Number Resource Organization

Internet Number Resource Status Report

As of 31 March 2005

Prepared by

Regional Internet Registries

AFRINIC, APNIC, ARIN, LACNIC and RIPE NCC

Presented by

Axel Pawlik

Chair, NRO

Managing Director, RIPE NCC

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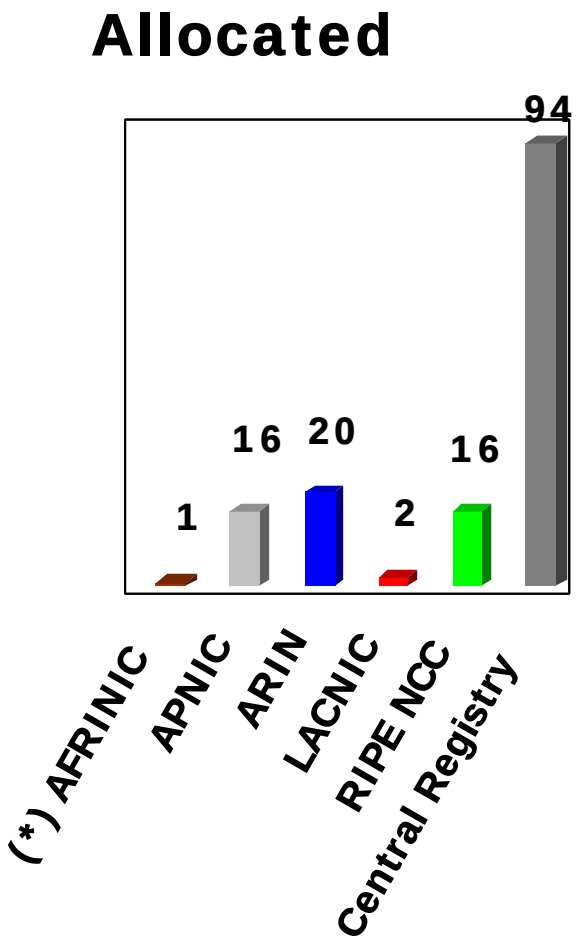
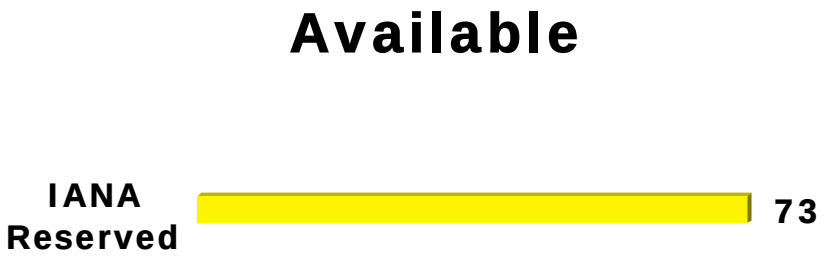
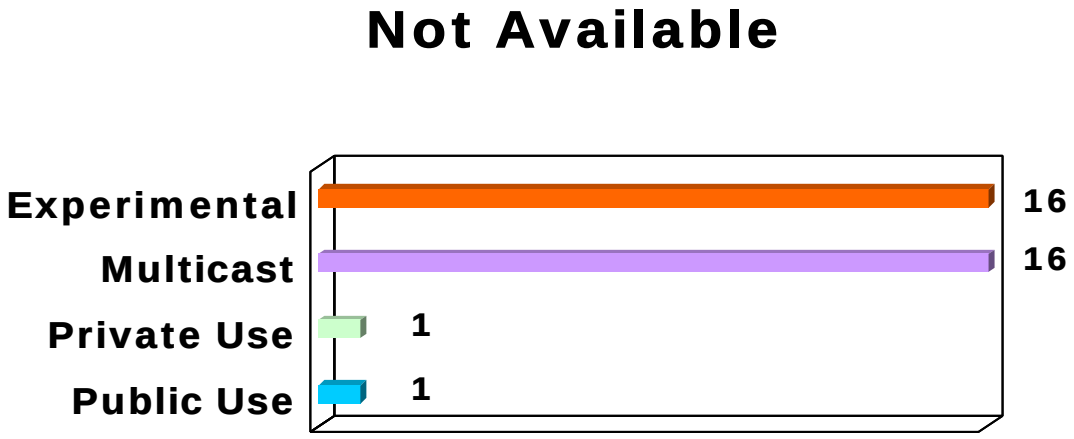
IPv4 /8 Address Space Status







