INTERNET NUMBER RESOURCE STATUS REPORT

As of 30 June 2016

Prepared by
Regional Internet Registries
AFRINIC, APNIC, ARIN, LACNIC and the RIPE NCC
IPv4 ADDRESS SPACE
What is the status of each of the 256 /8s?

STATUS OF 256 /8s IPv4 ADDRESS SPACE

TOTAL IPv4 SPACE
- CENTRAL REGISTER 91
- RIRs 130
- IANA RESERVED 0
- NOT AVAILABLE 35
  - EXPERIMENTAL 16
  - LOCAL IDENTIFICATION 1
  - LOOPBACK 1
  - PRIVATE USE 1
  - MULTICAST 16

APNIC 45
- ARIN 36
- AFRINIC 5
- LACNIC 9
- RIPE NCC 35
AVAILABLE IPv4 /8s IN EACH RIR

AFRINIC: 1.62
APNIC: 0.49
ARIN: 0
LACNIC: 0.07
RIPE NCC: 0.93
IPv4 ADDRESS SPACE ISSUED  
(RIRs TO CUSTOMERS)

In terms of /8s, how much space did each RIR issue by year?

- AFRINIC
- APNIC
- ARIN
- LACNIC
- RIPE NCC

Year: '99, '00, '01, '02, '03, '04, '05, '06, '07, '08, '09, '10, '11, '12, '13, '14, '15, '16
IPv4 ADDRESS SPACE ISSUED
(RIRs TO CUSTOMERS)

In terms of /8s, how much total space has each RIR issued?
(Jan 1999 – June 2016)

- APNIC: 45.12
- ARIN: 32.33
- AFRINIC: 5.34
- LACNIC: 10.63
- RIPE NCC: 34.96

/8s

June 2016
Internet Number Resource Report
ASN ASSIGNMENTS (RIRs TO CUSTOMERS)

How many ASNs has each RIR assigned by year?

AFRINIC | APNIC | ARIN | LACNIC | RIPE NCC

(assignments)

Number Resource Organization

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Internet Number Resource Report
ASN ASSIGNMENTS (RIRs TO CUSTOMERS)

How many total ASNs has each RIR assigned?
(Jan 1999 – June 2016)

- LACNIC 6,035
- AFRINIC 1,482
- APNIC 12,830
- RIPE NCC 34,219
- ARIN 29,254

June 2016

Internet Number Resource Report
4-BYTE ASN ASSIGNMENTS

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

AFRINIC APNIC ARIN LACNIC RIPE NCC

4-byte ASN Assignments

2000 1500 1000 500 0

4-BYTE ASN ASSIGNMENTS

How many total 4-byte ASNs has each RIR assigned?
(Jan 2007 – June 2016)

RIPE NCC: 7,050
LACNIC: 3,077
APNIC: 4,516
ARIN: 2,151
AFRINIC: 365

4-byte ASNs
IPv6 ADDRESS SPACE
How much has been allocated to the RIRs?

RIRs 5 /12s (October 2006)

<table>
<thead>
<tr>
<th>RIR</th>
<th>IPv6 ADDRESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRINIC</td>
<td>2C00:0000::/12</td>
</tr>
<tr>
<td>APNIC</td>
<td>2400:0000::/12</td>
</tr>
<tr>
<td>ARIN</td>
<td>2600:0000::/12</td>
</tr>
<tr>
<td>LACNIC</td>
<td>2800:0000::/12</td>
</tr>
<tr>
<td>RIPE NCC</td>
<td>2A00:0000::/12</td>
</tr>
</tbody>
</table>

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

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Internet Number Resource Report
IPv6 ALLOCATIONS
(RIRs TO LIRs/ISPs)

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

2000 allocations

AFRINIC  APNIC  ARIN  LACNIC  RIPE NCC

'99  '00  '01  '02  '03  '04  '05  '06  '07  '08  '09  '10  '11  '12  '13  '14  '15  '16

0  500  1000  1500  2000

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Internet Number Resource Report
IPv6 ALLOCATIONS (RIRs TO LIRs/ISPs)

How many total allocations have been made by each RIR? (Jan 1999 – June 2016)

- RIPE NCC: 11,610
- AFRINIC: 492
- APNIC: 3,617
- ARIN: 2,977
- LACNIC: 4,355
IPv6 ASSIGNMENTS RIRS TO END-USERS
How many assignments have been made by each RIR by year?

AFRINIC  APNIC  ARIN  LACNIC  RIPE NCC

Assignments

June 2016
Internet Number Resource Report
IPv6 ASSIGNMENTS
(RIRs TO END-USERS)

How many total assignments have been made by each RIR?
(Jan 2002 – June 2016)

- RIPE NCC: 2,402
- APNIC: 1,268
- AFRINIC: 179
- ARIN: 2,299
- LACNIC: 738
PERCENTAGE OF MEMBERS WITH BOTH IPv4 AND IPv6 IN EACH RIR

AFRINIC  APNIC  ARIN  LACNIC  RIPE NCC

36.05%  48.34%  50.60%  85.46%  75.96%
LINKS TO RIR STATISTICS

• **RIR Stats:**
  [www.nro.net/statistics](http://www.nro.net/statistics)

• **Raw Data/Historical RIR Allocations:**
  [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)
THANK YOU