



APNIC

ARIN
American Registry for Internet Numbers



LACNIC



Ripe
NCC

Regional Internet Registries

Statistics

&

Activities



**IEPG @ IETF 58
Minneapolis**



Prepared By
APNIC, ARIN, LACNIC, RIPE NCC

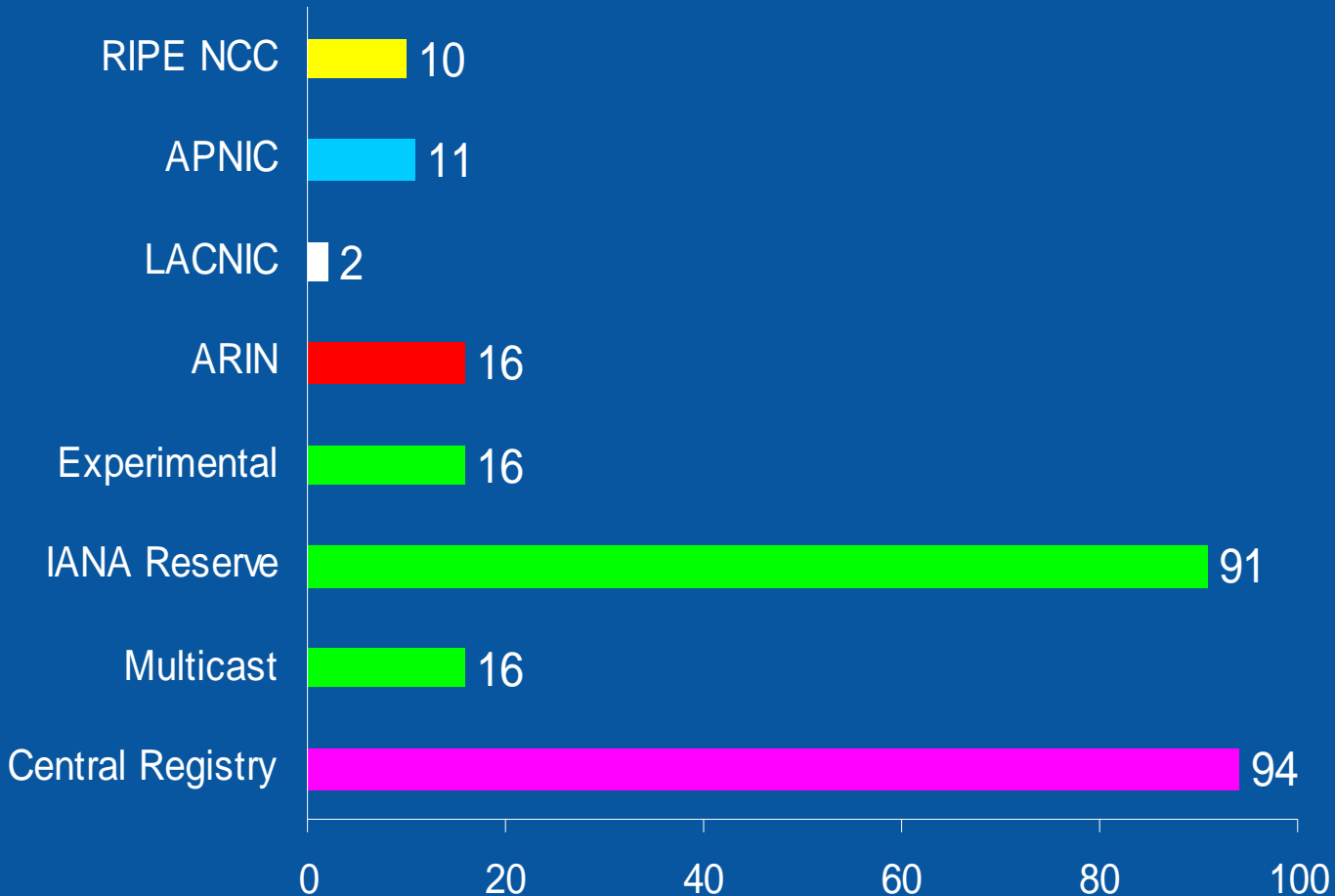
Overview

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

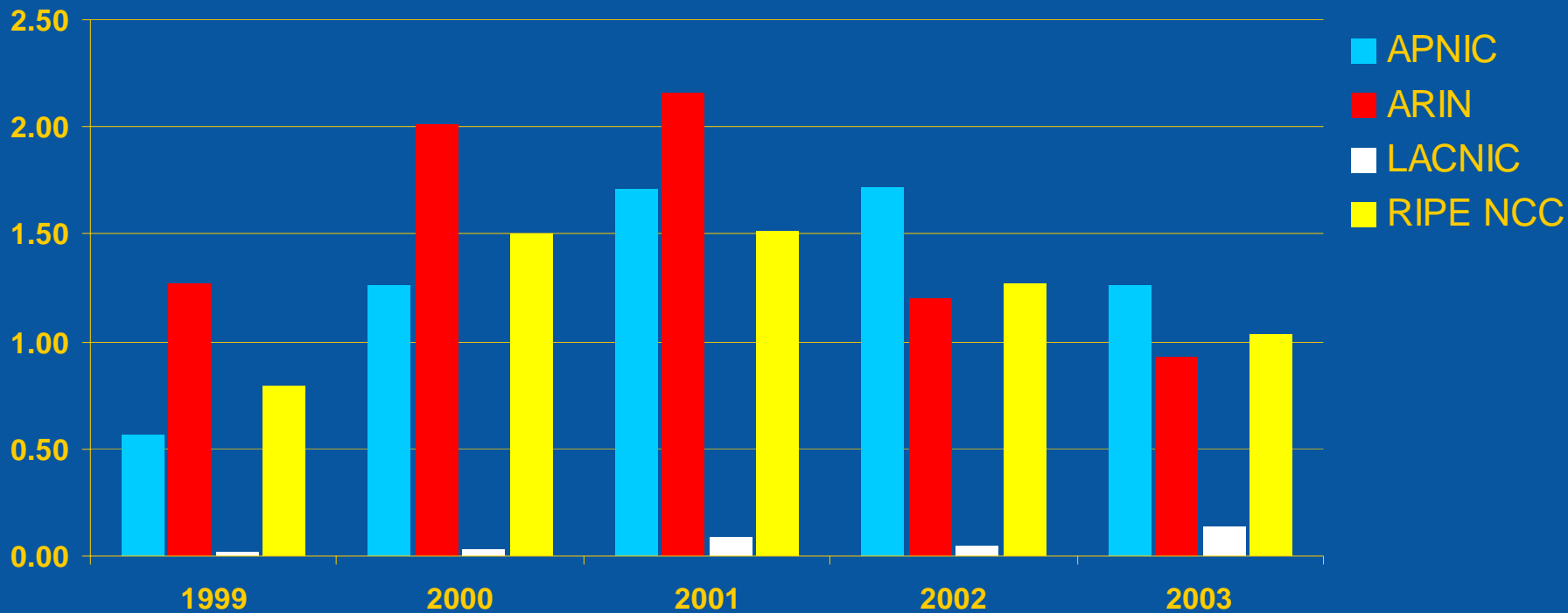
Internet Number Resource Status Report



