

APNIC Update

ARIN 53

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Strategic Plan 2024 – 2027



Registry

Allocate and register Internet number resources in the Asia Pacific region.



Development

Assist in the sustainable development and growth of the Internet in the Asia Pacific region.

Value Streams



Engagement

Encourage and support diverse community cooperation in building an open and stable Internet.



Capability

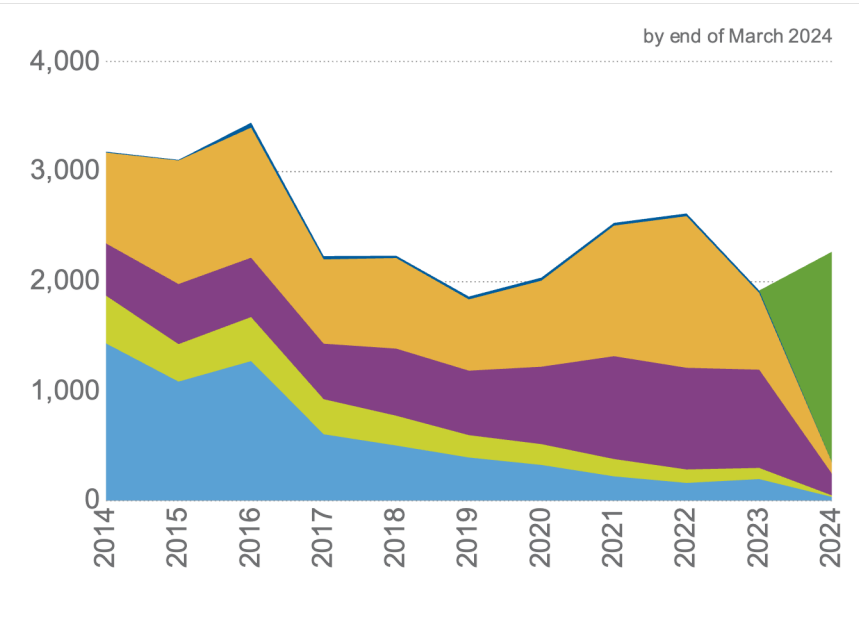
Provide comprehensive organizational support to to increase APNIC Secretariat value to the community.

