



addressing the Internet in the Asia Pacific

2024 Annual Report



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EXECUTIVE COUNCIL



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TWNIC



Vincent "Achie" Atienza
Peering, Interconnection & Strategy,
Globe Telecom



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Anlei Hu
Chief Network Security Officer,
China Internet Network Information Center
(CNNIC)



Jia Rong Low, Ex-officio
Director General,
APNIC



WELCOME FROM THE EXECUTIVE COUNCIL CHAIR

On behalf of the APNIC EC, I'm pleased to present the 2024 Annual Report.

2024 was an important year of change for APNIC, with a new Director General appointed for the first time in more than 25 years. Despite this important development, I'm glad to report that APNIC continued to deliver on its promises, as you'll see in the following pages.

Transitioning to a new Director General

Paul Wilson's decision to move on from the Director General role left big shoes to fill. Paul made immense contributions to the RIR system, stewardship of the APNIC registry, and advancing the vision of an open, global, stable, and secure Internet. His unwavering support of, and commitment to, Internet development in the Asia Pacific region will leave a lasting legacy.

The EC began the search for Paul's replacement immediately, forming a search and selection sub-committee that appointed an executive search agency to invite applications. After several rounds of interviews, Jia Rong Low emerged from a strong field of candidates and was appointed to the role.

Many in the community will know Jia Rong from his time as Vice President and Managing Director of ICANN's Asia Pacific office. He brings an exceptional blend of experience, leadership, and vision to this role.

With extensive experience working with the Internet community and facilitating policy-making, Jia Rong has a profound commitment to fostering a stable, open, and secure Internet.

Jia Rong began in the role in October and has already demonstrated to the EC that he is an ideal leader to take APNIC into the future. For those Members who have not yet had the opportunity to meet him, I believe you'll feel the same way when you do.

Maintaining focus on what's important to you

The results of the independent 2024 APNIC Survey showed that satisfaction with the Secretariat's performance remained very high during this period of change.

Satisfaction with the quality of APNIC service (95%), the value of services (93%), and the value of membership (91%) was consistent with the 2022 survey (94%, 94% and 91% respectively). It is very rewarding to see remarkable consistency of the results over an extended period of time: Member satisfaction with

the quality and value of APNIC services has remained above 90% since 2016.

Members continued to rate APNIC's governance highly, with 88% believing APNIC is sufficiently open and transparent, with 87% satisfied with responsiveness to the changing needs of the membership.

The survey plays a critical role in helping APNIC understand those Member needs and to set priorities. You will see in the 2025 Activity Plan there are many activities planned in response to Member challenges, including continuing Internet security training and awareness; boosting government relations to help inform regulation and advocate for the Internet; equipping Members with the knowledge to deploy IPv6; and building opportunities for greater Member participation in the community.

On behalf of the EC, I would like to thank everyone in the community — 1,173 people — who took the time to provide their thoughts in the survey process. We greatly appreciate it.

Thanks also goes to APNIC staff for their efforts in 2024 during a time of change and renewal.



WELCOME FROM THE EXECUTIVE COUNCIL CHAIR – CONTINUED

Improving the Strategic Plan

The 2024–2027 Strategic Plan was scheduled to be reviewed at the end of 2025, at the halfway mark of the plan’s four-year term. However, the EC agreed to bring forward the review at the end of 2024 to take advantage of the new Director General’s fresh perspective and feedback from Secretariat staff.

The result of those efforts is a much improved Strategic Plan that aligns more closely with the APNIC By-laws’ Objects, contains clearer purpose descriptions and goals, and a stronger link to the objectives in the annual Activity Plan.

I firmly believe the revised Strategic Plan provides greater clarity for staff and the community, and will lead to better outcomes for APNIC. You can view the updated Strategic Plan on the APNIC website.

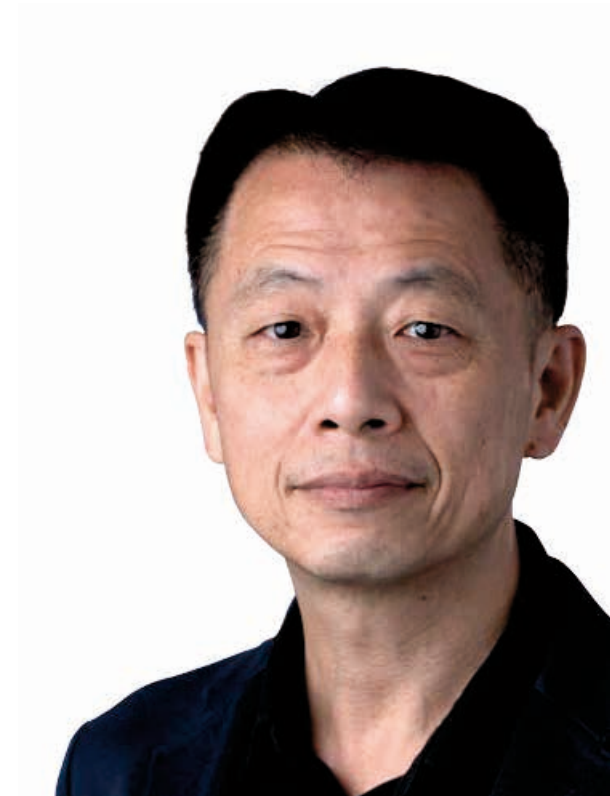
Your participation is vital

The EC is conscious of the challenges that Members shared in the survey about participating in the community; finding time alongside your day-to-day operations is not easy. We value whatever time you can spare, whether it is a lot or a little, to help develop the Internet in the Asia Pacific, and I would like to thank all Members for contributing.

If you have feedback or suggestions on any aspect of APNIC, I invite you to share it with me or my EC colleagues at any time. We are your representatives and are here to listen.

I look forward to seeing you online or meeting with you at an event in the region in 2025. Thanks again for your continued support of APNIC.

Kenny Huang





WELCOME FROM THE DIRECTOR GENERAL

Welcome to the 2024 Annual Report.

I am grateful to be selected as APNIC's new Director General, beginning on 1 October 2024. It has been an exciting and busy first few months, getting onboarded, meeting APNIC Members — old friends and new — and updating the 2024–2027 Strategic Plan and 2025 Activity Plan.

While I am looking forward to 2025, please join me in thanking the APNIC team for their achievements in the past year, and to reflect on key developments. Details are contained in this report, while here are some highlights.

IPv6 is growing, but there's more to do

IPv6 adoption in the APNIC region is very close to the long-awaited 50% milestone, closing 2024 at 48%. We can expect the 50% mark to be surpassed in the new year. It will be a moment for us as a community to celebrate, and also take the opportunity to review lessons learned, regroup and cooperate further to push IPv6 uptake even higher.

On IPv4, the amount of available IPv4 space within the APNIC pool increased by 1.5 million addresses that moved out of reserved status, as the final act of the historical resource transition project.

APNIC improvements: Making it easier for Members to manage their resources

A new registry Application Programming Interface (API) was released in 2024, allowing Members to automate whois, reverse DNS, and route management updates that currently happen manually via MyAPNIC. This saves time and reduces the chance of errors. The MyAPNIC interface and functionality were also enhanced to make it easier for Members to manage permissions for their company contacts.

A range of improvements were made to DASH, including enhanced suspicious traffic details, improved detection with the addition of more BGP sources, the ability to track bogons, and the addition of MANRS readiness scores. The number of subscribers to DASH tripled in 2024 to 528. I encourage any Members who have not yet used DASH as a network security tool to give it a try — it's free!

Satisfying training demand

APNIC has continued to investigate ways to scale technical training with limited resources to meet the ever-increasing demand in the region. The development of APNIC's first certified training course on IPv6 saw successful trials in Nepal and the Philippines, with 62 participants achieving certification. The aim is for certified course content to be shared and delivered in future by training partners to expand the reach of APNIC training. Grant funding from the APNIC Foundation and Asi@Connect led to the delivery of 169 instructor-led courses to 4,754 attendees this year.

Registry trust and accuracy

At the end of 2024, APNIC published the initial findings of its planned delegation audits across the APNIC registry and NIRs. Trust and accuracy are critical to the operation of a registry, and APNIC has zero tolerance for the misallocation of resources in its registry or those of NIRs operating in the region. All number resource delegations and transfers must be made in strict adherence to community-developed policies. The audits are a key focus in 2025, and APNIC will continue to update on progress, and the steps being taken to further strengthen policy compliance.



WELCOME FROM THE DIRECTOR GENERAL - CONTINUED



ICP-2 review

Momentum around the review of ICP-2 picked up during the year. If you're unaware, ICP-2 (or Internet Coordination Policy-2) was created in 2001 to state the fundamental principles required for recognizing and evaluating a Regional Internet Registry (RIR). More than 20 years later, this document is being reviewed by the ASO AC (NRO NC) at the request of the NRO to ensure it remains fit for purpose.

It's an important review, and thanks goes to everyone in the community who has provided feedback so far on the draft principles developed by the ASO AC. I'd also like to thank the ASO AC representatives from the APNIC region for their diligence and contributions to this global review. Work continues in 2025 and I encourage all Members to provide input into the next stage.

10 years of community publishing

In August 2014, APNIC experimented with a new blog to better communicate APNIC information, but also to share stories and insights from the Internet operations community. A decade later, this community publishing experiment has become the industry's leading portal for opinion and research news, now attracting more than 1.2 million views a year. Since 2014, 867 community members have contributed 1,436 posts to the APNIC Blog - wow!

An exciting future

The updated 2024-2027 [Strategic Plan](#) charts key goals for APNIC, amidst the backdrop of rising global costs, and geopolitical and regulatory challenges. I look forward to partnering with you to achieve these goals. Only with Members and key stakeholders engaged, and APNIC delivering what it promises as a responsible RIR, and member of the Internet ecosystem, can we continue to keep the Internet global, open, stable and secure.

Thank you.

Jia Rong Low



Vision and Mission

VISION

A global, open, stable, and secure Internet.

MISSION

To provide essential services as a Regional Internet Registry, and to support Internet development in the Asia Pacific region.

PURPOSE

To serve our community.

IDENTITY

A not-for-profit trusted authority on Internet infrastructure.

VALUES

- Passion
- Trust
- Curiosity
- Accountability
- Inclusion

CREDO

- We are APNIC.
- One team dedicated to making a positive impact.
- Our ambition will be achieved by working together.
- Trust and respect for each other are not negotiable.
- Inclusion and diversity really matter to us.
- We take pride and excel in everything we do.
- We are curious. We are accountable.
- We are APNIC.



Strategic Pillars

The Four Year Strategic Plan (2024-2027) defines four pillars of APNIC activity, including two 'Value Streams' — APNIC's core work delivering value to Members and the community — and two 'Enablers', which cover activities required for the Value Streams to be successful.

VALUE STREAMS

ENABLERS



REGISTRY

APNIC allocates Internet number resources in the Asia Pacific region according to community-developed policies.

It maintains the verifiable public registry of those resources and provides support and technical tools to help Members operate and improve their networks.



DEVELOPMENT

APNIC supports development of the Internet in the Asia Pacific by providing technical training, helping deploy critical Internet infrastructure, and supporting the growth of technical and security communities.



ENGAGEMENT

APNIC undertakes authoritative research, shares data, and encourages community discussions via two annual conferences and other communication/discussion platforms.

Members and the community participate in the development of number resource policies.

APNIC participates and contributes to the global Internet governance ecosystem, and helps advocate for the technical community with relevant stakeholders.



CAPABILITY

As an open, member-based, not-for-profit organization, APNIC must serve its Members and the community with integrity, transparency, financial responsibility and accountability.

This takes the form of effective organizational policies, financial management, risk mitigation, operational technologies, communication and governance structures that allow APNIC's team of committed staff to deliver its mission.



APNIC Activities

This plan defines 13 workstreams across the Value Streams and Enablers. Each workstream includes a number of activities which are described in this plan.

Registry

- R1 REGISTRY SERVICES**
Provide delegation and registration services for Internet number resources (ASNs, IPv4, and IPv6) according to community developed policies, and deliver excellence in service and value to Members
- R2 PRODUCTS AND INFRASTRUCTURE**
Maintain an accurate number registry; provide stable, reliable and secure registry services; and develop products that meet Members' needs and exceed their expectations

Development

- D1 APNIC ACADEMY**
Develop and deliver high-quality training content and curriculum via instructor-led and self-paced training courses
- D2 TECHNICAL AND SECURITY COMMUNITY SUPPORT**
Support the deployment of critical Internet infrastructure and encourage the adoption of best practices, while building meaningful relationships with the technical and security communities
- D3 APNIC LABS**
Analyse the pressures shaping the evolution and future demands of Internet names and numbers infrastructure, and their impacts

Engagement

- E1 RELATIONSHIP COORDINATION**
Coordinate the development and maintenance of close and meaningful relationships between APNIC, Members, and the wider community
- E2 ONLINE COMMUNICATION**
Encourage an active, informed and connected community via APNIC's online engagement and information platforms
- E3 STAKEHOLDER COOPERATION**
Build on APNIC's relationships with Members and the technical community to engage with stakeholders in the wider Internet community, governments, and civil society
- E4 COMMUNITY PARTICIPATION**
Encourage awareness, diversity, participation, and leadership in APNIC processes, events, and activities

Capability


- C1 BUSINESS SYSTEMS**
Provide stable and secure systems to support APNIC operations and curated data for decision making
- C2 FINANCE AND BUSINESS SERVICES**
Provide efficient and robust finance and business services to effectively support APNIC's operations
- C3 EMPLOYEE EXPERIENCE**
Develop and retain talented, service-oriented people to deliver APNIC's mission and exceed organization and community expectations
- C4 GOVERNANCE**
Maintain strong, high-quality business processes and rules, and the commitment to transparency, compliance and accountability to ensure APNIC continues to be a well-governed organization



2024 at a Glance

2024

R1.1



IPv6 growth

Members with IPv6 addresses
66.96%

Asia Pacific IPv6 capability
48.5%

D1



Training

Instructor-led training
169 courses

4,754 participants

R2.3




Information products

528 for a total of **977** alerts
DASH alerts subscribers

E4.1

Conferences



920 participants
855 in-person; 65 remote

APRICOT 2024
APNIC 57

4,695 YouTube views
799.17 YouTube hours viewed

58 **423** participants
349 in-person; 74 remote

APNIC 58

2,348 YouTube views
296.2 YouTube hours viewed


R1.1

Available resources



0.5% | **93.5%** | **4.8%**
IPv4 | IPv6 | ASNs

D1.2




Academy

4,734 course completions | **13,398** contact hours

23,305 labs launched | **9,899** new accounts

E2.1



Blog

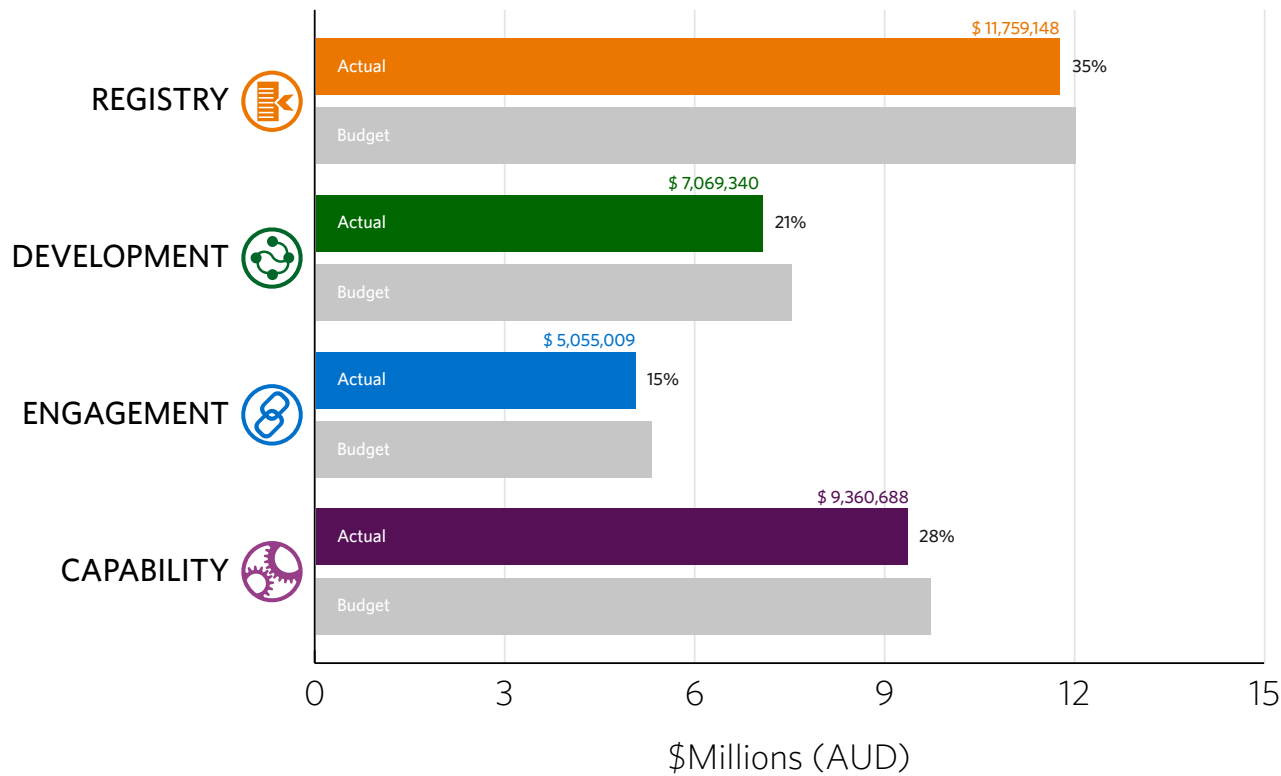
103,438
Views per month

16,346
Impactful plays over **25** podcasts



Financial Performance Summary

OPERATING EXPENSES BY OUTCOME AREA



In addition to standard financial reporting, APNIC also reports activities and expenses under the four pillars and 13 workstreams detailed on pages 10.

