



2001:610:240:0 193.0.0.202 62.109.128 195.048.02.03 178.12.02.02 2001:610:240 193.0.0.203 195.048.02.03  
62.109.128 195.048.02.03 2001:610:240 193.0.0.203 2001:610:240:0 193.0.0.202  
193.0.0.203 2001:610:240:0 193.0.0.202 62.109.128 195.048.02.03 178.12.02.02 2001:610:240 193.0.0.203  
2001:610:240:0 193.0.0.202 62.109.128 195.048.02.03 178.12.02.02 2001:610:240 193.0.0.203  
2001:610:240:0 193.0.0.202 62.109.128 195.048.02.03 178.12.02.02 2001:610:240 193.0.0.203

Number Resource Organization



# INTERNET NUMBER RESOURCE STATUS REPORT

As of 30 September 2011

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

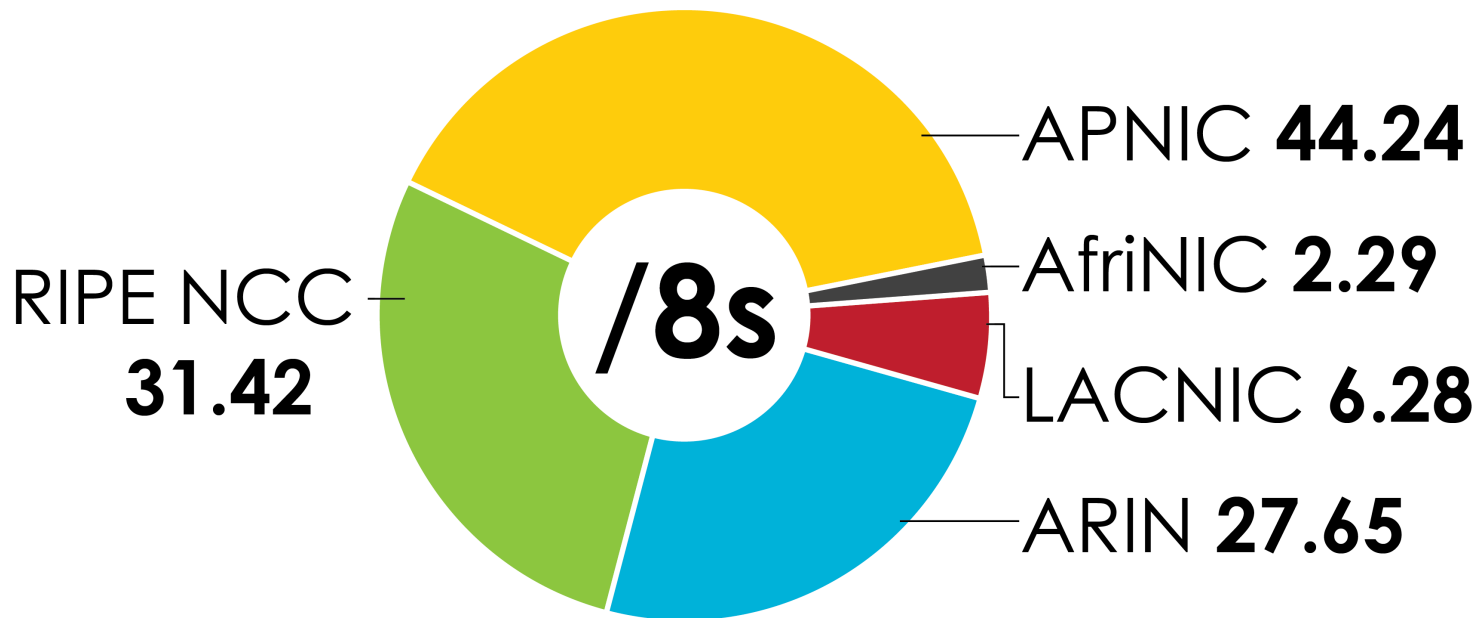
2001:610:240:0-193:0:0:202 62:109:128 195:048:02:03 178:42:02:02 2001:610:240 193:0:0:203 195:048:02:03  
62:109:128 195:048:02:03 2001:610:240 193:0:0:202 62:109:128 195:048:02:03 178:42:02:02 2001:610:240 193:0:0:203 195:048:02:03  
193:0:0:203 2001:610:240:0-193:0:0:202 62:109:128 195:048:02:03 178:42:02:02 2001:610:240 193:0:0:203 195:048:02:03  
2001:610:240:0-193:0:0:202 62:109:128 195:048:02:03 178:42:02:02 2001:610:240 193:0:0:203 195:048:02:03  
Number Resource Organization





