

ASO Status Report

ICANN Vancouver

3 December 2005

Prepared by
Regional Internet Registries



Address Supporting Organization

- **Organization**
- **Internet Number Resource Status**
- **Policy Discussions**

ORGANIZATION

Address Supporting Organization

Address Supporting Organization

21 October 2004




The NRO Fulfills The:

- **Role**
- **Responsibilities**
- **Functions**

Of the ICANN ASO

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Who is it?	<ul style="list-style-type: none">• The NRO Number Council
What is it?	<ul style="list-style-type: none">• Number Resource Policy Advisory Body
How is it Organized?	<ul style="list-style-type: none">• 15 Members [3 From Each Region]<ul style="list-style-type: none">– 2 Elected at Large– 1 Appointed by RIR Board• RIR & ICANN Observers
Term of Office?	<ul style="list-style-type: none">• Three (3) years, staggered
What Does it Do?	<ul style="list-style-type: none">• Advise ICANN Board• Select ICANN Board Members (2)• Select ICANN NomCom member (1)

REGION	Member
 AfriNIC	Geha Kezengwa Jean Robert Hountomey Alan Barrett*
 APNIC	Hyun-joon Kwon Takashi Arano Dr. Kenny S. Huang*
 ARIN American Registry for Internet Numbers	Louis Lee Sanford George Lee Howard*
 LACNIC	Sebastian Bellagamba Julian Dunayevich Hartmut Glaser*
 RIPE NCC	Sabine Jaume Hans Petter Holen [Chair] Wilfried Woeber*

* Appointed by RIR Board

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ICANN Board Members

Appointed by ASO AC

Name	Term
Raimundo Beca	MAY 2004 – MAY 2007
Mouhamet Diop	JUN 2003 – JUN 2006

AC Activites

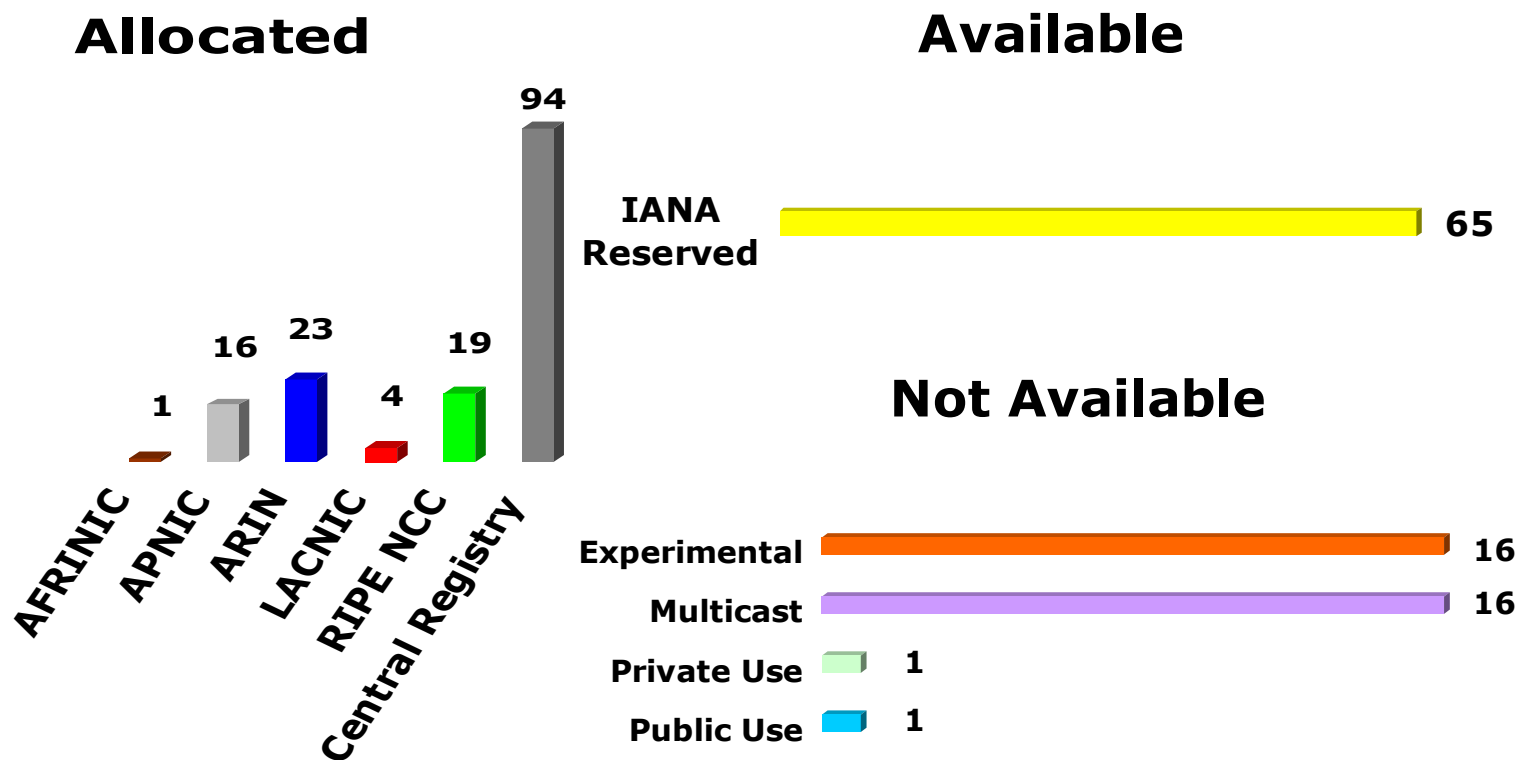
- Responded to Board WSIS Information Requests
- Apprise ICANN Staff of Global Policy Proposal status
- Review of Web Site
- Review of documents for translation
- Internal processes

