

Feedback from the RIPE NCC **Registration Services**



Overview

- IPv4
- IPv6 Stockpiling
- ASN Requests
- RIPE NCC and the PDP

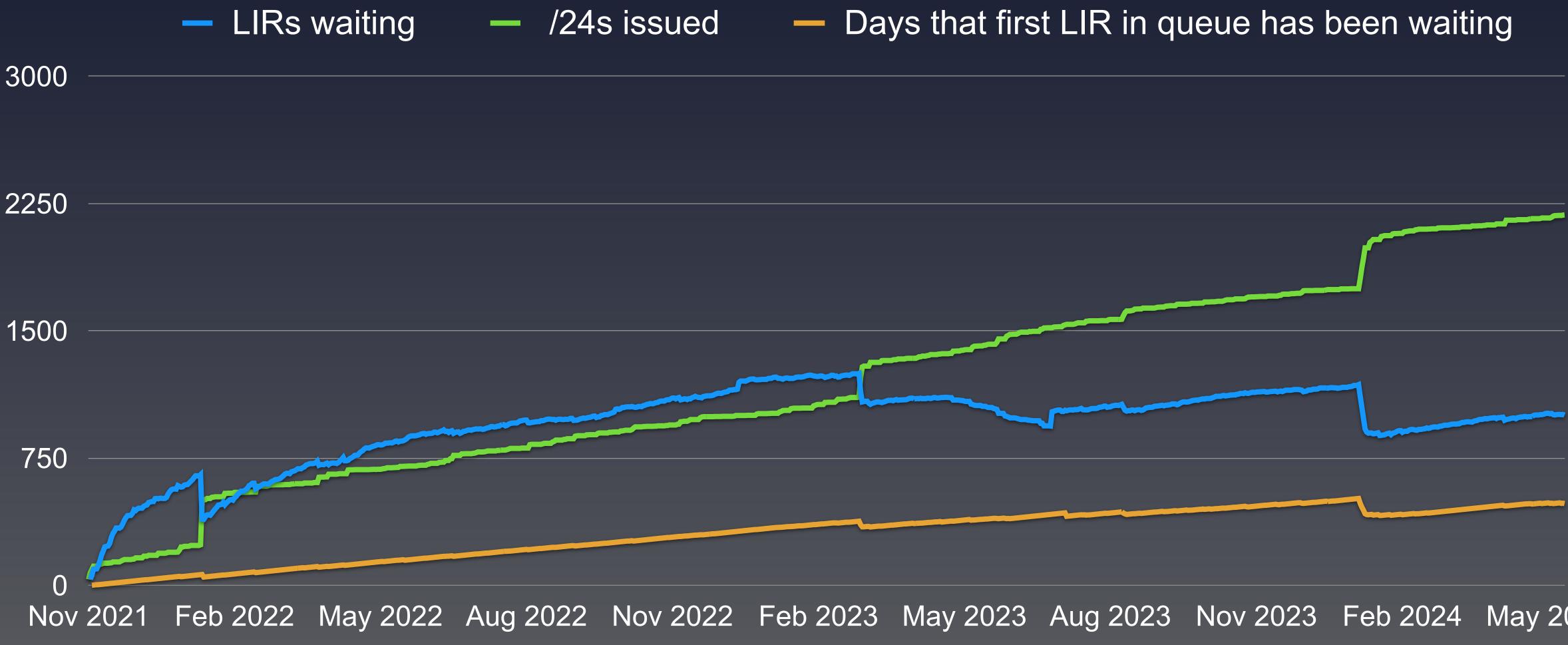








IPv4 Waiting List



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May 2024





The New Normal

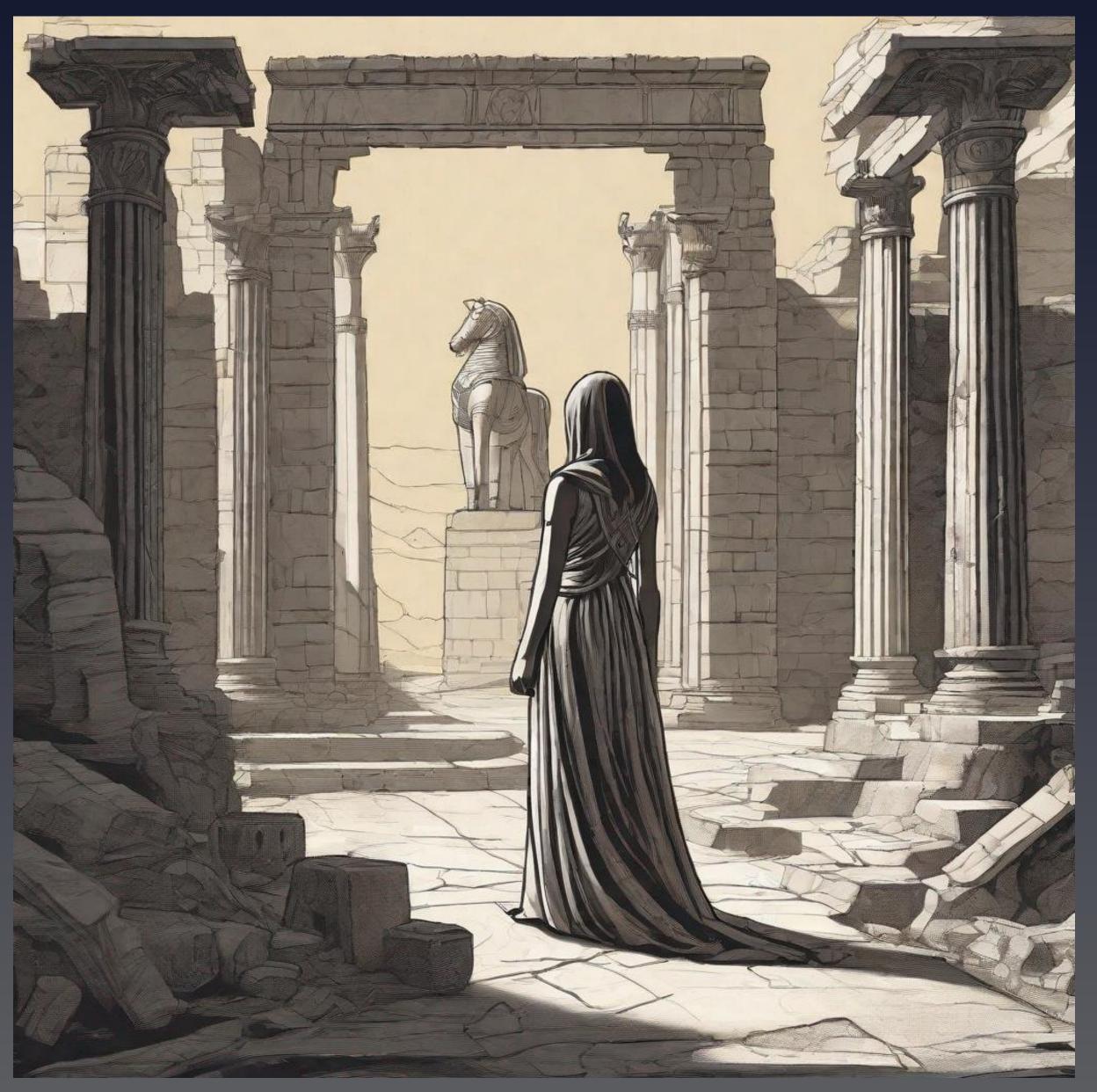
- ~2,200 /24 allocations have been provided since 17 November 2021 (when the waiting list became active again)
- Those currently first in line have been waiting since January 2023
- In the next six months, we will provide around 260 /24 allocations (our current recycled IPv4 pool size)
 Estimated waiting time when joining the waiting list:
- Estimated waiting time when joint 16-18 months