Enablers

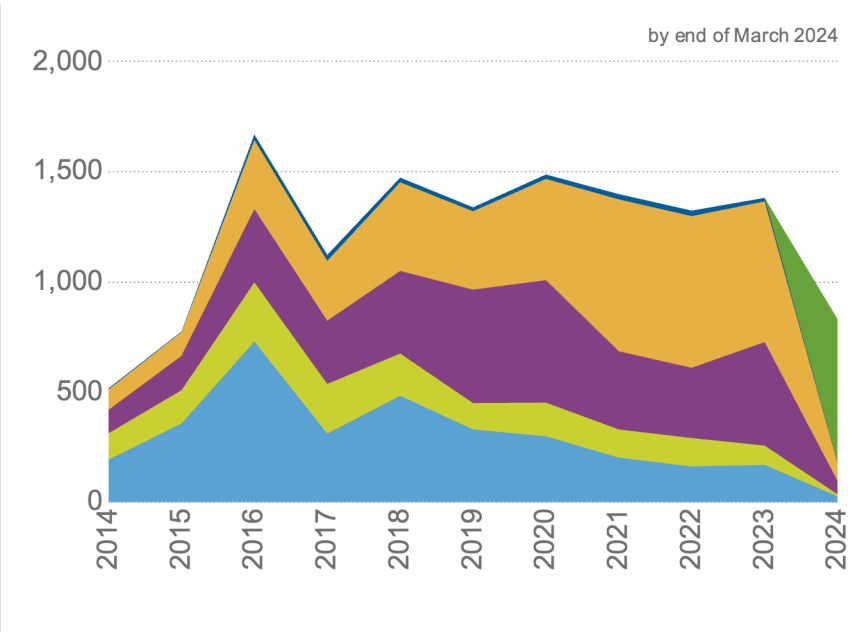
Resource delegations



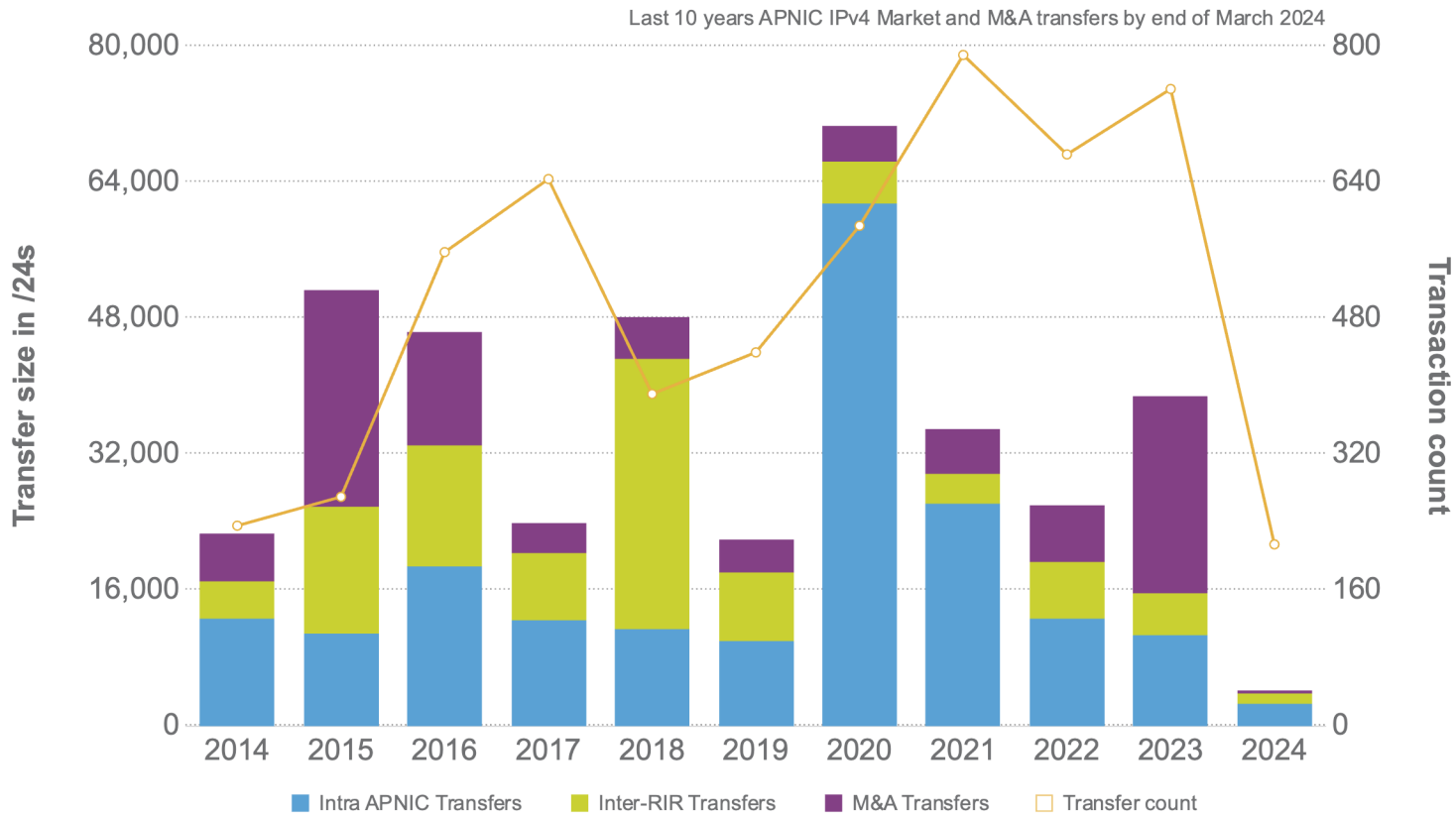
IPv4



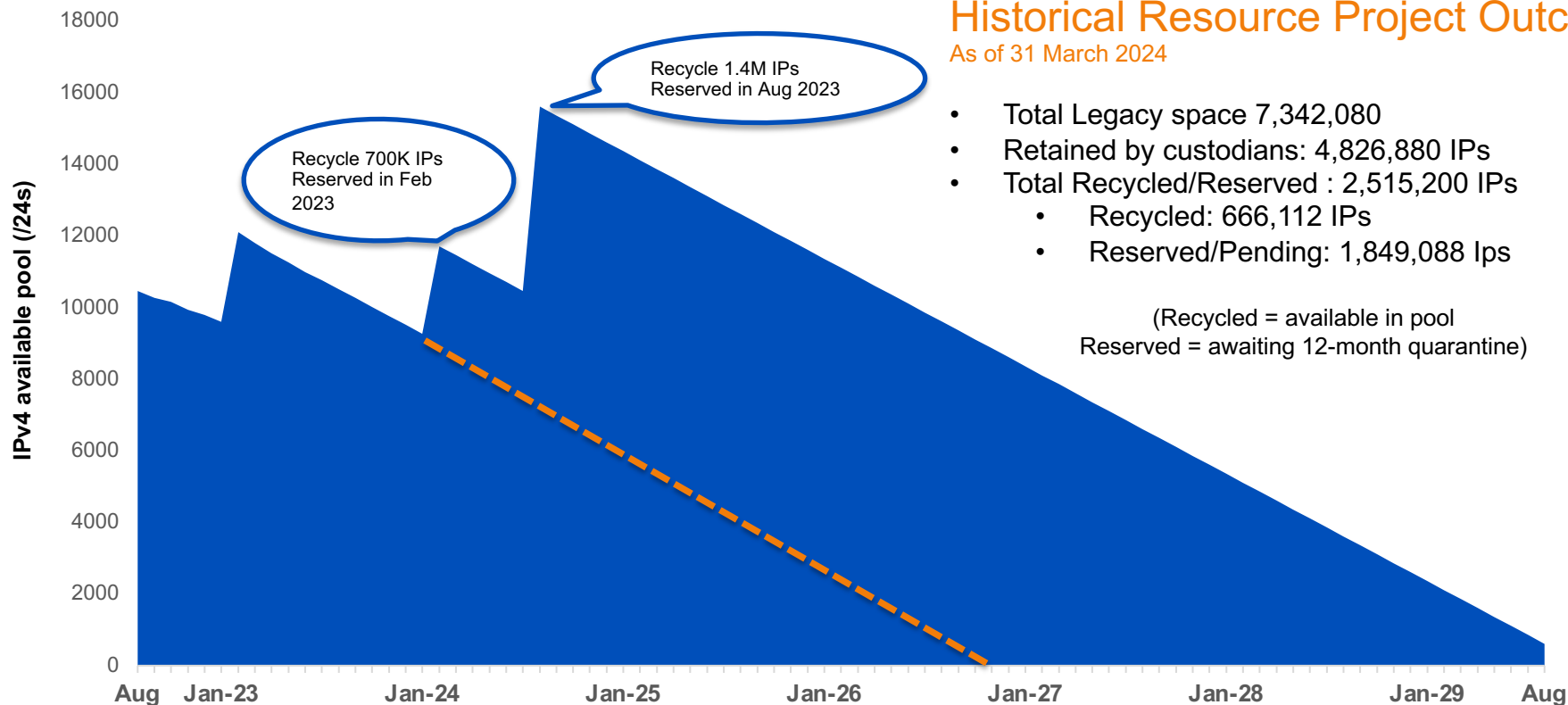
IPv6



Transfers



IPv4 available pool projection



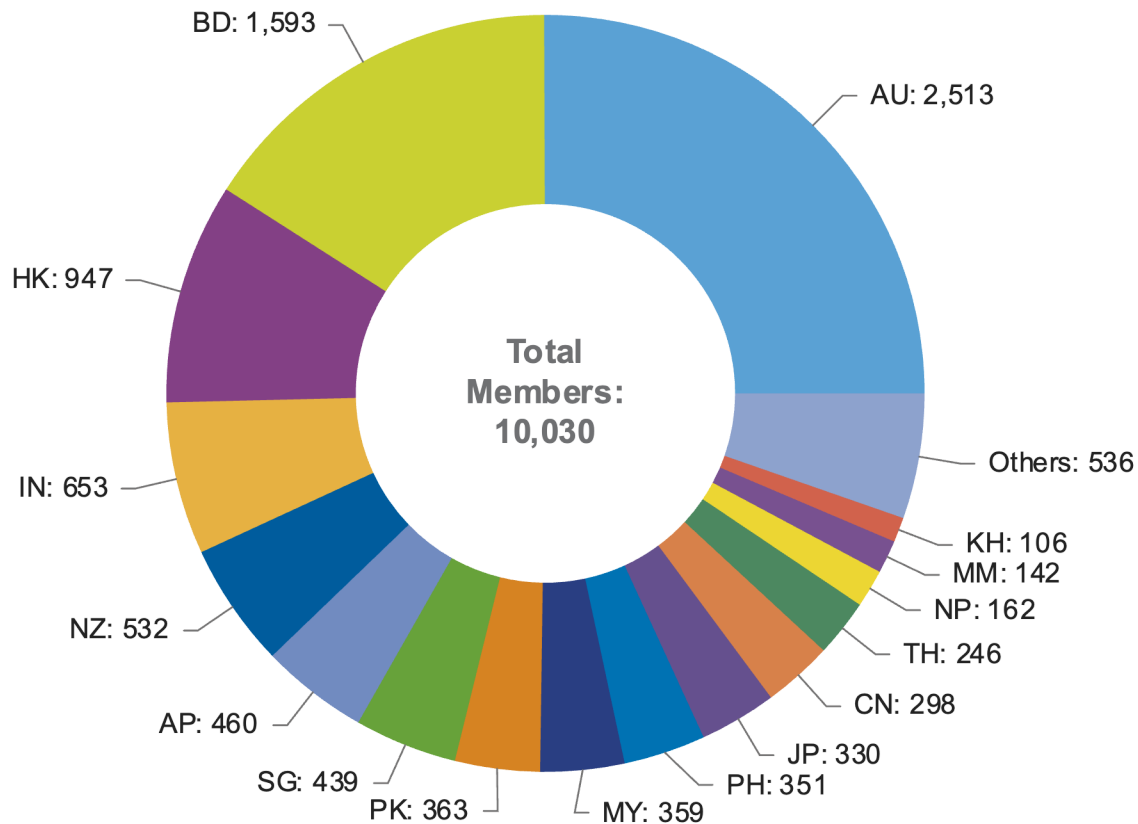
Historical Resource Project Outcome

As of 31 March 2024

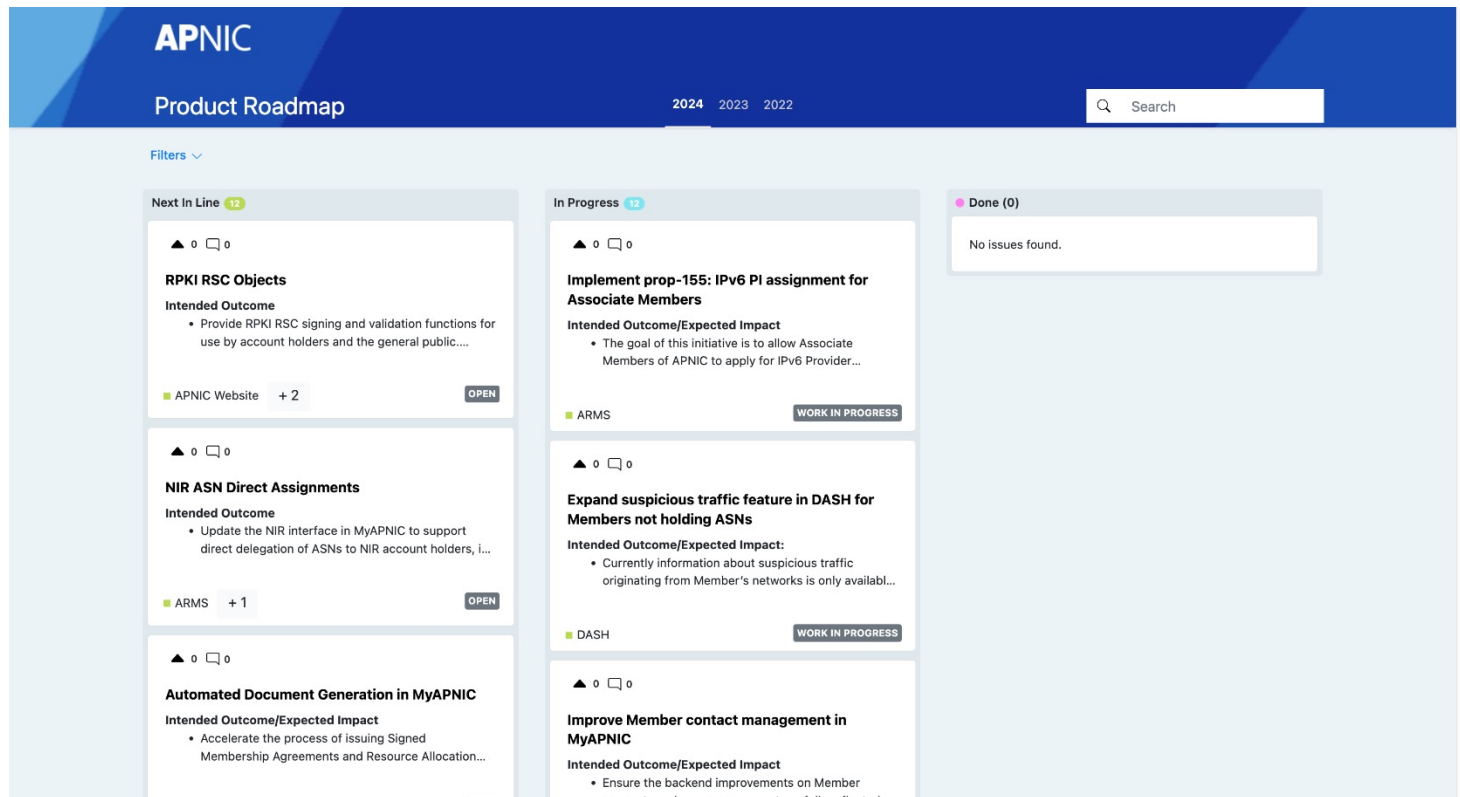
- Total Legacy space 7,342,080
- Retained by custodians: 4,826,880 IPs
- Total Recycled/Reserved : 2,515,200 IPs
 - Recycled: 666,112 IPs
 - Reserved/Pending: 1,849,088 Ips

(Recycled = available in pool
Reserved = awaiting 12-month quarantine)

APNIC Membership



Product Roadmap – 2024



<https://roadmap.apnic.net>