The chart on this page illustrates 2024's actual operating expenses compared to the budget in the 2024 Activity Plan. The percentage for each area indicates the proportion of the total budget it represents.

For more details on APNIC's 2024 finances, please refer to pages 69-72 to view:

- Financial Report by Activity
- Statement of Financial Position
- Statement of Income
- Cash Flow Statement

Note: Some numbers presented in this chart may not add up precisely due to rounding.



Notes on the Activities

APNIC's activities are reported in this document under four pillars and 15 workstreams.



REGISTRY



DEVELOPMENT



ENGAGEMENT



CAPABILITY

SUCCESS INDICATORS

The status of the Success Indicators in the document's following pages is denoted by the coloured circle for 'at-a-glance' reference on progress.



Completed



At least 90% complete



Less than 90% complete

A table summarizes the resources (financial and human) needed to successfully complete the activities in each workstream.

All monetary figures are quoted in Australian Dollars (AUD).

| | | Budget | Actual |
|---|----------|-----------|-----------|
| 1 | PY | 32.70 | 31.55 |
| 2 | Expenses | 7,876,406 | 7,498,887 |
| 3 | CAPEX | 241,000 | 243,451 |

1 **PY:** A 'person year', representing the amount of work done by one full-time staff member in one year. Most activities incur a staffing cost, expressed in PY, and in most cases, comprises contributions from multiple employees. For example, a PY value of 1.6 may comprise four employees who each contribute 40% of their time for a period of one year (0.4 PY). The detailed account of these allocations is provided in Appendix B.

2 **OPEX:** Refers to all operational costs directly incurred by the activity (in AUD).

3 **CAPEX:** Provides the provision for capital expenditure required by the activity (in AUD).



REGISTRY (R)

PURPOSE

APNIC allocates Internet number resources in the Asia Pacific region according to community-developed policies.

It maintains the verifiable public registry of those resources and provides support and technical tools to help Members operate and improve their networks.

GOALS

- Execute APNIC's core responsibility to maintain an accurate registry and provide delegation and registration services for Internet numbers (ASN, IPv4, IPv6).
- Provide core registry services to help maintain a global, secure, available and stable Internet.
- Deliver excellence in service and value to Members.
- Develop and maintain high quality products and services to Members with a focus on continuous improvement.
- Ensure APNIC's online services are underpinned by high-performance infrastructure that is reliable, available, and secure.

WORKSTREAMS

- Registry Services (R1)
- Products and Infrastructure (R2)





R1 Registry Services

R1.1 Resource Registration and Transfers

APNIC processed 1,266 IPv6 delegations, 1,672 IPv4 delegations, 719 ASN assignments, 410 IPv4 market transfers (126 within the Asia Pacific region and 284 between APNIC and other RIR regions), and 89 Merger and Acquisition IPv4 transfers. These are illustrated on the following pages.

The proportion of APNIC Members that hold IPv6 resources is 66.96%, a decrease from 2023's figure of 67.73%. This is due to Associate Members joining to manage their historical (IPv4) address space.

At the end of 2024, APNIC had allocated 99.6% of its total IPv4 number resource pool, 6.5% of its IPv6 pool and 95.3% of its ASN pool. APNIC received a second IPv6 /12 (2410::/12) from IANA in November 2024.

The status of APNIC's Internet number resource pools at the end of 2024 is below.

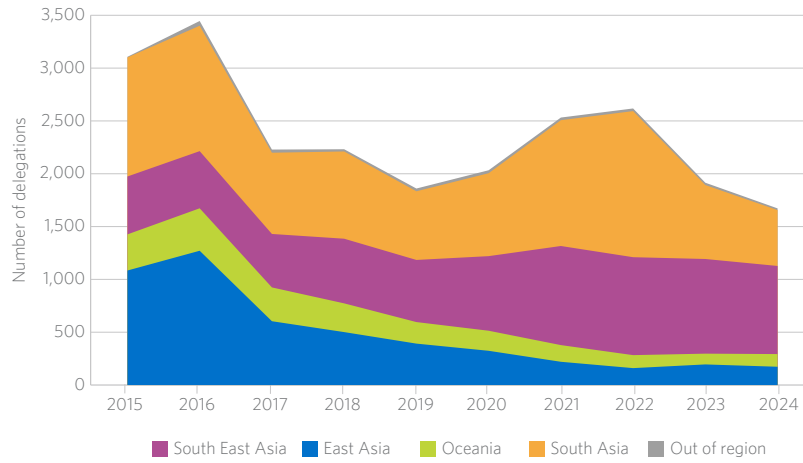
| | Total at 1 Jan 2024 | From IANA | Transfers in | Transfers out | Total at 31 Dec 2024 | Total delegated | Total reserved | Total available |
|--------------------|------------------------|--------------|-----------------|------------------|----------------------------|--------------------|-------------------|--------------------|
| IPv4 (/24s) | 3,479,754 | 0 | 1,032 | 6,913 | 3,473,873 | 3,458,524 | 1,377 | 13,972 |
| IPv6 (/32s) | 1,067,008 | 1,048,576 | 0 | 0 | 2,115,584 | 136,643 | 452,201 | 1,526,740 |
| ASNs | 31,378 | 0 | 5 | 11 | 31,372 | 29,891 | 0 | 1,481 |

| | Budget | Actual |
|----------|-----------|-----------|
| PY | 20.31 | 20.01 |
| Expenses | 4,144,055 | 3,785,044 |
| CAPEX | - | - |

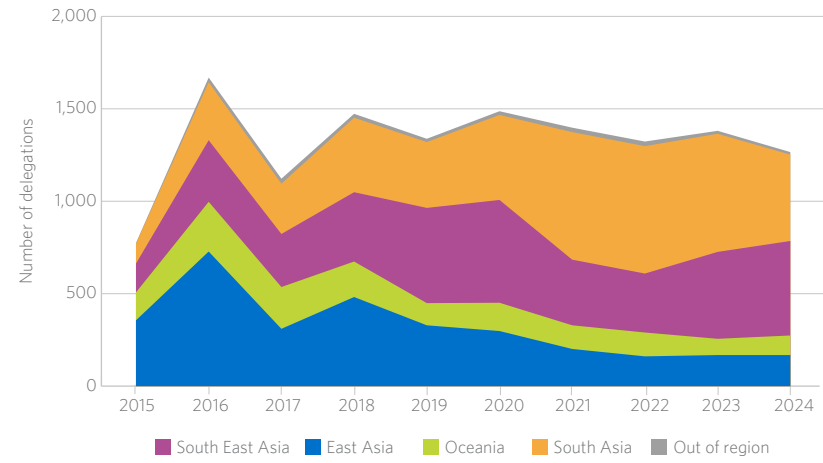


R1 Registry Services – continued

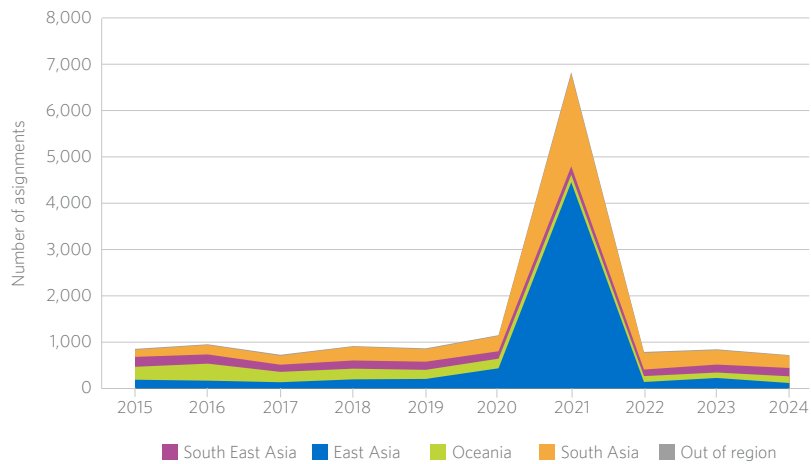
IPv4 DELEGATIONS



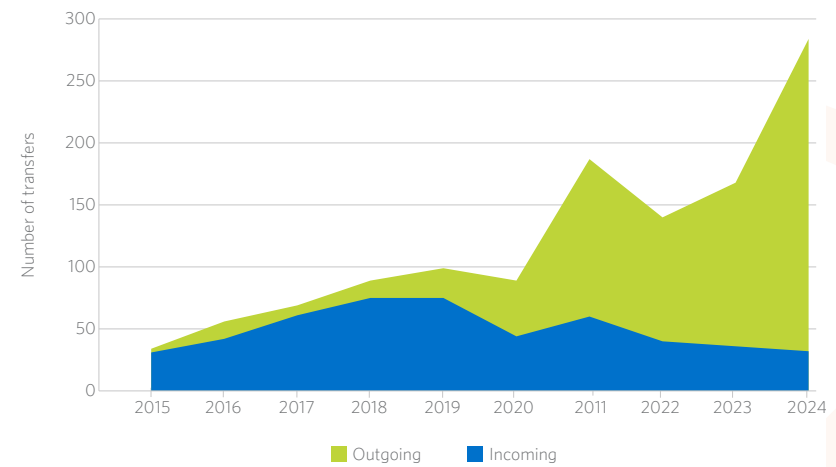
IPv6 DELEGATIONS



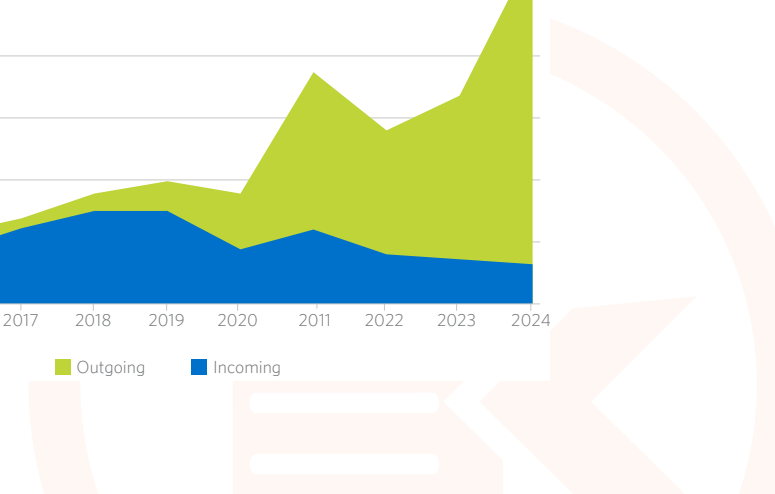
ASN ASSIGNMENTS



IPv4 MARKET TRANSFERS



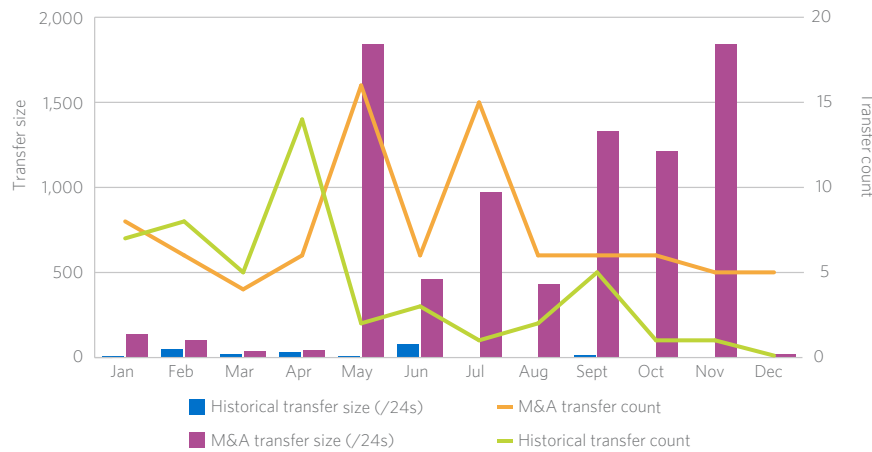
Note: Large requests from networks in China and India account for the significant rise in ASN assignments in 2021.



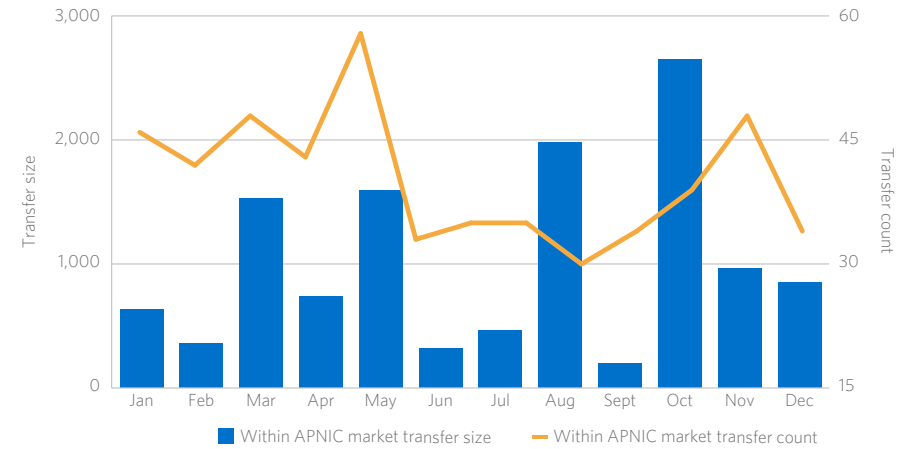


R1 Registry Services – continued

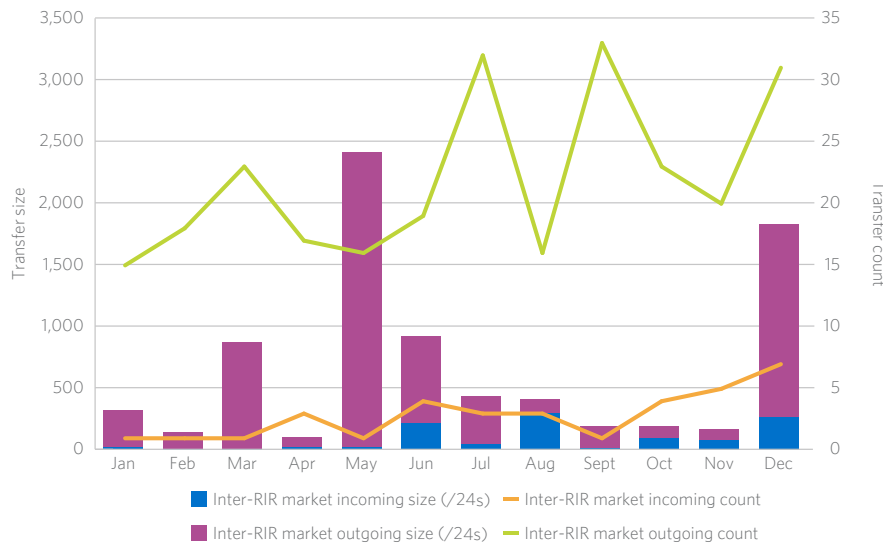
M&A AND HISTORICAL TRANSFERS



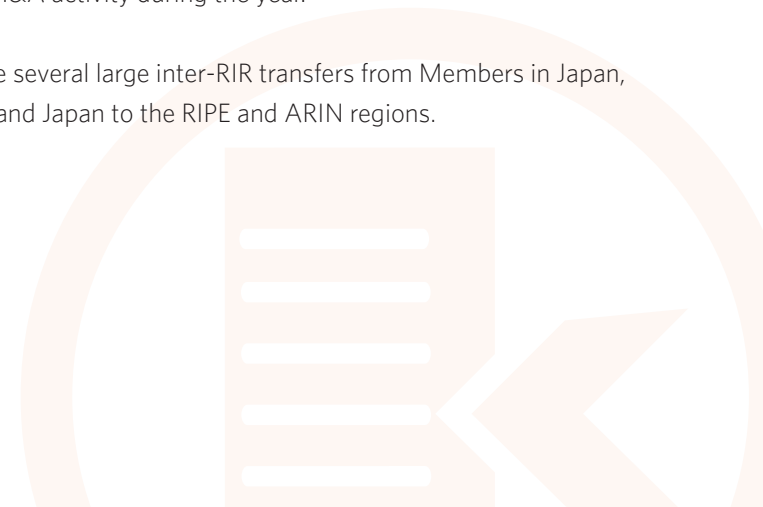
MARKET TRANSFERS WITHIN APNIC



INTER-RIR IPv4 TRANSFERS

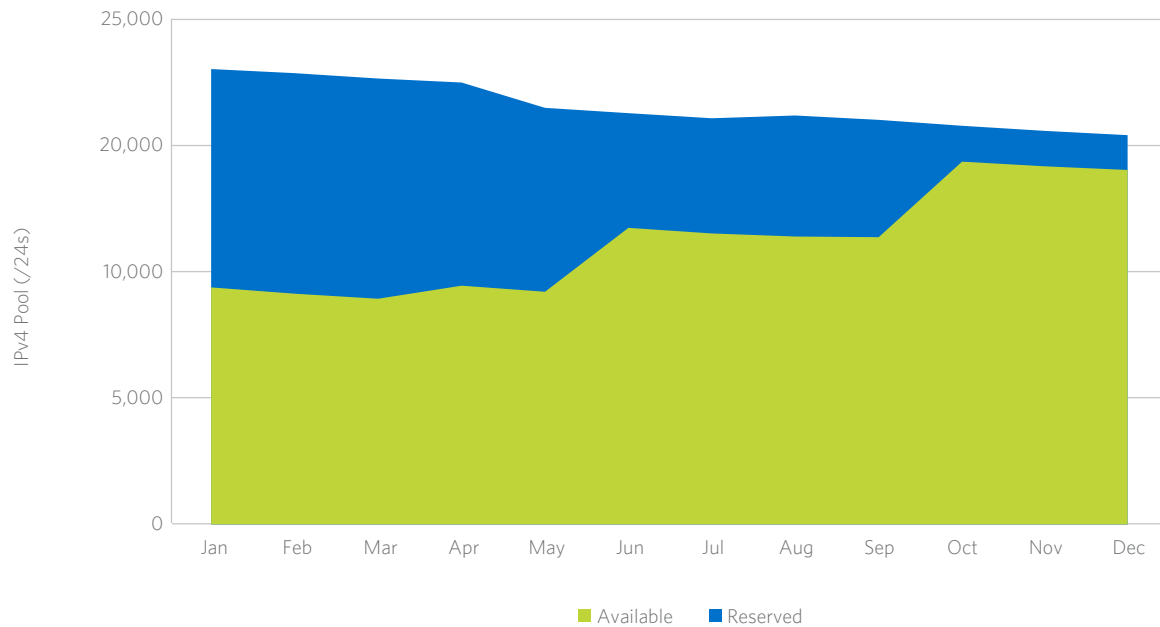


- Large M&A transfers in Japan, Australia and India, account for the large spikes in M&A activity during the year.
- There were several large inter-RIR transfers from Members in Japan, Australia, and Japan to the RIPE and ARIN regions.