IPv6 Stockpiling





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Pv6 Stockpling

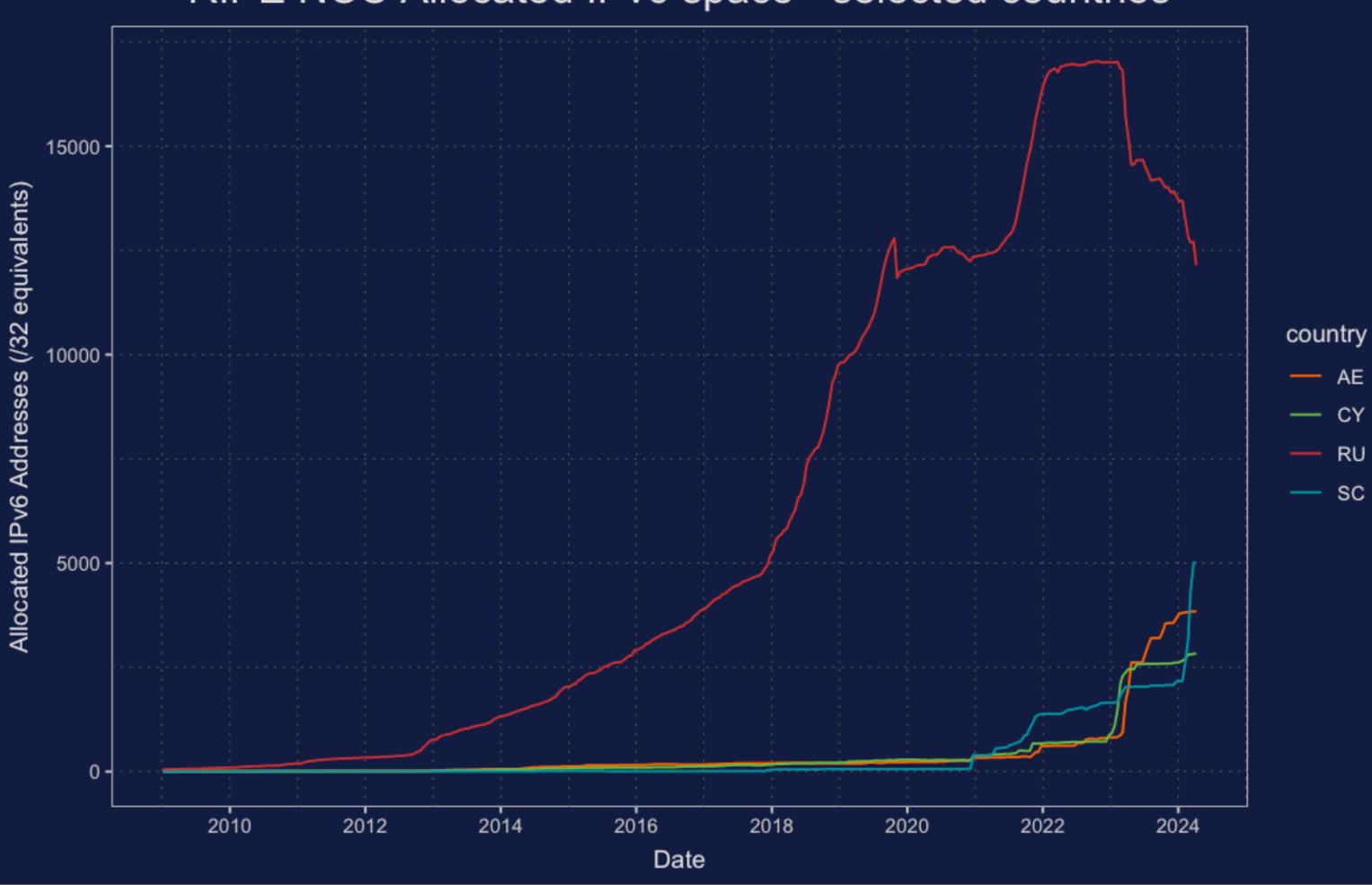
- Increasing recurrence of reported issue Highly targeted accumulation approach Few members collected hundreds of IPv6 allocations through
- transfers
- 14 members controlling now 9% of RIPE NCC's allocated IPv6 space Allocations primarily used for stockpiling or renting large blocks
- to third parties

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Significant Impact

RIPE NCC Allocated IPv6 space - selected countries







Nultiple Issues

- Lack of oversight on IPv6 usage compliance with RIPE policies
- Increased workload and costs
- Hindrance to membership growth
- Emergence of a secondary market for renting large IPv6 blocks Risks for organisations deploying networks on rented IPv6
- addresses
- Potential for malicious activities using rented IPv6 blocks, leading to reputational damage

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https://labs.ripe.net/author/marco_schmidt/ipv6-stockpiling-a-trojan-horse-in-our-midst/

Way forward

- Our policy application for IPv6 needs to evolve
- Now that IPv6 is established, we should move away from policy requirements for IPv6 transfers
 - respective policy documents."
 - Subsequent allocation will be provided when an LIR: a) Satisfies the evaluation threshold of past address utilisation [...] or b) Can justify new needs (which can't be satisfied within the previous allocation), according to the initial allocation size criteria as described in section 5.1.2.

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promoting its growth at any cost and instead prioritise enforcing

- "Transferred resources are no different from allocations or assignments made directly by the RIPE NCC and so must be used by the receiving party in accordance with the



