







LAC

Ripe

Regional Internet Registries

Statistics



&

Activities





Prepared By NRO (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 (Dec 31, 2003)









IPv4 Allocations from RIRs to LIRs/ISPs Yearly Comparison









IPv4 Allocations from RIRs to LIRs/ISPs Cumulative Total (1 January 1999 – 31 December 2003)











ASN Assignments from RIRs to LIRs/ISPs Yearly Comparison









ASN Assignments from RIRs to LIRs/ISPs Cumulative Total (1 January 1999 – 31 December 2003)









IPv6 Allocations from RIRs to LIRs/ISPs Yearly Comparison









IPv6 Allocations from RIRs to LIRs/ISPs Cumulative Total (1 January 1999 – 31 December 2003)







Total IPv6 Allocations from RIRs to LIRs/ISPs By Economy (as of December 31, 2003)









Links to RIR Statistics

LAC

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











Joint Activities











Joint Activities

- ASO Secretariat Support
 - 2003: APNIC
 - 2004: Ripe NCC
- Outreach
 - WSIS participation
- Coordination
 - NRO MoU
 - Policy
 - IANA to RIR (IPv4 & IPv6)
 - RIR to ISP/LIR IPv6
 - ERX project
 - Staff exchange
 - RIR / ICANN MoU







Number Resource Organization [NRO]













Formed by the Regional Internet Registries to formalize their cooperative efforts, the NRO exists to protect the unallocated Number Resource pool, to promote and protect the bottom up policy development process, and to act as a focal point for Internet community input into the RIR system.







Organization











APNIC



APNIC SINC

Hostmaster & Technical Activities

- Hostmaster Services
 - Response time
 - one day turnaround for all requests
 - Account management for more personal service
- Technical
 - MyAPNIC v.1.3
 - 'looking glass', whois data pre-loading, on-line voting
 - Improvements in X.509 CA
 - Hardware token engine in deployment
 - Ongoing analysis of PKIX/s-BGP
 - Anycast mirror servers (agreement with "F","I","K")
 - HK, KR, CN, TW, SG & AU all live, planning others
 - Database cleanup
 - Unreferenced and unprotected objects
 - ERX/Historical data cleanup

Policy Proposals at APNIC17

- prop-014-v001 A proposal to lower the IPv4 minimum allocation size (to /21) and initial allocation criteria in the Asia Pacific region
- prop-015-v001 Should APNIC allocate global unicast IPv6 address space to 'unconnected' networks
- prop-016-v001 IPv6 allocations to IPv4 networks
- prop-017-v001 Proposal to recover unused address space
- prop-018-v001 Protecting Historical Records in APNIC Whois Database

Each of these policy proposals reached consensus in their respective SIG and were endorsed at the AMM

APNIC S

APNIC 17 Held in Kuala Lumpur last week in conjunction with APRICOT 2004

APNIC 18
September 2004
Nadi, Fiji

APNIC Meetings



Seoul









ARIN





Activities

- ***** Stronger Authentication
- * ERX
- *** Services over IPv6**
- * Web Site Improvements
- ***** Improved Statistics & Graphs
- ***** Template Translations
- * Policy Catalogue
- * NANOG / ARIN Meeting Coordination
- * On-Demand Training



Recent Policy Proposals

- **2002-3:** Micro-Assignments for Multi-homed Networks
- 2003-13: Six Month Supply of IP Addresses
- 2003-14: Remove /13 Maximum Allocation
- 2003-15: IP Address Allocation for Africa Portion of ARIN
- 2002-2: Experimental Internet Resource Allocations
- 2003-3: Residential Customer Privacy
- 2003- 5: Distributed Information Server Use Requirements
- 2003-4: IPv6 Policy Changes
- 2003-9: WHOIS Acceptable Use
- 2003-16: POC Verification
- New: Unique IP Addresses for Private Networks
- New: Purpose and Scope of ARIN WHOIS Directory
- New: Use of HD-Ratio for IPv4 Allocations
- New: Defining Utilization of IPv4 Addresses