R1 Registry Services – continued

AVAILABLE IPv4 ADDRESS SPACE



Reclaimed addresses are moved to APNIC's reserved pool for checking to ensure any problems routing the space are minimized.

Reserved address space with no issues affecting routability is recycled into the Available pool for distribution.

APNIC's available IPv4 space increased by 1,526,016 addresses (5,961 x /24s) that were reserved in 2023 as part of the historical resources transition project.





R1 Registry Services – continued

Correct and current registry data

Members with invalid Incident Response Team (IRT) objects were identified and assisted with completing their validation. 79.1% of Members validated their IRT object (8,376 of 10,586 accounts).

All APNIC resources were accounted for in the NRO extended delegation statistics.

RESOURCE REGISTRATION COMPLETENESS

| Type of Record | Number of records | % of total records |
|--|-------------------|--------------------|
| Have a parent block with organization object and IRT | 43,041 | 97.8% |
| Have a parent block with organization object and validated IRT | 34,497 | 78.4% |
| Have a parent block with only organization object | 2 | 0.005% |
| Have a parent block with only IRT | 610 | 1.4% |
| Have a parent block with no organization object and no IRT | 362 | .82% |



R1 Registry Services – continued

R1.2 Member Services

The Member Services team handled 12,235 tickets created by Member and community enquiries, 989 voice calls and 4,587 online chat sessions. In addition, more than more than 11,588 Member invoices were processed. The APNIC Helpdesk maintained its standing commitment to respond to Member queries within two business days.

The average email response time for the Member Services team is 8.4 working hours, based on a workday from 09:00 to 21:00 (UTC +10). The average response times for each queue are as follows:

- Helpdesk: 8.8 hours
- Admin: 8.2 hours
- Hostmaster: 8.1 hours

Helpdesk service satisfaction remained high with 96.1% of respondents providing 'excellent' and 'above average' scores (617/642 responses). All negative feedback was actively resolved by Member Services staff.



R1 Registry Services – continued

Member outreach and NIR engagement

There were 41 proactive Member outreach engagements across 36 economies, covering RPKI, resource transfers, technical assistance, upcoming events, and referral applications.

Eight meetings were held with each NIR throughout the year, covering operational matters and topics including DASH, RDAP, and RPKI.

APNIC staff visited TWNIC (April), VNNIC (June), CNNIC (June and November), JPNIC (November) and APJII/IDNIC (December) to discuss registry operations. Staff also conducted hostmaster training at APJII/IDNIC in December.

In April, APNIC hosted the new CEO of TWNIC and the Director of the IP Addressing Department for a three-day visit, and in December, hosted the CEO of APJII.

The APNIC-VNNIC MoU was renewed at the VNNIC Internet Conference in June, and the CNNIC MoU was renewed in December.





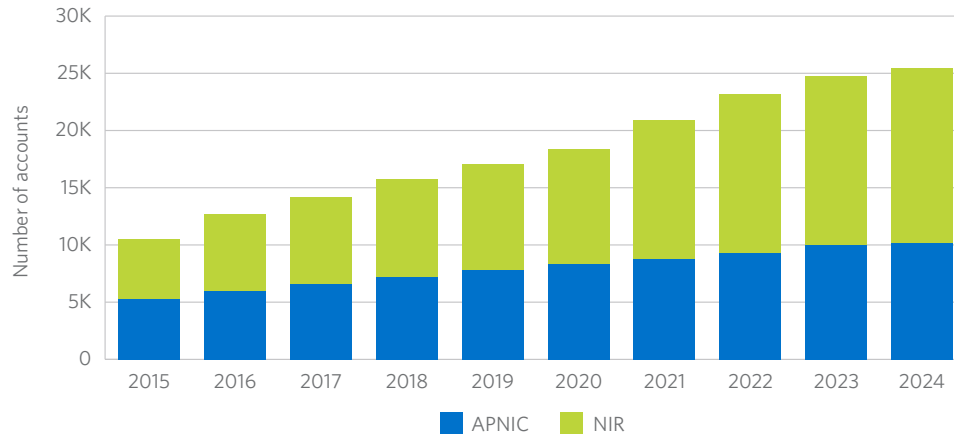
R1 Registry Services – continued

Membership development

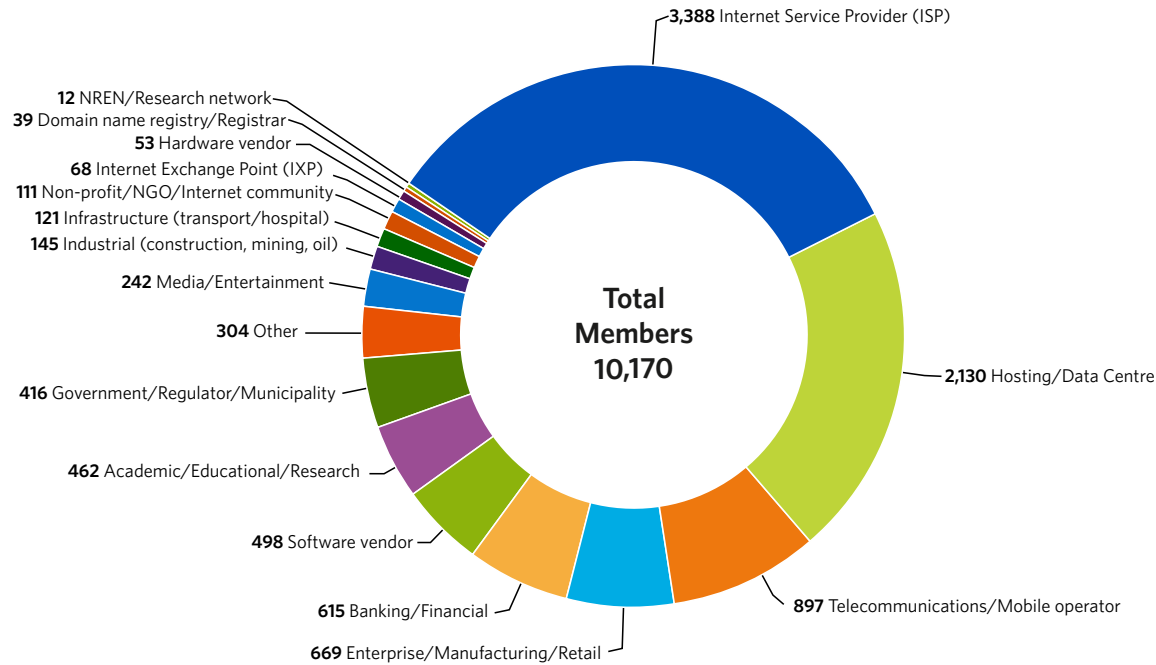
Membership development engagements were conducted at Convergence India Expo (New Delhi), APNIC 57 (Bangkok), PCTA Convention (Manila), CommunicAsia 2024 (Singapore), SANOG 41 (Mumbai), bdNOG 18 (Cox’s Bazar), SCAT India (Mumbai), SANOG 42 (Islamabad) and PacNOG 34 (Apia).

A total of 667 new Members joined APNIC, including 39 from Member referrals. The net new Members added (including closures and reactivations) was 226.

MEMBERSHIP GROWTH



R1 Registry Services – continued



At the end of 2024, APNIC direct membership stood at 10,170, an increase of 1.8% on 2023. In addition, there were 15,216 NIR sub accounts, after growth of 3.4% in 2024.

Total combined membership was 25,386.





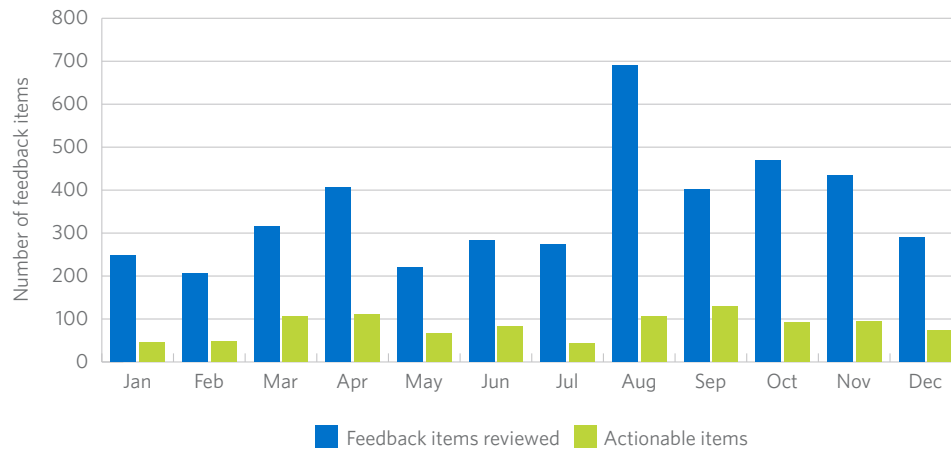
R1 Registry Services – continued

R1.3 Membership experience

A total of 4,241 feedback items were received from Members and the community, with 998 requiring action (all have been resolved).

The majority of the feedback related to training sessions, reflecting the high volume of input requested from the community. Other feedback related to improvements to user experience on APNIC websites, easier access to help and support information, new feature suggestions to live chat, and conference program content.

FEEDBACK ITEMS



R1 Registry Services – continued

User research

A total of 469 user research engagements (user experience tests, surveys, and one-on-one interviews) held with Members and the community covered improvements to the APNIC Academy and RPKI, the conference registration process, how users seek help on APNIC websites, and navigation between APNIC products.

2024 APNIC Survey

The 13th APNIC Survey was conducted from 12 June to 5 July 2024. The survey questionnaire was developed following 48 interviews with Members, stakeholders, and NIRs (most interviews were conducted at APRICOT 2024). Both the survey and interviews were conducted by independent researcher, Survey Matters.

 survey.apnic.net

A total of 1,173 valid responses were received for the main survey, with 69% of responses received from Members. Thirty percent of responses were completed in a language other than English.

The survey results were presented at APNIC 58 in Wellington and shared with the community online. The findings were used to inform the development of the 2025 Activity Plan.

A snapshot of the survey results is included on the following page.

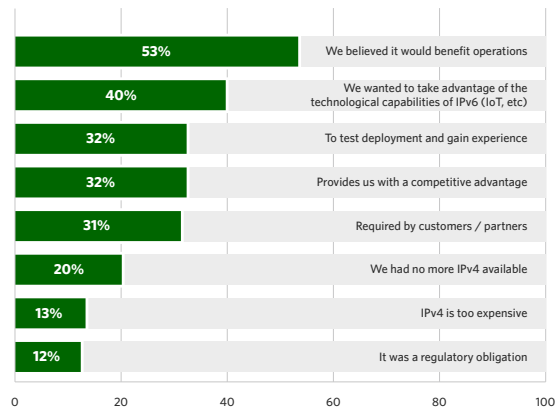




R1 Registry Services – continued

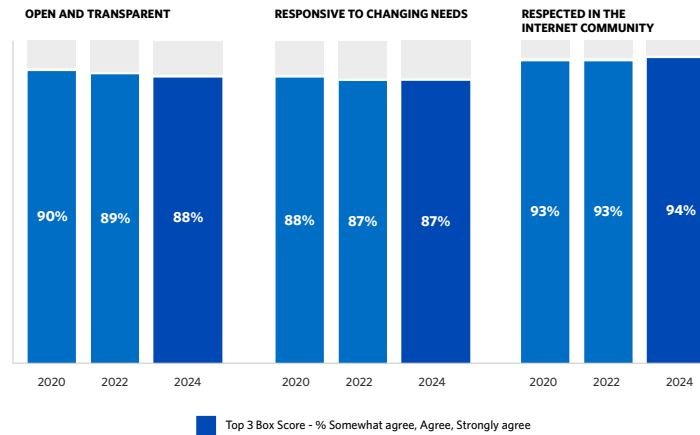
IPv6

REASONS FOR DEPLOYMENT



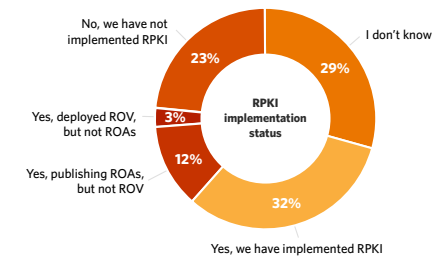
GOVERNANCE

HOW MUCH YOU AGREE THAT APNIC IS:



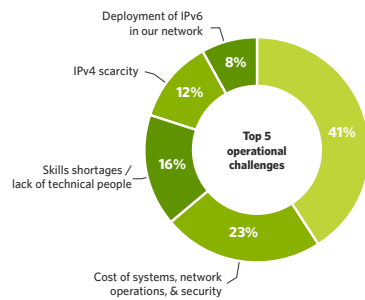
RPKI

RPKI IMPLEMENTATION STATUS

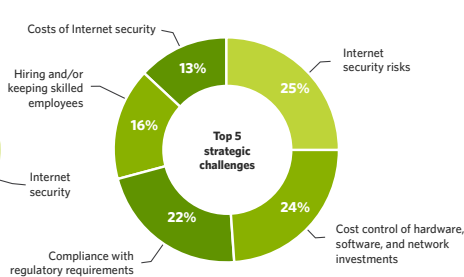


MEMBER CHALLENGES

OPERATIONAL CHALLENGES

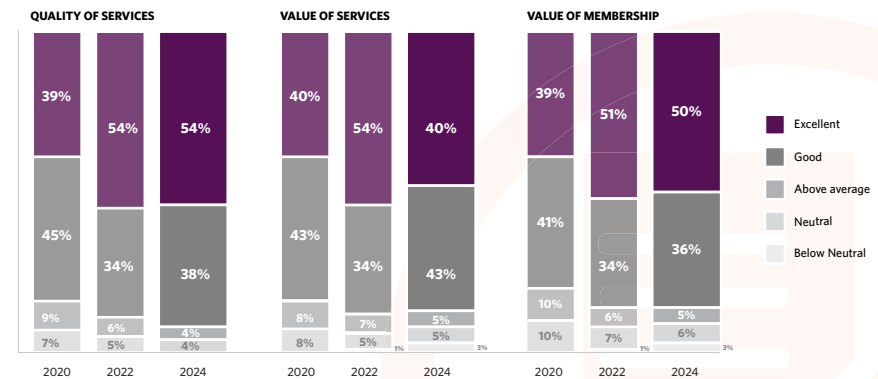


STRATEGIC CHALLENGES



MEMBERSHIP SATISFACTION

HOW WOULD YOU RATE APNIC'S:



R1 Registry Services – continued

R1.4 Policy Development

The APNIC Policy SIG considered the following proposals in 2024.

www.apnic.net/policy

| Proposal | Result |
|--|--|
| prop-154: Resizing of IPv4 assignments for IXPs | Reached consensus and endorsed by the EC for adoption. Implementation in progress. |
| prop-156: Assignment of temporary IP resources | Reached consensus and endorsed by the EC for adoption. Implementation in progress. |
| prop-157: Temporary IPv4 transfers | Did not reach consensus and proposal was abandoned. |
| prop-158: IPv6 auto-allocation for each IPv4 request | Did not reach consensus and returned to the mailing list. |
| prop-159: Reduction of minimum IPv6 allocation size from /32 to /36 | Proposal was abandoned. |
| prop-160: Change IPv6 Initial assignment to /44 for Organizations Eligible for /23 IPv4 | Did not reach consensus and returned to the mailing list. |
| prop-161: Using IPv6 for Internet of Things (IoT) | Presented as an informational topic only. |

Prop-155: IPv6 PI assignment for associate members, endorsed for adoption in 2023, was implemented.