- **Telephonic – Bi-Monthly**
- **Physical**
 - **APR 2006 – Istanbul [RIPE 52]**
 - **NOV 2006 – ICANN Latin America**

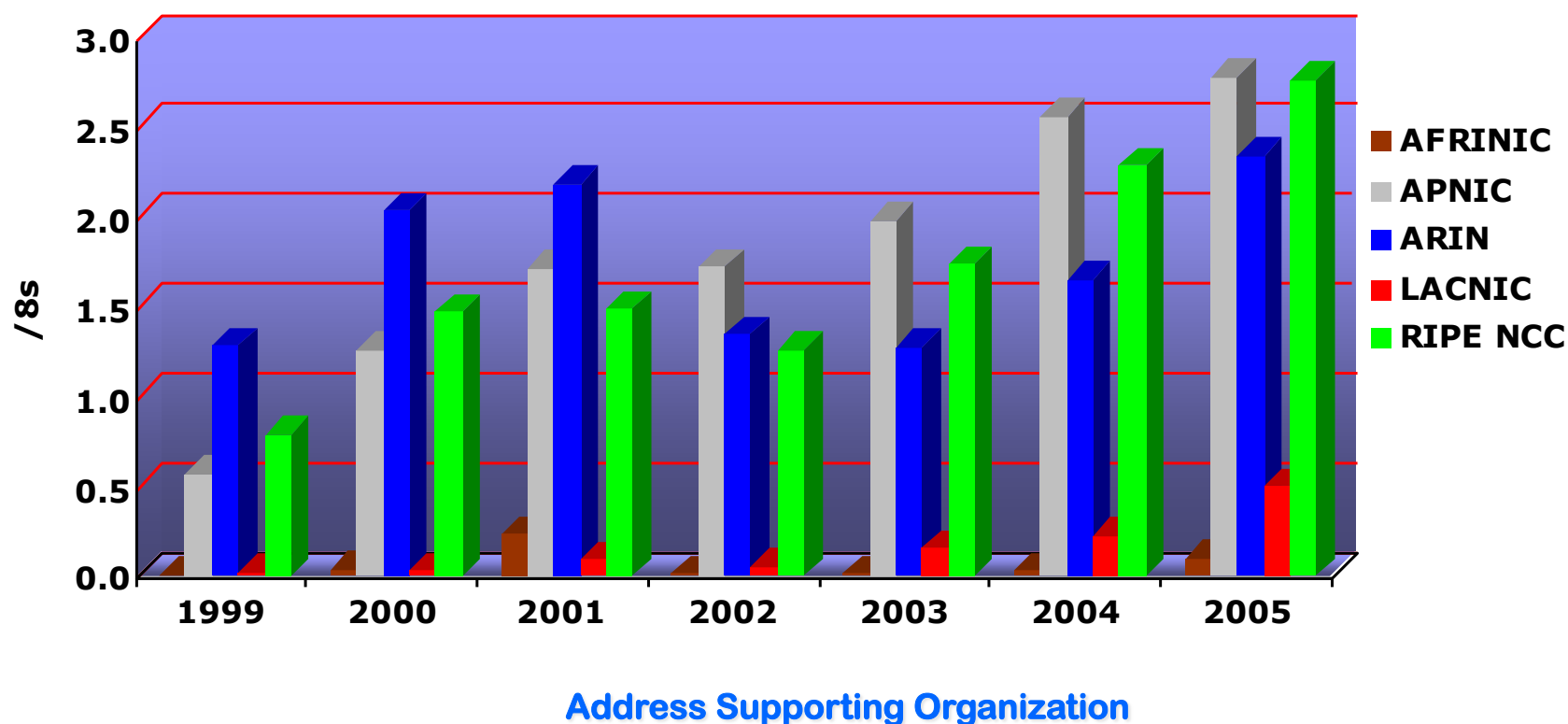
Internet Number Resource Status

As of 30 September 2005

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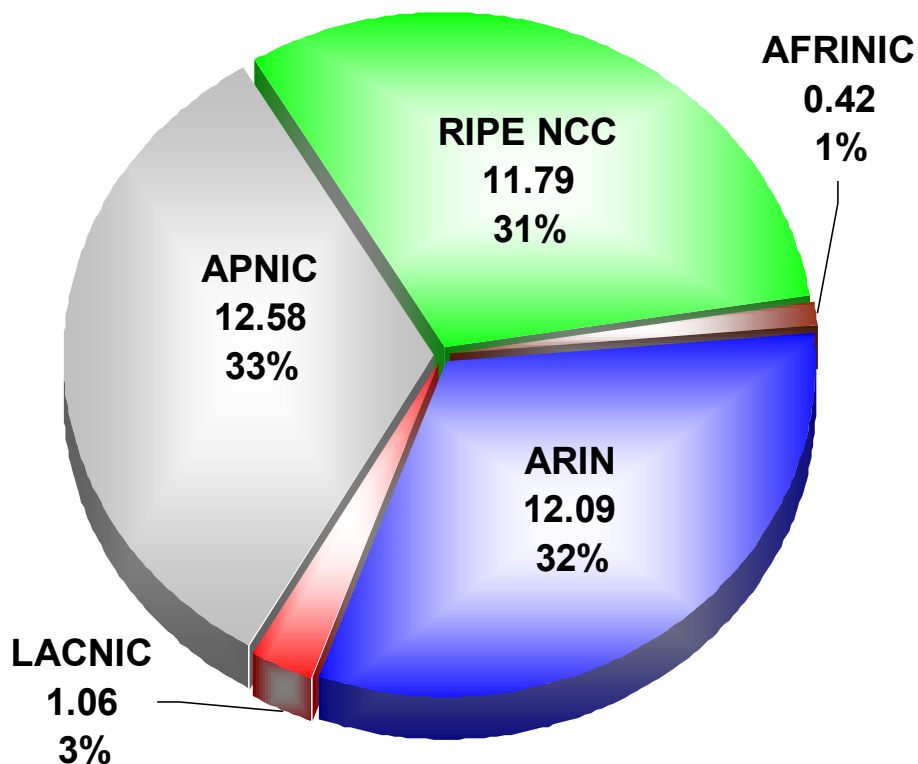