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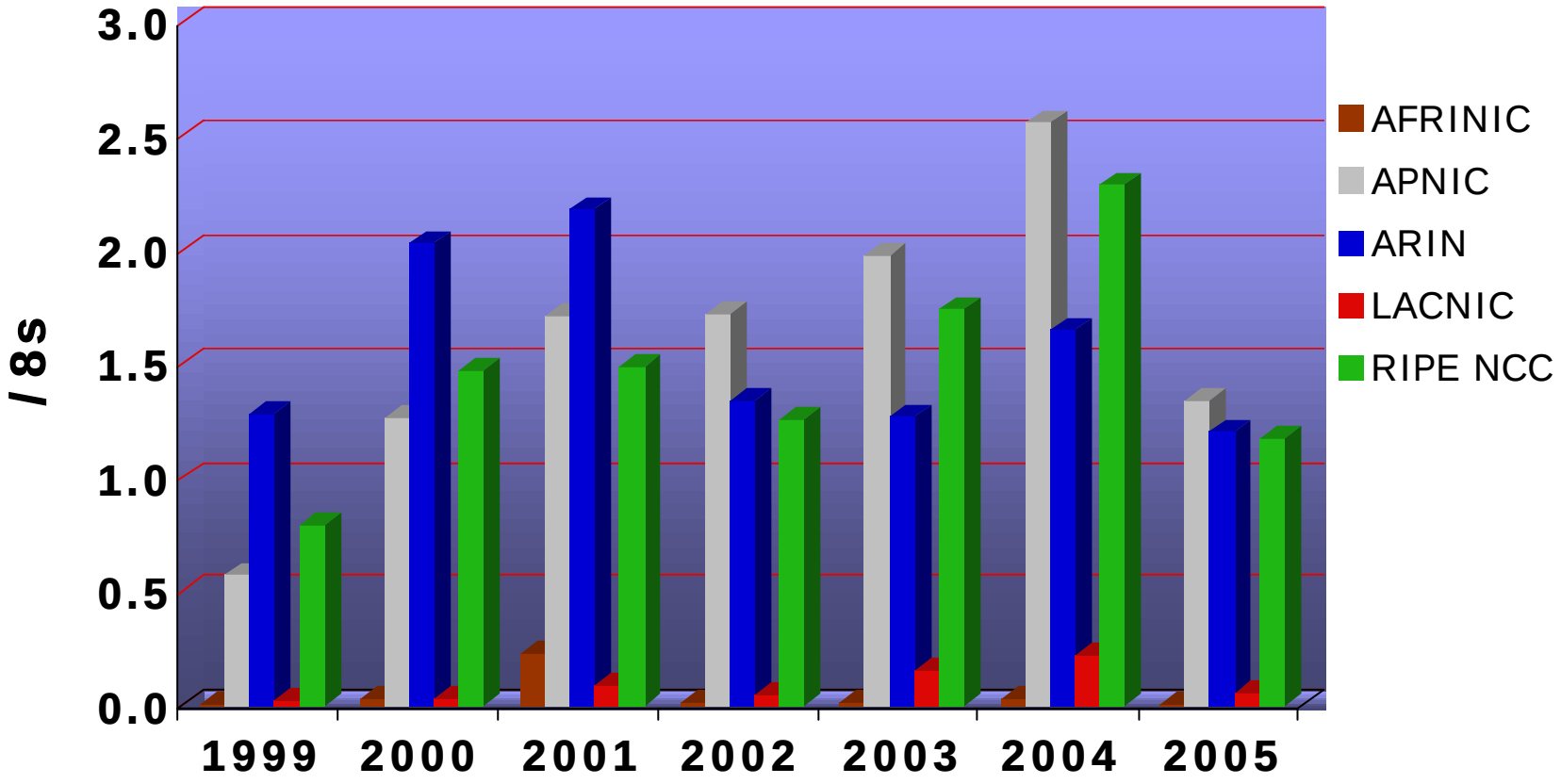
(*) AFRINIC block was allocated on April 11th by IANA