Impact assessments of the policy proposals discussed at the APNIC 57 and APNIC 58 Open Policy Meetings (OPMs) were published on the website, shared with the Policy SIG mailing list, and presented at the conferences.



R1 Registry Services – continued

SUCCESS INDICATORS – R1

| Targets | Results | Status |
|--|--------------------------|--------|
| Achieve and maintain an average satisfaction score of at least 85% for resource delegation and transfers | 98% satisfied | ● |
| 100% of tickets receiving 'poor' ratings are investigated for policy and procedure compliance | No poor ratings received | ● |
| Maintain Helpdesk SLA of two business day response to enquiries (>99.90%) | 99.99% | ● |
| Maintain service satisfaction ratings of at least 93% 'excellent and above average' feedback | 96.1% | ● |
| Establish ticket response time baseline measurement by end Q2 | Complete (8.4hrs) | ● |
| Increase total number of Members by 370 | 226 net new Members | ● |
| 100% of feedback items are assessed and acted upon | 100% | ● |
| Increase total user research to at least 400 engagements | 462 engagements | ● |
| Face-to-face user research events are held at least once in each sub-region | Complete | ● |
| Achieve total APNIC Survey response of at least 1,500 completions | 1,173 responses | ● |
| Achieve Policy SIG Chair support satisfaction of at least 85% | 85% | ● |
| Publish a policy proposal impact analysis before each Open Policy Meeting (OPM) | 2 published | ● |
| Meet 100% of policy implementation timelines | Completed | ● |



R2 Products and Infrastructure

R2.1 Registry Products

Roadmap goals completed

- Registry API
- IRRd deployment
- RPKI BKPI updates

Roadmap goals in progress

- RDAP server re-architecture
- Update authorization mechanisms for whois
- RPKI RSC objects
- NIR ASN direct assignments
- RPKI resilience
- prop-154 implementation
- NIR account holder org objects
- Core registry updates

roadmap.apnic.net

IETF participation

Two RFCs were published:

- RFC 9589: On the use of Cryptographic Message Syntax (CMS) Signing Time Attribute in RPKI Signed Objects
- RFC 9691: A Profile for RPKI Trust Anchor Keys

Five IETF drafts are in development:

- RDAP RIR Search
- An RDAP Extension for Geofeed Data
- RDAP Extensions
- RPKI Manifest Number Handling
- RPKI Publication Server Best Current Practices

| | Budget | Actual |
|----------|-----------|-----------|
| PY | 32.70 | 33.15 |
| Expenses | 7,876,406 | 7,974,104 |
| CAPEX | 241,000 | 170,985 |



R2 Products and Infrastructure – continued

R2.2 Membership Products

A MyAPNIC satisfaction survey was completed and achieved a result of 84% from 255 participants.

 roadmap.apnic.net

Roadmap goals completed

- Implement prop-155
- Improve contact management in MyAPNIC
- Upgrade OKTA
- Migrate Helpdesk Queue to CRM (Phase 1)
- Automated document generation in MyAPNIC
- Authenticated Chat
- Orbit report abuse feature
- Test and UAT environment enhancement (Phase 1)
- Generate renewal quote in MyAPNIC
- Theme data list usage
- 2025 fee increase phase 2
- Orbit 'All Mailing Lists' page improvements
- Orbit list page improvements

Roadmap goals in progress

- Re-architect Member application workflow code
- prop-154: Implementation of IXP assignment
- prop-156: Assignment of Temporary IP resources
- Implement mandatory multifactor authentication



R2 Products and Infrastructure – continued

R2.3 Information Products

DASH alerts subscribers increased by 203% in 2024. There were 528 subscribers for a total of 977 alerts, and an additional 113 subscribers to suspicious traffic reports.

 roadmap.apnic.net

Roadmap goals completed

- Expand suspicious traffic feature in DASH for Members not holding ASNs
- Enhance suspicious traffic details in DASH for deeper investigation and resolution
- Enhanced data filtering in REx with NIR focus
- Leveraging MANRS Readiness Score with DASH
- Bogons service addition to DASH
- Public release of DASH widget on the MyAPNIC dashboard
- Upgrade DASH web framework

Roadmap goals in progress

- Augment DASH with additional BGP sources for improved global routing visibility

Roadmap goals abandoned

- DASH domain name abuse feature
- Graph database dashboard



R2 Products and Infrastructure – continued

R2.4 Infrastructure Services

Infrastructure improvements in 2024 included:

- DNS anycast label NS1 was deployed (replacing Netnod), and additional nodes were added in Brisbane, Singapore and Japan.
- An upgraded on-premise production Kubernetes cluster was deployed, with migration of workloads in progress.
- The upgrade of the main APNIC database to MySQL 8.
- Migration of Linux servers to a supported operating system continued, with final completion expected in early 2025.
- Static Application Security Testing (SAST) integrated into all production product pipelines.
- All cloud infrastructure and ‘Software-as-a-Service’ (SaaS) configurations (approximately 54,000 assets) are now managed as Terraform ‘infrastructure-as-code’ to improve consistent management and standards of infrastructure, and monitored by ‘Firefly’ to ensure ongoing compliance for new and changing assets.
- Quarterly failover and recovery testing was successfully completed on network and data centre infrastructure.



R2 Products and Infrastructure – continued

Core system uptime

| | |
|----------------------|--------|
| FTP | 99.99% |
| MyAPNIC | 99.99% |
| RDNS | 99.99% |
| RDNS DNSSEC Validity | 100% |
| Whois/IRR | 99.99% |
| RPKI | 99.99% |
| RDAP | 99.99% |

Average data centre bandwidth usage (Mbps)

| | |
|------------------|-----|
| AU edge inbound | 913 |
| AU edge outbound | 900 |
| JP edge inbound | 431 |
| JP edge outbound | 235 |
| SG edge inbound | 238 |
| SG edge outbound | 217 |

Average query rates per second

| | |
|-----------------------|--------|
| Whois | 822 |
| RDAP | 129 |
| RDNS | 92,000 |
| RPKI (RSYNC and RRDp) | 47.47 |
| FTP (HTTP + FTP) | 1.5 |
| MyAPNIC | 0.2 |



R2 Products and Infrastructure – continued

SUCCESS INDICATORS – R2

| Targets | Results | Status |
|---|---|--------|
| Active participation in IETF standardization work as it related to RPKI, and RDAP services | 2 published; 5 in draft | ● |
| Complete all goals for Registry Products as outlined in the APNIC Product Roadmap | 3/11 resolved | ● |
| Achieve average satisfaction of at least 80% for MyAPNIC | 84% | ● |
| Complete all goals for Membership Products as outlined in the APNIC Product Roadmap | 13/17 resolved | ● |
| Achieve at least 20% increase in the number of DASH alert subscribers from 2023 (from 174 to 209) | 528 subscribers (203% increase) | ● |
| Complete all goals for Information Products as outlined in the APNIC Product Roadmap | 9/10 resolved | ● |
| Complete regular data centre failover and backup recovery tests | Completed | ● |
| Maintain availability of at least 99.99% for critical APNIC services and at least 99.955 for less-critical services | 99.99% (critical services); 99.99% (less critical services) | ● |
| Respond to all critical incidents within 20 minutes | No critical incidents | ● |
| Migrate all services using end-of-life OS by Q4 2024 | In progress | ● |
| Implement product pipeline code scanning by Q4 2024 | Completed | ● |
| Migrate all SaaS resources to infrastructure-as-code management by Q4 2024 | Completed | ● |



DEVELOPMENT (D)

PURPOSE

APNIC supports development of the Internet in the Asia Pacific by providing technical training, helping deploy critical Internet infrastructure, and supporting the growth of technical and security communities.

GOALS

- Assist Members and the community to deploy critical Internet infrastructure, essential cybersecurity operations, and advanced network technologies.
- Build and maintain cost-effective and scalable capacity building models to meet the needs of the APNIC region.
- Support and encourage the sustainable development of healthy Asia Pacific technical and security communities.

WORKSTREAMS

- APNIC Academy (D1)
- Technical and Security Community Support (D2)
- APNIC Labs (D3)





D1 APNIC Academy

D1.1 Training content and curriculum

New BGP content was developed for instructor-led training and IPv6 training content was expanded and improved. A new Network Automation workshop course and ‘Train-the-Trainers’ initiative were launched at APRICOT 2024.

academy.apnic.net

The Academy also developed and updated nine virtual labs:

- Lawful Intercept using OpenLI
- Combined MikroTik OSPF/BGP
- Combined Juniper OSPF/IS-IS/BGP
- Combined Cisco OSPF/IS-IS/BGP
- Deploying BGP (Cisco IOS)
- SRv6 Lab (Cisco IOS XR)
- RPKI deployment
- IXP on EVE-NG
- Ubuntu OS upgrade for virtual labs

Participants completed 43,625 hours of self-paced, online learning, with 98% satisfied with the course content.

D1.2 Academy platform

Participants completed 4,734 courses (13,398 contact hours) and launched 23,305 labs (30,227 hours completed) on the APNIC Academy platform in 2024. The online Academy now has 45,245 accounts after 9,899 new accounts joined.

roadmap.apnic.net

Roadmap goals completed

- Changes to virtual labs
- Modernize the Academy platform (planning and design phase)
- Rollout APNIC Academy IPv6 Certification (Associate) ALPHA Trial

| | Budget | Actual |
|----------|-----------|-----------|
| PY | 19.88 | 19.39 |
| Expenses | 4,587,078 | 4,563,320 |
| CAPEX | 20,000 | 13,952 |

D1 APNIC Academy – continued

D1.3 Training events

APNIC trainers conducted a total of 169 courses (92 online/hybrid and 77 face-to-face) to 4,754 attendees, including:

- Training at 31 technical community events, including 25 NOGs.
- Six training sessions with NIRs (CNNIC, IRINN, TWNIC, VNNIC).
- Tutorials at APAN and APAC DNS Forum.
- Forty-six online Open Tutorials and Labs.
- Partnering with Asi@Connect for ten training events, and KDDI and APT on training in Lao PDR, Myanmar (online) and Indonesia.
- Delivering the IPv6 Certification (Associate) ALPHA trial in Nepal and the Philippines.

Trainers also supported the Asia Pacific Internet Engineer (APIE) program in Japan, Malaysia and Indonesia.

Retained Community Trainers (RCTs) participated in 100 training events, with 77 leading sessions as the primary trainer. Voluntary Community Trainers (VCTs) have supported 55 training events (29 online/hybrid and 26 face-to-face). There are 35 active VCTs and 9 RCTs.

 academy.apnic.net





D1 APNIC Academy – continued

SUCCESS INDICATORS - D1

| Targets | Results | Status |
|--|-----------------|--------|
| Achieve at least 12,000 hours of usage in self-paced online courses and virtual labs in 2024 | 43,625 hours | ● |
| Achieve average satisfaction of at least 80% on training content | 98.42% | ● |
| Maintain Academy platform of at least 99.95% | 100% | ● |
| Achieve a total of 38,000 registered users on Academy platform in 2024 | 45,245 users | ● |
| Complete all goals for Academy products as outline in the APNIC Product Roadmap | Completed | ● |
| Conduct at least 1,200 hours of instructor-led training | 2,352 hours | ● |
| Conduct at least four workshops / tutorials for each core topic | Completed | ● |
| Achieve average training satisfaction of 80% on instructor-led training delivery | 98.2% | ● |
| Maintain cohort of 30 VCTs and 10 RCTs | 35 VCTs; 9 RCTs | ● |





D2 Technical and Security Community Support

D2.1 Technical Engagement

APNIC supported 44 technical community events, including 31 Network Operator Group (NOG) events during 2024, providing sponsorship, speakers, training, and technical support (see the Appendix for the full list of events and economies).

Staff also participated on the Organizing and Program Committees for 14 events, including APAN 57 and 58, APRICOT 2024, MMIX/MMNOG 2024, PhNOG 2024, TWNOG 5, bdNOG 18, LKNOG 8, TLNOG 1, mnNOG 6, KHNOG 6, LANOG 2.0, SANOG 42, and npNOG 10. APNIC provided support to the revived TWNOG 5, and the inaugural TLNOG, held in August. APNIC was the Founding Partner and Platinum Sponsor.

APNIC was the local host for IETF 119, held in Brisbane in March 2024.

APNIC supported and participated in 24 security community events, including the APCERT Steering Committee for their in-person meeting at APRICOT 2024, BtCIRT, Mongolia Public CSIRT, CERT Vanuatu, CERT Kiribati, KrCERT/CC, and the APAN Security Working Group as the new Chair.

APNIC engaged with the CERT/CSIRT community at the FIRST Annual Conference 2024 and the APCERT Annual General Meeting 2024, and collaborated with FIRST to organize the security track at APNIC 58.

APNIC provided training to Law Enforcement Agencies (LEAs) in Hong Kong, the Philippines, Pakistan, and Pacific Island economies.

| | Budget | Actual |
|----------|-----------|-----------|
| PY | 3.12 | 3.02 |
| Expenses | 1,657,688 | 1,454,659 |
| CAPEX | - | - |

D2 Technical and Security Community Support – continued

D2.2 Technical assistance and Internet infrastructure support

 academy.apnic.net/en/technical-assistance

IXP development support included:

- Deploying switch upgrades (funded by the APNIC Foundation) for MISPA-IX and BKNIX.
- Ongoing review of hardware requirements for the Timor Leste IXP.
- Ongoing Pacific IXP engagement, including participation on the Management Committee.
- Redesign and IXP manager setup for PCTA-IX.
- Route Origin Validation (ROV) implementation at MHK-IX.

Thirty instances of technical assistance was provided to Members from 13 economies on topics including BGP, DNS/DNSSEC, Internet routing, IPv6, IXPs, network security, peering, RPKI, and M-Root.

Service satisfaction with technical assistance support was 100%.



D2 Technical and Security Community Support – continued

D2.3 M-root deployment support

M-root server deployments in Kathmandu (NP), Lahore (PK), Mumbai (IN), Dhaka (BD), Sao Paulo (BR), Malé (MV) and Kolkata (IN) were completed.

Deployment began on five M-root anycast nodes in Quezon City (PH), Jinan, (CN), New Zealand, Lao PDR, and Sri Lanka. Six additional sites identified were under negotiation and preparation.

D2.4 Community Honeynet and Security Threat Sharing Platform

An additional 200 sensors were deployed, with ongoing development work focused on fine-tuning sensors for future deployments. Continuous daily Honeynet feeds were provided to DASH, ShadowServer Foundation, MISP, and the CERT/CSIRT community.

Presentations were delivered on the Honeynet project at events in Thailand, Hong Kong, Bangladesh, and Pakistan. A workshop on deploying honeypots was also conducted in Brunei.

 <https://s.apnic.net/honeynet>





D2 Technical and Security Community Support – continued

SUCCESS INDICATORS – D2

| Targets | Results | Status |
|--|----------------|--------|
| Support at least 35 technical and security community events | 68 events | ● |
| Support at least two new/revived community events (opportunity permitting) | 2 events | ● |
| Support at least two IXPs to deploy ROV | 1 deployed ROV | ● |
| Overall satisfaction rating of at least 80% for technical assistance | 100% | ● |
| Complete at least eight M-Root server deployments commenced before 2024 | 7 deployed | ● |
| Identify and prepare at least eight additional M-Root server sites | 6 identified | ● |
| Increase the number of honeypot sensors to 400 from 200 (+100 on 2023) | 400 sensors | ● |
| Organize quarterly honeynet and threat sharing community events | 4 events | ● |



D3 APNIC Labs

D3.1 Research and analysis

APNIC Labs continued analysis of IPv4 and IPv6 advertised, unadvertised and reserved address pools over time, and work on automated BGP anomaly detection.

DNS research included analysis of large DNS responses handling, adoption of DOH, and DNS query patterns.

Measurement of QUIC (HTTP/3) use continues.

APNIC continued cooperative research with Global Cyber Alliance in support of MANRS, providing a feed of routing data. Measurements on aspects of the DNS and DNSSEC were also provided to ICANN as part of a cooperative research agreement.

Research with Cloudflare continued on the characteristics of DNS query traffic presented to the Cloudflare 1.1.1.1 open recursive resolver.

A total of 32 research blog articles and 12 podcasts were published, with 30 presentations on research findings shared at technical forums globally.

 labs.apnic.net

| | Budget | Actual |
|----------|-----------|-----------|
| PY | 1.20 | 1.20 |
| Expenses | 1,280,261 | 1,051,361 |
| CAPEX | - | 70,024 |



D3 APNIC Labs – continued

SUCCESS INDICATORS – D3

| Targets | Results | Status |
|---|---------------------------|--------|
| Publish at least 20 articles on reports on resource outcomes | 32 articles | ● |
| Present at least 15 research presentations, including at least two at APNIC conferences | 30 presentations | ● |
| Discuss research on 12 podcasts | 12 podcasts | ● |
| Undertake at least significant cooperative research activities | 3 research collaborations | ● |





ENGAGEMENT (E)

PURPOSE

APNIC undertakes authoritative research, shares data, and encourages community discussions via two annual conferences and other communication/discussion platforms.

Members and the community participate in the development of number resource policies.

APNIC participates and contributes to the global Internet governance ecosystem, and helps advocate for the technical community with relevant stakeholders.

MOST IMPORTANT GOALS

- Be recognized as the main knowledge exchange for the diverse Asia Pacific Internet operations community to discuss and share experience on technical research, network operations, security matters, Internet development, and policy.
- Facilitate diverse participation in policy to ensure the development of relevant and timely number resource policies for the Asia Pacific.
- Play a responsible role in the global, multistakeholder Internet governance ecosystem through active collaboration and engage in public policy discussions for the benefit of Members.

