Slide 1

NRO

Number Resource Organization

Slide 2

NRO

INTERNET NUMBER RESOURCE STATUS REPORT

As of 31 December 2010

Prepared by
Regional Internet Registries
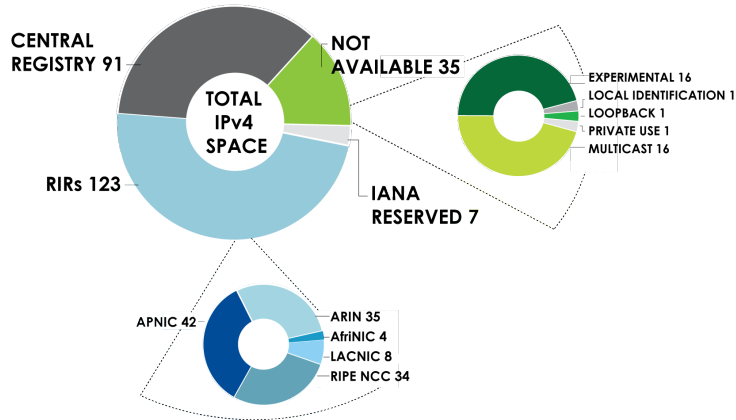**AfriNIC, APNIC, ARIN, LACNIC and the RIPE NCC**

Number Resource Organization

Slide 3

NRO

IPv4 ADDRESS SPACE
What is the status of each of the 256 /8s?

STATUS OF 256 /8s IPv4 ADDRESS SPACE

CENTRAL REGISTRY 91

NOT AVAILABLE 35

TOTAL IPv4 SPACE

EXPERIMENTAL 16
LOCAL IDENTIFICATION 1
LOOPBACK 1
PRIVATE USE 1
MULTICAST 16

RIRs 123

IANA RESERVED 7

APNIC 42
AfriNIC 4
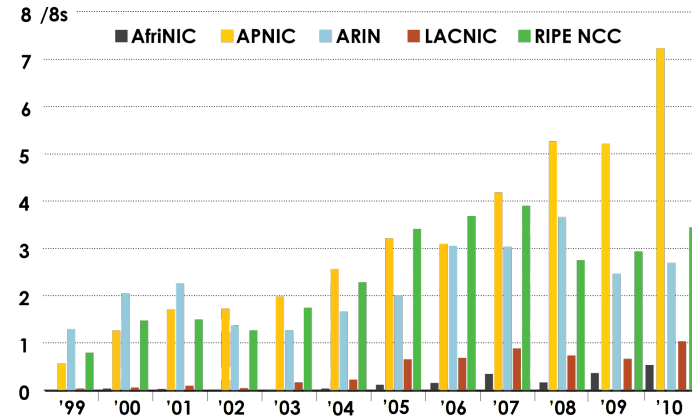LACNIC 8
RIPE NCC 34
ARIN 35

Number Resource Organization

Slide 4

NRO

IPv4 ADDRESS SPACE ISSUED
(RIRs TO CUSTOMERS)
In terms of /8s, how much space did each RIR issue by year?

8 /8s

■ AfriNIC ■ APNIC ■ ARIN ■ LACNIC ■ RIPE NCC
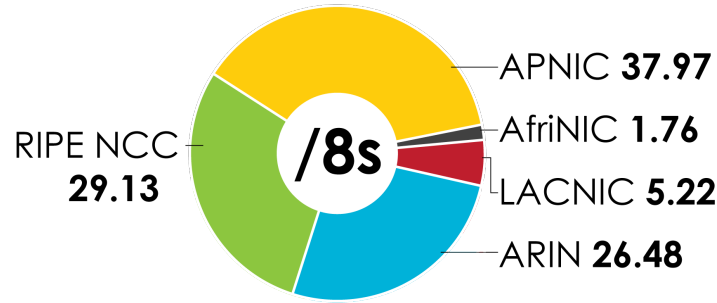
'99 '00 '01 '02 '03 '04 '05 '06 '07 '08 '09 '10

Number Resource Organization

IPv4 ADDRESS SPACE ISSUED
(RIRs TO CUSTOMERS)
In terms of /8s, how much total space has each RIR issued?
(Jan 1999 – Dec 2010)

/8s

APNIC **37.97**
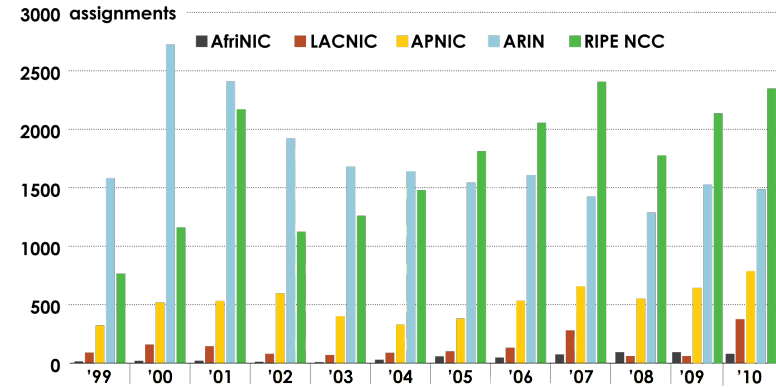AfriNIC **1.76**
LACNIC **5.22**
ARIN **26.48**
RIPE NCC **29.13**

December 2010   Internet Number Resource Report

ASN ASSIGNMENTS (RIRs TO CUSTOMERS)
How many ASNs has each RIR assigned by year?