IPv4 Allocations from RIRs to LIRs/ISPs Yearly Comparison



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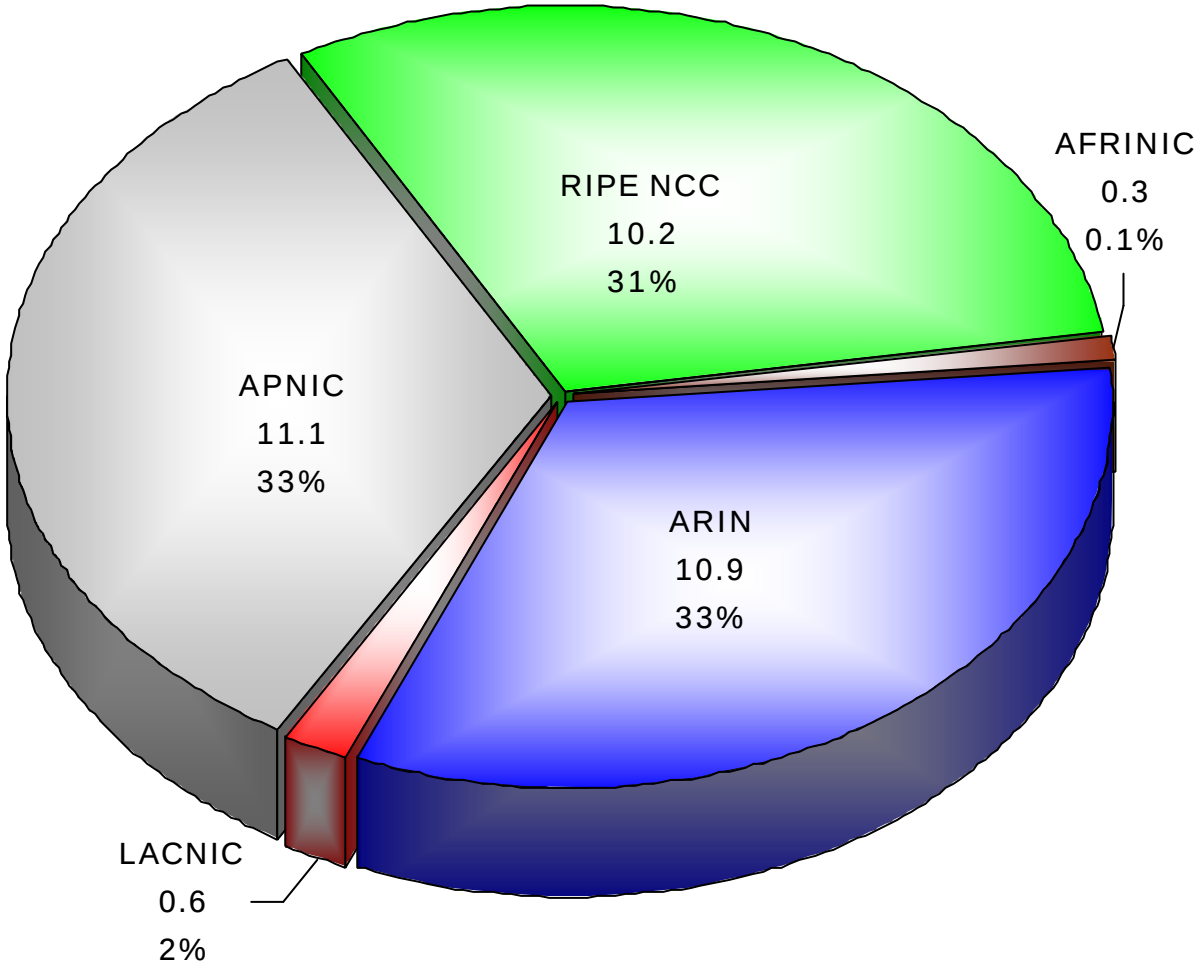
IPv4 Allocations
RIRs to LIRs/ISPs
Cumulative Total (Jan 1999 – March 2005)