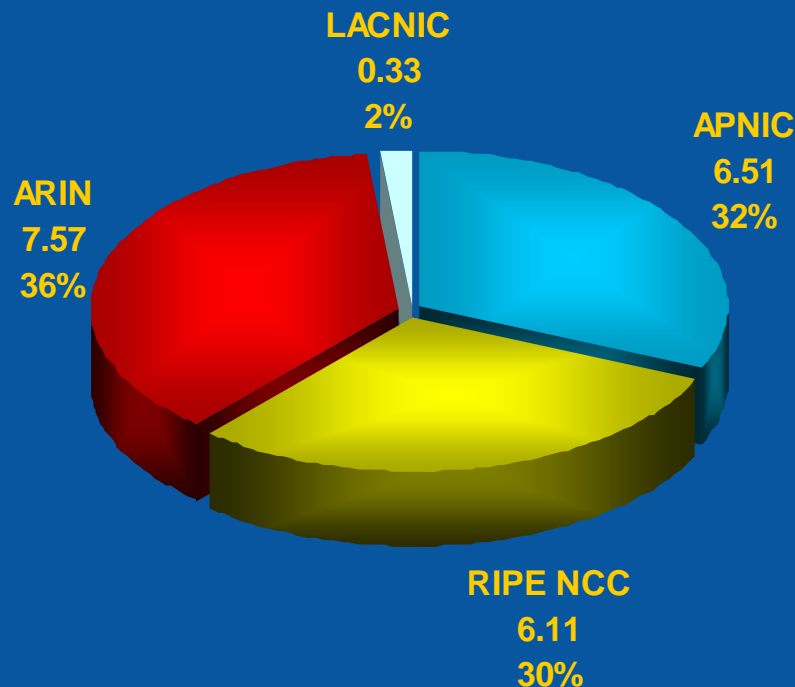
IPv4 /8 Address Space Status



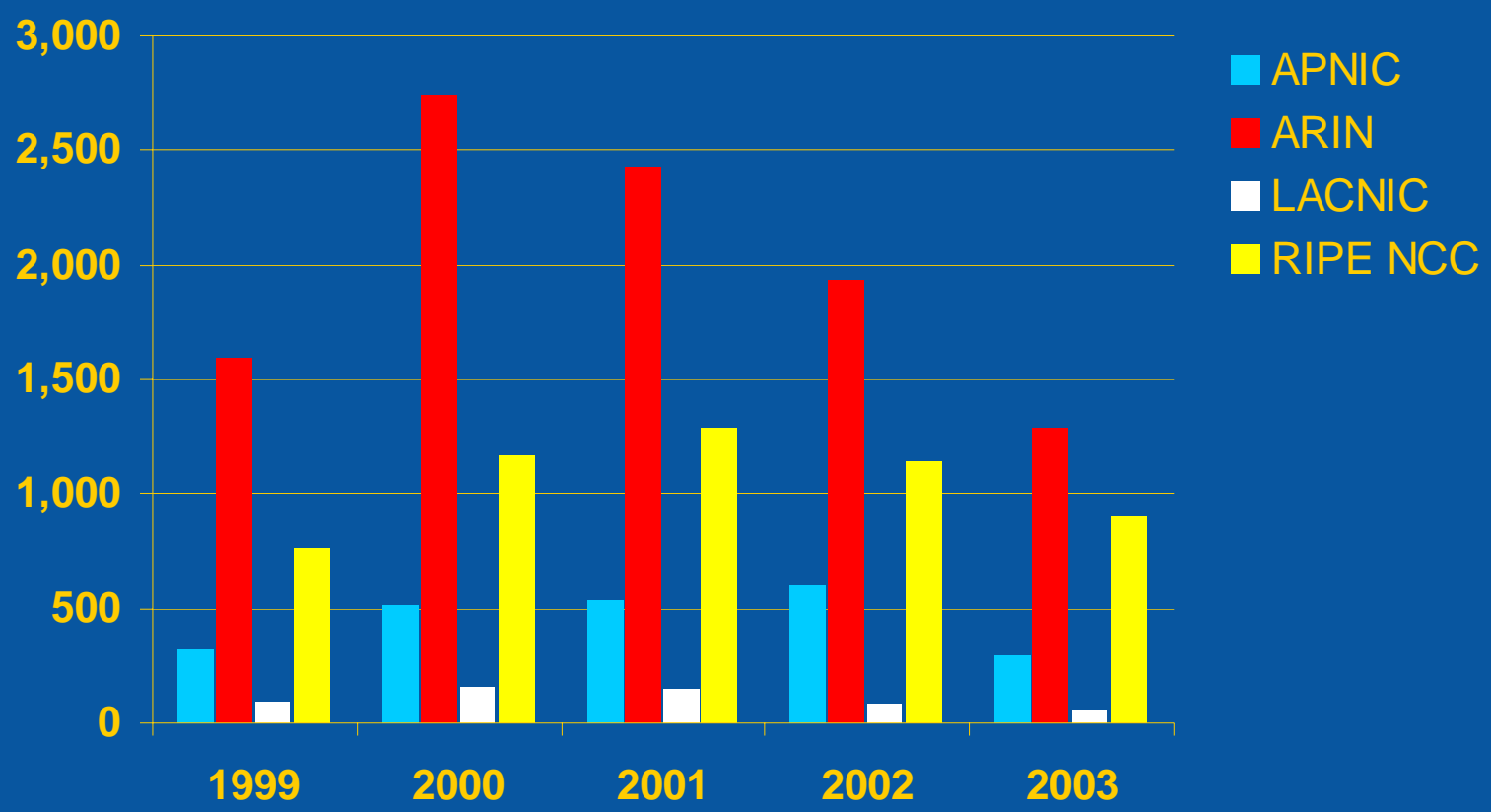
IPv4 Allocations from RIRs to LIRs/ISPs Yearly Comparison 30 September 2003