Product Roadmap – 2023

APNIC

Product Roadmap

2024 **2023** 2022

Search

Filters

Done 15

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Migrate workflow code off end-of-life OS servers

This deliverable involves a comprehensive revamping and migration of workflow code from end-of-life operating system servers. It will entail migrating and updating legacy code, rewriting outdated segments to enhance efficiency and effectiveness of workflow processes. As part of the modernization, the updated code will be transferred to more suitable servers or alternative architectures, which will promote improved performance and longevity. The final phase will involve decommissioning older servers, effectively eliminating potential security risks and maintenance challenges associated with...

■ ARMS + 1

DONE

▲ 0 0

Improve internal API authentication

This deliverable entails the enhancement of the current internal API authentication system in order to bolster security, optimize performance, and ensure data integrity. The work involves developing & refining mechanisms such as token-based authentication, OAuth, or API keys to verify the identity of users and systems making requests, thus preventing unauthorized access. The improvement may also cover aspects like implementing rate-limiting. This task is crucial for maintaining the privacy, trust, and overall operational efficiency of the system.

■ APNIC Login + 2

DONE

▲ 0 0

WYSIWYG Editor for Orbit

This deliverable entails updating the post submission editor on Orbit to support additional formatting options, including the ability to add images and basic text formatting features. The goal is to improve the functionality of the "What You See Is What You Get" (WYSIWYG) editor, giving users a more powerful and intuitive tool to create rich and engaging content. By allowing more complex and visually appealing posts, this upgrade is intended to enhance user experience, increase user engagement, and promote a higher level of content diversity on the platform.