# IPv4 ADDRESS SPACE ISSUED (RIRs TO CUSTOMERS)

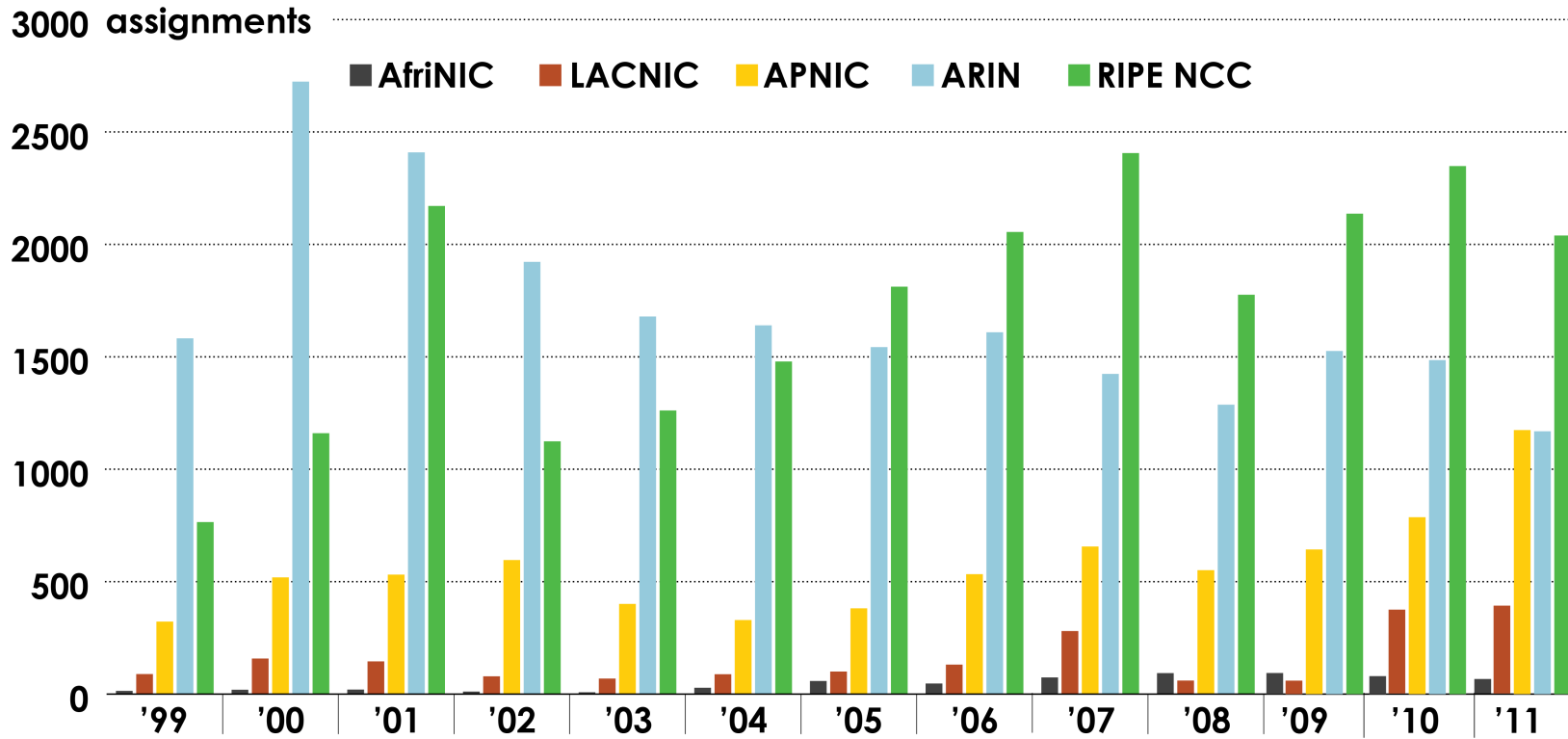
In terms of /8s, how much total space has each RIR issued?  
(Jan 1999 – Sept 2011)



2001:610:240:0-193:0:0:202 62:109:128 195:048:02:03 178:12:02:02 2001:610:240 193:0:0:203 195:048:02:03  
 62:109:128 195:048:02:03 2001:610:240 193:0:0:202 62:109:128 195:048:02:03 178:12:02:02 2001:610:240 193:0:0:203  
 193:0:0:203 2001:610:240:0-193:0:0:202 62:109:128 195:048:02:03 178:12:02:02 2001:610:240 193:0:0:203  
 2001:610:240:0-193:0:0:202 62:109:128 195:048:02:03 178:12:02:02 2001:610:240 193:0:0:203 195:048:02:03  
 Number Resource Organization

# ASN ASSIGNMENTS (RIRs TO CUSTOMERS)

How many ASNs has each RIR assigned by year?