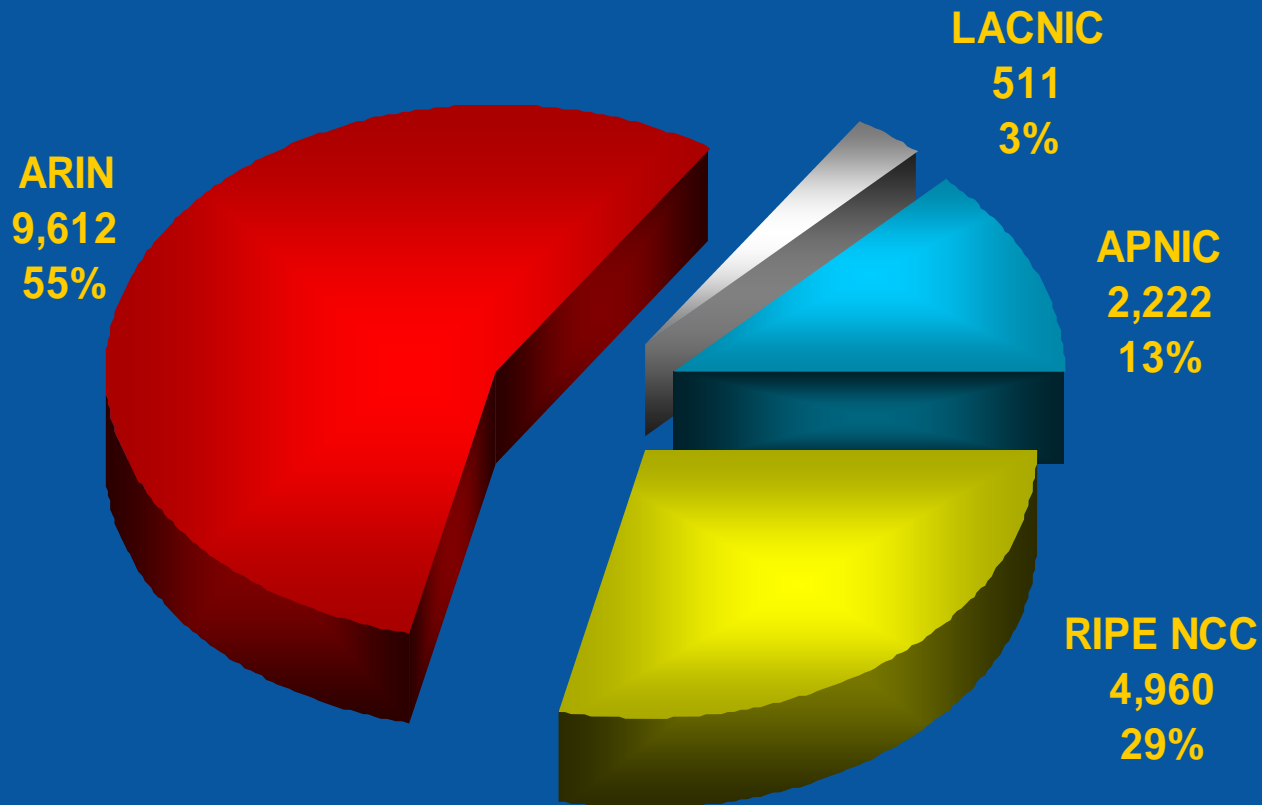
IPv4 Allocations from RIRs to LIRs/ISPs Cumulative Total (1 January 1999 – 30 September 2003)



