INTERNET NUMBER RESOURCE STATUS REPORT

As of 30 June 2017

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

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

- ARIN 36
- AFRINIC 5
- LACNIC 9
- RIPE NCC 35

Jun 2017
Internet Number Resource Report
Available IPv4 /8s In Each RIR

- AFRINIC: 0.83
- APNIC: 0.37
- ARIN: 0.00
- LACNIC: 0.26
- RIPE NCC: 0.75

Internet Number Resource Report
Jun 2017
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

Internet Number Resource Report
Jun 2017
IPv4 ADDRESS SPACE ISSUED
(RIRs TO CUSTOMERS)

In terms of /8s, how much total space has each RIR issued?
(Jan 1999 – Jun 2017)

- APNIC: 45.26 /8s
- ARIN: 32.36 /8s
- RIPE NCC: 35.18 /8s
- LACNIC: 10.75 /8s
- AFRINIC: 6.01 /8s
How many ASNs has each RIR assigned by year?
ASN ASSIGNMENTS (RIRs TO CUSTOMERS)
How many total ASNs has each RIR assigned?
(Jan 1999 – Jun 2017)

- APNIC: 14,299
- ARIN: 30,621
- AFRINIC: 1,646
- LACNIC: 7,191
- RIPE NCC: 36,767

ASNs

Internet Number Resource Report
Jun 2017
4-BYTE ASN ASSIGNMENTS

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

<table>
<thead>
<tr>
<th>Year</th>
<th>AFRINIC</th>
<th>APNIC</th>
<th>ARIN</th>
<th>LACNIC</th>
<th>RIPE NCC</th>
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</tbody>
</table>

AFRINIC | APNIC | ARIN | LACNIC | RIPE NCC

Jun 2017

Internet Number Resource Report

NRO

Number Resource Organization
4-BYTE ASN ASSIGNMENTS

How many total 4-byte ASNs has each RIR assigned?
(Jan 2007 – Jun 2017)

AFRINIC 515

APNIC 5,914

ARIN 3,384

LACNIC 4,212

RIPE NCC 8,786

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>
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<tbody>
<tr>
<td>AFRINIC</td>
<td>2C00:0000::/12</td>
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<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

GLOBAL UNICAST

ALL IPv6 SPACE

Miscellaneous 1 /12
IPv6 ALLOCATIONS
(RIRs TO LIRs/ISPs)

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

allocations

AFRINIC  APNIC  ARIN  LACNIC  RIPE NCC

Internet Number Resource Report
Jun 2017
IPv6 ALLOCATIONS
(RIRs TO LIRs/ISPs)
How many total allocations have been made by each RIR?
(Jan 1999 – Jun 2017)

- **ARIN**: 3,385 allocations
- **APNIC**: 4,799 allocations
- **AFRINIC**: 580 allocations
- **LACNIC**: 5,490 allocations
- **RIPE NCC**: 13,494 allocations

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Internet Number Resource Report
IPv6 ASSIGNMENTS RIRS TO END-USERS

How many assignments have been made by each RIR by year?
IPv6 ASSIGNMENTS
(RIRs TO END-USERS)
How many total assignments have been made by each RIR?
(Jan 2002 – Jun 2017)

- AFRINIC: 219 assignments
- APNIC: 1,823 assignments
- ARIN: 2,662 assignments
- LACNIC: 857 assignments
- RIPE NCC: 2,676 assignments
PERCENTAGE OF MEMBERS WITH BOTH IPv4 AND IPv6 IN EACH RIR

- **AFRINIC**: 35.50%
- **APNIC**: 54.10%
- **ARIN**: 55.48%
- **LACNIC**: 73.88%
- **RIPE NCC**: 89.41%

**Internet Number Resource Report**

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LINKS TO RIR STATISTICS

• RIR Stats:  
  www.nro.net/statistics

• Raw Data/Historical RIR Allocations:  
  www.iana.org/assignments/ipv4-address-space  
  www.iana.org/assignments/as-numbers  
  www.iana.org/assignments/ipv6-unicast-address-assignments
THANK YOU