INTERNET NUMBER RESOURCE STATUS REPORT

As of 30 September 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

- CENTRAL REGISTRY 91
- RIRs 130
- IANA RESERVED 0
- NOT AVAILABLE 35

- TOTAL IPv4 SPACE

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

APNIC 45
- ARIN 36
- AFRINIC 5
- LACNIC 9
- RIPE NCC 35

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AVAILABLE IPv4 /8s IN EACH RIR

- AFRINIC: 1.4
- APNIC: 0.45
- ARIN: 0
- LACNIC: 0.044
- RIPE NCC: 0.9
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

Number of /8s
IPv4 ADDRESS SPACE ISSUED
(RIRs TO CUSTOMERS)
In terms of /8s, how much total space has each RIR issued?
(Jan 1999 – Sept 2016)

- LACNIC: 10.67 /8s
- RIPE: 35.01 /8s
- NCC: 5.56 /8s
- ARIN: 32.33 /8s
- AFRINIC: 45.16 /8s
- APNIC: 45.16 /8s
ASN ASSIGNMENTS (RIRs TO CUSTOMERS)
How many ASNs has each RIR assigned by year?
ASN ASSIGNMENTS (RIRs TO CUSTOMERS)

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

- APNIC: 13,112
- ARIN: 29,525
- AFRINIC: 1,525
- LACNIC: 6,290
- RIPE NCC: 34,859

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4-BYTE ASN ASSIGNMENTS

How many 4-byte ASNs has each RIR assigned by year?
4-BYTE ASN ASSIGNMENTS
How many total 4-byte ASNs has each RIR assigned?
(Jan 2007 – Sept 2016)

- RIPE NCC: 7,479
- LACNIC: 3,323
- AFRINIC: 405
- APNIC: 4,763
- ARIN: 2,385
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>
IPv6 ALLOCATIONS
(RIRs TO LIRs/ISPs)

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

- AFRINIC
- APNIC
- ARIN
- LACNIC
- RIPE NCC

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IPv6 ALLOCATIONS (RIRs TO LIRs/ISPs)

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

- RIPE NCC: 12,098
- AFRINIC: 517
- LACNIC: 4,595
- APNIC: 4,009
- ARIN: 3,066
IPv6 ASSIGNMENTS (RIRs TO END-USERS)

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

RIPE NCC 2,471
APNIC 1,426
AFRINIC 188
ARIN 2,377
LACNIC 769
PERCENTAGE OF MEMBERS WITH BOTH IPv4 AND IPv6 IN EACH RIR

AFRINIC: 33.55%
APNIC: 48.91%
ARIN: 51.7%
LACNIC: 86.54%
RIPE NCC: 75.46%
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