ASN Requests

16-bit vs 32-bit

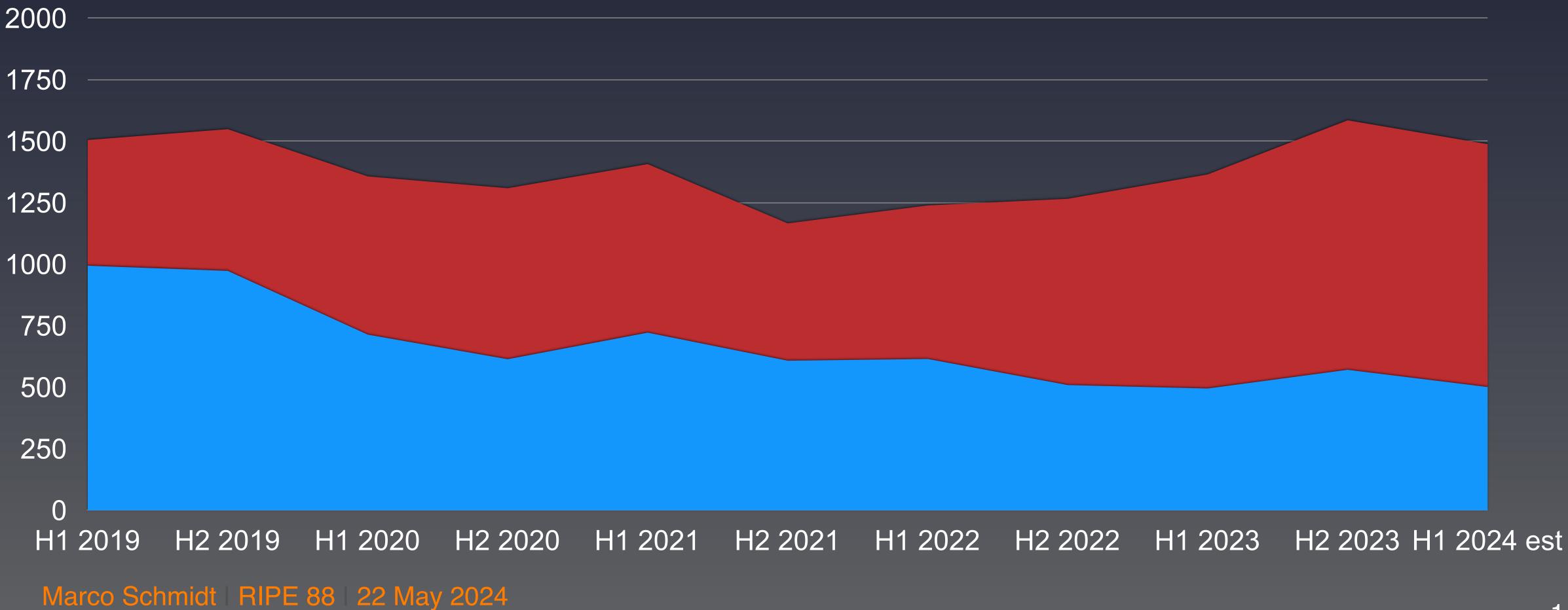
- Since January 2024, RIPE NCC has begun operating with an undifferentiated ASN pool, issuing only 6-digit (32-bit) ASNs.
- Few complaints, none related to technical issues
- Full policy compliance achieved

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Development ASN Requests

ASNs for LIRs







ASNs for End Users





More Details

- Same total number of AS number assignments, but higher workload for End User requests
 - Evaluation of documents
 - Adding to our screening and monitor tools
 - Additional efforts to ensure policy compliance
- Increase of ASNs requests for natural persons from ~310 in 2019 to ~650 in 2023 (mostly end users)
- Around 15% of ASN requests for End Users is abandoned
- End Users are based around the world

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Very Active ASN Dealer Market

€99.99 EUR

RIPE ASN Registr

One-time purchas

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RIPE ASN Reseller Plan Resell Autonomous System Numbers 5 ASNs included

RIPEASN

Outcome of this Activity

- Providers often fail to include our policy requirements, like multihoming and service region, in their offers
- However, the submitted requests typically match these requirements
- disappear quickly (issued 2021-2023)
- Some members submit multiple End User ASN requests daily Approximately one-third of the ASNs either never become visible or

https://ripe88.ripe.net/wp-content/uploads/presentations/28-RIPE88-ASNs-v4.pdf https://labs.ripe.net/author/james-kennedy/reflections-on-six-months-as-chief-registry-officer/

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Conclusion

- Current combination of RIPE policies and rules for RIPE NCC membership encourage carefree AS Number requests
- Fees are within the authority of the membership
- RIPE Community can consider a review of the AS Number policies
 - Review policy requirements
 - Stronger mandate for the RIPE NCC to ensure policy compliance
 - Other ideas to discourage the observed behaviour

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RIPE NCC and the PDP



Food for Thought

- The RIPE NCC highlights a potential issue with RIPE policies
- If the RIPE Community agrees, ideally, a community member starts a policy proposal
- but
- Being a proposer demands time, effort, enthusiasm, and occasionally a thick skin

Should the RIPE NCC be allowed to start a policy proposal?





Sun



Summary

Feedback Welcome

Registration Services will diligently enforce policy requirements for IPv6 transfers

 How can AS number requests and usage be made more responsible?

Should the RIPE NCC take a more active role in the PDP?

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Comments & Questions

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