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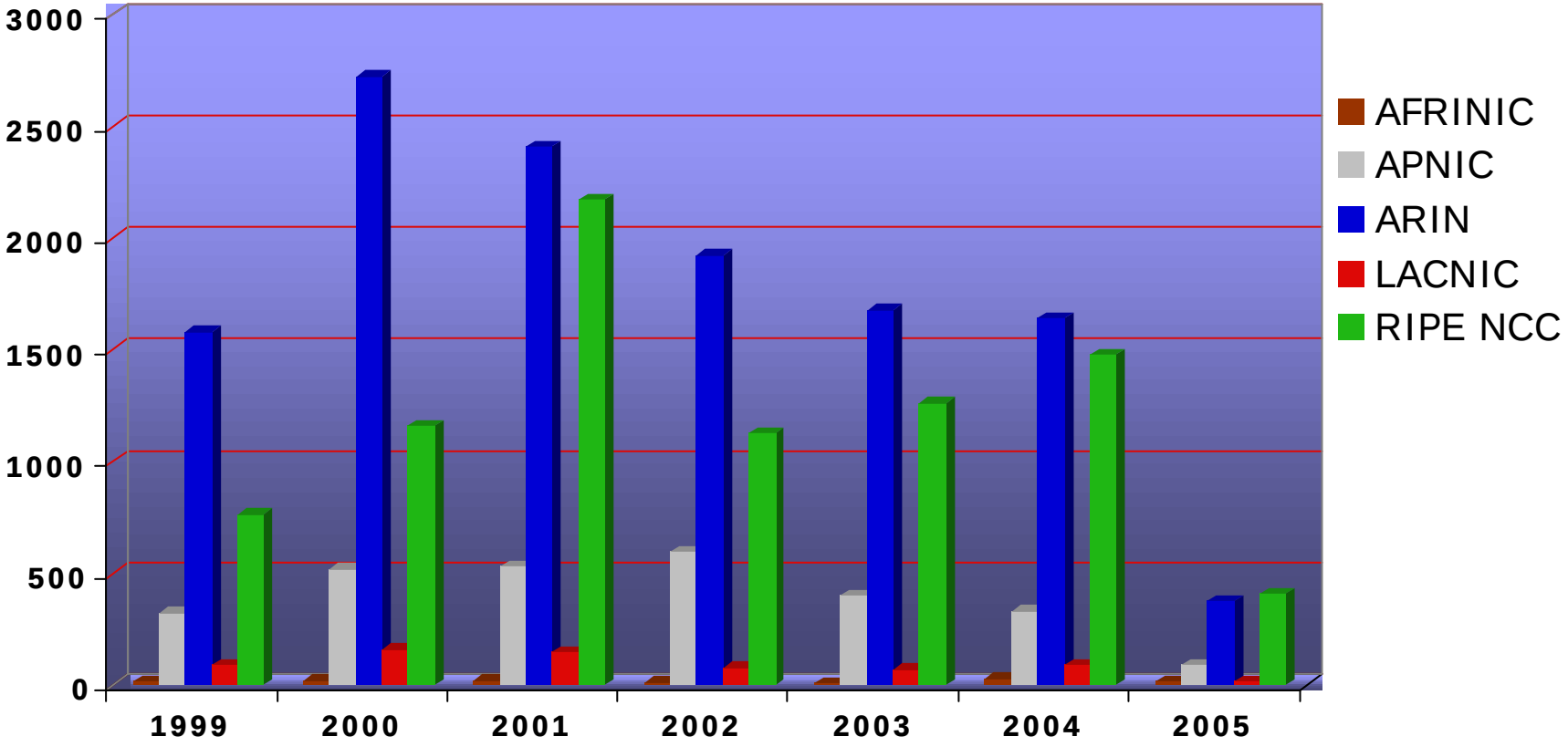
ASN Assignments
RIRs to LIRs/ISPs
Yearly Comparison