<https://roadmap.apnic.net>

Registry Products



Roadmap goals completed

- Pre-validate all RPKI changes to avoid errors
- Improve ASN delegation identity in whois and MyAPNIC

Additional goals completed

- prop-150 and -151 implemented
- ROA publication speed improvements
- Geofeed attribute added to whois objects
- Core registry operation updates

Roadmap goals in progress

- RSC object implementation (creation/validation)
- Update authorization mechanisms for whois

Additional goals in progress

- RPKI resilience
- RDAP re-architecture
- IRRd deployment
- Six IETF drafts

Membership Products



Roadmap goals completed

- Improve internal API authentication
- Additional widgets in MyAPNIC dashboard
- Re-architect workflow code off end-of-life OS servers
- Automate and improve account closure processes

Additional goal in progress

- Improve Member contact management in MyAPNIC

Additional goals completed

- APNIC fee calculators
- Membership renewal workflow
- Orbit platform adjustments
- Organization name change process improvements
- System updates for historical resources transition project
- Tax compliance updates
- Election and voting improvements

Information Products



Roadmap goals completed

- Add suspicious traffic alerts to the notification platform
- Expand REx to cover global RIR delegation data
- Add DASH widgets to the MyAPNIC dashboard
- Expand notification channels
- Add DNSSEC and RPKI statistics to REx
- Complete a prototype that explores graph database capabilities

Understanding • Trust and network infrastructure • Experience of women participants • Prevalence of domain parking • Updates on APNIC 58 and APNIC 60 • How we measure IPv4 • Chiplets — the inevitable transition • Hazardous DNS echoes • What's next? • That OSI model refuses to die • Evolution has its downsides... but maybe security control changes due to TLS Encrypted Client Hello • JA4+ network fingerprint interpretation • [Podcast] Negative impact of IPv6 on DNS • [Podcast] RPKI ROAs in one basket • A single IP should accept several paths • [Podcast] Challenges in measuring network performance • The use of UTI for network measurement • Reset • Measurement of RPKI in the EVPN model • How to be a better network operator • A problem I was facing • Firewalls suffer different problems • [Podcast] IPv6 fragmentation and the DNS • A hop away from the edge-haul links in today's Internet • Digging into the Orange España Hack • Setting up a network • IP addresses through 2023 • How HTTP/3 improves secure shells • [Podcast] Network performance measurements • Credential stuffing and SIM swaps • Unbloating the buffers • BGPWatch — detecting and diagnosing hijacking incidents • Things in the modern Internet • A quantum-safe cryptography DNSSEC test



Academy Products



Roadmap goals completed

- Improve Academy data reporting with BI tools
- Design training certification program
- Integrate TA platform with Salesforce case management tools

Additional goal completed

- Stage 2 of the Training Wiki migration to the APNIC Academy

APNIC PDP



Join the discussion on <http://orbit.apnic.net>, integrated mailing list platform



- prop-155: IPv6 PI assignment for associate members
 - Easier access to /48 assignments (with conditions)
 - Endorsed by APNIC EC: IPv6 PI assignments under this policy will be considered as non-chargeable resources (as expected)
- Withdrawn or Abandoned
 - prop-152: Reduce the IPv4 delegation from /23 to /24
 - prop-153: Proposed changes to PDP