Ratified Ratified Ratified Ratified

Pending Last Call Pending Ratification Pending Last Call

Active for ARIN XIII Active for ARIN XIII Active for ARIN XIII

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HEADING NORTHWEST TO ARIN XIII



VANCOUVER, B.C. April 18-21, 2004













LACNIC





LACNIC POLICY'S UPDATE

LACNIC IV in Santiago Chile in April 2003 (ASO General Assembly)

New Policies

Bulk Whois Copy DistributionIPv6 MicroallocationMultihomed end user microallocation

• LACNIC V in La Havana, Cuba in November 2003.

•New Policies approved in LACNIC V - Last call for comments finished 23rd January. These proposals and comments will be analyzed by the Board in its next meeting. (February)

Experimental AllocationsIPv6 PolicyMultihomed end user microallocation (modification)

- The Policy Development Process is under revision. The discussion will continue in LACNIC VI .
- The resolution in the proposal for a new policy in Lame Delegation was postponed for LACNIC VI.

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LACNIC POLICY'S UPDATE

- 1. New Policy in *"Internet Resources Experimental Allocation"*.
- 2. Changes in the "*IPv6 Policy for LACNIC Region"*.
 - 3 New Requirements for initial allocations.
 - c. Document a detailed plan for the services and IPv6 connectivity to be offered to other organizations (clients).
 - d. Announce a single block in the Internet inter-domain routing system, aggregating the total IPv6 address allocation received, within a period not longer than 12 months.
 - e. Offer IPv6 services to clients physically located within the region covered by LACNIC within a period not longer than 24 months.

- 2 previous requirements were deleted.

- c. Plan to provide IPv6 connectivity to organizations to which it will assign /48s, by advertising that connectivity through its single aggregated address allocation; and
- d. Have a plan for making at least 200 /48 assignments to other organizations within two years.
- 3. Changes in the policy *"Microallocation for Multihomed End Users"*. A new requirement was added.
 - Require an allocation equivalent to a /25 previously allocated by the applicant's Internet Service Provider in order to qualify for the microallocation of IPv4 address space to Multihomed End Users.

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LACNIC VI



Montevideo

Uruguay 29th March – 1st April 2004







http://lacnic.net/en/lacnicVI.html













RIPE NCC





- /21 minimum allocation implemented on 1 Jan 2004
- AfriNIC proposal to halve minimum allocation for African LIRs (to /22) under discussion
- RIR Comparative policy overview update due midyear
- Low and stable turnaround to resource requests: two day maximum
- 285 allocations of IPv6 blocks
 - Including /31 and /27
- RIPE NCC regional meetings
 - Dubai: great success, good participation
 - Next meetings: Moscow, June, and Nairobi, July



Technical Activities

- LIR Portal 2.0
 - PA assignment wizard
 - Multiple LIRs per user
 - Syntax checking web forms
- In progress: X.509 authentication
 - S/MIME research
- k rootserver anycast
 - Local node deployed at DE-CIX, Frankfurt
- Test Traffic Measurements
 - IPv6 tunnel detection
 - IPv6 on 39 boxes / 21 sites
- dnsmon.ripe.net nearing production
 - Agreement needs drafting
 - Start date to be set
 - Good interest from ccTLDs





RIPE 48

3 - 7 May 2004 Amsterdam











AFRINIC





Africa Network Information Center

Hosting Countries

Mauritius
Corporate Headquarters

South Africa
Technical operations

Ghana Training Coordination

Egypt Mirroring and disaster recovery



Africa Network Information Center

Activities

Space Allocated from 196 /8

Allocation Policy

- ◆ ARIN Policy 2003-15
- RIPE NCC Under Discussion

Transition Plan







Africa Network Information Center

Meetings

AfriNIC I

Dakar

◆ 23 – 24 May

RIR Sub Region

ARIN

RIPE NCC











감사합니다 Kamsahamnida T F A N K YOU