WORKSTREAMS

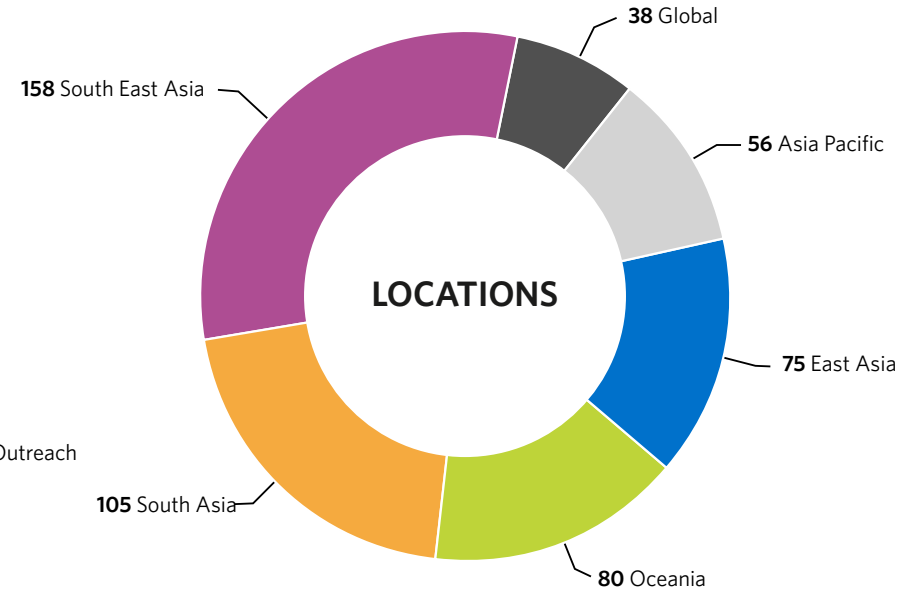
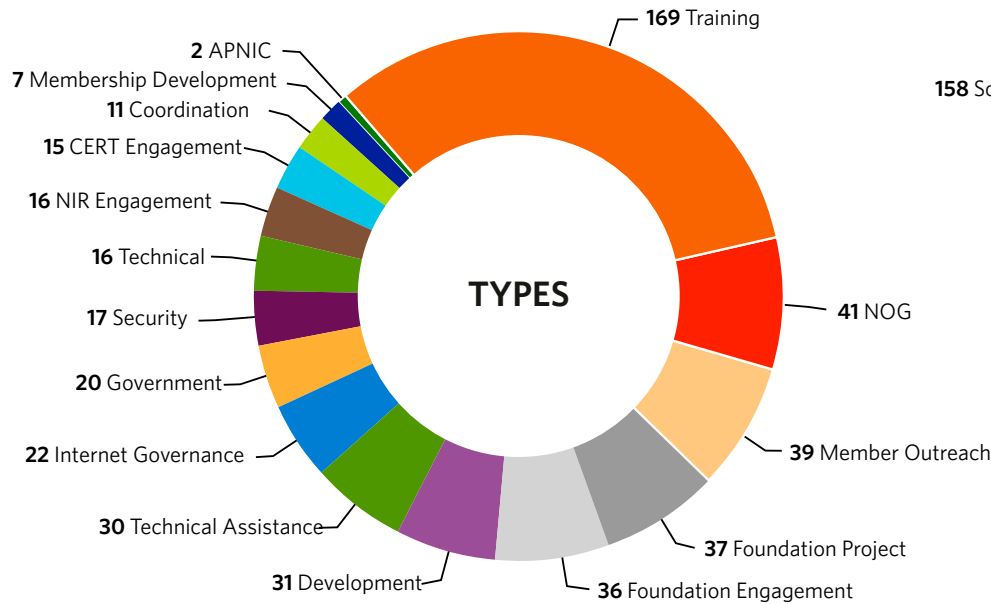
- Relationship Coordination (E1)
- Online Communication (E2)
- Stakeholder Cooperation (E3)
- Community Participation (E4)





E1 Relationship Coordination

E1.1 Outreach coordination



Engagements are units of measurement for meaningful interactions by APNIC staff with the community through events. There are currently 15 types of engagements at APNIC.

| | Budget | Actual |
|----------|---------|---------|
| PY | 1.36 | 1.58 |
| Expenses | 776,868 | 815,675 |
| CAPEX | - | - |

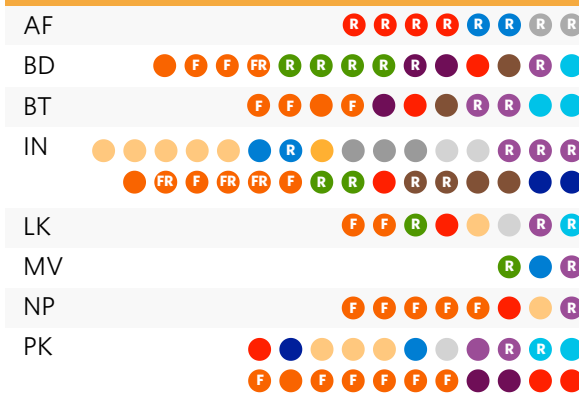


E1 Relationship Coordination – continued

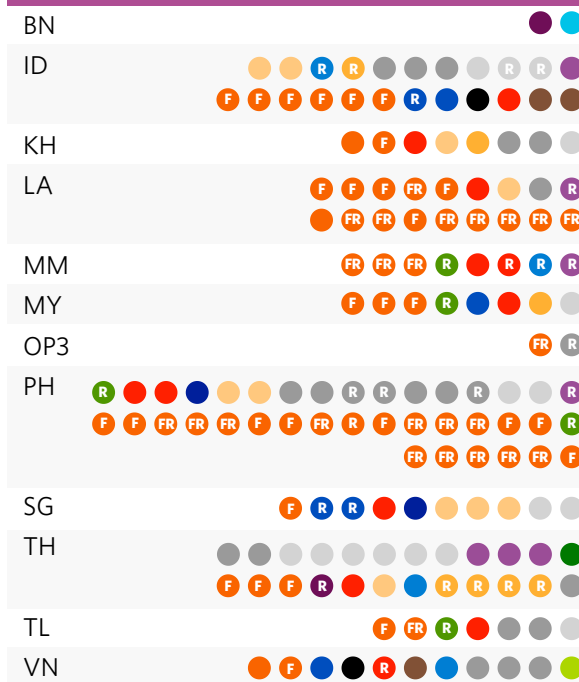
- Complete
- Planned
- F Foundation Supported
- R Remote

- APNIC
- CERT engagement
- Coordination
- Development
- Foundation projects
- Foundation Engagement
- Government
- Internet governance
- Member outreach
- Membership development
- NOG
- Security
- Technical
- Technical assistance
- Training
- NIR engagement
- Other

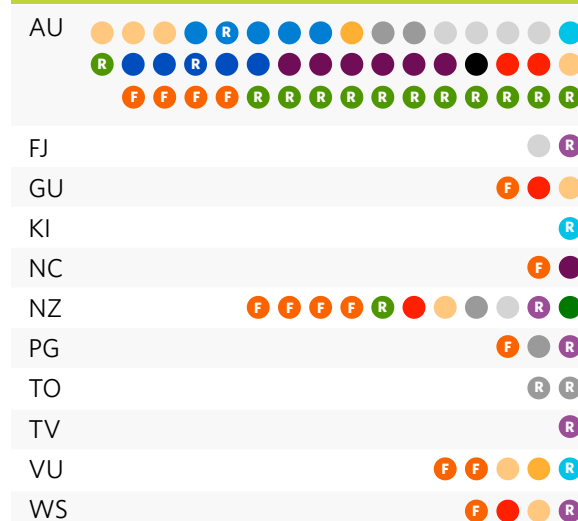
SOUTH ASIA



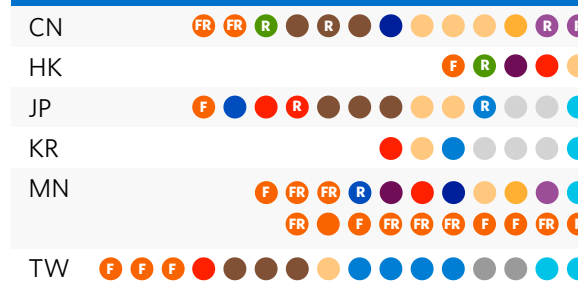
SOUTH EAST ASIA



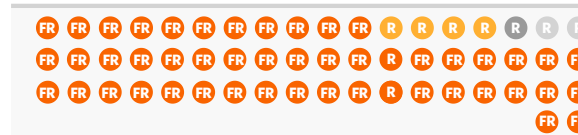
OCEANIA



EAST ASIA



ASIA-PACIFIC (AP)



Global Collaboration





E1 Relationship Coordination – continued

SUCCESS INDICATORS – E1

| Targets | Results | Status |
|---|-----------------------------|--------|
| Achieve 350 engagements with at least 30% remote engagements | 512 engagements; 37% remote | ● |
| Achieve 1,000 unique contacts in touchpoints | 1,108 contacts | ● |
| Achieve at least 100 touchpoints with unique senior non-technical decision maker contacts | 297 touchpoints | ● |





E2 Online Communication

E2.1 APNIC Blog and podcast

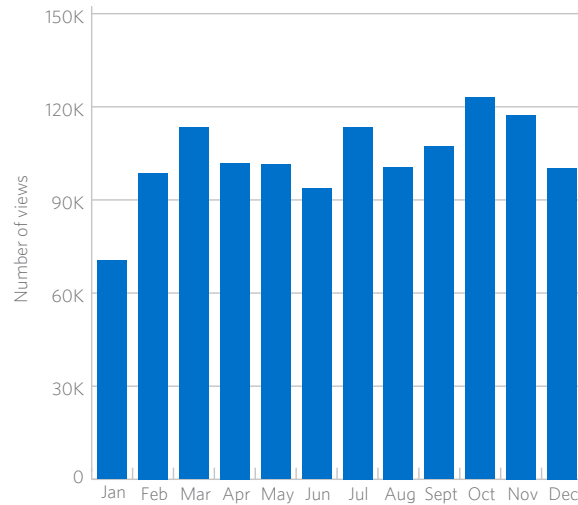
The APNIC Blog averaged 103,438 unique views per month in 2024, a 21.8% increase on 2023's monthly average of 84,915. There were 134 Guest Posts, representing 51% of total opinion posts.

blog.apnic.net

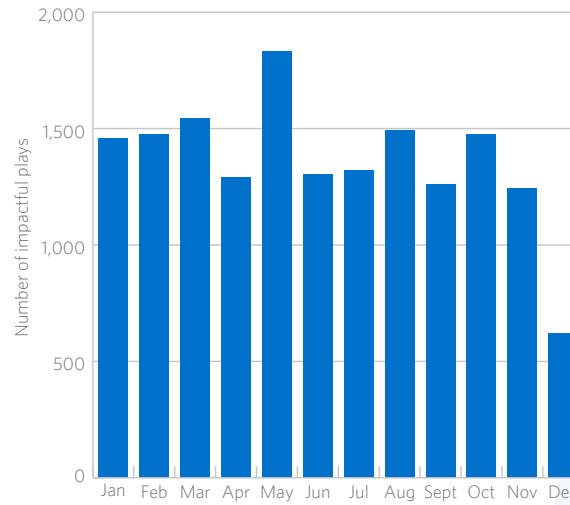
Reader satisfaction with the APNIC Blog increased to 98% in the 2024 APNIC Survey compared to 94% in 2022. The Blog celebrated its 10th anniversary in August and has attracted 6.7 million views in its lifetime.

Twenty-five episodes of the 'PING' podcast were published, attracting 16,346 'impactful plays' (episode listens of 75% or longer), an average of 653 plays per episode.

BLOG VIEWS



PODCAST IMPACTFUL PLAYS



| | Budget | Actual |
|----------|---------|---------|
| PY | 3.45 | 3.45 |
| Expenses | 928,027 | 960,446 |
| CAPEX | - | - |



E2 Online Communication – continued

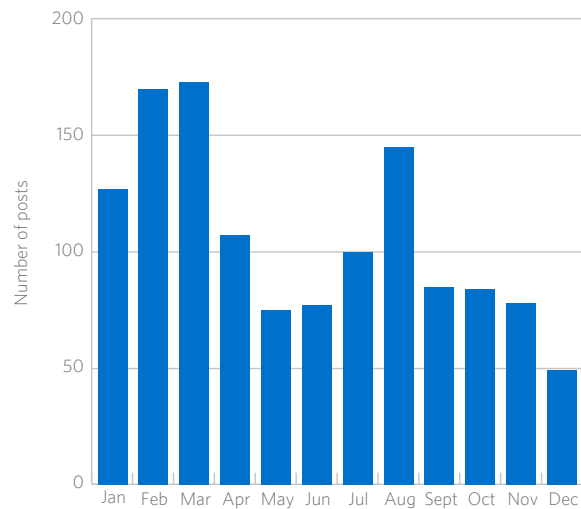
E2.2 Online community

The number of Orbit users grew by 757 (to reach a total of 2,623), with increased activity surrounding APRICOT 2024 in January and February. Sixteen new lists were created, including AFNOG, btNOG, TLNOG, MISPA-IX, NIR RDAP and whois coordination, Pakistan NOG, and Maldives NOG.

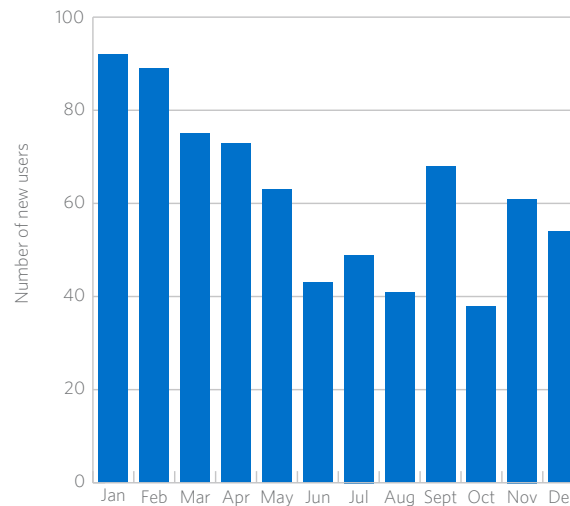
orbit.apnic.net/news-feed

Improvements to the platform included advanced search, sorting features, infinite scroll and ‘report a post’ functionality.

TOTAL LIST POSTS



NEW ORBIT USERS





E2 Online Communication – continued

SUCCESS INDICATORS – E2

| Targets | Results | Status |
|--|----------------|--------|
| Achieve average of at least 87,000 Blog views per month | 103,438 views | ● |
| Maintain BlogGuest Post ratio between 50 to 65% | 51% | ● |
| Achieve at least 19,000 podcast listens | 16,346 listens | ● |
| Achieve a Blog satisfaction rating of at least 80% in the 2024 APNIC Survey | 98% | ● |
| Achieve a podcast satisfaction rating of at least 80% in the 2024 APNIC Survey | 98% | ● |
| Attract at least 1,000 new registered users of Orbit | 757 new users | ● |
| Achieve at least 500 posts from the Orbit web interface | 507 posts | ● |
| Achieve at least 1,500 new posts to the Orbit platform overall | 1,343 posts | ● |



E3 Stakeholder Cooperation – continued

E3.1 Government relations

APNIC engaged in several inter-governmental events in 2024, including the ITU, APT, and UN meetings, focusing on capacity building, collaboration, and monitoring international cyber-policy processes. Activities included:

ITU:

- Participating in the ITU-T TSAG Meeting, the Inter-regional Meeting (IRM) for WTSA-24, WTSA-24, and the WSIS+20 Forum High-level Event.
- Contributing to the ITU Council Working Group on International Internet-related Public Policy Issues (CWG-Internet).

APT:

- Participating in Meetings of the APT Preparatory Group for WTSA-24, including the 24th APT Policy and Regulatory Forum (PRF-24), and preparatory group meetings for WTDC-25.
- Conducting capacity-building workshops for APT member states in Indonesia and Myanmar.

UN:

- Participating in the 7th Substantive Session of the UN OEWG ICTs, contributing to consultations on the UN Global Digital Compact (GDC) and speaking at the WSIS+20 multistakeholder webinar on the GDC.

Bilateral engagements:

- Participating in discussions on IPv6 measurement with Indonesia's MCIT, the CRC conference on IXPs in Mongolia, and the PITA AGM & Expo 2024.

Roundtables:

- Hosting senior decision-makers' and policymakers' roundtables at APRICOT 2024 and IETF 119, engaging stakeholders from various organizations





E3 Stakeholder Cooperation – continued

E3.2 Internet governance

APNIC contributed to five proposals to the Internet Governance Forum (IGF) 2024, actively engaged in the IGF's preparatory process, and participated virtually during the event. APNIC also contributed to a briefing for UN diplomats on the Global Digital Compact (GDC) and Internet governance matters.

APNIC represented the technical community at the High-Level Executive Committee (HLEC) of NetMundial+10 and participated in the 2024 World Internet Conference Wuzhen Summit.

At the Asia Pacific Regional Internet Governance Forum (APrIGF) 2024, APNIC participated in the Multistakeholder Steering Group, Program Committee, and Fellowship Committee, submitted three proposals, and provided event support.