3000 assignments

■ AfriNIC ■ LACNIC ■ APNIC ■ ARIN ■ RIPE NCC

2500
2000
1500
1000
500
0

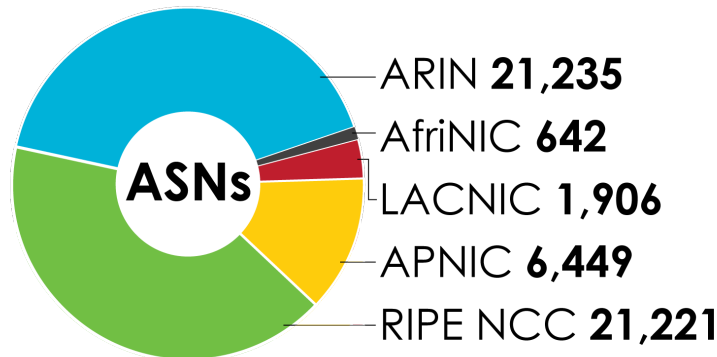'99 '00 '01 '02 '03 '04 '05 '06 '07 '08 '09 '10

December 2010   Internet Number Resource Report

ASN ASSIGNMENTS (RIRs TO CUSTOMERS)
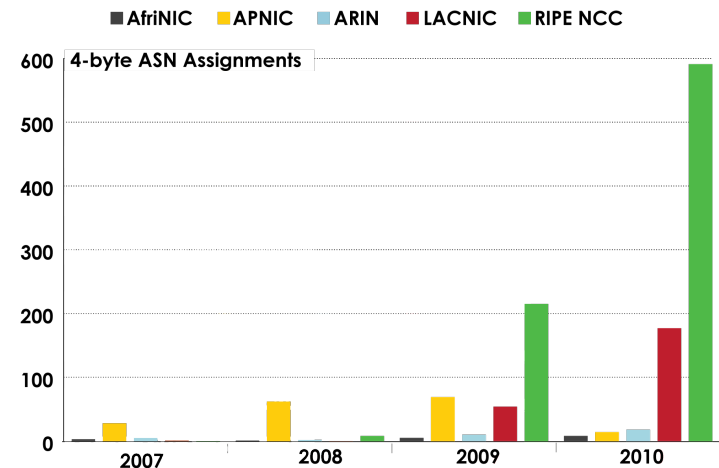How many total ASNs has each RIR assigned?
(Jan 1999 – Dec 2010)

ASNs

ARIN **21,235**
AfriNIC **642**
LACNIC **1,906**
APNIC **6,449**
RIPE NCC **21,221**

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4-BYTE ASN ASSIGNMENTS
How many 4-byte ASNs has each RIR assigned by year?

■ AfriNIC ■ APNIC ■ ARIN ■ LACNIC ■ RIPE NCC

600   4-byte ASN Assignments
500
400
300
200
100
0

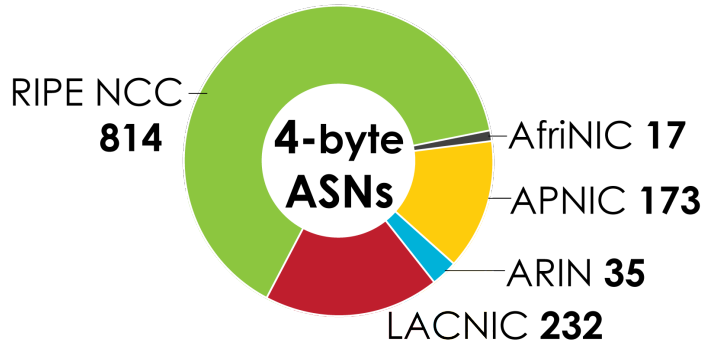2007   2008   2009   2010

December 2010   Internet Number Resource Report

4-BYTE ASN ASSIGNMENTS
How many total 4-byte ASNs has each RIR assigned?
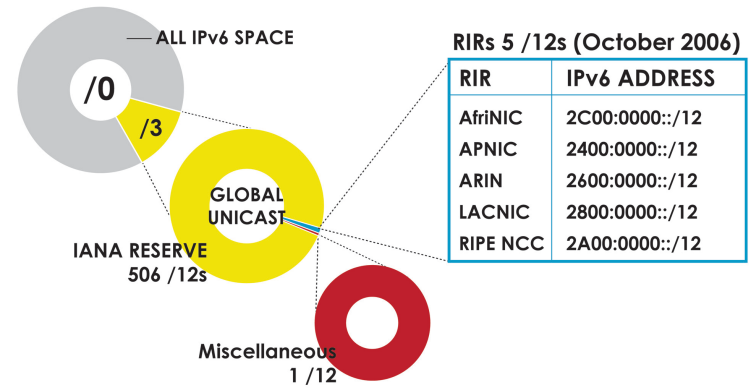### (Jan 2007 – Dec 2010)

RIPE NCC **814**
AfriNIC **17**
APNIC **173**
ARIN **35**
LACNIC **232**

4-byte ASNs

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IPv6 ADDRESS SPACE
How much has been allocated to the RIRs?