IPv4 Allocations RIRs to LIRs/ISPs Yearly Comparison (Jan 1999 – Sep 2005)



IPv4 Allocations RIRs to LIRs/ISPs

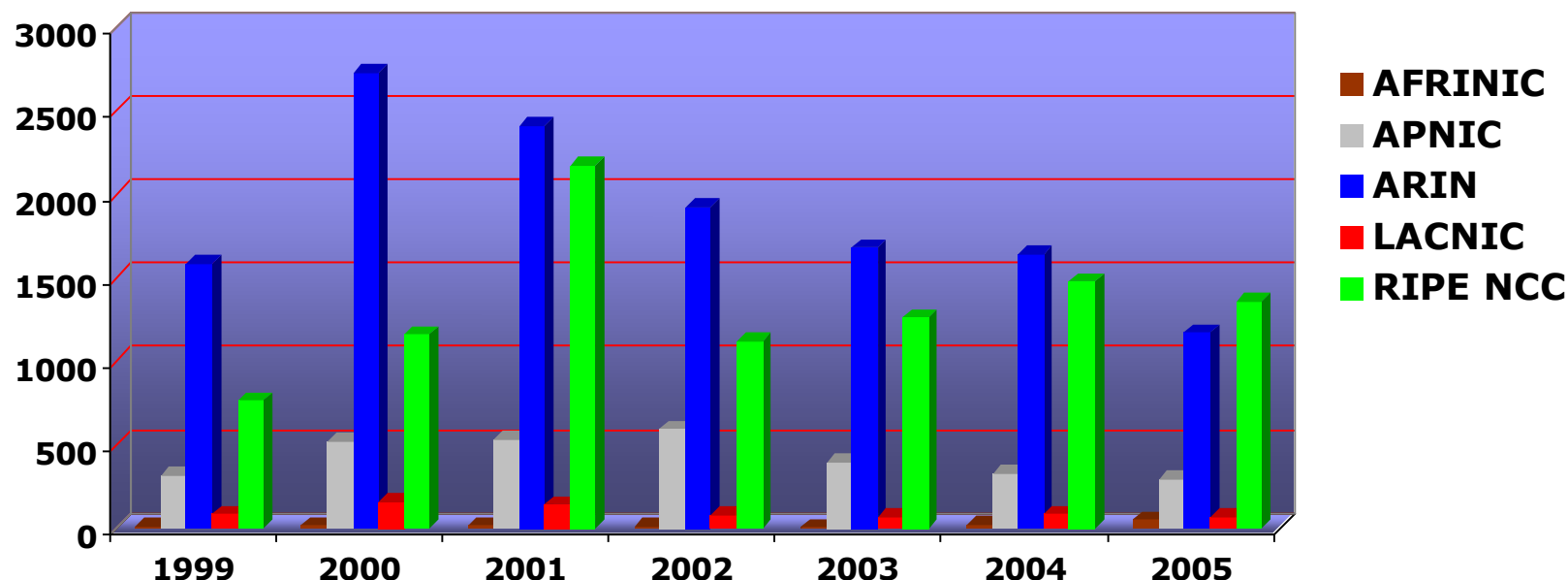
Cumulative Total (Jan 1999 – Sep 2005)



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ASN Assignments RIRs to LIRs/ISPs