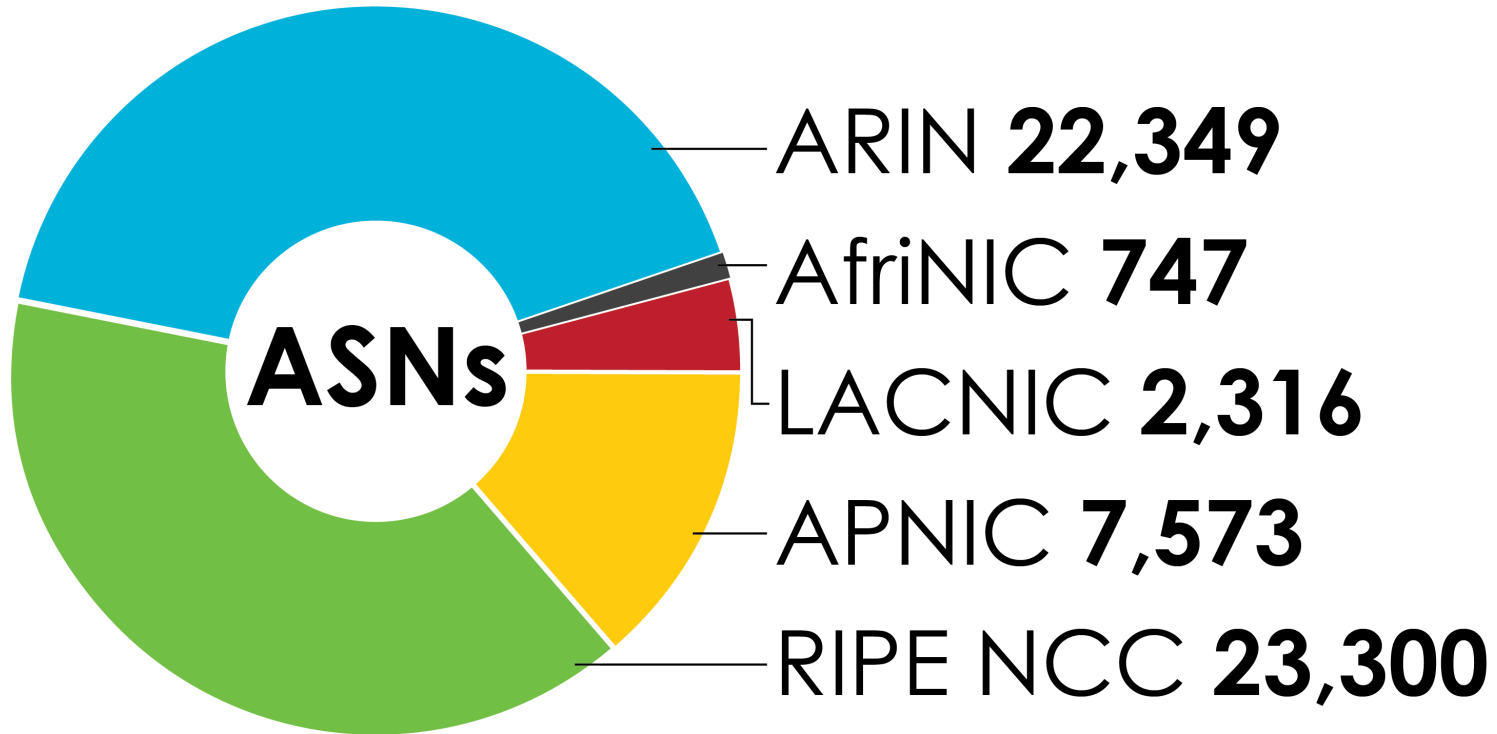


2001:610:240:0-1933:0:0:202 62:109:128 195:048:02:03 178:12:02:02 2001:610:240 193:0:0:203 195:048:02:03  
 62:109:128 195:048:02:03 2001:610:240 193:0:0:202 62:109:128 195:048:02:03 178:12:02:02 2001:610:240 193:0:0:203 195:048:02:03  
 193:0:0:203 2001:610:240:0-193:0:0:202 62:109:128 195:048:02:03 178:12:02:02 2001:610:240 193:0:0:202 62:109:128 195:048:02:03  
 2001:610:240:0-193:0:0:202 62:109:128 195:048:02:03 178:12:02:02 2001:610:240 193:0:0:203 195:048:02:03  
 Number Resource Organization

# ASN ASSIGNMENTS (RIRs TO CUSTOMERS)

How many total ASNs has each RIR assigned?

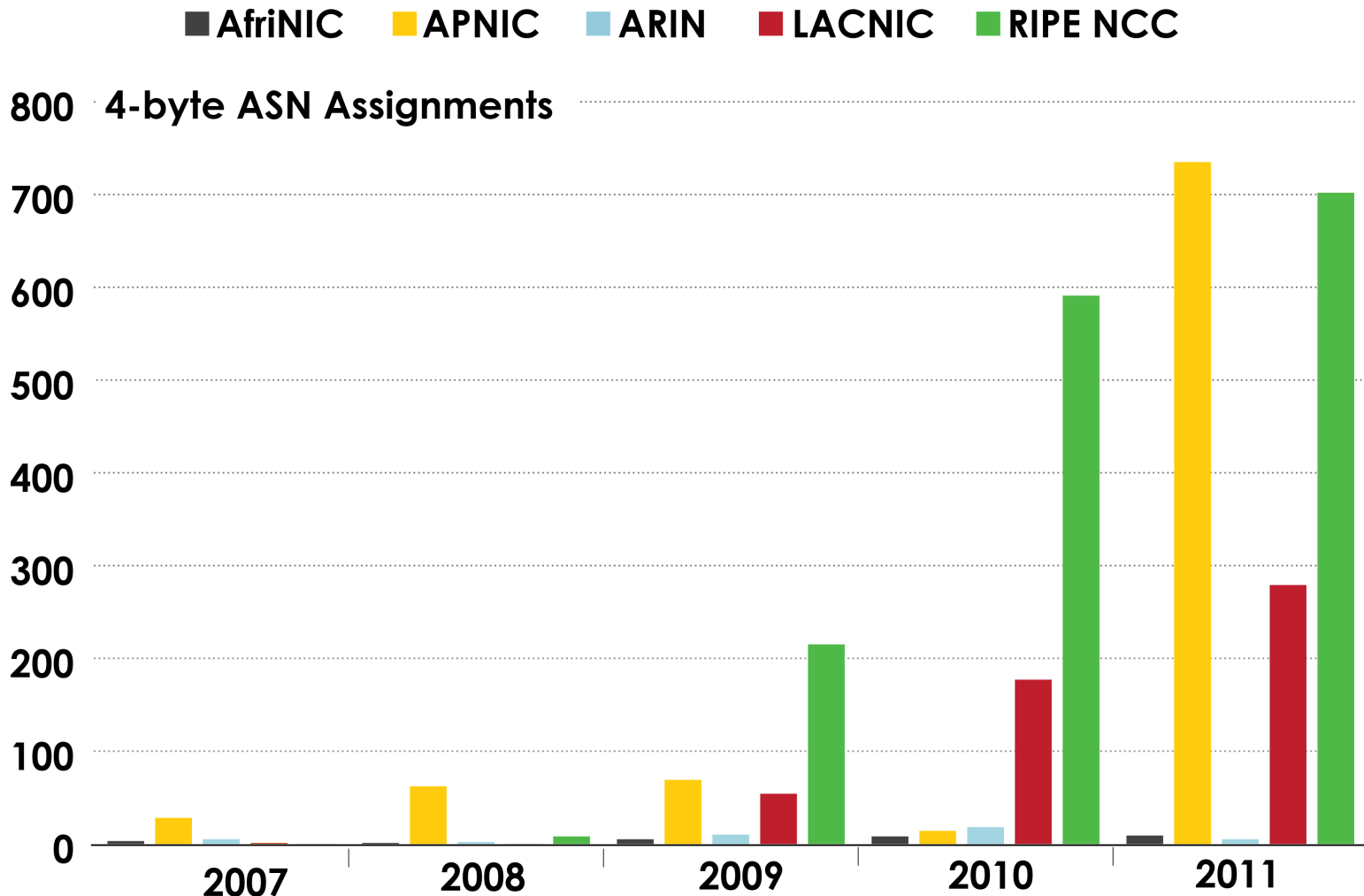
(Jan 1999 – Sept 2011)