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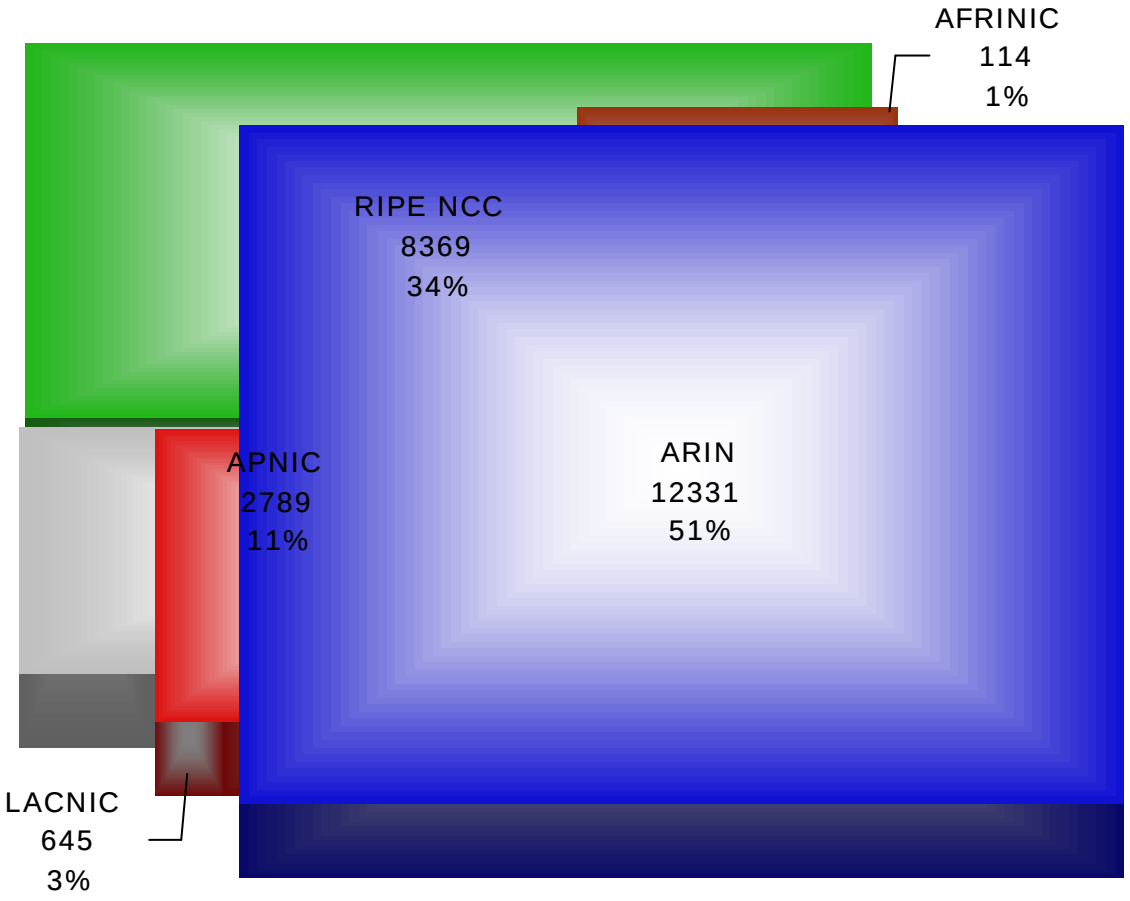
ASN Assignments
RIRs to LIRs/ISPs
Cumulative Total (Jan 1999 – March 2005)



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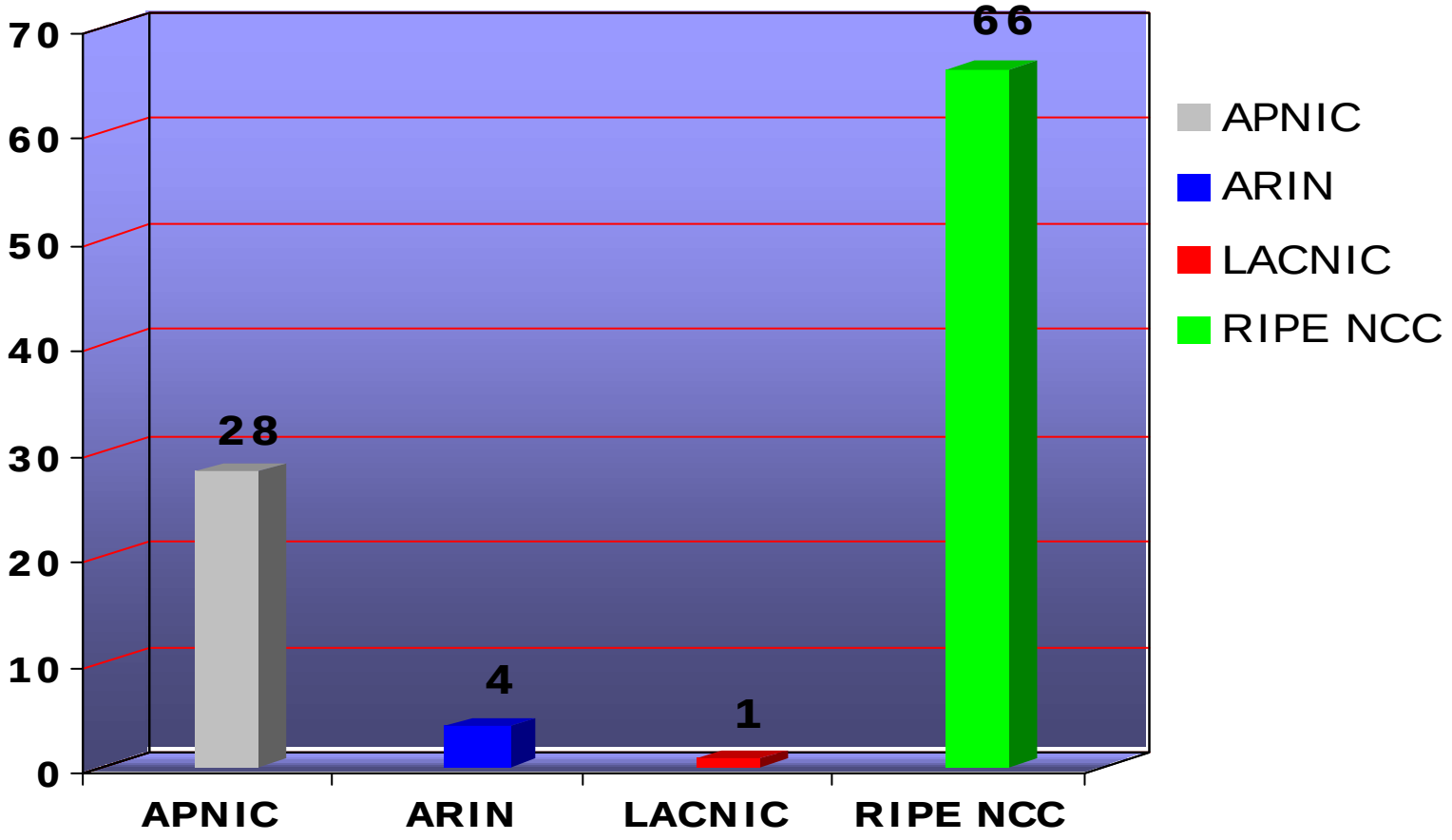
IANA IPv6 Allocations to RIRs (no of /23s)