Staff engaged in several sub-regional and economy-level IGFs, including the TWIGF 2024, Myanmar Youth IGF, India Youth IGF, VNNIC Internet Conference 2024 and its youth event, Pacific IGF (held alongside APNIC 58), Maldives IGF 2024, auIGF 2024, and AFIGF 2024. APNIC also served on the auIGF Organizing and Program Committees and participated in the AU Internet Governance Stakeholders Roundtable 2024.

APNIC staff served on the APIGA Organizing Committee and participating in APIGA 2024, as well as local APIGA events in Taiwan, Indonesia, and Australia. Contributions to other Schools of Internet Governance (SIGs) included APSIG, AFSIG, INSIG, and PKSIG events throughout the year.





E3 Stakeholder Cooperation – continued

E3.3 Internet organization cooperation

APNIC participated in 43 NRO EC and Coordination Group meetings during 2024, attended five RIR meetings, and joined ASO AC meetings held in Uruguay and Turkey.

The ASO AC began the process to update ICP-2 (Internet Coordination Policy-2) by defining core principles and seeking community feedback. APNIC provided support to the ASO AC and NRO throughout the year in the development of the draft principles document, facilitated community consultation at APNIC 58, and shared the ASO AC's survey to help gather feedback on the principles.

Staff participated in all ICANN and IETF meetings during the year. At IETF 119 in Brisbane, APNIC served as the local host and supported the ISOC Policymakers Programme by hosting a roundtable discussion and a community social event.

APNIC also engaged with the Technical Community Coalition for Multistakeholderism and participated in Internet Collaboration Group (ITCG) calls.

During APNIC 58 in Wellington, APNIC co-chaired the AP* Retreat and attended the AP* Retreat in Bangkok held alongside APRICOT 2024.

APNIC staff participated in Root Key Signing Ceremony 55 with IANA, and supported the fellowship programs of APIGA, APriGF, APSIG, SANOG, and the Pacific IGF 2024.

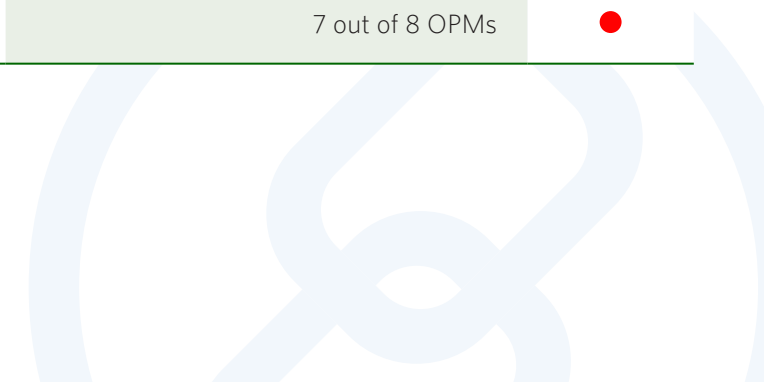




E3 Stakeholder Cooperation – continued

SUCCESS INDICATORS – E3

| Targets | Results | Status |
|---|-----------------|--------|
| Complete at least four capacity building partnerships with governments and intergovernmental agencies | 4 completed | ● |
| Hold at least two roundtables with senior non-technical decision makers, including government representatives | 2 roundtables | ● |
| Complete at least three capacity building partnerships with public safety agencies in the region | 4 completed | ● |
| Submit at least two workshop proposals at both the APriGF 2024 and IGF 2024 | 8 proposals | ● |
| Participate and/or sponsor at least five national or sub-regional Internet governance activities | 8 activities | ● |
| Participate and/or sponsor at least two schools of Internet governance or academies such as APIGA | 6 SIGs | ● |
| Implement APNIC’s commitments under the NRO strategic plan | Commitments met | ● |
| Participate in all NRO EC and I-star coordination meetings | Completed | ● |
| Participate in all RIR Open Policy Meetings (face-to-face or remotely) | 7 out of 8 OPMs | ● |





E4 Community Participation

E4.1 APNIC conferences

APRICOT 2024 (incorporating APNIC 57) was held in Bangkok, Thailand, from 21 February to 1 March 2024. The event welcomed 920 attendees (855 in-person and 65 online), with an additional 4,695 views on YouTube.

APNIC 58 was held in Wellington, New Zealand, from 30 August to 6 September 2024, attracting 423 participants (349 in-person and 74 online). There were an additional 2,438 views on YouTube. The conference was co-located with the Pacific IGF 2024, held from 2 to 3 September 2024, and also included the InternetNZ Registrar Day, and the Pacific ccTLD Forum.

Several other community meetings were held at the conferences from partner organizations including APIX, APStar, APCERT, and DNS-OARC.

Both conferences were well-received, achieving Net Promoter Scores (NPS) of 60 and 63, respectively.

| | APRICOT 2024/ APNIC 57 | APNIC 58 |
|--|---------------------------|----------|
| In-person participants | 855 | 349 |
| Total number of remote participants (Zoom) | 65 | 74 |
| Economies represented | 54 | 47 |
| YouTube views | 4,695 | 2,348 |
| YouTube hours viewed | 799.17 | 296.2 |

| | Budget | Actual |
|----------|-----------|-----------|
| PY | 5.95 | 6.69 |
| Expenses | 2,318,948 | 2,208,378 |
| CAPEX | 25,000 | 5,222 |



E4 Community Participation – continued

E4.2 Diversity and participation

Twenty-eight fellows (14 female, 14 male; 16 professionals, 6 youth and 6 returning fellows) were selected from 761 applicants for the 2024 fellowship program.

Twelve fellowship webinars were delivered with 80% overall attendance, and each fellow completed an average of three APNIC Academy courses. There were also 12 mentoring sessions held between fellows and mentors drawn from the community. The program achieved a graduation rate of 92% and an NPS of 100.

Thirty-seven percent of APRICOT 2024 attendees (341) and 39.5% of APNIC 58 attendees (233) were newcomers.

APNIC partnered with Business Events Wellington, InternetNZ, Victoria University of Wellington, and Tuhura Tech in a NextGen initiative to engage students and young professionals to meet Community Elected Leaders and participate in the APNIC 58 conference program. This initiative will be continued at future APNIC conferences.





E4 Community Participation – continued

SUCCESS INDICATORS – E4

| Targets | Results | Status |
|--|---------------------------------------|--------|
| Achieve total attendance of at least 1,200 (face-to-face and online) across two conferences | 1,343 attendees | ● |
| Achieve Net Promote Score of at least 50 at each conference | NPS 60 and 63 | ● |
| Achieve APNIC conference/event satisfaction of at least 85% in the 2024 APNIC Survey | 95% | ● |
| Attract at least 500 newcomers and at least 500 SIG participants (in-person and online) across two conferences | 541 newcomers 547 SIG participants | ● |
| Achieve at least 50% female and 20% youth participation in 2024 Fellowships | 50% female 21% youth | ● |
| Achieve a fellowship graduation rate of at least 80% | 92% | ● |
| Achieve a fellowship program Net Promoter Score of at least 80 | 100 | ● |
| Achieve elected leaders support satisfaction of at least 85% | 92% | ● |





CAPABILITY (C)

PURPOSE

As an open, member-based, not-for-profit organization, APNIC must serve its Members and the community with integrity, transparency, financial responsibility and accountability.

This takes the form of effective organizational policies, financial management, risk mitigation, operational technologies and governance structures that allow APNIC's team of committed staff to deliver its mission.

GOALS

- Maintain secure and reliable enterprise technologies and data to underpin operational efficiency.
- Effectively manage APNIC's financial affairs to achieve long-term financial sustainability.
- Sustain a highly engaged and productive workforce by optimizing strategy, structure, policies and culture in a safe and inclusive working environment.
- Operate a responsive and trusted organization that is transparent, accountable, adheres to strong governance, complies with applicable laws, mitigates risks, and delivers on its promises.

WORKSTREAMS

- Business Systems (C1)
- Finance and Business Services (C2)
- Employee Experience (C3)
- Governance (C4)



C1 Business Systems

C1.1 Enterprise IT and Internal Security

The annual ISO 27001 external surveillance audit was successfully completed with zero non-conformities and six opportunities for improvement.

There were 17 valid security vulnerability reports received, which were resolved or mitigated. None of these were critical.

C1.2 Business intelligence

Data Warehouse development work continued with the successful completion of the transformation of raw data to the Data Vault Landing. Infrastructure modifications were made to enhance security, and a data orchestration framework was installed in the testing environment. Further data transformation processes are ongoing.

As part of the Data Governance process, Data Quality metrics were developed.

| | Budget | Actual |
|----------|-----------|-----------|
| PY | 7.78 | 7.80 |
| Expenses | 2,806,994 | 2,587,438 |
| CAPEX | 246,700 | 168,482 |



C1 Business Systems – continued

SUCCESS INDICATORS – C1

| Targets | Results | Status |
|--|---------------|--------|
| Achieve a successful ISO 27001 surveillance audit | Audit passed | ● |
| Mitigate all critical vulnerability reports within seven days and resolve within 30 days | None received | ● |
| Metrics related to data accuracy, completeness, and consistency established by Q2 | Completed | ● |
| Data Vault v2.0 methodology fully deployed by Q4 | Completed | ● |





C2 Finance and Business Services

C2.1 Financial Services

The annual audit of APNIC's 2023 financial accounts was completed by Ernst & Young and presented to the EC at APNIC 57.

Full-year expenses growth was lower than budgeted, due to deferred spending on software, professional services and backfilling open positions, coupled with reduced travel and savings across various activities.

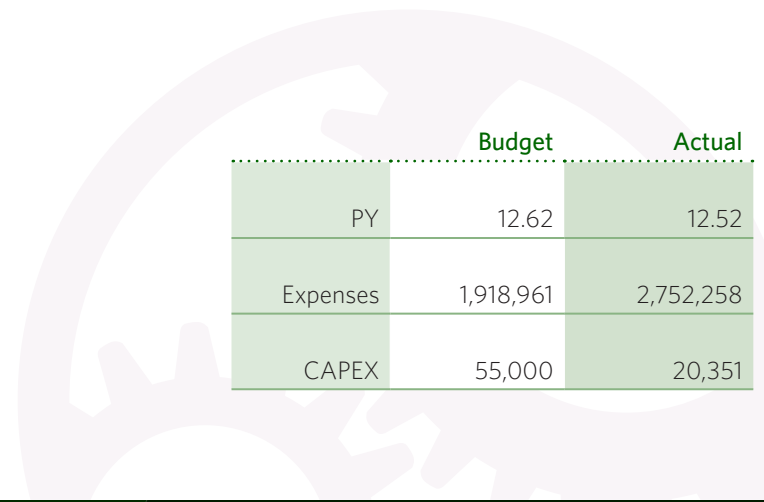
A closed market tender for the management of APNIC's investment portfolio was conducted, with a new investment management firm appointed.

APNIC also completed the automation of its international payment process, conducted a risk-based review of international tax exposures for five economies, and undertook a valuation of the office building.

C2.2 Facilities and business services

An in-house travel management project was initiated and completed, with a new GDS reservation platform and processes implemented to help reduce APNIC's travel costs.

| | Budget | Actual |
|----------|-----------|-----------|
| PY | 12.62 | 12.52 |
| Expenses | 1,918,961 | 2,752,258 |
| CAPEX | 55,000 | 20,351 |





C2 Finance and Business Services – continued

SUCCESS INDICATORS – C2

| Targets | Results | Status |
|---|-------------------|--------|
| Achieve a successful audit of APNIC’s annual financial accounts | Completed | ● |
| Provide APNIC EC with accurate financial reporting each quarter (including key compliance activities) | Completed | ● |
| Annual expenses growth will not exceed 4% | 1.5% | ● |
| No preventable incidents or injuries (physical/psychological) occur under APNIC’s duty of care | 2 minor incidents | ● |
| Meet or exceed Glint global benchmark for Inclusiveness (77%) | 84% | ● |





C3 Employee Experience

C3.1 Organizational development

The 2024 Glint Employee Engagement survey was completed with a 90% response rate and an overall engagement score of 82%, which is 7% above the global benchmark. Global employee engagement benchmarks were exceeded in several other categories, including diversity, culture, role satisfaction, rewards and inclusiveness.

There was zero headcount growth in APNIC-funded roles.

An Executive Search firm was appointed to assist with the recruitment process for the Director General (DG) role. Support was provided to the EC Search and Transition Subcommittee, which was established to develop and manage the interview process for the new DG.

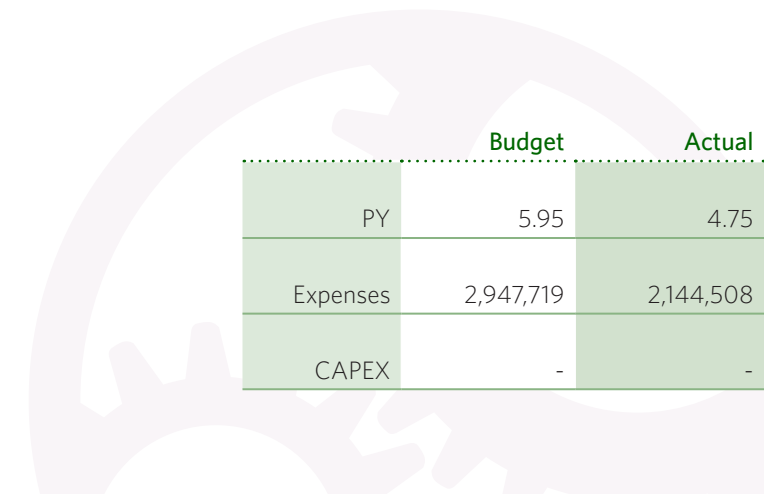
Jia Rong Low officially began in the role of DG on 1 October 2024, and a comprehensive onboarding plan helped facilitate the transition.

C3.2 People operations

Payroll was successfully transitioned to an external provider without any disruption to services.

Staff were surveyed to gather feedback on the effectiveness of the revised organizational structure, with improvements planned for early 2025.

| | Budget | Actual |
|----------|-----------|-----------|
| PY | 5.95 | 4.75 |
| Expenses | 2,947,719 | 2,144,508 |
| CAPEX | - | - |





C3 Employee Experience – continued

SUCCESS INDICATORS – C3

| Targets | Results | Status |
|--|-----------|--------|
| Meet or exceed LinkedIn Glint global benchmark for Employee Engagement (75%) | 85% | ● |
| Employee turnover is within or below the Human Capital Index global benchmark of 5-15% | 4.8% | ● |
| Meet or exceed LinkedIn Glint global benchmark for Diversity (74%) | 88% | ● |
| Meet or exceed LinkedIn Glint global benchmark for Culture (73%) | 79% | ● |
| Meet or exceed LinkedIn Glint global benchmark for Rewards (63%) | 75% | ● |
| Meet or exceed Glint global benchmark for Satisfaction with Role (78%) | 84% | ● |
| 100% of HR Services policies are reviewed annually | Completed | ● |





C4 Governance

C4.1 Legal and Corporate Governance

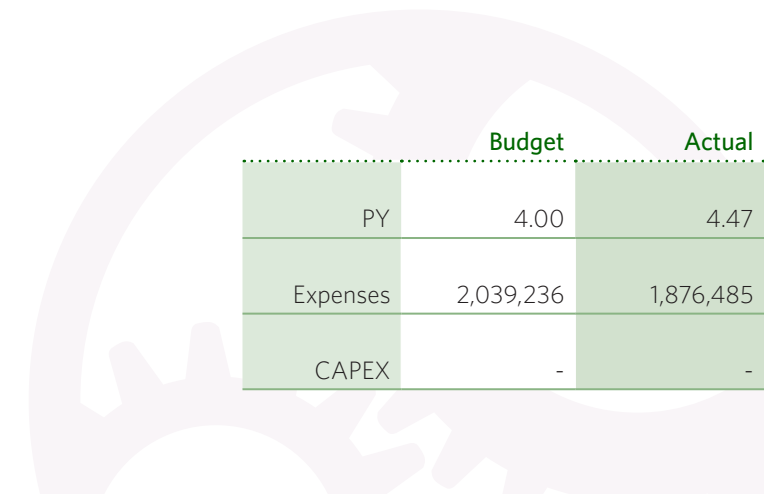
All Executive Council (EC) Members were appointed as Directors of APNIC Pty Ltd and APNIC EC Limited. The EC held five meetings in 2024, including a joint Board Meeting with the APNIC Foundation in February.

The inaugural APNIC Electoral Committee oversaw the 2024 EC election and did not make any findings of non-compliance by nominees in the election.

The EC established two standing subcommittees (to commence in 2025):

- The Remuneration Committee to assist and advise the EC on matters relating to the performance and remuneration of the Director General.
- The Finance, Risk, and Audit Committee to assist the EC in fulfilling its corporate governance and oversight responsibilities in relation to corporate reporting processes, including the financial reporting process, risk management and internal control, external audit, internal audit and compliance, and investment oversight.

| | Budget | Actual |
|----------|-----------|-----------|
| PY | 4.00 | 4.47 |
| Expenses | 2,039,236 | 1,876,485 |
| CAPEX | - | - |





C4 Governance – continued

C4.2 Quality and risk management

The Strategic Risk Register was updated and reviewed quarterly by the EC.

An ISO 9001 external surveillance audit was successfully completed with zero non-conformances and two opportunities for improvement.

Planned delegation audits across the APNIC registry and NIRs began as part of efforts to ensure registry accuracy. Findings from APNIC’s preliminary audits of the IRINN and IDNIC registries identified delegations that were questionable in nature, with IRINN confirming 44 delegations did not meet policy guidelines and the address space was recovered. An independent legal firm was appointed by APJII to investigate 1,216 questionable delegations by IDNIC.