2001:610:240:0-193:0:0:202 62:109:128 195:048:02:03 178:42:02:02 2001:610:240 193:0:0:203 195:048:02:03  
 62:109:128 195:048:02:03 2001:610:240 193:0:0:202 62:109:128 195:048:02:03 178:42:02:02 2001:610:240 193:0:0:203  
 193:0:0:203 2001:610:240:0-193:0:0:202 62:109:128 195:048:02:03 178:42:02:02 2001:610:240 193:0:0:203  
 2001:610:240:0-193:0:0:202 62:109:128 195:048:02:03 178:42:02:02 2001:610:240 193:0:0:203 195:048:02:03  
 Number Resource Organization

# 4-BYTE ASN ASSIGNMENTS

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

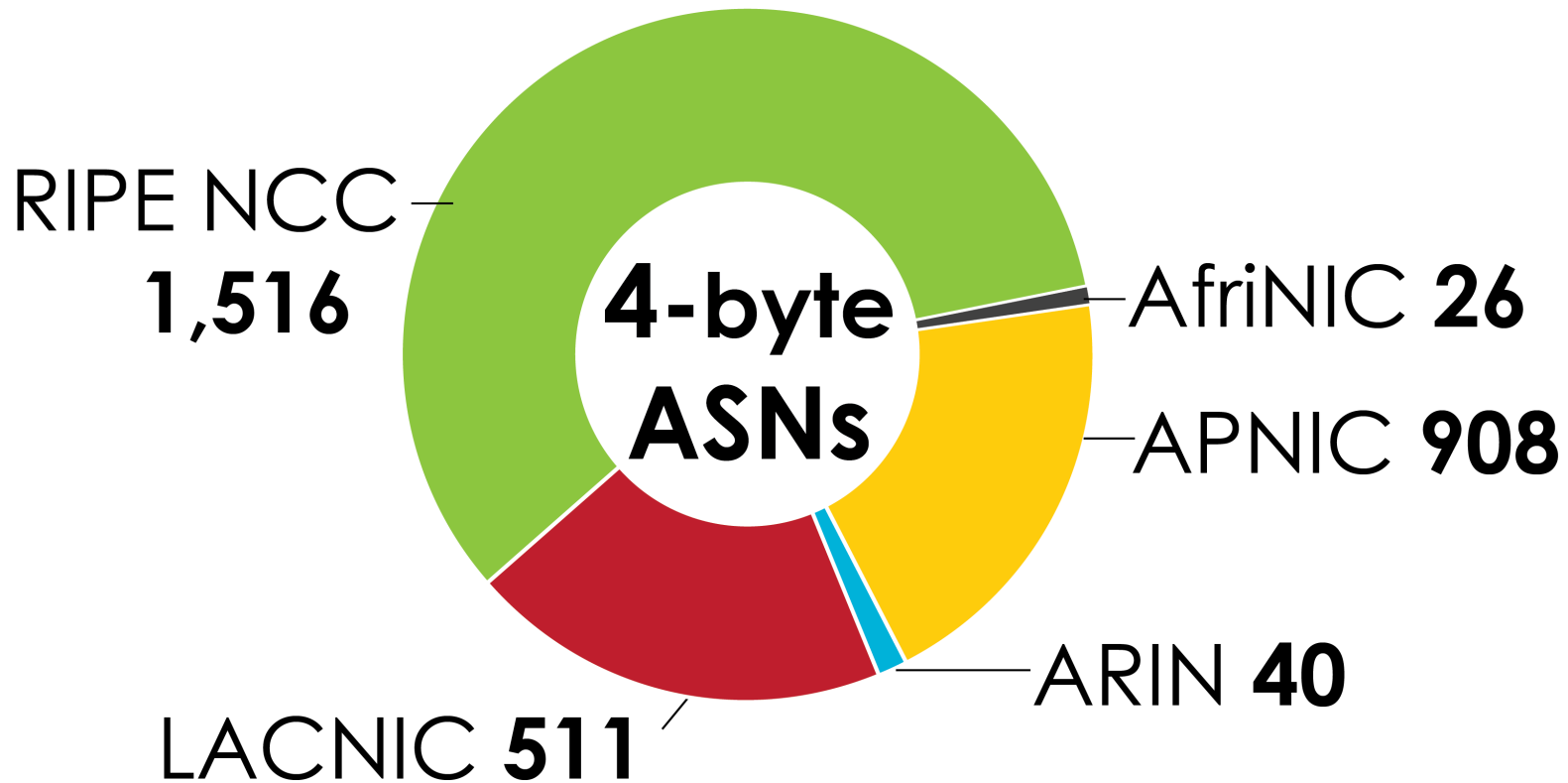