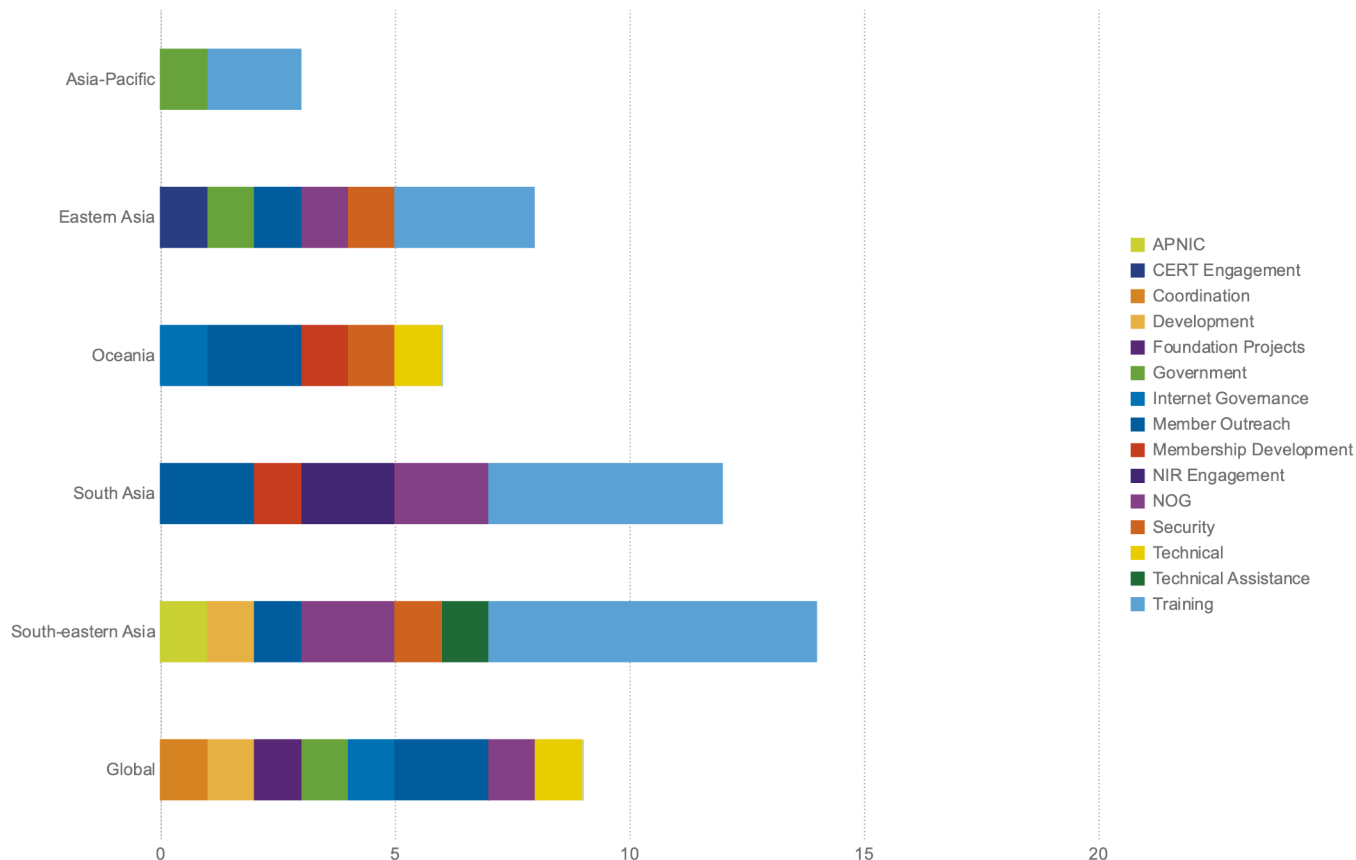


- prop-154: IPv4 assignments for IXPs
 - Change the default size of IPv4 assignments for IXPs from /23 to /26, and maximum size to /22
 - Resources assigned under this policy will be non-transferable.
- prop-156: Temporary IP resources
 - To reserve a /21 IPv4 from the non-103/8 pool, as well as a /29 IPv6 and eight ASNs
 - For delegation to events such as conferences and any other reason deemed appropriate
- No consensus
 - prop-157: Temporary IPv4 transfers
 - prop-158: IPv6 auto-allocation for each IPv4 request

PDP References

- APNIC Policy Development Process
 - <http://www.apnic.net/policy-development>
- SIG Guidelines
 - <http://www.apnic.net/sig-guidelines>
- Mailing list subscription and archives
 - <http://orbit.apnic.net>

Community Engagement





Capability

- Governance structural changes completed
 - APNIC EC Limited appointed as trustee of the sole share in APNIC Pty Ltd
 - EC members appointed as Directors of APNIC Pty Ltd
 - APNIC Members approved five resolutions to amend APNIC By-laws
- Organizational structure review and restructure
- Completed ISO 9001 external audit with zero non-conformances
- 2024 Activity Plan published
- 2023 Annual Report and audited financials published
- Kam Sze Yeung, Sumon Ahmed Sabir, and Vincent “Achie” Atienza re-elected to APNIC EC
- And you may have heard I’m moving on!
 - DG recruitment process is underway

Keep in touch!

- APNIC Survey 2024
 - Online survey will launch in June/July – please share your views
- APNIC 58 – New Zealand
 - Workshops: 30 August to 2 September
 - Conference: 4 to 6 September 2024
- blog.apnic.net and Ping podcast
- orbit.apnic.net



Thanks!