 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

### Secretariat

- 2003 – APNIC
- 2004 – RIPE NCC

## Activities

### Outreach

- Participate in WSIS

### Coordination

- NRO MoU
- Policy
  - IANA to RIR v4 & v6
  - RIR to ISP/LIR v6
- ERX Project
- Staff Exchange
- RIR / ICANN MoU

# Number Resource Organization [NRO]



## Why?

- Formalize the RIR Cooperative Efforts
  - Services
  - Activities
- Provide Single Interface Point to the RIRs
  - ICANN – Service Contracts, Budget, etc.
  - IETF – Addressing Issues
- Protect the Bottom Up Policy Process
- Protect the Unallocated Number Resource Pool

# Organization

- Executive Council
- Numbers Council
- Secretariat

<http://www.arin.net/library/rir-docs/nro-comments> email list

# APNIC



# APNIC16 – Policy Update

- Consensus points only
  - Now being circulated for 2 month ‘comment period’ on the ML after the Open Policy meeting
- **Prop-001-v001**: Revised policy development process
- **Prop-002-v001**: Document revision policy
- **Prop-008-v001**: IANA IPv4 resource request procedures
- **Prop-005-v001**: RIPE-261 follow up
  - Regional allocations, larger allocation size from IANA (/8 or /12 further discussion needed)
- **Prop-006-v001**: Historical resource transfers

# Policy Update from APNIC16..

- **Prop-011-v001:** Revised IXP assignment policy
- **Prop-007-v001:** Privacy of customer assignment records
- **Prop-010-v001:** Protecting resource records in APNIC whois database
- **Prop-007-v001:** Revised lame delegation cleanup
- Informational only
  - Create a guidelines document to explain existing IPv6 policy more clearly

# Technical Services...

- Anycast root mirror servers
  - Agreement with “F” (ISC)
    - Hong Kong, Seoul, Beijing (test)
  - New agreement with “I” (Autonomica)
  - 5 sites in planning
    - For deployment in next 6 months
- Database cleanup
  - Unreferenced and unprotected objects
  - Improved consistency and statistics reporting: IPv6 & ERX, bogons

# Next APNIC Open Policy Meeting

- In KL, Malaysia with APRICOT 2004

The screenshot shows a web browser window titled "APNIC meetings | APNIC 17 | home - Microsoft Internet Explorer". The address bar shows "http://www.apnic.net/meetings/index.html". The page features a banner for the "17th APNIC Open Policy Meeting" held from "23-27 February 2004" in "Kuala Lumpur - Malaysia". A sidebar on the left lists various links: Programme, HM consultation, EC election, Social event, Sponsorship, Future meetings, Past meetings, APRICOT 2004, APNIC 17 home, and APNIC home. The main content area highlights the "17th APNIC Open Policy Meeting" and "Kuala Lumpur, Malaysia, 23-27 February 2004". It invites members and friends to attend, noting it's in conjunction with APRICOT 2004. The venue is identified as the "Palace of the Golden Horses" in Mines Resort City. The programme includes training, tutorials, SIGs, BOFs, and a social event. A call for proposals is also issued, stating that SIG chairs will issue calls for proposals to the SIG mailing lists.

APNIC 17 home

## 17th APNIC Open Policy Meeting

23-27 February 2004 Kuala Lumpur - Malaysia

### 17th APNIC Open Policy Meeting

#### Kuala Lumpur, Malaysia, 23-27 February 2004

Members and friends of APNIC are invited to attend APNIC's 17th APNIC Open Policy Meeting (APNIC 17) being held in conjunction with APRICOT 2004 in Kuala Lumpur, Malaysia from 23 to 27 February 2004. APNIC 17 is one of the tutorial and conference tracks at APRICOT 2004.

#### Venue

The meeting will be held at the [Palace of the Golden Horses](#). This hotel is a world class luxury resort and conference centre with stunning Malaysian-Moorish architecture overlooking a magnificent 150 acre lake at the Mines Resort City in Kuala Lumpur.