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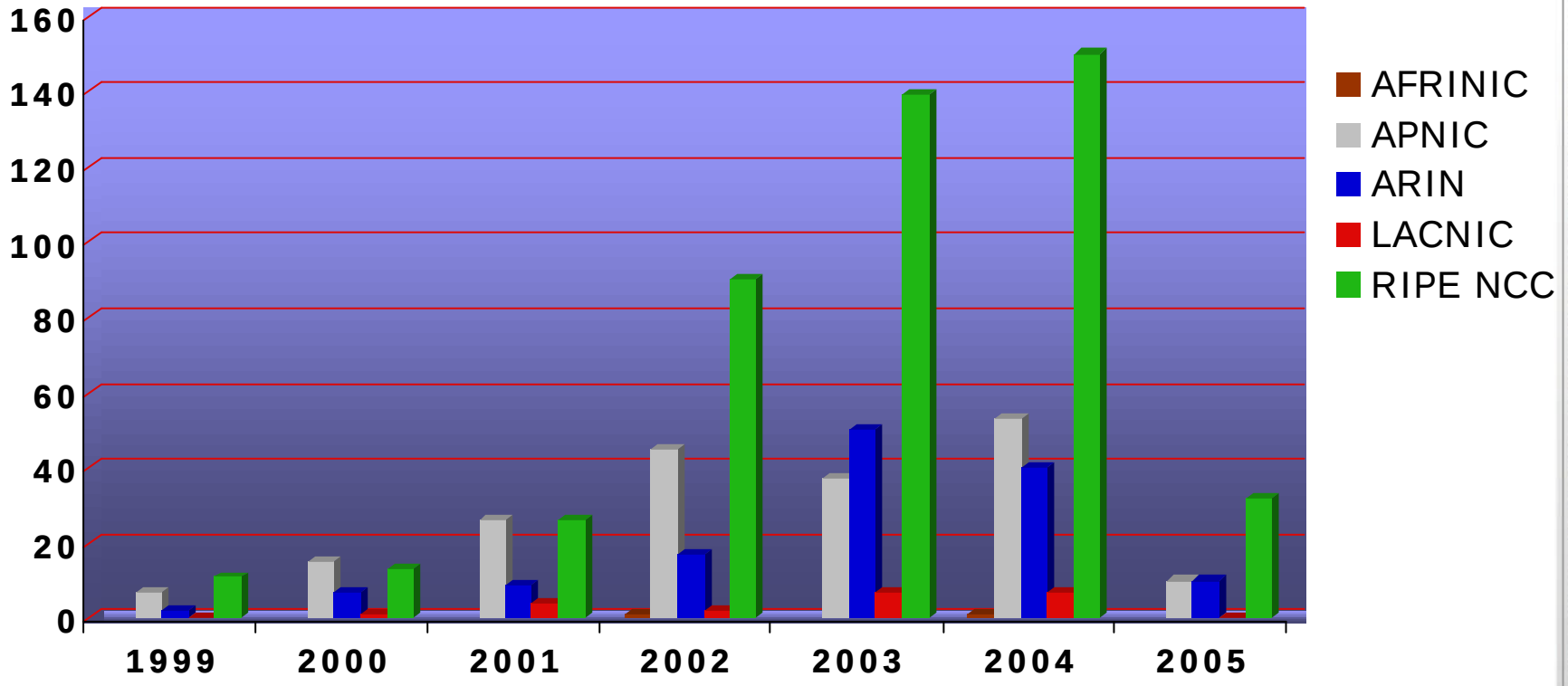
IPv6 Allocations
RIRs to LIRs/ISPs
Yearly Comparison