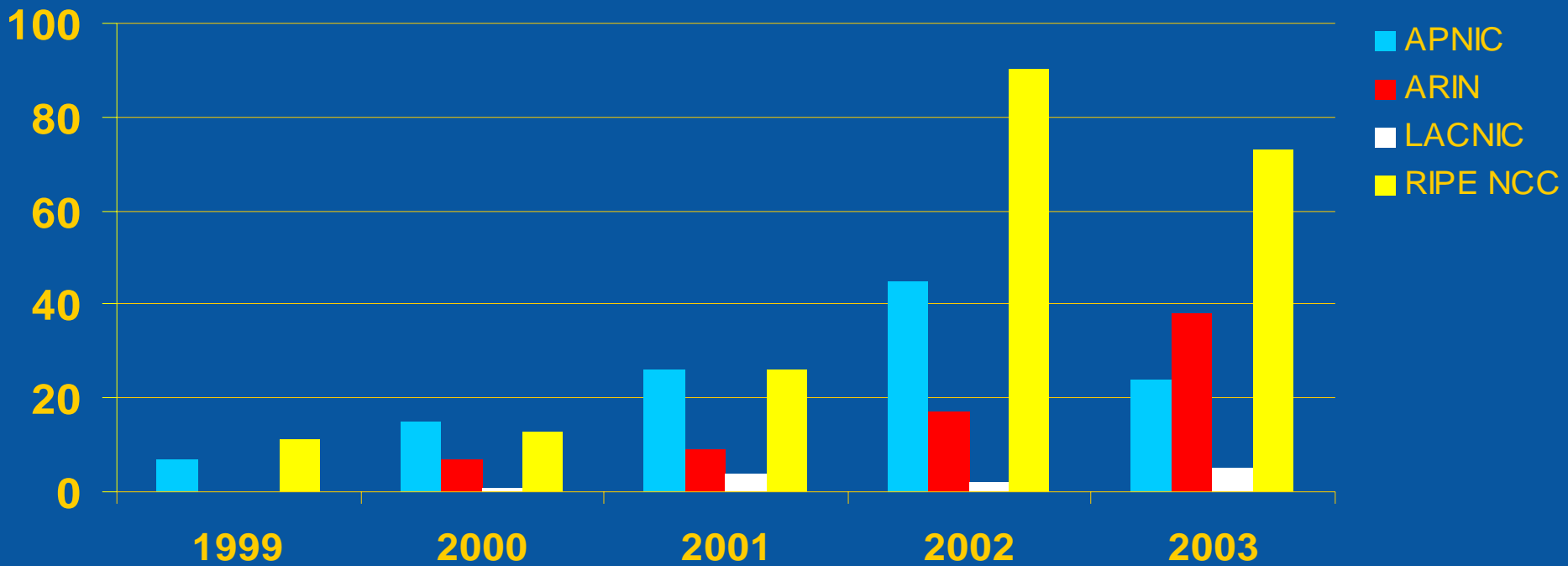
ASN Assignments from RIRs to LIRs/ISPs Yearly Comparison 30 September 2003



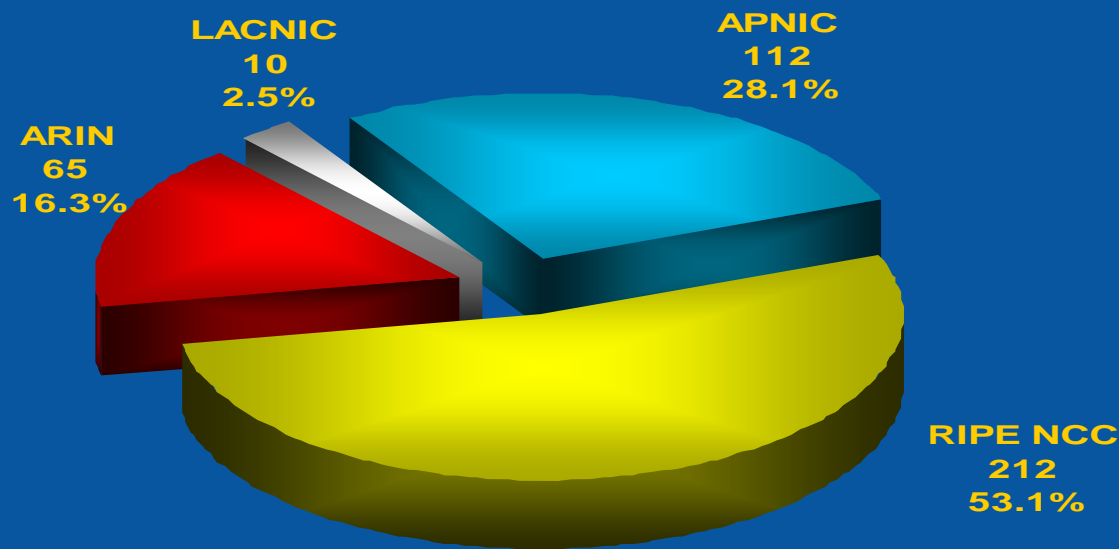
ASN Assignments from RIRs to LIRs/ISPs Cumulative Total (1 January 1999 – 30 September 2003)