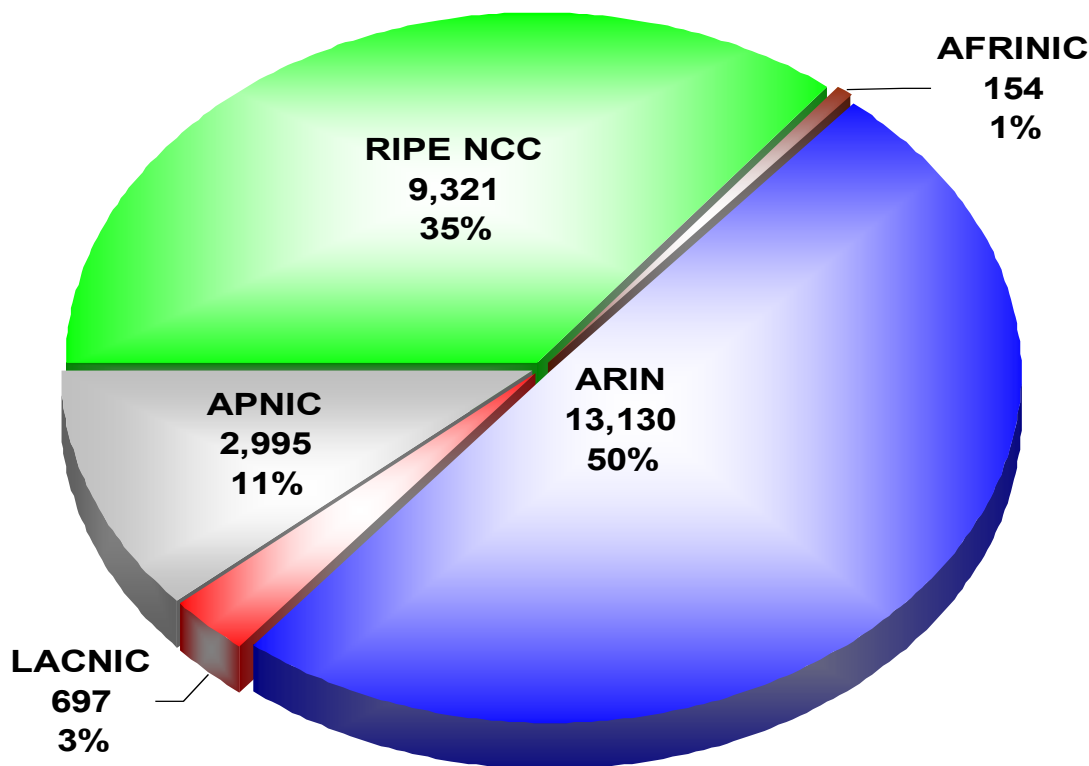
Yearly Comparison (Jan 1999 – Sep 2005)