** new and additional allocations*

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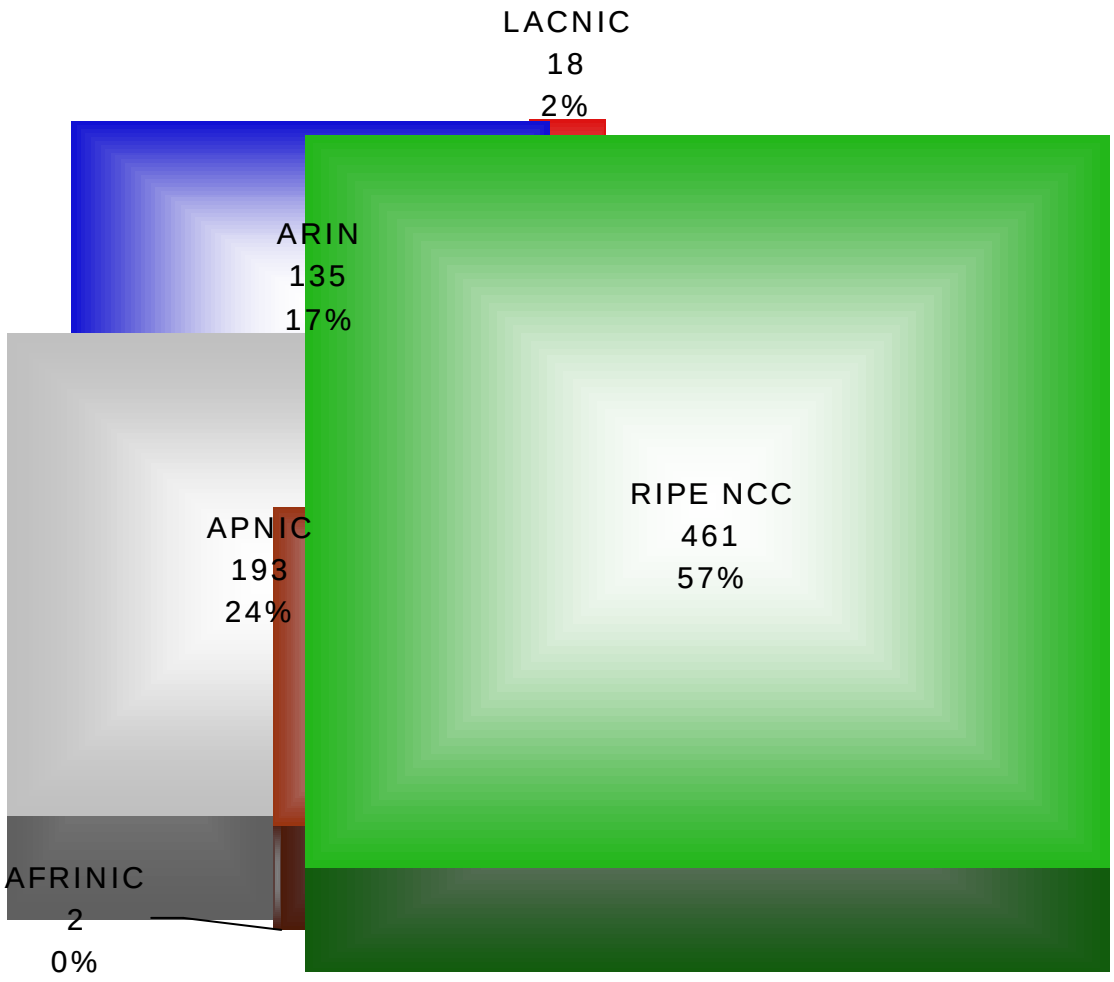
IPv6 Allocations
RIRs to LIRs/ISPs
Cumulative Total (Jan 1999 – March 2005)