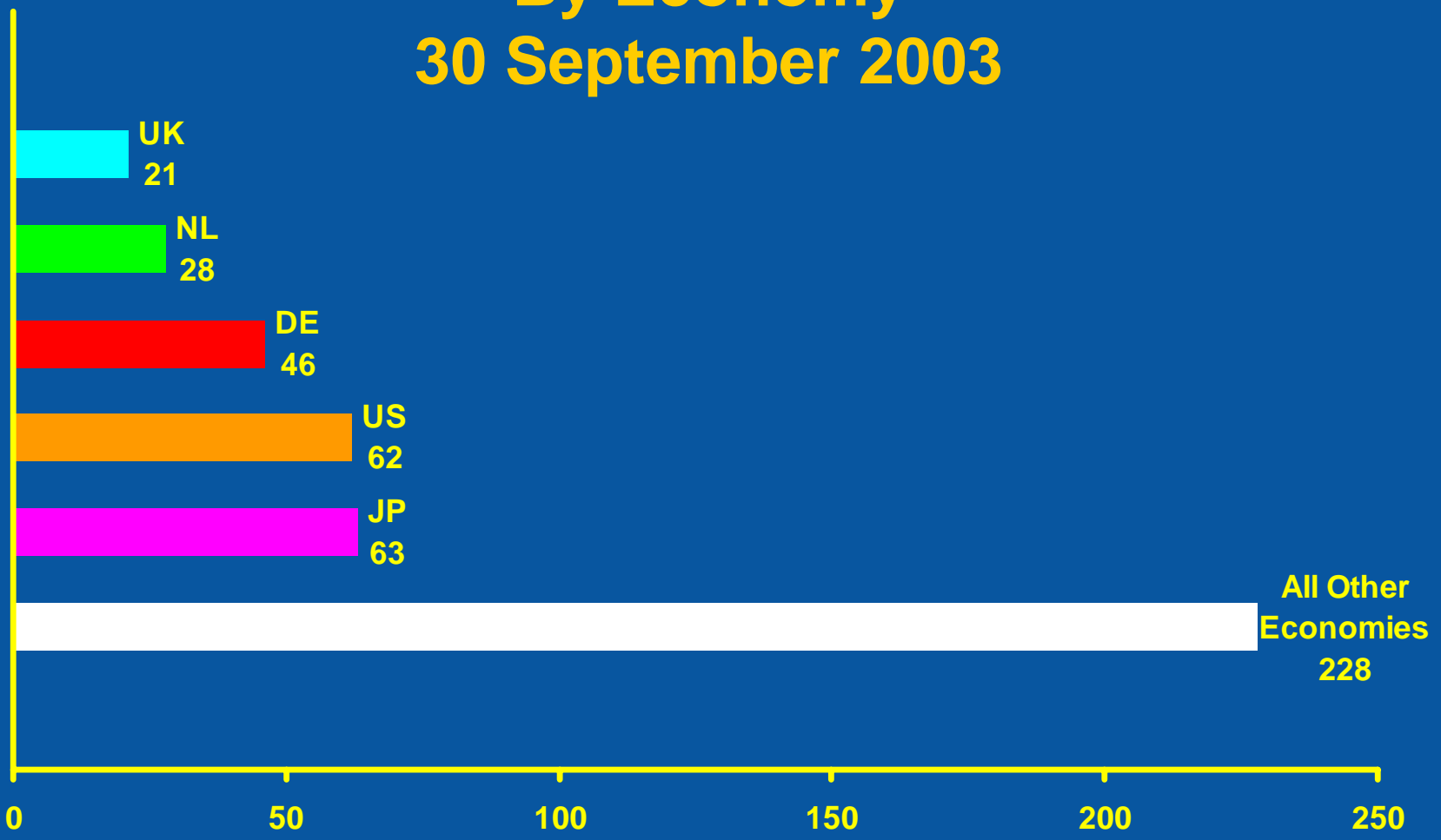
IPv6 Allocations from RIRs to LIRs/ISPs Yearly Comparison 30 September 2003