Address Supporting Organization

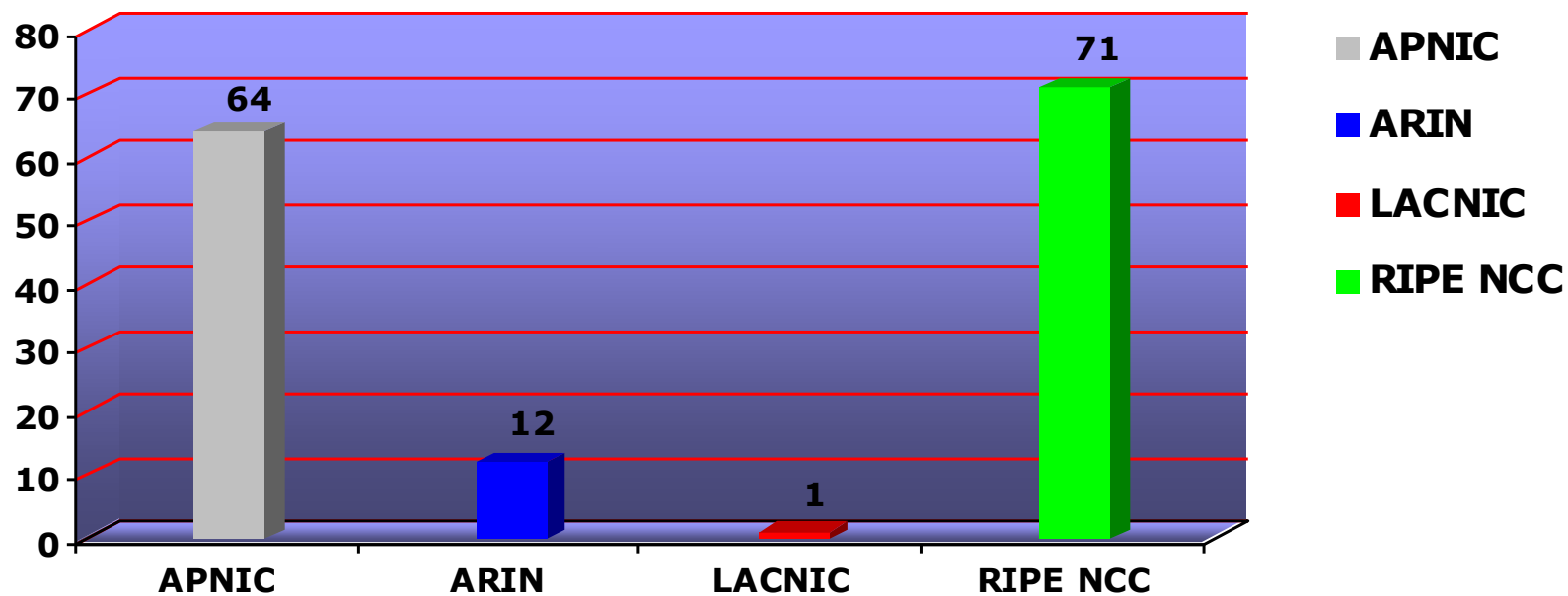
ASN Assignments RIRs to LIRs/ISPs

Cumulative Total (Jan 1999 – Sep 2005)



Address Supporting Organization

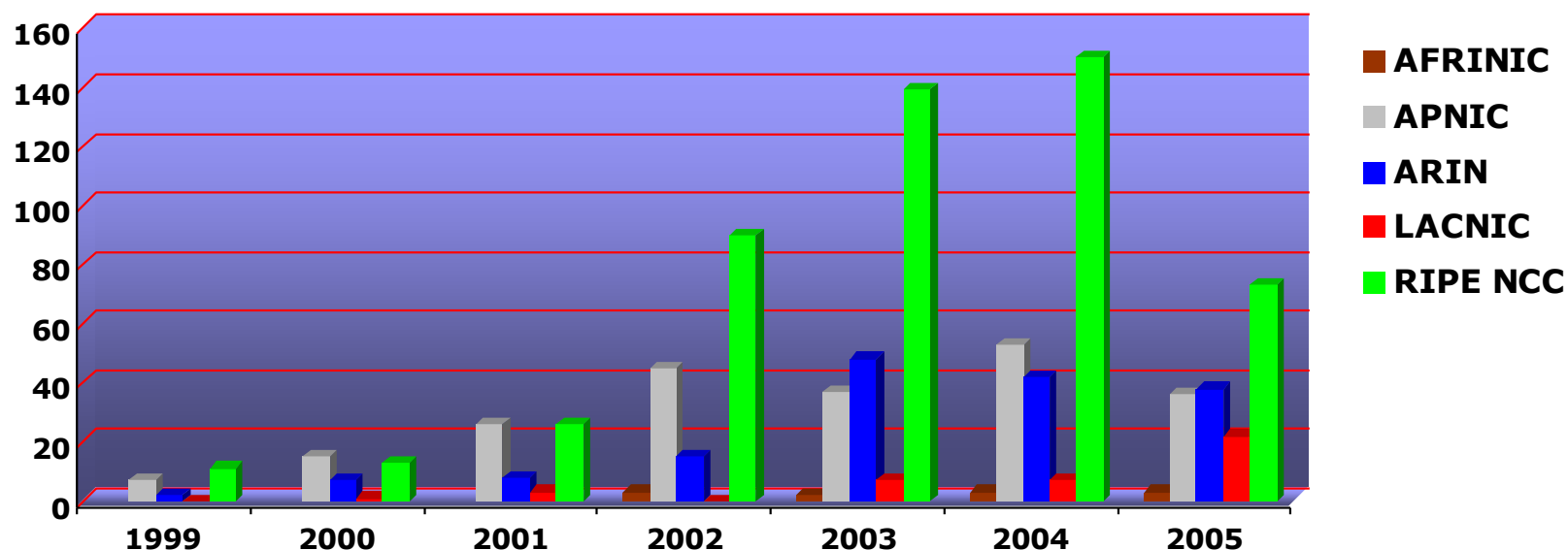
IANA IPv6 Allocations to RIRs (no of /23s)



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IPv6 Allocations RIRs to LIRs/ISPs

Yearly Comparison (Jan 1999 – Sep 2005)