#### Programme

APNIC 17 will include APNIC training, tutorials, Special Interest Groups (SIGs), Birds of a Feather sessions (BOFs), hostmaster consultations, the APNIC Member Meeting, and a social event. Details are provided in the [draft schedule](#).

#### Call for proposals

The SIGs are open fora at which technical, policy and operational issues relating to the management of Internet Resources within the Asia Pacific region are discussed.

The SIG Chairs will issue calls for proposals to the SIG mailing lists shortly, inviting anyone interested to submit an [Information Paper](#) (IP) for discussion at the SIGs. Details of discussions held at previous SIGs can be found in the [APNIC 17 Call for Proposals](#).

APNIC 17 home

# ARIN



# Activities

- \* Native IPv6
- \* Stronger Authentication
- \* Hijacking
- \* CRISP
- \* ERX
- \* Improved statistics and graphics
- \* Collecting Overdue Accounts

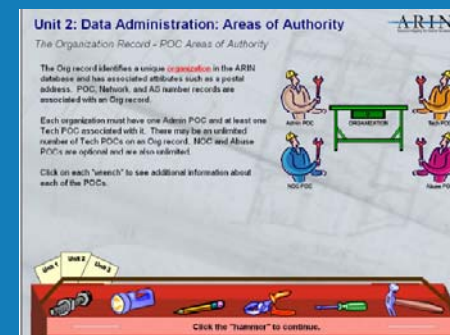
# Policy Proposals

**Deferred: 5**  
**Last Call : 8**

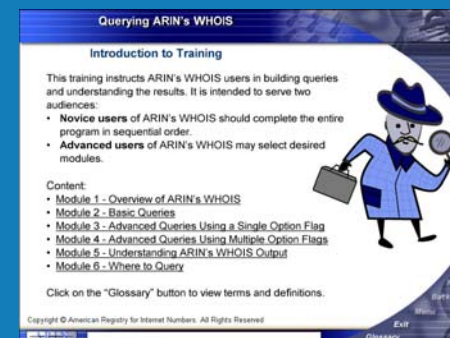
2003- 3: Residential Customer Privacy	Last Call
<b>2003- 4: IPv6 Policy Changes</b>	<b>Deferred</b>
2003- 5: Distributed Information Server Use Requirements	Last Call
<b>2003- 9: WHOIS Acceptable Use</b>	<b>Deferred</b>
<b>2003-10: Apply HD Ratio to IPv4 Allocations</b>	<b>Deferred</b>
<b>2003-11: Purpose &amp; Scope of WHOIS Directory</b>	<b>Deferred</b>
2003-12: IANA to RIR IPv4 Allocation	Last Call
2003-13: Six Month Supply of IP Addresses	Last Call
2003-14: Remove /13 Maximum Allocation	Last Call
2003-15: IP Address Allocation for Africa Portion of ARIN	Last Call
<b>2003-16: POC Verification</b>	<b>Deferred</b>
2002- 2: Experimental Internet Resource Allocations	Last Call
2002- 3: Micro-Assignments for Multihomed Networks	Last Call

# On-Demand Training

## Registration Processes Flowcharts



## ARIN Database & Templates



## Querying ARIN's WHOIS

<http://www.arin.net/library/training/>

*Heading NOrthwest to*

**VANCOUVER, B.C.**

**April 18-21, 2004**



**XIII**

**Mark Your Calendars**

9 November 2003

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Minneapolis

# LACNIC





# LACNIC General Information

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- **Became the fourth RIR in October 31st 2002.**
- **LACNIC has completed its first year of full-operation.**
  - Very positive evaluation.
  - The organization is absolutely consolidated and both membership and budget are in stable growing.
  - Completely integrated and involved in all the RIR's activities.
- **Cooperation**
  - LACNIC is strongly acting in cooperation agreements with other Latinamerican organizations producing positive effects in the community.
- **External relationships**
  - LACNIC is very proactive in its relation with governments, regulators, and international organizations in the Latinamerican region.