APNIC will continue progressing the full, planned audits across delegations and transfers made by APNIC and all NIRs in 2025. This will include expanding the previous investigations at both IRINN and IDNIC to include a longer time period of 10 years and applying the same rigour to all other NIRs and APNIC’s own registry.





C4 Governance – continued

SUCCESS INDICATORS – C4

| Targets | Results | Status |
|--|------------------|--------|
| Publish all required reports at APNIC Member Meetings | Completed | ● |
| Publish EC minutes within two months of each EC meeting | Completed | ● |
| Achieve a satisfaction rating of at least 85% from a survey of EC members | 90% | ● |
| Complete quarterly risk review with APNIC leadership and EC | Completed | ● |
| Achieve a successful ISO 9001 surveillance audit | Completed | ● |
| Implement a new Risk Management System by Q4 | Deferred to 2025 | ● |





2024 FINANCIAL REPORT BY ACTIVITY

| Activity | PY | | | OPEX | | | CAPEX | | |
|--|---------------|---------------|------------|-------------------|-------------------|------------|-------------------|-------------------|----------------|
| | Budget 2024 | Actual 2024 | Variance | Budget (AUD) 2024 | Actual (AUD) 2024 | Variance | Budget (AUD) 2024 | Actual (AUD) 2024 | Variance (AUD) |
| Registry Services | 20.31 | 20.01 | -1% | 4,144,055 | 3,785,044 | -9% | - | - | - |
| Products and Infrastructure | 32.70 | 33.15 | 1% | 7,876,406 | 7,974,104 | 1% | 241,000 | 170,985 | -29% |
| Registry - Total | 53.01 | 53.16 | 0% | 12,020,461 | 11,759,148 | -2% | 241,000 | 170,985 | - |
| APNIC Academy | 19.88 | 19.39 | -2% | 4,587,078 | 4,563,320 | -1% | 20,000 | 13,952 | -30% |
| Technical and Security Community Support | 3.12 | 3.02 | -3% | 1,657,688 | 1,454,659 | -12% | - | - | - |
| APNIC Labs | 1.20 | 1.20 | - | 1,280,261 | 1,051,361 | -18% | 150,000 | 70,024 | -53% |
| Development - Total | 24.20 | 23.61 | -2% | 7,525,027 | 7,069,340 | -6% | 170,000 | 83,975 | -51% |
| Relationship Coordination | 1.36 | 1.58 | 16% | 776,868 | 815,675 | 5% | - | - | - |
| Online Communication | 3.45 | 3.45 | - | 928,027 | 960,446 | - | - | - | - |
| Stakeholder Cooperation | 2.17 | 2.16 | 0% | 1,285,630 | 1,070,510 | -17% | - | - | - |
| Community Participation | 5.95 | 6.69 | 12% | 2,318,948 | 2,208,378 | -5% | 25,000 | 5,222 | -79% |
| Engagement - Total | 12.93 | 13.88 | 7% | 5,309,472 | 5,055,009 | -5% | 25,000 | 5,222 | -79% |
| Business Systems | 7.78 | 7.80 | 0% | 2,806,994 | 2,587,438 | -8% | 246,700 | 168,482 | -32% |
| Finance and Business Services | 12.62 | 12.52 | -1% | 1,918,961 | 2,752,258 | 43% | 55,000 | 20,351 | -63% |
| Employee Experience | 5.95 | 4.75 | -20% | 2,947,719 | 2,144,508 | -27% | - | - | - |
| Governance | 4.00 | 4.47 | 12% | 2,039,236 | 1,876,485 | -8% | - | - | - |
| Capability - Total | 30.35 | 29.54 | -3% | 9,712,910 | 9,360,688 | -4% | 301,700 | 188,834 | -37% |
| Total | 120.49 | 120.19 | 0% | 34,567,870 | 33,244,186 | -4% | 737,700 | 449,016 | -39% |

Note: Some numbers presented in this chart may not add up precisely to the totals provided due to rounding.



STATEMENT OF FINANCIAL POSITION

For a better understanding of APNIC Pty Ltd's financial position and performance, as represented by the results of its operations for the financial year ended 31 December 2024, the statement of financial position, and statement of income, should be read in conjunction with the annual statutory financial report and the audit report contained therein.

| | 2024 (AUD) | 2023 (AUD) | % change |
|--------------------------------------|-------------------|-------------------|-------------|
| Assets | | | |
| Current assets | | | |
| Cash and cash equivalents | 6,152,472 | 7,298,216 | -16% |
| Trade and other receivables | 5,924,139 | 5,126,915 | 16% |
| Other current assets | 1,564,288 | 1,508,411 | 4% |
| Total current assets | 13,640,899 | 13,933,542 | -2% |
| Non-current assets | | | |
| Financial assets | 37,703,317 | 35,554,548 | 6% |
| Property, plant and equipment | 11,152,743 | 8,716,661 | 28% |
| Total non-current assets | 48,856,060 | 44,271,209 | 10% |
| Total assets | 62,496,959 | 58,204,751 | 7% |
| Liabilities | | | |
| Current liabilities | | | |
| Trade and other payables | 2,273,056 | 2,158,304 | 5% |
| Employee benefit liabilities | 3,258,812 | 3,338,476 | -2% |
| Contract liabilities | 13,459,627 | 13,263,072 | 1% |
| Total current liabilities | 18,991,495 | 18,759,852 | 1% |
| Non-current liabilities | | | |
| Employee benefit liabilities | 499,085 | 524,859 | -5% |
| Net deferred tax liabilities | 2,324,429 | 539,799 | 331% |
| Total non-current liabilities | 2,823,514 | 1,064,658 | 326% |
| Total liabilities | 21,815,009 | 19,824,510 | 10% |
| Net assets | 40,681,950 | 38,380,241 | 6% |
| Equity | | | |
| Contributed equity | 1 | 1 | 0% |
| Asset revaluation reserve | 3,569,075 | 1,645,064 | 54% |
| Retained earnings | 37,112,874 | 36,735,176 | 1% |
| Total equity | 40,681,950 | 38,380,241 | 6% |



STATEMENT OF PROFIT OR LOSS

| | 2024 (AUD) | 2023 (AUD) | % change |
|---|-------------------|-------------------|-------------|
| Revenue | | | |
| Membership fees | 26,830,097 | 25,781,903 | 4% |
| Non-member fees | 350,049 | 315,510 | 11% |
| Reactivation fees | 24,200 | 20,000 | 21% |
| Sign-Up fees | 243,000 | 255,750 | -5% |
| Transfer fees | 276,590 | 271,076 | 2% |
| APNIC Foundation funded projects receipts | 3,969,214 | 4,589,804 | -14% |
| Sundry income | 553,205 | 621,732 | -11% |
| Foreign exchange gain/ (loss) | 51,875 | 1,159 | 4,374 |
| Operating revenue | 32,298,230 | 31,856,936 | 1% |
| Investment income | 1,342,685 | 1,018,181 | 32% |
| Total revenue | 33,640,916 | 32,875,116 | 2% |
| Expenses | | | |
| Communication expenses | 712,261 | 707,163 | 1% |
| Application expenses | 2,207,089 | 2,058,609 | 7% |
| APNIC Foundation funded project expenses | 3,949,047 | 4,589,804 | -14% |
| Contribution to ICANN | 243,581 | 244,964 | -1% |
| Depreciation expense | 572,672 | 659,019 | -13% |
| Meeting and training expenses | 675,752 | 765,930 | -12% |
| Office operating expenses | 379,281 | 470,769 | -19% |
| Professional fees | 1,410,617 | 1,399,943 | 1% |
| Salaries and personnel expenses | 19,864,813 | 19,216,053 | 3% |
| Sponsorship and publicity expenses | 543,397 | 631,098 | -14% |
| Travel expenses | 1,516,644 | 1,672,769 | -9% |
| Other operating expenses | 1,169,033 | 1,049,055 | 11% |
| Total expenses | 33,244,186 | 33,465,176 | -1% |
| Operating surplus | | | |
| Surplus / (Deficit) before tax and fair value gain on financial assets | 396,730 | (590,060) | 167% |
| Fair value gain on financial assets at fair value through profit or loss | 1,124,260 | 1,674,163 | -33% |
| Surplus/ (Deficit) before income tax | 1,520,990 | 1,084,103 | 40% |
| Income tax (expense) / benefit | (1,143,293) | 65,769 | -1,838 |
| Surplus/ (Deficit) for the year | 377,698 | 1,149,872 | -67% |



CASH FLOW STATEMENT

| | 2024 (AUD) | 2023 (AUD) | % change |
|--|--------------------|------------------|----------------|
| Cash flows from operating activities | | | |
| Receipts from customers | 31,687,997 | 32,291,751 | -2% |
| Payments to suppliers and employees | (32,903,742) | (32,385,075) | 2% |
| Interest received | 300,209 | 279,133 | 8% |
| Net cash flows from operating activities | (915,536) | 185,809 | -593% |
| Cash flows from investing activities | | | |
| Proceeds from sale of property, plant and equipment | 1,871 | 24,940 | -92% |
| Purchase of property, plant and equipment | (452,605) | (420,532) | 8% |
| Investment distribution income | 1,245,035 | 924,156 | 35% |
| Purchase of financial assets | (1,024,509) | (718,920) | 43% |
| Net cash flows used in investing activities | (230,208) | (190,356) | 21% |
| Net (decrease)/ increase in cash and cash equivalents | (1,145,744) | (4,547) | 25,098% |
| Cash and cash equivalents at the beginning of the year | 7,298,216 | 7,302,763 | -0% |
| Cash and cash equivalents at the end of year | 6,152,472 | 7,298,216 | -16% |



2024 Conference and Training Sponsors

APNIC acknowledges and thanks the following organizations for their generous support for APNIC conferences and training events.

SUPPORTERS

(In alphabetical order)

| | | | |
|---|-----------------------------------|---|-----------------------------------|
| @Tokyo | DE-CIX | Kentik | SGIX |
| AIS | Digital Realty | KISA | Sieko Solutions Inc |
| AIT | Equinix | Laos National Internet Center | SOI Asia |
| Akamai | Flexoptix | Mercury | SunEvision |
| Aliter Networks | Google | Microsoft | System LLC |
| AMSIX | HGC Global Communications | Ministry of Technology and Communications of Laos | TCC Technology Group |
| APAN | hkcolo.net | MyIX | Tein*CC |
| APJII | HKIX | National Information Technology Park | Telstra |
| Asia Pacific Telecommunity | ICANN | National Telecom | Thailand IX |
| AWS | IJJ | Nepal Internet Exchange | TWNIC |
| BBIX | INET | Netflix | Verisign |
| Benocs | inSIG | NSRC | Victoria University of Wellington |
| Biznet | Internet Association of Australia | Office of the Government Chief Information Officer | VNNIC |
| BtCIRT | Internet Society | Paragum | Wellington City Council |
| Business Events Wellington | InternetNZ | PCTA | www.asia |
| Cello | IPv4 Global | Plurum Technologies | xtreme NETWORKS |
| Cisco | JPIX | PTA | |
| CNNIC | JPNIC | RETN | |
| Communications Regulatory Commission of Mongolia | KDDI Foundation | | |
| | KDDI Telehouse | | |



Appendix: Events attended in 2024

The following is the list of events in which APNIC staff participated. An asterisk (*) indicates events where APNIC provided sponsorship.

| JANUARY | Economy | Engagement type |
|---|----------------|---|
| APAN 57* | TH | Training, Security, Development |
| PTC '24 | US | Development |
| ITU 1st TSAG Meeting 2024 | CH | Government |
| JANOG 53* | JP | NOG |
| Convergence India Expo | IN | Member Outreach, Membership Development, NIR Engagement |
| HK Police Cyber Command Course | HK | Security |
| PKNOG IPv6 and Routing Security Workshop | PK | Training, Member Outreach, NOG |
| Lao Digital Week 2024 | LA | Training |
| Briefing for UN Diplomats on GDC and Internet governance | US | Internet Governance |
| PTA IPv6 Security Workshop | PK | Training |
| PTA Routing Security Workshop | PK | Training |
| AU Internet Governance Stakeholders Roundtable 2024 | AU | Internet Governance |
| OSPF Operation (Theory/Lab) Philippines | PH | Training |
| IPv6 Architecture and Transition Techniques - Philippines | PH | Training |
| Network Monitoring and Management (NMM) - Laos | LA | Training |
| IXP Operation - Mongolia | MN | Training |
| IRINN IPv6 Security Tutorial | IN | Training, NIR Engagement |
| Open Tutorial- Internet Routing & OSPF Fundamentals | AP | Training |
| IPv6 Deployment (Dialog Axiata, LK) | LK | Technical Assistance |
| Open Lab: Routing / OSPF | AP | Training |
| IPv6 Peering and router config | PH | Technical Assistance |
| ITU Inter-regional meeting (IRM) for WTSA-24 | AP | Government |
| FEBRUARY | Economy | Engagement type |
| NANOG 90 | US | NOG |
| OARC 42 | US | Technical |
| APRICOT 2024/APNIC 57 | TH | APNIC, Training, Foundation Engagement, Foundation Projects |
| APIE Camp 03 | MY | Training |

| 2nd Meeting of APT WTSA24-2 (Preparatory Group for WTSA-24) | AP | Government |
|--|----------------|--|
| APTLD 85 | IN | Member Outreach, NIR Engagement |
| Internet Routing Tutorial (South East Asia and East Asia) | LA | Training |
| APNG Camp 16 | TH | Development |
| Open Tutorial: Internet Routing & IS-IS | AP | Training |
| Open Lab: Routing / IS-IS | AP | Training |
| TCC IPv6 Public Awareness Training | TO | Foundation Projects |
| BGP Operation - Philippines | PH | Training |
| ASEAN Digital Forum Roundtable | AP | Foundation Engagement |
| MARCH | Economy | Engagement type |
| CrikeyCon 2024 | AU | Security |
| IETF 119* | AU | Technical, Member Outreach, Internet Governance, Foundation Projects |
| ICANN 79 | PR | Coordination |
| PHNOG 2024 Lokal Workshop Week | PR | Training, NOG |
| APIE Advanced Camp | JP | Foundation Engagement, Training |
| MMIX/MMNOG 2024* | MM | NOG, Training |
| Cyber Safety Pasifika 2024-03 | NC | Security, Training |
| CRC conference on IXP in Mongolia | MN | Government |
| Network & Internet Routing Fundamentals - Mongolia | MN | Training |
| Internet Routing & OSPF Operations - Laos | LA | Training |
| Open Lab: Routing / BGP | AP | Training |
| Open Tutorial-BGP Fundamentals & Attributes | AP | Training |
| UN OEWG ICTs 7th Substantive Session | US | Government |
| Internet Routing Tutorial - Laos | LA | Training |
| InfosecCon 2024 | BD | Security |
| International Women's Day breakfast - Philanthropy Australia | AU | Foundation Engagement |
| TCC IPv6 Public Awareness Training (Small Enterprise Network IPv6 Deployments) | TO | Foundation Projects |
| Asia Open RAN Academy (AORA) together with IEEE Women in Engineering | PH | Foundation Projects |



| MARCH | Economy | Engagement type |
|---|----------------|---|
| AFNOG Webinar - Internet Exchange Point | AF | NOG |
| ISLET Connect Portal Presentation | PH | Foundation Projects |
| APNIC IPv6 Measurement discussion with Indonesia MCIT | ID | Government |
| Digital Rights Conference - PHInternet30 | PH | Foundation Projects |
| APRIL | Economy | Engagement type |
| NZNOG 2024* | NZ | NOG Training, Member Outreach |
| ARIN 53 | BB | Coordination |
| NETmundial +10 | BR | Internet Governance |
| Everything Open 2024* | AU | Technical, Training |
| PITA 28th AGM & Expo 2024 | VU | Government, Member Outreach |
| TWNOG 5 | TW | NOG, Training, Member Outreach |
| SANOG 41 / INNOG 7* | IN | Member Outreach, NOG, Training |
| 5th ICANN APAC-TWNIC Engagement Forum (41st TWNIC OPM) | TW | NIR Engagement |
| BrisSec 2024 | AU | Security |
| PCTA CONVENTION 2024 | PH | Member Outreach, Membership Development, Training |
| DNS and DNSSEC (Vanuatu) | VU | Training |
| IPv6 Deployment (Vanuatu) | VU | Training |
| Local APIGA Taiwan 2024 | TW | Internet Governance |
| 3rd Meeting of APT Preparatory Group for WTSA-24 (APT WTSA24-3) | KH | Government |
| IPv6 Protocol Architecture & Address Planning | AP | Training |
| Open Lab: IPv6 Routing | AP | Training |
| Asi@Connect - Network Security Workshop (Philippines) | PH | Training |
| MN Security community engagement 2024* | MN | CERT Engagement, Security |
| CNNIC - IPv6 Fundamentals Workshop (Delivered in Mandarin) | CN | Training, NIR Engagement |
| APIE engagement in Viet Nam | VN | Foundation Projects |
| BtCIRT engagement | BT | CERT Engagement |
| Internet Fundamentals for Investigators - Philippines | PH | Training, Security |
| LK CERT Cyber Capacity Building Event | LK | CERT Engagement |
| G20 Brasil Promoting information integrity | BR | Foundation Engagement |
| BGP Fundamentals & Attributes (Laos) | LA | Training |
| Internet Routing Series 1 - OSPF Operation - Philippines | PH | Training |