ALL IPv6 SPACE
/0
/3
GLOBAL UNICAST
IANA RESERVE 506 /12s
Miscellaneous 1 /12

RIRs 5 /12s (October 2006)

RIR	IPv6 ADDRESS
AfriNIC	2C00:0000::/12
APNIC	2400:0000::/12
ARIN	2600:0000::/12
LACNIC	2800:0000::/12
RIPE NCC	2A00:0000::/12

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IPv6 Allocations RIRs to LIRs/ISPs
How many allocations have been made by each RIR by year?
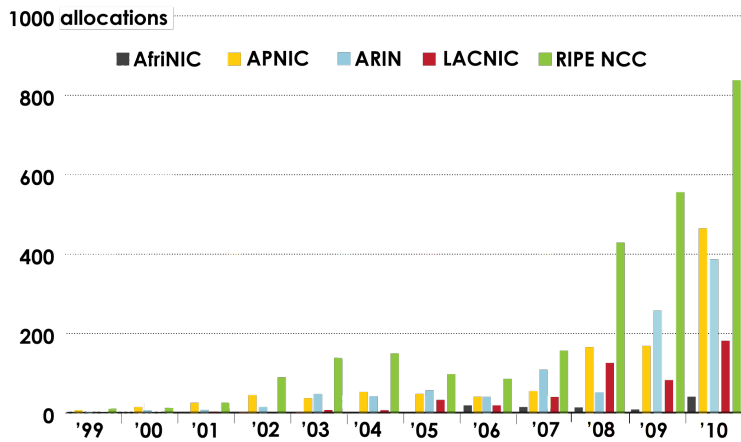
1000 allocations

■ AfriNIC ■ APNIC ■ ARIN ■ LACNIC ■ RIPE NCC

800
600
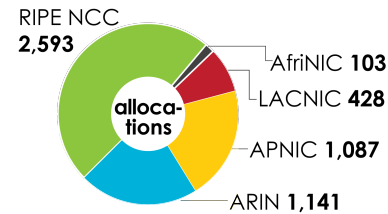400
200
0
'99 '00 '01 '02 '03 '04 '05 '06 '07 '08 '09 '10

Number Resource Organization

IPv6 ALLOCATIONS RIRs to LIRs/ISPs
(Jan 1999 – Dec 2010)

How many total allocations have been made by each RIR?

RIPE NCC **2,593**
AfriNIC **103**
LACNIC **428**
APNIC **1,087**
ARIN **1,141**

allocations

In terms of /32s, how much total space has each RIR allocated?
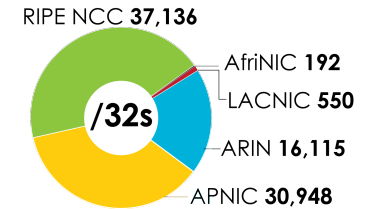
RIPE NCC **37,136**
AfriNIC **192**
LACNIC **550**
ARIN **16,115**
APNIC **30,948**

/32s

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IPV6 ASSIGNMENTS RIRS TO END-USERS
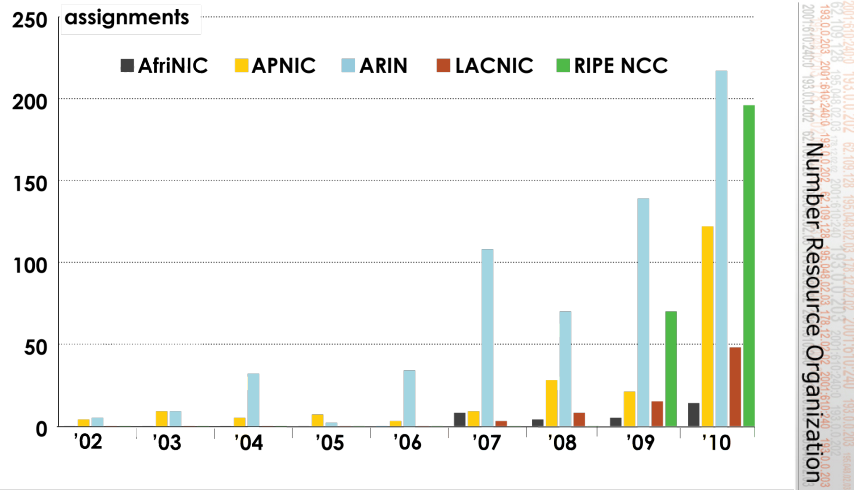
LINKS TO RIR STATISTICS

- RIR Stats:
   www.nro.net/statistics

- Raw Data/Historical RIR Allocations:
   www.aso.icann.org/stats
   www.iana.org/assignments/ipv4-address-space
   www.iana.org/assignments/as-numbers
   www.iana.org/assignments/ipv6-unicast-address-assignments

thank you