# Engineer Activities

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- LACNIC's services in IPv6 before the end of the year.
- New features to analyze statistic information launched in August. SIARI.
- Client Accounting System under development, to offer more interactive tools to our members and customers.
- Customization of ARIN's voting system with some new Add-on. It was successfully used in our Board of Directors last election.
- Proactive in Reverse Delegation Lane with very good results.



# 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. (*Implemented*)

**Proposals to be considered during LACNIC V**

- DNS Lame delegation,
- Allocation of Internet resources for experimental use,
- IPv6 policies' revision
- Modifications to Microallocations for End Users Multihomed.

**Working groups that have worked but have not made any concrete recommendation:**

- Allocation windows
- 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**

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



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



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# RIPE NCC





# RIPE Region Policy Update

- PI Task Force
  - “Straw Man” proposal to decrease minimum allocation size and stop PI assignments
- Inetnum “status:” attribute
  - Proposal to change values to make their meanings easier to understand
- IP Address Space Management
  - IANA -> RIR allocations
  - IPv4 & IPv6 allocations (ripe-261)



# RIPE NCC

- K anycast cluster deployment done
  - AMS-IX / LINX / Assessing further locations
- Documentation Renewal
  - IPv4 policy document
  - New Forms and Supporting Notes
- LIR Portal
  - New Web Forms
- RIPE NCC GM Meeting 2003
  - Adjacent to RIPE 46 Meeting
  - 2004 Activity Plan, Budget and Charging Scheme – Approved



<http://ripe.net/ripenncc/regional-meetings/dubai-2003/>



# RIPE NCC Activities Focus 2004

- Improving Quality of Service
  - Shorter Fulfilment Time
  - Simpler Procedures
- Stronger Membership Support
  - Widen & improve communication channels
    - Telephone contact (receiving, originating)
    - Support members in specific areas (Regional Support)
    - Develop RIPE NCC Services WG
- Information Access and Quality
  - Information Services
    - Registration Data / Operational Statistics
  - Website re-design
    - Improve navigation / increased clarity of information

# AFRINIC



# Activities / Announcements in 2003

- ▶ Call for hosting country proposals (Feb 2003).
  - five proposals received:
    - **South Africa**
    - Kenya
    - **Mauritius**
    - **Egypt**
    - Joint proposal from **Ghana** – Uganda – Senegal
- ▶ Selection of hosting countries:
  - *Via consensus from the applicants, it was decided to distribute AfrinIC activities across 4 locations (on incorporated entity).*

# Hosting countries

- **Mauritius**
  - ◆ HQ and incorporation of Afrinic
- **South Africa**
  - ◆ Technical operations
- **Ghana**
  - ◆ Training Coordination
- **Egypt**
  - ◆ Mirroring and disaster recovery

# Activities / Announcements in 2003

- **Kampala Meeting** (June 2003) *AfNOG IV*
  - ◆ Activity report to local community

<http://www.afrinic.org/AfriNIC-Status-062003.txt>
- **AfriNIC Meeting** - Johannesburg (*September 17<sup>th</sup> 2003*)
  - ◆ Reviewing Terms of Reference for Hosting Countries.
  - ◆ Outreach and input from local community (There will be a ISPA i-week at the same time in Johannesburg)
  - ◆ Visit of facilities offered by SA for AfriNIC Operation (Cape town/Pretoria)
  - ◆ Receive formal Support from more than 20 ISPs/LIRs in Africa

## Activities / Announcements in 2003

- Activity Report sent to local ISPs/LIRs.
- Transition Plan
- New **web site** under construction.
- Lunch of an **information letter** 'Afrinic News' (Vol.1 Oct 2003)
- Appointment of Adiel AKPLOGAN as **Project Manager** (Oct 2003)
- Africa Address **allocations from the same /8** block (196/8) by RIPE NCC and ARIN (Oct 2003)

Thank You