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
TOTAL	37,890	4	179

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 Microsoft Internet Explorer browser window displaying the APNIC website. The address bar shows <http://www.apnic.net/meetings/index.html>. The page features a navigation menu on the left with items like Programme, HM consultation, EC election, Social event, Sponsorship, Future meetings, Past meetings, APRICOT 2004, APNIC 17 home, and APNIC home. The main content area is titled "17th APNIC Open Policy Meeting" and includes the dates "23-27 February 2004" and location "Kuala Lumpur - Malaysia". A red circle highlights the text: "Kuala Lumpur, Malaysia, 23-27 February 2004". Below this, it states: "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." There is also a "Venue" section mentioning the "Palace of the Golden Horses" and a "Programme" section listing activities like APNIC training, tutorials, and Special Interest Groups (SIGs). An image of the Palace of the Golden Horses is shown on the right. The browser's taskbar at the bottom shows "Slide 6 of 6", "APNIC2002-pw", and "English (U.S.)".

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
2003- 4: IPv6 Policy Changes	Deferred
2003- 5: Distributed Information Server Use Requirements	Last Call
2003- 9: WHOIS Acceptable Use	Deferred
2003-10: Apply HD Ratio to IPv4 Allocations	Deferred
2003-11: Purpose & Scope of WHOIS Directory	Deferred
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
2003-16: POC Verification	Deferred
2002- 2: Experimental Internet Resource Allocations	Last Call
2002- 3: Micro-Assignments for Multihomed Networks	Last Call

On-Demand Training

Registration Processes Flowcharts

ISP Initial Request Process Overview Flowchart

This is an overview of the process by which an ISP can make it's initial request for an allocation of IPv4 address space. Simply move your cursor over on an icon to get additional information. If applicable, clicking on an icon will open the relevant document.

As this is a summary, please be sure to visit ARIN's IPv4 Services page at: www.arin.net/registration/ipv4/ for links to the actual policies and guidelines that govern this process.

If an ISP has an immediate need for address space, i.e., the need exists the day of the request, ARIN may issue a 20 if the organization, such as a new company, shows justification. However, these cases are exceptional.

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Unit 2: Data Administration: Areas of Authority

The Organization Record - POC Areas of Authority

The Org record identifies a unique organization in the ARIN database and has associated attributes such as a postal address, POC, Network, and AD number records are associated with an Org record.

Each organization must have one Admin POC and at least one Tech POC associated with it. There may be an unlimited number of Tech POCs on an Org record. NOC and Abuse POCs are optional and are also included.

Click on each "help" to see additional information about each of the POCs.

Click the "Tutorial" to continue.

ARIN Database & Templates

Querying ARIN's WHOIS

Introduction to Training

This training instructs ARIN's WHOIS users in building queries and understanding the results. It is intended to serve two audiences:

- Novice users of ARIN's WHOIS should complete the entire program in sequential order.
- Advanced users of ARIN's WHOIS may select desired modules.

Content:

- Module 1 - Overview of ARIN's WHOIS
- Module 2 - Basic Queries
- Module 3 - Advanced Queries Using a Single Option Flag
- Module 4 - Advanced Queries Using Multiple Option Flags
- Module 5 - Understanding ARIN's WHOIS Output
- Module 6 - Where to Query

Click on the "Glossary" button to view terms and definitions.

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Querying ARIN's WHOIS

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

Heading Northwest to



VANCOUVER, B.C.

April 18-21, 2004



XIII

Mark Your Calendars

LACNIC





LACNIC General Information

- **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

- 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

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



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/ripencc/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 17th 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

