IPv6...
Are we there yet???
RIPE NCC Membership Growth

Active Members over time (active members)

2,227 members from AM, AZ, BY, EE, FI, GE, KG, KZ, LT, LV, MD, RU, TM, TJ, UA, UZ
IPv6 Over Time

IPv6 over time (active members)

IANA  RIPE NCC
IPv6 Breakdown

- No IPv6 (28.10%)
- Has IPv6 but not announced (38.04%)
- Has IPv6 and seen in BGP (33.86%)
IPv6 Breakdown by Country
IPv6 Breakdown by Country

Country by IPv6

Total count of IPv6

- Ukraine: 239
- Finland: 197
- Georgia: 71
- Lithuania: 61
- Estonia: 61
- Kazakhstan: 57
- Latvia: 57
- Azerbaijan: 44
- Armenia: 32
- Uzbekistan: 23
- Belarus: 21
- Kyrgyzstan: 20
- Tajikistan: 18
- Turkmenistan: 9

Legend:
- No IPv6
- Has IPv6 but not announced
- Has IPv6 and seen in BGP

Hisham Ibrahim | ENOG 12 | October 2016
IPv6 RIPEness

RIPENESS (All Members)
14369 LIRs

- 4 Stars (3046 LIRs) - 24%
- 3 Stars (2179 LIRs) - 15%
- 2 Stars (1408 LIRs) - 10%
- 1 Star (4248 LIRs) - 30%
- 0 Stars (3488 LIRs) - 21%

Source: https://ripeness.ripe.net/
IPv6 RIPEness

RIPENESS (ENOG)
2227 LIRs

- 28% 4 Stars (459 LIRs)
- 21% 3 Stars (342 LIRs)
- 15% 2 Stars (225 LIRs)
- 26% 1 Stars (579 LIRs)
- 10% 0 Stars (622 LIRs)
IPv6 RIPENess

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IPv6 RIPEness

RIPENESS (AM)
24 LIRs

- 0%: 12% of 24 LIRs
- 12%: 6% of 24 LIRs
- 25%: 6% of 24 LIRs
- 50%: 12% of 24 LIRs
IPv6 RIPENESS

RIPENESS (AM)
24 LIRs

RIPENESS (RU)
1313 LIRs

4 Stars (12 LIRs)
3 Stars (3 LIRs)
2 Stars (0 LIRs)
1 Stars (6 LIRs)
0 Stars (3 LIRs)

4 Stars (250 LIRs)
3 Stars (199 LIRs)
2 Stars (143 LIRs)
1 Stars (335 LIRs)
0 Stars (386 LIRs)
IPv6 RIPEness vs. Traffic

**RIPENESS (AM)**

- 24 LIRs
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- 25%: 3 Stars (3 LIRs)
- 13%: 2 Stars (0 LIRs)
- 12%: 1 Star (6 LIRs)
- 0%: 0 Stars (3 LIRs)
IPv6 RIPEness vs. Traffic

IPv6 Penetration in Armenia as measured by Akamai, APnic and Google (2016-09-22) [Source: https://www.vyncke.org/ipv6status/]

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IPv6 RIPEness

IPv6 Penetration in Russia as measured by Akamai, APnic and Google
(2016-09-22) www.vyncke.org/ipv6status

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IPv6 RIPEness

IPv6 Penetration in Estonia as measured by Akamai, APnic and Google
(2016-09-22) www.vyncke.org/ipv6status

RIPENESS (EE)
60 LIRs

- 35% 4 Stars (21 LIRs)
- 27% 3 Stars (5 LIRs)
- 22% 2 Stars (5 LIRs)
- 8% 1 Star (13 LIRs)
- 8% 0 Stars (16 LIRs)
So, What’s Next?

Requirements for IPv6 in ICT Equipment

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IPv6 Troubleshooting for Residential ISP Helpdesks

https://www.ripe.net/publications/docs/ripe-631
Case Study: (464XLAT)
T-Mobile US Goes IPv6-only

T-Mobile in the United States was running out of IPv4 addresses and needed an IPv6 transition strategy. Their solution was 464XLAT and IPv6-only.

If your organisation doesn’t have a plan yet for IPv6, what are you waiting for?

http://www.internetsociety.org/deploy360/resources/case-study-t-mobile-us-goes-ipv6-only-using-464xlat/
Questions

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