2001:610:240:0-193:0:0:202 62:109:128 195:048:02:03 178:42:02:02 2001:610:240 193:0:0:203 195:048:02:03  
 62:109:128 195:048:02:03 2001:610:240 193:0:0:202 62:109:128 195:048:02:03 178:42:02:02 2001:610:240 193:0:0:203  
 193:0:0:203 2001:610:240:0-193:0:0:202 62:109:128 195:048:02:03 178:42:02:02 2001:610:240 193:0:0:203  
 2001:610:240:0-193:0:0:202 62:109:128 195:048:02:03 178:42:02:02 2001:610:240 193:0:0:203 195:048:02:03  
 Number Resource Organization



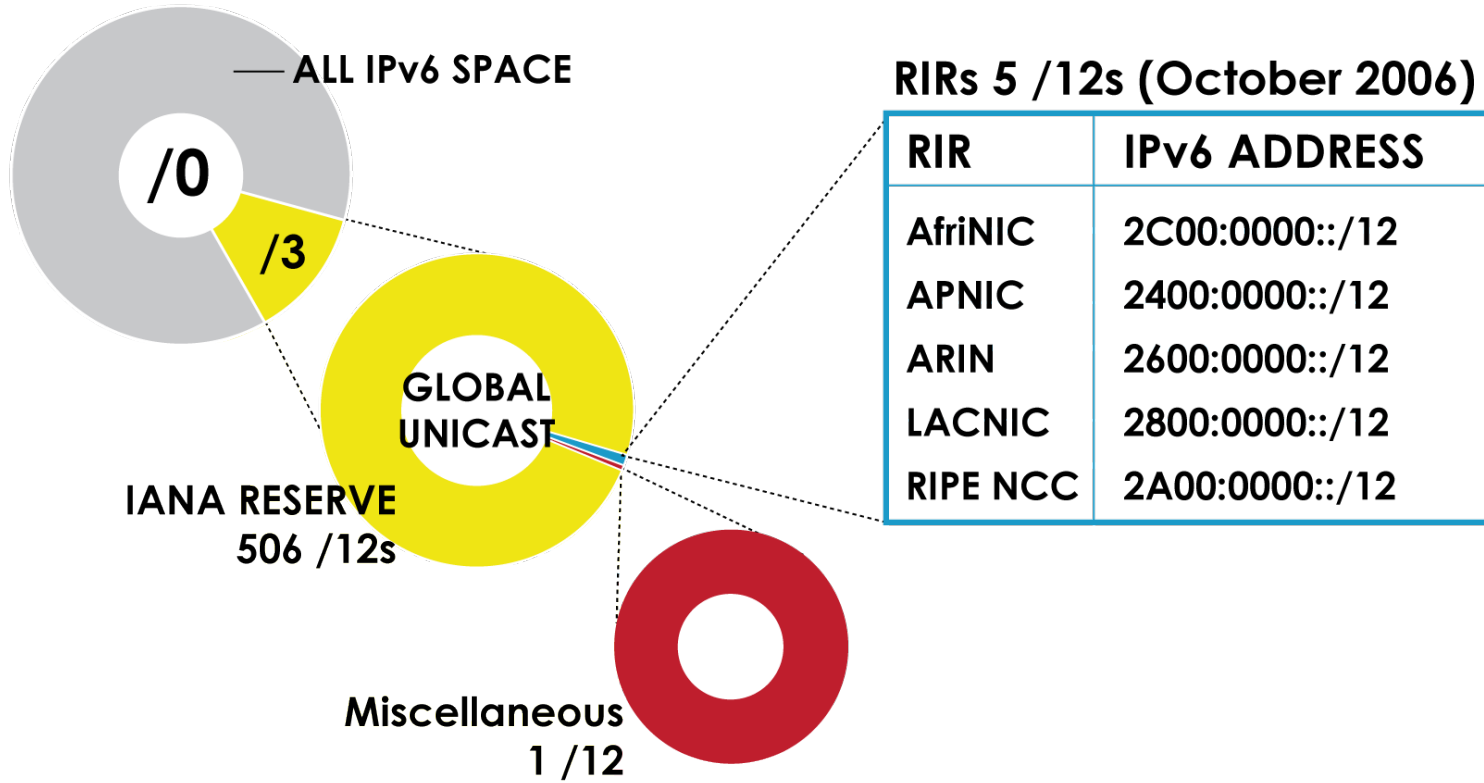
# 4-BYTE ASN ASSIGNMENTS

How many total 4-byte ASNs has each RIR assigned?  
(Jan 2007 – Sept 2011)



