

Review our Expected Standards of Behavior when participating in ICANN Meetings.

Go to: http://go.icann.org/expected-standards

Review the ICANN Community Anti-Harassment Policy when participating in ICANN Meetings.

Go to: http://go.icann.org/anti-harassment



Do you have a question or concern for the ICANN Ombudsman?

Email ombudsman@icann.org to set up a meeting.



ICANN79 - GAC/ASO Meeting

Sunday, 3 March 2024 11:15-12:00





1. <u>IPv4 transfer policy</u>

- Input on the effectiveness of the current IPv4 transfer policy market on redistributing IPv4 addresses and allowing for interested parties to come to an agreement.
- Insights in the volume of address transfers taking place, especially in between regions.

2. <u>IPv6 deployment</u>

• Effectiveness of the current (public) policy measures are in promoting IPv6 adoption.

- NRO EC
 - Hans Petter Holen, RIPE NCC
 - Paul Wilson, APNIC
 - Michael Abejuela, ARIN
- ASO AC
 - Hervé Clément, Chair

ASO in the ICANN Structure



Please provide an insight in the volume of IPv4 addresses that is being traded in the open market?

- How many addresses are transferred between regions?
- Can you provide some insight in pricing?



Transfers within a region



Number of transfers per year – 2023 only





Number of transfers per year











IPv4 Address transfers (by source)





Can you provide some insight in pricing?



- The RIRs are not parties in the transactions
- RIPE NCC has engaged external researchers to analyse the transfer market in our region
- Some of the IP address brokers publish prices



Source: IPv4.Global <u>https://ipv4.global/reports/</u>



IPv4 Transfer Pricing

/15 /16 70 /17 /18 /19 /20 /21 /22 /23 /24 60 50 USD per Address 40 30 20 10 0 2015 2016 2017 2022 2014 2018 2019 2020 2021 2023 Data

Unit Price of Traded IPv4 Addresses (From Hilco Streambank)

Source: IPv4.Global https://ipv4.global/reports/





IPv4 Transfer Pricing





Source: https://ipv4marketgroup.com/ipv4-pricing/

IPv4 Transfer Policy

The GAC is interested in learning:

- What the factors that influence the price of an IPv4 address are?
 - Are there regional differences in pricing?
 - What are the mechanisms that establishes the price?
- How effective is the market in helping redistribution of IPv4 addresses to those markets and regions that need them most?
- How easy is to move IPv4 addresses between regions?
 - Can IPv4 addresses from one RIR be used in other regions, for instance via leasing of IPv4 resources?
- What are your expectations towards the future?
 - How long is this market needed?
 - Do you see any (future) risks with transfers?

Several ICANN policies have mechanisms that require IPv6 support, e.g. the applicant guidebook

 In your view, how effective are these requirements in encouraging broad adoption of IPv6 by all stakeholders

Several TLD registries have taken to promoting IPv6

- Small discounts like within the .nl ccTLD
- Are there other examples?
- How would you recommend domain name policy to promote IPv6?



There are many countries that have measures in place, commonly:

- Making IPv6 support mandatory for e-government services
- Making IPv6 mandatory in ICT purchasing by government
- Incorporating IPv6 support in 4G/5G spectrum auctions
- Promoting IPv6 in multi-stakeholder groups like IPv6-TF
- Putting a formal end date on IPv4 like recently in Czechia
- Can you provide your views on the effectiveness of these policies?
- Can you share success stories where you think public policy made the difference in accelerating IPv6 deployment?



IPv6 Deployment

- What would you like (if anything) for the GAC or its members to promote on the adoption and use of IPv6?



APNIC	 <u>https://www.apnic.net</u>
AFRINIC	• <u>https://www.afrinic.net</u>
RIPE NCC	 <u>https://www.ripe.net</u>
ARIN	 <u>https://www.arin.net</u>
LACNIC	 <u>https://www.lacnic.net</u>









