Internet Number Resource Status Report

As of 31 March 2005

Prepared by
Regional Internet Registries
AFRINIC, APNIC, ARIN, LACNIC and RIPE NCC

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IPv4 /8 Address Space Status

Allocated

- AFRINIC
- APNIC
- ARIN
- LACNIC
- RIPE NCC
- Central Registry

- (*) AFRINIC block was allocated on April 11th by IANA

Available

- IANA Reserved: 73

Not Available

- Experimental: 16
- Multicast: 16
- Private Use: 1
- Public Use: 1

March 2005

Internet Number Resource Report
IPv4 Allocations from RIRs to LIRs/ISPs Yearly Comparison

- AFRINIC
- APNIC
- ARIN
- LACNIC
- RIPE NCC


Number of /8s
IPv4 Allocations
RIRs to LIRs/ISPs
Cumulative Total (Jan 1999 – March 2005)

- APNIC: 11.1 (33%)
- AFRINIC: 0.3 (0.1%)
- LACNIC: 0.6 (2%)
- RIPE NCC: 10.2 (31%)
- ARIN: 10.9 (33%)
ASN Assignments
RIRs to LIRs/ISPs
Yearly Comparison

AFRINIC
APNIC
ARIN
LACNIC
RIPE NCC

March 2005
Internet Number Resource Report
ASN Assignments
RIRs to LIRs/ISPs
Cumulative Total (Jan 1999 – March 2005)
IANA IPv6 Allocations to RIRs
(no of /23s)

- APNIC: 28 /23s
- ARIN: 4 /23s
- LACNIC: 1 /23s
- RIPE NCC: 66 /23s

March 2005 Internet Number Resource Report
IPv6 Allocations
RIRs to LIRs/ISPs
Yearly Comparison

* new and additional allocations
IPv6 Allocations
RIRs to LIRs/ISPs
Cumulative Total (Jan 1999 – March 2005)

LACNIC
18
2%

ARIN
135
17%

APNIC
193
24%

RIPE NCC
461
57%

AFRINIC
2
0%
Total IPv6 Allocations from RIRs to LIRs/ISPs Top 10 Countries

1. US - 114
2. JP - 82
3. DE - 75
4. KR - 45
5. IT - 49
6. NL - 31
7. FR - 28
8. AT - 23
9. CH - 20
10. UK - 19
IPv6 Allocation Policy

- Common policy agreed May 2002
- Initial Allocation
  - be an LIR and not an End Site
  - plan to provide IPv6 connectivity & assign /48s by aggregating the single allocation
  - plan to assign 200 /48’s to other organisations within 2 years.
- Minimum Allocation: /32
- Additional Allocation: Default – same again
Regional Variations over time...

• LACNIC
  – Removed 200 /48 assignments
  – Added time restrictions
    • Start announcing within 1 year
    • Offer IPV6 services to clients in 2 years

• ARIN
  – “be an existing, known ISP in the ARIN region” OR
  – plan to make 200 /48 assignments in “5” years
• Formal Proposal to change Initial Allocation Criteria
  – Remove “200 /48 customers”
  – Proposed on 4 April
• Discussion:
  – Change of HD ratio from 0.8 to .94
  – Space requirements for “sites”
    • /56 instead /48
Current Discussions

• ARIN:
  – Provider Independent IPv6 Assignments for End Sites
  – Space requirements for “sites”
  – HD ratio change

• All Regions:
  – IPv6 Global Policy:
    IANA to RIR IPv6 Allocations
Discussion Lists

• RIPE Region policy list
  address-policy-wg@ripe.net

• Global IPv6 policy discussion list
  global-v6@lists.apnic.net
References

- IPv6 Statistics (graphical)
  http://www.ripe.net/rs/ipv6/stats/
- IPv6 RIPE Documents
  http://www.ripe.net/ripe/docs/ipv6.html
- Allocation Statistics
  http://www.aso.icann.org/stats/
Links to RIR Statistics

- **Raw Data/Historical RIR Allocations:**
  - [http://www.aso.icann.org/stats/index.html](http://www.aso.icann.org/stats/index.html)
  - [http://www.iana.org/assignments/ipv4-address-space](http://www.iana.org/assignments/ipv4-address-space)

- **RIR Stats:**
  - [http://www.apnic.net/info/reports/index.html](http://www.apnic.net/info/reports/index.html)
  - [http://www.lacnic.net/en/est.html](http://www.lacnic.net/en/est.html)
  - [http://www.ripe.net/info/stats/](http://www.ripe.net/info/stats/)
Thank You!