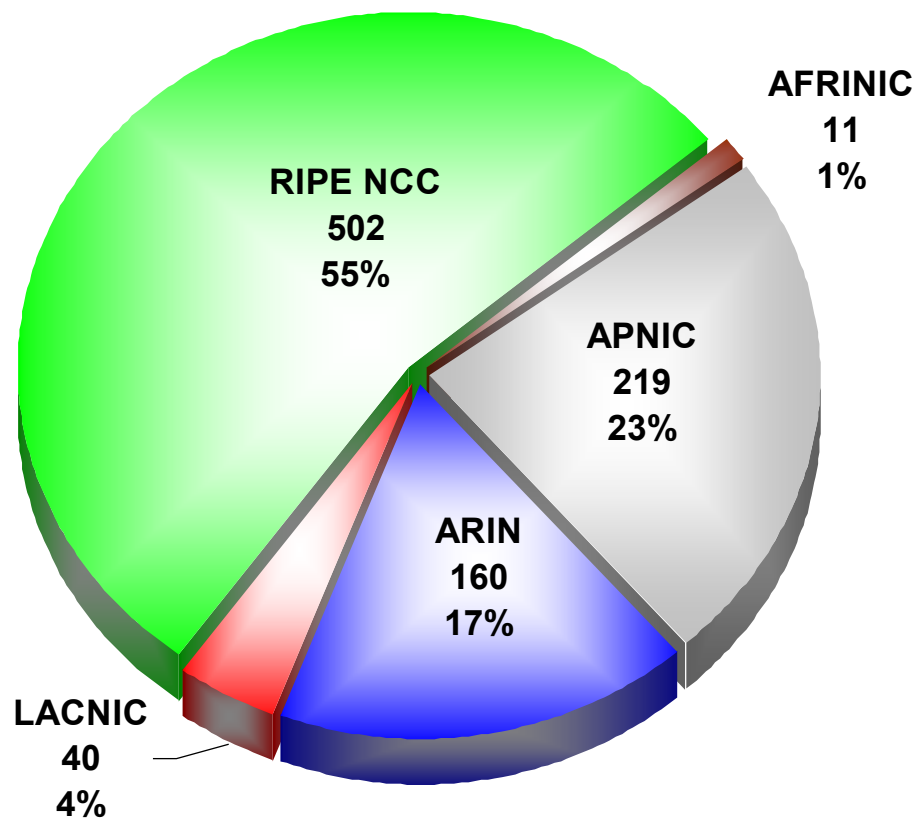


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IPv6 Allocations

RIRs to LIRs/ISPs

Cumulative Total (Jan 1999 – Sep 2005)








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Raw & Historical Data

<http://www.aso.icann.org/stats>

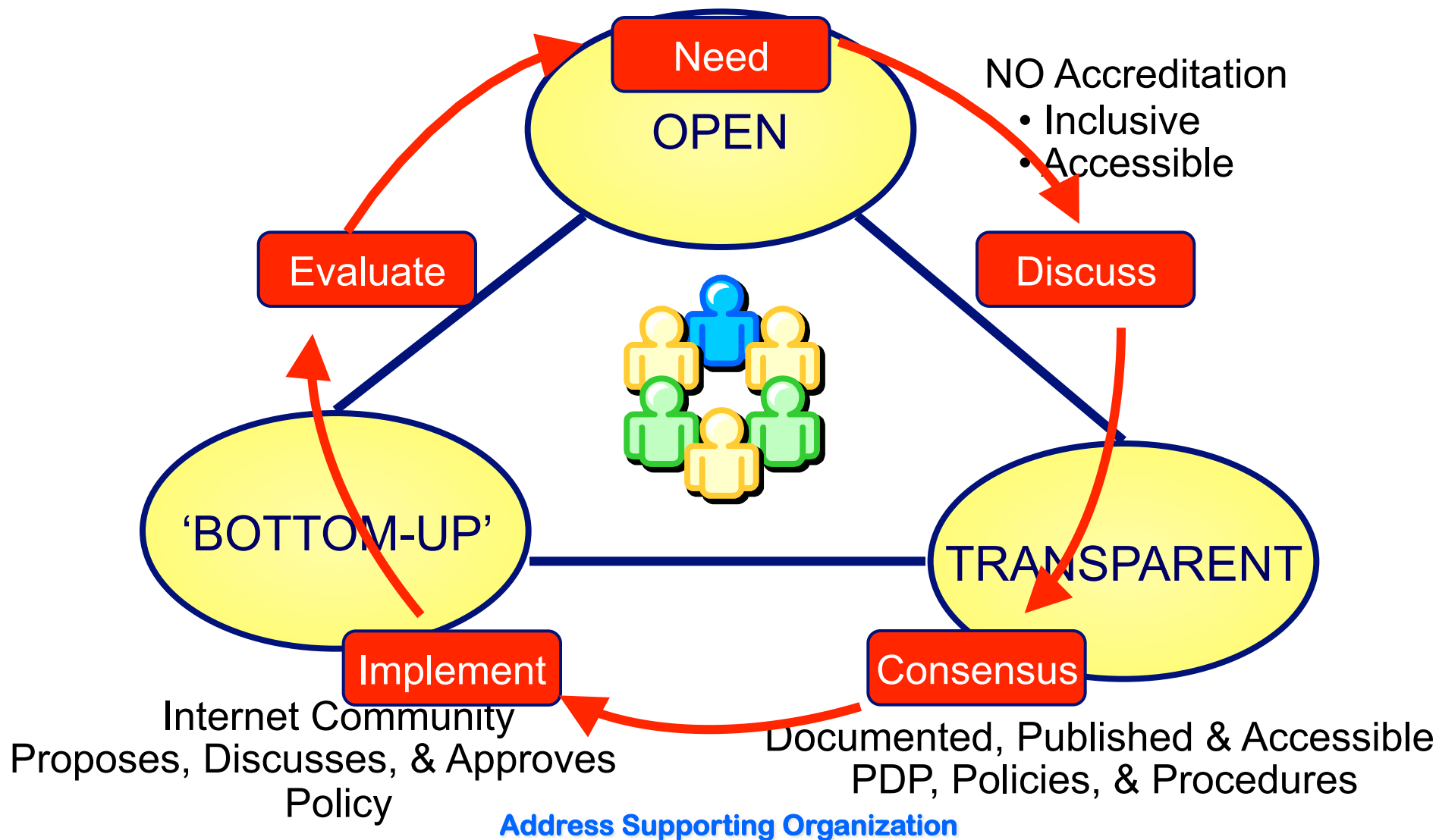
<http://www.iana.org/assignments/ipv4-address-space>