| Intro to Network Monitoring and Management(NMM) & LibreNMS Mongolia | MN | Training |
|---|----------------|--|
| AFNOG Webinar - Packet Analysis | AF | NOG |
| Multihoming and TE | PH | Technical Assistance |
| CaribNOG 27 | BB | NOG |
| rDNS delegation and PTR record | NZ | Technical Assistance |
| MAY | Economy | Engagement type |
| LACNIC 41 | PA | Coordination |
| BKNIX Peering Forum and ThaiNOG 2024* | TH | NOG, Development, Training, Foundation Engagement, Member Outreach |
| AusCERT Conference 2024 | AU | CERT Engagement |
| RIPE 88 | PL | Coordination |
| CommunicAsia 2024 | SG | Member Outreach, Membership Development |
| APT ASTAP - 36 | TH | Government |
| APC Members and Partners Convening 2024 | TH | Foundation Engagement |
| WSIS+20 Forum High-Level Event 2024 | CH | Government, Internet Governance |
| CERT VU engagement | VU | CERT Engagement |
| Phoenix Summit* | BD | CERT Engagement, Security |
| PNG DNS Forum | PG | Training, Foundation Projects |
| Foundation Outreach in TH | TH | Foundation Engagement |
| Asi@Connect - Network Security Workshop (Bangladesh) | BD | Training |
| Asi@Connect - Network Security Workshop (Sri Lanka) | LK | Training |
| Asi@Connect - Network Management & Monitoring Workshop (Cambodia) | KH | Training |
| Asi@Connect - Internet Routing with Multihoming (Bhutan) | BT | Training |
| Open Tutorial - IPv6 Deployment Planning & IPv6 Security | AP | Training |
| Open Lab - IPv6 Security | AP | Training |
| APT - DNS/DNSSEC Workshop - Myanmar | MM | Training |
| KDDI Foundation - Internet Routing with RPKI | LA | Training |
| Internet Routing Series 2 - BGP Operations and Attributes - Philippines | PH | Training |
| IPv6 Awareness Tutorial (South East Asia and East Asia) | OP3 | Training |
| OSPF Operation (for Enterprise) - Mongolia | MN | Training |
| IRINN BGP Overview Tutorial | IN | Training, NIR Engagement |



| MAY | Economy | Engagement type |
|---|---------|---|
| Internet Routing Series 3 - BGP Routing Policy and Security - Philippines | PH | Training |
| e27 Exhelon X | SG | Foundation Engagement |
| Megaport - Weekly webinar | AU | Technical |
| DNSSEC Deployment Considerations | BD | Technical Assistance |
| APT WTSA24 1st interim meeting (virtual) | AP | Government |
| Engagements with SOI Asia partners in Viet Nam | VN | Foundation Projects |
| 2025 Strategy and Planning - Foundation & Keio | AU | Foundation Projects |
| BGP Community configuration on BIRD RS for M-ROOT | BD | Technical Assistance |
| JUNE | Economy | Engagement type |
| ICANN 80 | RW | Coordination, Government |
| FIRST Annual Conference 2024 | JP | CERT Engagement |
| VNNIC Internet Conference 2024 | VN | Internet Governance, NIR Engagement, Training |
| MyNOG 11* | MY | NOG |
| 57th AI3 & SOI Asia Directors Meeting | PH | Foundation Projects |
| Advanced Routing with BGP & RPKI - Malaysia | MY | Training |
| 4th Meeting of APT Preparatory Group for WTSA-24 (APT WTSA24-4) | AU | Government |
| Asi@Connect - Internet Routing with Multihoming Workshop (Laos) | LA | Training |
| Asi@Connect - Internet Routing with Multihoming Workshop (Mongolia) | MN | Training |
| Asi@Connect - Network Security Workshop (Viet Nam) | VN | Training |
| Open Tutorial - IPv6 Transition Techniques | AP | Training |
| Open Lab - IPv6 Transition | AP | Training |
| TWNIC - BGP Security & Attack Countermeasures Workshop | TW | Training |
| Foundation Outreach in MY | MY | Training |
| IPv6 Series 2 - Address Planning and Implementation - Philippines | PH | Training |
| APAC IPv6 Council Meeting | VN | Technical |
| PacNOG 33 | GU | NOG, Training, Member Outreach |
| Asi@Connect - Advanced MPLS Workshop (India) | IN | Training |
| IPv6 Series 1 - Architecture and Transition Techniques - Philippines | PH | Training |
| Asi@Connect Meeting in Mongolia | MN | Development |

| Global Digital Development Forum (GDDF) Bangkok 2024 | TH | Foundation Engagement |
|--|---------|---|
| Xiong An MOU Signing Visit | CN | Member Outreach |
| DNS/DNSSEC Workshop - Bangladesh | BD | Training |
| NANOG 91 | US | NOG |
| Internet Freedom, Digital Rights and Community Network in Timor-Leste | TL | Foundation Projects |
| AFNOG Webinar - Network Security Detection Techniques | AF | NOG |
| SGU Symposium | ID | Foundation Engagement |
| JPNIC General Meeting | JP | NIR Engagement |
| Tech Policy Futures 2024 | AU | Internet Governance |
| GDDF: Thailand Local Event | TH | Foundation Projects |
| Digital Rights: Opportunity and Challenges of Timorese navigating through social | TL | Foundation Engagement |
| JULY | Economy | Engagement type |
| APIGA 2024 | KR | Internet Governance |
| JANOG 54* | JP | NOG, Member Outreach, NIR Engagement |
| IETF 120 | CA | Technical |
| APAC DNS Forum 2024 | ID | Technical, Training |
| China Internet Conference 2024 | CN | Member Outreach, Membership Development, NIR Engagement |
| PHNOG 2024* | PH | NOG, Training, Member Outreach |
| bSides Brisbane 2024 | AU | Security, Training |
| IDNOG 9* | ID | NOG, Training, Member Outreach, NIR Engagement |
| 24th APT Policy and Regulatory Forum (PRF-24) | TH | Government |
| 1st Meeting of the APT Preparatory Group for WTDC-25 (APT WTDC25-1) | TH | Government |
| BdNOG 18* | BD | NOG, Training, Member Outreach |
| Partner2Connect (P2C) National Roundtable Cambodia | KH | Foundation Engagement |
| APT - Network Monitoring & Management - Indonesia | ID | Training |
| Foundation engagement Singapore | SG | Foundation Engagement |
| AVPN Impact Investing Fellowship | JP | Foundation Engagement |
| Switch! Philippines National Event 2024 | PH | Foundation Projects |
| Switch! Laos National Event 2024 | LA | Foundation Projects |
| Open Lab : DNS | AP | Training |

| JULY | Economy | Engagement type |
|---|----------------|---|
| Open Tutorial - DNS Operations | AP | Training |
| NPIX - Segment Routing Workshop | NP | Training |
| NPIX - Network Security Workshop | NP | Training |
| IPv6 Series 1 - Architecture and Transition Techniques - Laos | LA | Training |
| IPv6 Series 3 - IPv6 Transition Techniques - Philippines | PH | Training |
| IPv6 Awareness Tutorial - Mongolia | MN | Training |
| NTCERT (PTA) Engagement | PK | CERT Engagement |
| National CERT of Pakistan Webinar | PK | CERT Engagement |
| AUSNOG.local | AU | NOG |
| PKNOG Monthly Meetup | PK | NOG |
| Advanced Science, Technology, and Innovation (ASTICON) 2024 | PH | Foundation Engagement |
| AUGUST | Economy | Engagement type |
| ITCN Expo 2024 | PK | Member Outreach, Membership Development |
| APrIGF 2024* | TW | Internet Governance |
| APAN 58* | PK | Development, Security, Training |
| APNIC 58 | NZ | APNIC, Training, Foundation Projects, Foundation Engagement |
| LKNOG 8* | LK | Member Outreach, Training, NOG |
| btNOG 11* | BT | Member Outreach, NOG, Training |
| 19th Asian Internet Engineering Conference (AINTEC 2024) | AU | Technical |
| APSIG 2024* | TW | Internet Governance |
| TWIGF 2024 | TW | Internet Governance |
| ADF-21 APT Development Forum | ID | Foundation Engagement |
| APIE Camp in UNHAS | ID | Foundation Projects |
| APIE Camp #04 - DNS | ID | Training |
| DRAPAC | TW | Foundation Projects |
| Philanthropy Australia 2024 conference | AU | Foundation Engagement |
| SIGCOMM | AU | Foundation Engagement |
| TLNOG 1* | TL | NOG, Training |
| IPv6 Series 2 - Address Planning and Implementation - Laos | LA | Training |

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|--|----|---------------------|
| Huawei Meeting & Member Visits | SG | Member Outreach |
| Asi@Connect - Introduction to SDN (Pakistan) | PK | Training |
| Internet Routing Series 2 - BGP Operations and Attributes - Philippines | PH | Training |
| Internet Routing Series 1 - OSPF Operation - Philippines | PH | Training |
| Cyber Safety Pasifika - Brisbane | AU | Security |
| Introduction to Network Management and Monitoring (NMM) LibreNMS & Netbox - MN | MN | Training |
| Open Tutorial - Cryptography Fundamentals | AP | Training |
| Open Lab : PGP | AP | Training |
| YouthIGF in Chiang Mai* | TH | Internet Governance |
| 5th Meeting of APT Preparatory Group for WTSA-24 (APT WTSA24-5) | TH | Government |
| yIGF Myanmar 2024 | MM | Internet Governance |
| Kiribati ICT Bootcamp | KI | CERT Engagement |
| Switch! Vietnam National Event 2024 | VN | Foundation Projects |
| The 21st APT Telecommunication/ICT Development Forum (ADF-21) | ID | Foundation Projects |
| AFP and QPS Training | AU | Security |

| SEPTEMBER | Economy | Engagement type |
|--|----------------|-------------------------------|
| AusNOG 2024 | AU | Member Outreach, NOG |
| SGNOG 11 | SG | Member Outreach, NOG |
| IAASystems Workshop 2024* | AU | Member Outreach, Technical |
| APTLD 86 | VN | Coordination |
| mnNOG 6* | MN | Member Outreach, NOG |
| Fluxxcon 2024 | US | Foundation Engagement |
| inSIG 2024 | IN | Internet Governance, Training |
| Internet Routing Series 3 - BGP Routing Policy - Philippines | PH | Training |
| Pakistan - Internet Fundamentals for Investigators | PK | Training, Security |
| Cyber Security Awareness Training - Laos | LA | Training |
| MyIX - BGP Security & Attack Countermeasures Workshop | MY | Training |
| Eighth session of the Asia-Pacific Information Superhighway Steering Committee | KR | Foundation Engagement |
| Foundation engagement Korea | KR | Foundation Engagement |
| International Forum on Community Development and Digital Financial Inclusion | KR | Foundation Engagement |
| KRCERT/CC APISC 2024 | KR | CERT Engagement |



| SEPTEMBER | Economy | Engagement type |
|---|---------|---|
| Brunei Cybersecurity Conference (CYSEC) | BN | CERT Engagement |
| Switch! Cambodia National Event 2024 | KH | Foundation Projects |
| Switch! Timor-Leste National Event 2024 | TL | Foundation Projects |
| Open Tutorial - Network Management & Monitoring | AP | Training |
| Open Lab: SNMP, LibreNMS and RRD | AP | Training |
| mmNOG mini-NOG | MM | NOG |
| AVPN Southeast Asia Thought Leaders Forum | PH | Foundation Engagement |
| RIPE Atlas Probe Setup | TL | Technical Assistance |
| BGP Operation and Attribute - Mongolia | MN | Training |
| ICT Watch x APNIC: Alignment Meeting | ID | Foundation Engagement |
| IPv6 Protocol and Architecture - Philippines | PH | Training |
| PkSIG 2024* | PK | Internet Governance |
| Youth Internet Governance Forum (YIGF) India 2024* | IN | Internet Governance |
| OCTOBER | Economy | Engagement type |
| NANOG 92 | CA | NOG |
| ITU WTS-24 | IN | Government |
| PITA Strategy Forum 2024 | AU | Member Outreach |
| ARIN 54 | CA | Coordination |
| RIPE 89 | CZ | Coordination |
| LANOG 2.0* | LA | NOG, Training, Member Outreach |
| KHNOG 6* | KH | NOG, Training, Member Outreach |
| auIGF 2024 | AU | Internet Governance |
| OARC 43 | CZ | Technical |
| SANOG 42* | PK | Foundation Engagement, NOG, Member Outreach, Training |
| AI3 and SOI Asia Joint Meeting | AP | Foundation Engagement, Foundation Projects |
| SGNOG - Network Automation Workshop | SG | Training |
| KRNOG 2* | KR | NOG, Member Outreach |
| SCAT India 2024 | IN | Member Outreach, Membership Development |
| VNIXNOG 2024* | VN | NOG |
| Switch! Thailand National Event 2024 | TH | Foundation Projects |
| APTLTD Online Training Series - Intro to Network Security | AP | Training |

| 42nd TWNIC IP Open Policy Meeting | TW | NIR Engagement |
|--|---------|--|
| Connecting the Unconnected (CTU) Challenge 2024 | AE | Foundation Projects |
| DFRWS APAC 2024* | AU | Security |
| btCIRT Security Awareness Week | BT | CERT Engagement, Training, Security |
| RUB Network Security Workshop - Bhutan | BT | Training |
| ISIF Asia PH Project Site Visits | PH | Foundation Projects |
| ESNOG 32 | ES | NOG |
| Internet Routing Fundamentals - Mongolia | MN | Training |
| Open Tutorial - MPLS Fundamentals | AP | Training |
| Maldives IGF 2024 | MV | Internet Governance |
| IDIGA 2024 | ID | Internet Governance |
| Open Lab - MPLS Labs | AP | Training |
| Root KSK Ceremony 55 | US | Coordination, Technical |
| India Peering Forum 2024 | IN | Member Outreach |
| MISPA-IX community event | MN | Technical |
| NOVEMBER | Economy | Engagement type |
| Peering Asia 6.0* | ID | Member Outreach, Technical |
| IETF 121 | IE | Technical |
| ICANN 81 | TR | Coordination |
| npNOG 10* | NP | Member Outreach, NOG, Training |
| Cambodia National yIGF | KH | Foundation Projects |
| HKNOG 13.0* | HK | NOG, Training, Member Outreach |
| Foundation Engagements India | IN | Foundation Engagement |
| APIE Camp #05 - USK | ID | Training, Foundation Projects |
| FIRST Asia-Pacific Regional Symposium | TW | Foundation Projects, CERT Engagement |
| APIGA Australia 2024 | AU | Internet Governance |
| Japan Internet Week 2024* | JP | Technical, Member Outreach, NIR Engagement |
| APCERT AGM & Conference 2024 | TW | CERT Engagement |
| CNX-APAC 2024 | IN | Foundation Projects |
| Digital Citizen Summit 2024 - Algorithms, AI & Accountability | IN | Foundation Projects |
| APNIC Academy IPv6 Certification (Associate) ALPHA Trial - Nepal | NP | Training |
| TWNIC - Network Automation Workshop | TW | Training |



| NOVEMBER | Economy | Engagement type |
|---|---------|---------------------------------|
| Forum on ASEAN Internet Exchange Network | ID | Development |
| 2024 World Internet Conference (WIC) Wuzhen Summit | CN | Government |
| PacNOG - 34 | WS | NOG, Training, Member Outreach |
| 2024 China Internet Infrastructure Resources Conference (CNIRC) | CN | Member Outreach, NIR Engagement |
| IPv6 464XLAT Workshop - Indonesia | ID | Training |
| Open Tutorial - Introduction to Segment Routing | AP | Training |
| ISIF Asia Site Visit - Airjaldi | IN | Foundation Projects |
| Open Tutorial - Introduction to Segment Routing | AP | Training |
| Open Lab- Introduction to Segment Routing Labs | AP | Training |
| Japan IGF 2024 | JP | Internet Governance |
| IPv6 Series 3 - IPv6 Security - Laos | LA | Training |
| RPKI Refresh + Discussion | AU | Technical Assistance |
| INNOG - DWDM Online Workshop | IN | Training |
| MHK-IX RPKI/ROV Setup | PH | Technical Assistance |

| DECEMBER | Economy | Engagement type |
|--|---------|--|
| IGF 2024 | SA | Internet Governance, Foundation Engagement |
| APNIC Academy IPv6 Certification (Associate) ALPHA Trial - Philippines | PH | Training |
| Network Security in Cryptography and PGP Encryption Training - Laos | LA | Training |
| DCN Global - A Connected Pacific: Building a Unified Digital Voice | FJ | Foundation Engagement |
| 2nd APAC IPv6 Council Meet | MY | Government, Technical |
| 2nd Meeting of the APT Preparatory Group for WTDC-25 (APT WTDC25-2) | AP | Government |
| TLNOG - Cybersecurity Awareness Tutorial | TL | Training |
| MENOG 24 | OM | NOG |
| CNNIC - IPv6 Workshop (Delivered in Mandarin) | CN | Training |
| AFNOG 2* | AF | Foundation Projects, NOG |
| Open Tutorial - Introduction to SRv6 | AP | Training |
| ON-IDLE Project Stakeholders Meeting | PH | Foundation Projects |
| Open Lab - Introduction to SRv6 Labs | AP | Training |
| IGF Sri Lanka 2024 | LK | Foundation Engagement |
| IPv6 Deployment - Mongolia (Part 1) | MN | Training |
| IPv6 Deployment - Mongolia (Part 2) | MN | Training |
| AFSIG 2024 | AF | Internet Governance |
| aFIGF 2024 (Afghanistan IGF) | AF | Foundation Projects, Internet Governance |

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