# IPv6 ADDRESS SPACE

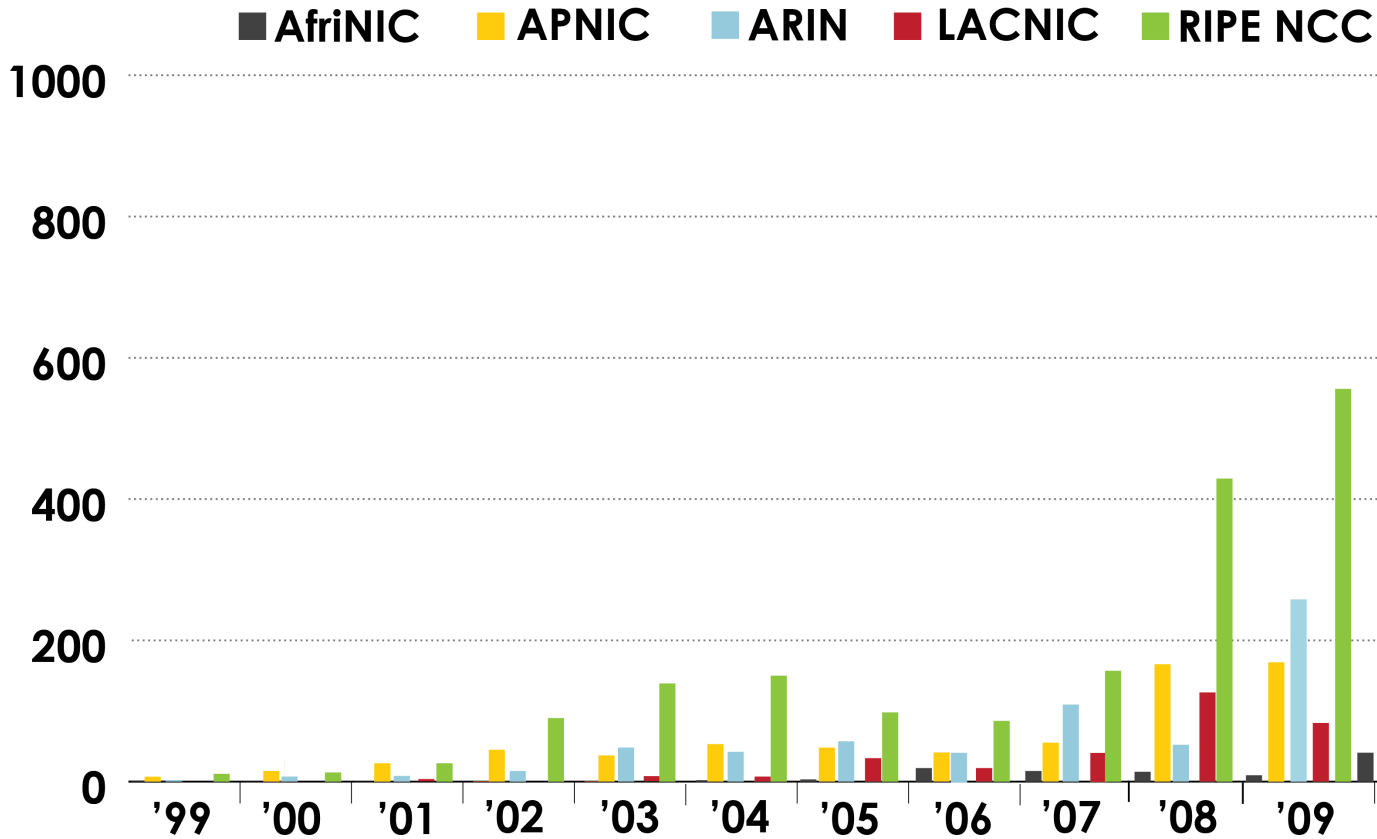
How much has been allocated to the RIRs?



# IPv6 Allocations RIRs to LIRs/ISPs

How many allocations have been made by each RIR by year?

1200 allocations



2001:610:240:0-193:0:0:202 62:109:128-195:048:02:03 178:42:02:02 2001:610:240 193:0:0:203 195:048:02:03 62:109:128 195:048:02:03 193:0:0:202 193:0:0:203 2001:610:240:0-193:0:0:202 62:109:128-195:048:02:03 178:42:02:02 2001:610:240 193:0:0:203 2001:610:240:0-193:0:0:202 62:109:128-195:048:02:03 178:42:02:02 2001:610:240 193:0:0:203 2001:610:240:0-193:0:0:202 62:109:128-195:048:02:03 178:42:02:02 2001:610:240 193:0:0:203