RIR	LINK
 The African registry for Internet Numbers	ftp://ftp.afrinic.net/pub/stats/afrinic
 APNIC	http://www.apnic.net/info/reports
 American Registry for Internet Numbers	http://www.arin.net/statistics
 LACNIC	http://www.lacnic.net/en/est.html
 RIPE NCC	http://www.ripe.net/info/stats Address Supporting Organization

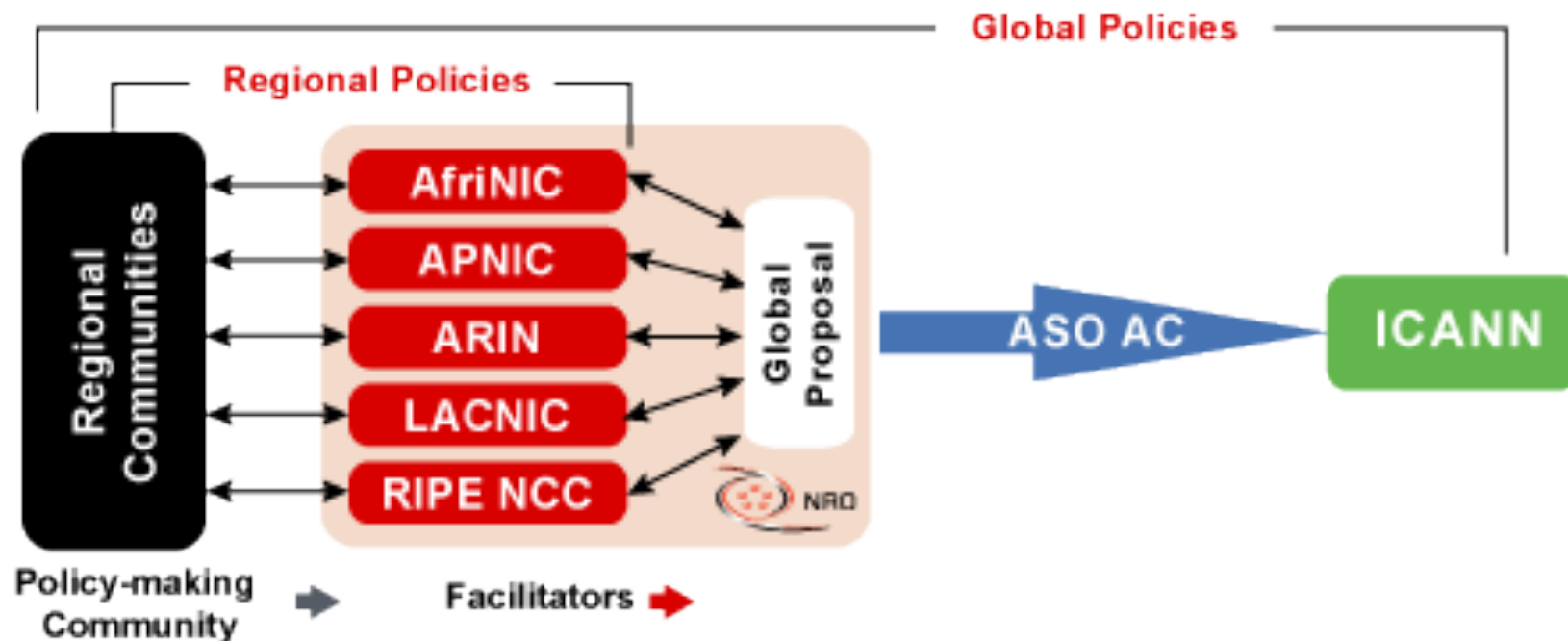
Policy Discussions

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RIR Policy Development Process (Predates ICANN PDP)



The Global PDP (Defined in ASO MoU)



Integrates RIR PDP with ICANN PDP






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Public Policy Meetings

RIR	DATE	LOCATION
 AfriNIC	12-14 December 2005	Cairo
 APNIC	28 February - 3 March 2006	Perth
 American Registry for Internet Numbers	9 – 12 April 2006	Montreal
	22 - 26 May 2006	Guatemala City
	24 – 28 April 2006	Istanbul






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Worldwide Look IPv4 Policy Discussions

RIR	TOPIC	STATUS
	<ul style="list-style-type: none"> • End User • Experimental 	<ul style="list-style-type: none"> • Discuss • Discuss
 APNIC	<ul style="list-style-type: none"> • HD Ratio 	<ul style="list-style-type: none"> • Discuss
 American Registry for Internet Numbers	<ul style="list-style-type: none"> • Address Space Exhaustion • Anycast Services • Multihoming Clarification 	<ul style="list-style-type: none"> • Topic • Abandon • Adopt
	<ul style="list-style-type: none"> • International ISPs 	<ul style="list-style-type: none"> • Discuss
	<ul style="list-style-type: none"> • Anycast Services • Address Space Exhaustion • HD Ratio 	<ul style="list-style-type: none"> • Discuss • Topic • Discuss