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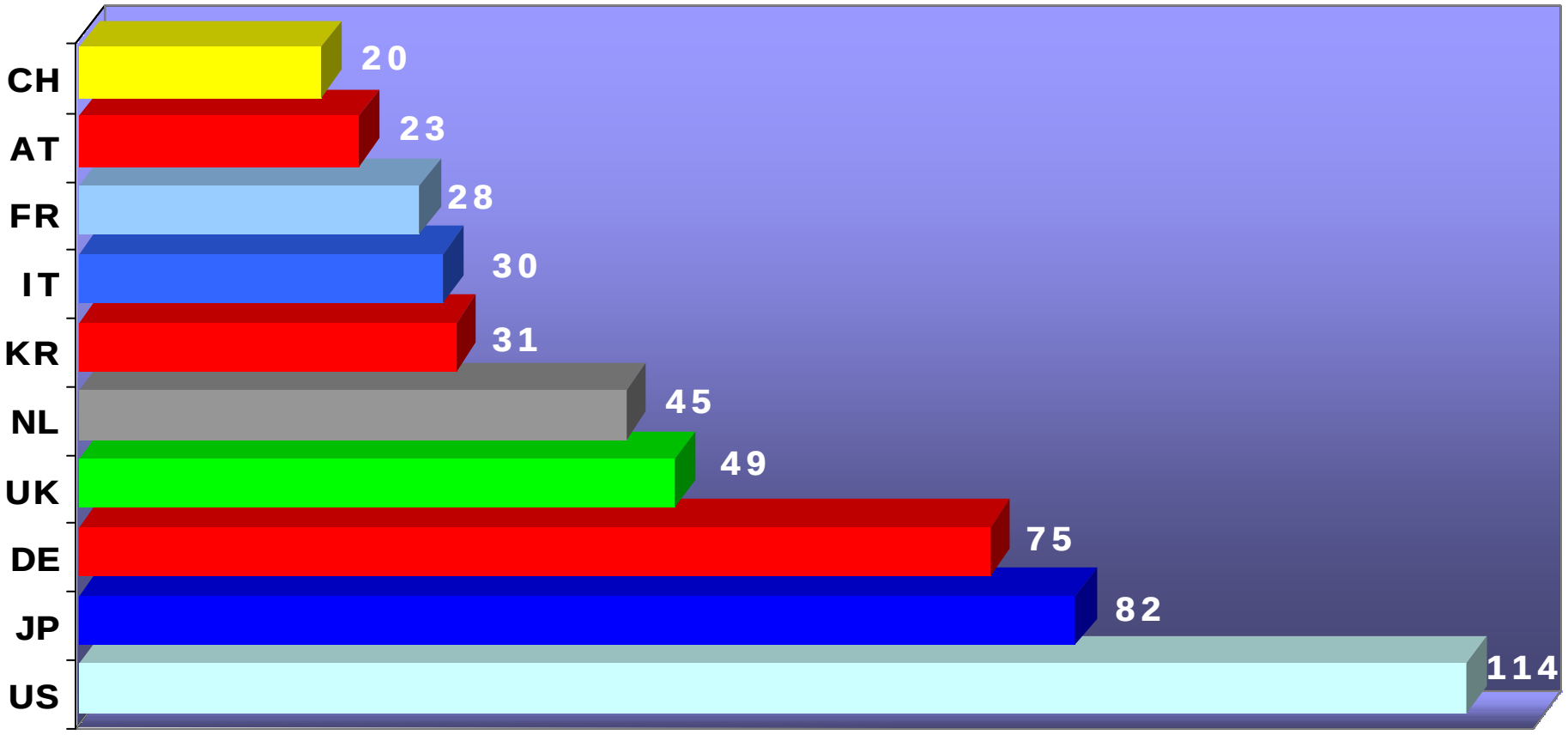
Total IPv6 Allocations from RIRs to LIRs/ISPs Top 10 Countries



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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

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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

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Current Discussions
RIPE Region

- 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

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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

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Discussion Lists

- RIPE Region policy list

  address-policy-wg@ripe.net

- Global IPv6 policy discussion list

  global-v6@lists.apnic.net

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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/

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Links to RIR Statistics

- 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/info/stats/

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NRO

THANK YOU!

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