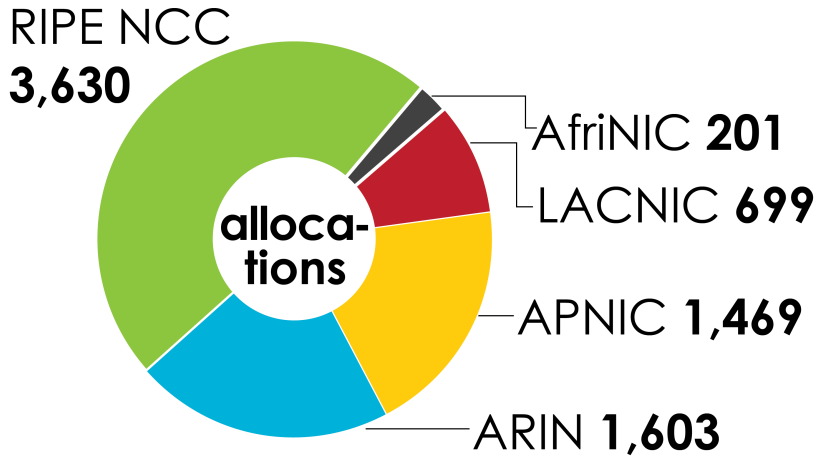
Number Resource Organization



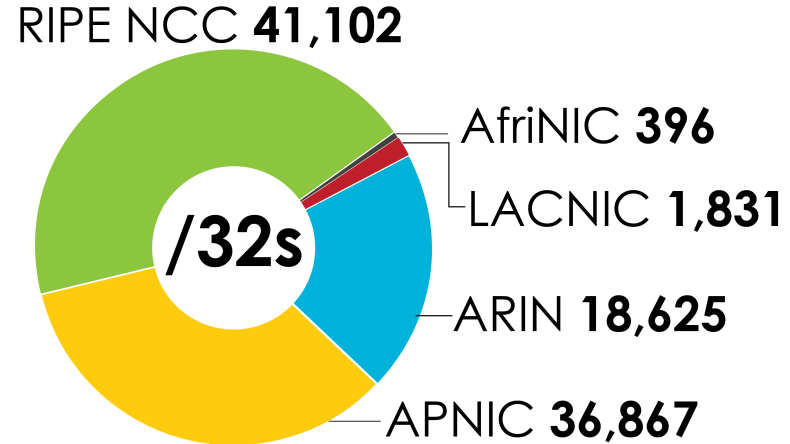
# IPv6 ALLOCATIONS RIRs to LIRs/ISPs

(Jan 1999 – Sept 2011)

How many total allocations have been made by each RIR?