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Worldwide Look IPv6 Policy Discussions

RIR	TOPIC	STATUS
		
	<ul style="list-style-type: none"> • End Site Definition • HD Ratio 	<ul style="list-style-type: none"> • Abandon • Consensus
	<ul style="list-style-type: none"> • End Site Definition • HD Ratio • PI Allocation 	<ul style="list-style-type: none"> • Discuss • Adopt • Discuss
	<ul style="list-style-type: none"> • HD Ratio 	<ul style="list-style-type: none"> • Discuss
	<ul style="list-style-type: none"> • End Site Definition • HD Ratio • Number of Required Customers 	<ul style="list-style-type: none"> • Discuss • Discuss • Discuss

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Worldwide Look

Other Policy Discussions

RIR	TOPIC	STATUS
 AfriNIC	<ul style="list-style-type: none"> • AS Number 	<ul style="list-style-type: none"> • Discuss
 APNIC	<ul style="list-style-type: none"> • Deprecation of IP6.INT • Discrete Networks & Nat' l Peering 	<ul style="list-style-type: none"> • Adopt • Abandon
 ARIN American Registry for Internet Numbers	<ul style="list-style-type: none"> • AfriNIC Allocation • Deprecation of IP6.INT • Directory Service Requirements 	<ul style="list-style-type: none"> • Adopt • Topic • Topic
 LACNIC	<ul style="list-style-type: none"> • Unused Number Resource Recovery 	<ul style="list-style-type: none"> • Discuss
 RIPE NCC	<ul style="list-style-type: none"> • AfriNIC Allocation • Deprecation of IP6.INT • DNSSEC 	<ul style="list-style-type: none"> • Consensus • Topic • Last Call

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IANA to RIR IPv6 Policy

Overview

- What is the proposed policy?
- Is it fair?
- What is the history of this policy?
- What is the current status?

What is the Proposed Policy?

Minimum Allocation*	Allocation Criteria	New RIR Allocation	Announcements
= 18 Months of Necessary Space	Available Space: < 50% of 1 Allocation Unit	/12 Regardless of Utilization or Transferred Space	IANA, NRO, RIRs will: <ul style="list-style-type: none">• Make Announcements• Update Websites
Unit Size: /12*	<u>OR</u> Available Space is < 9 Month Necessary Space		
	<u>OR</u> Special Need Exists		

***Upon policy inception, each RIR receives a /12 if it has < /12 on hand.**

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Is it Fair?

Factor Analysis


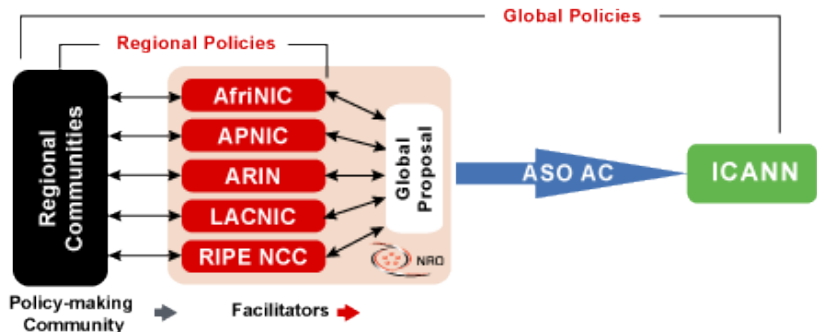





Factor	Minimum Allocation	Allocation Criteria
Conservation	X	X
Aggregation	X	
Unique	X	X
Neutral	X	X
Impartial	X	X
Consistent	X	X
Accountability		X

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What is the History Of This Policy?

Need	<ul style="list-style-type: none">• Current policy promulgated by IETF in 1999• Precedes global PDP
Discuss	<ul style="list-style-type: none">• Discussed all regions on mailing lists• Discussed in 4 of 5 Regional Fora
Consensus	<ul style="list-style-type: none">• Reached in all RIRs where discussed in policy meetings
Implement	<ul style="list-style-type: none">• Impact Analysis• Liability Analysis
Evaluate	<ul style="list-style-type: none">• Enabled by Statistical Collection

What is the Status?

RIR	IANA to RIR IPv6 Allocation	STATUS
		• Discuss
		• Adopt
		• Adopt
		• Adopt
		• Adopt*
		• 1 QTR 2006

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RIR	LINK
 AfriNIC	http://www.afrinic.net/policy.htm
 APNIC	http://www.apnic.net/docs/policy/proposals/archive.html
 American Registry for Internet Numbers	http://www.arin.net/policy/proposals/proposal_archive.html
 LACNIC	http://lacnic.net/en/politicas/desarrollo.html
 RIPE NCC	http://www.ripe.net/ripe/policies/proposals/

ASO

Links



<http://aso.icann.org>



<http://www.nro.net>



<http://www.afrinic.net>



<http://www.apnic.net>



<http://www.arin.net>



<http://www.lacnic.net>



<http://www.ripe.net>

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Thank You

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