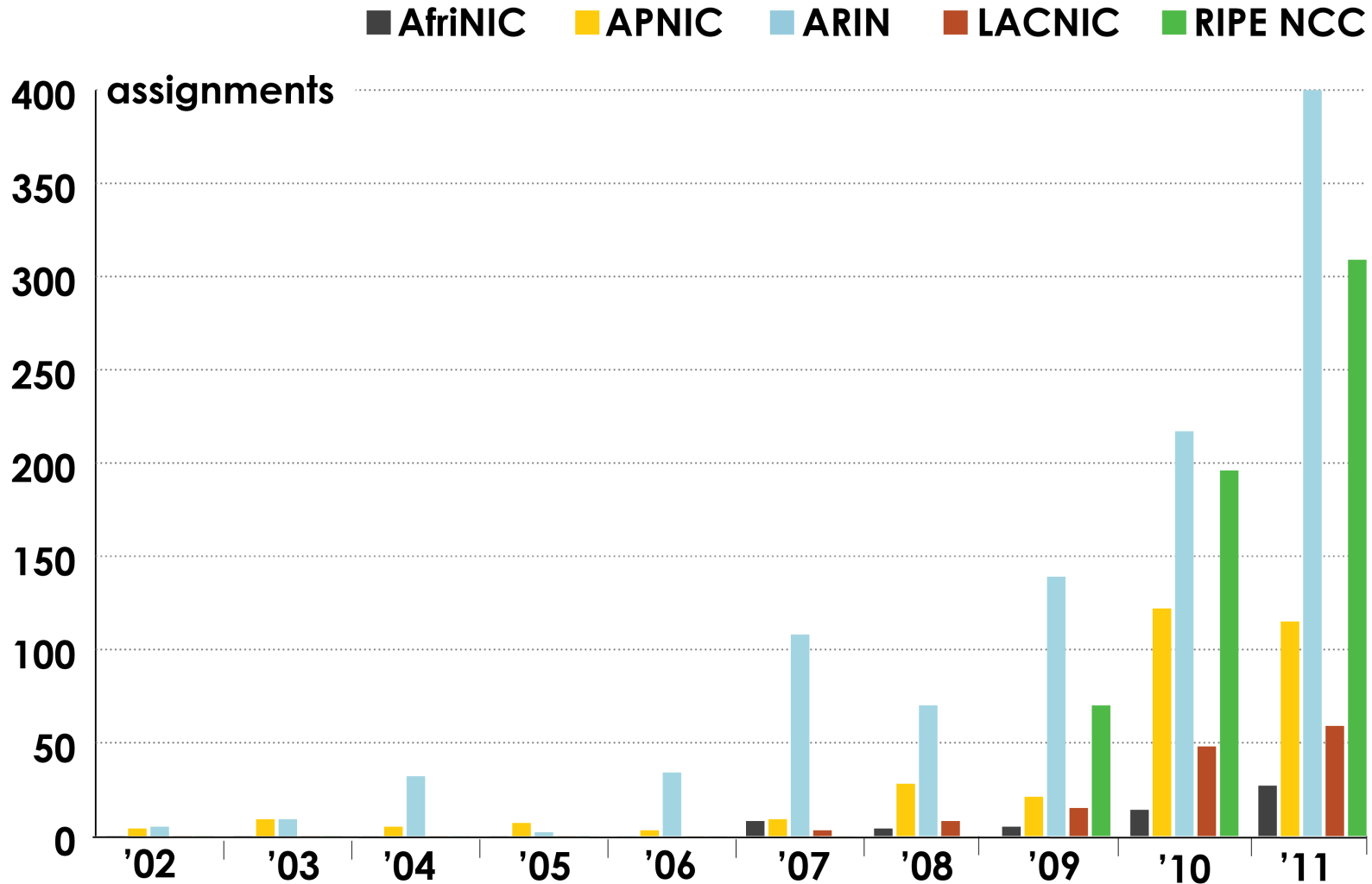


In terms of /32s, how much total space has each RIR allocated?



Number Resource Organization

# IPV6 ASSIGNMENTS RIRS TO END-USERS



2001:610:240:0-1933:0:0:202 62:109:128 195:048:02:03 178:42:02:02 2001:610:240 193:0:0:203 195:048:02:03  
 62:109:128 195:048:02:03 2001:610:240 193:0:0:202 62:109:128 195:048:02:03 178:42:02:02 2001:610:240 193:0:0:203  
 193:0:0:203 2001:610:240:0-1933:0:0:202 62:109:128 195:048:02:03 178:42:02:02 2001:610:240 193:0:0:203  
 2001:610:240:0-1933:0:0:202 62:109:128 195:048:02:03 178:42:02:02 2001:610:240 193:0:0:203  
 Number Resource Organization



# LINKS TO RIR STATISTICS

- RIR Stats:  
[www.nro.net/statistics](http://www.nro.net/statistics)
- Raw Data/Historical RIR Allocations:  
[www.aso.icann.org/stats](http://www.aso.icann.org/stats)  
[www.iana.org/assignments/ipv4-address-space](http://www.iana.org/assignments/ipv4-address-space)  
[www.iana.org/assignments/as-numbers](http://www.iana.org/assignments/as-numbers)  
[www.iana.org/assignments/ipv6-unicast-address-assignments](http://www.iana.org/assignments/ipv6-unicast-address-assignments)

2001:610:240:0-193:0:0:202  
62:109:128-195:048:02:03  
193:0:0:203 2001:610:240:0-193:0:0:202  
2001:610:240:0-193:0:0:202

Number Resource Organization



thank you

2001:610:240:0 193:0:0:202 62:109:128 195:048:02:03 178:12:02:02 2001:610:240 193:0:0:203 195:048:02:03  
62:109:128 195:048:02:03 2001:610:240 193:0:0:202 2001:610:240 193:0:0:203 195:048:02:03  
193:0:0:203 2001:610:240:0 193:0:0:202 62:109:128 195:048:02:03 178:12:02:02 2001:610:240 193:0:0:203  
2001:610:240:0 193:0:0:202 62:109:128 195:048:02:03 178:12:02:02 2001:610:240 193:0:0:203 195:048:02:03  
Number Resource Organization



**The next slides are not part of the official NRO presentation. These are added to give an update in RPKI adoption**

2001:610:240:0-193:0:0:202 62:109:128 195:048:02:03 178:42:02:02 2001:610:240 193:0:0:203 195:048:02:03  
62:109:128 195:048:02:03 2001:610:240 193:0:0:202  
193:0:0:203 2001:610:240:0-193:0:0:202 62:109:128 195:048:02:03 178:42:02:02 2001:610:240 193:0:0:203  
2001:610:240:0-193:0:0:202 62:109:128 195:048:02:03 178:42:02:02 2001:610:240 193:0:0:203  
Number Resource Organization





# Links to Stats

- AFRINIC
  - [http://www.afrinic.net/statistics/ipv4\\_exhaustion/](http://www.afrinic.net/statistics/ipv4_exhaustion/)
- APNIC
  - <http://www.apnic.net/community/ipv4-exhaustion/graphical-information>
- ARIN
  - <https://www.arin.net/>
- LACNIC
  - <http://www.labs.lacnic.net/stats/reports/>
- RIPE NCC
  - <http://www.ripe.net/internet-coordination/ipv4-exhaustion/ipv4-available-pool-graph>



# RPKI Update stats

- <http://certification-stats.ripe.net/>
- <http://www.labs.lacnic.net/~rpki/>

2001:610:240:0-193:0:0:202 62:109:128 195:048:02:03 178:42:02:02 2001:610:240 193:0:0:203 195:048:02:03  
62:109:128 195:048:02:03 193:0:0:202 2001:610:240 193:0:0:203 195:048:02:03  
193:0:0:203 2001:610:240:0-193:0:0:202 62:109:128 195:048:02:03 178:42:02:02 2001:610:240 193:0:0:203  
2001:610:240:0-193:0:0:202 62:109:128 195:048:02:03 178:42:02:02 2001:610:240 193:0:0:203 195:048:02:03  
Number Resource Organization