

APNIC Update and RIR Policies for ccTLDs

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Outline

- APNIC update
- Policies for ccTLDs
- Global Policy Process

APNIC UPDATE

APNIC Vision

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 and expert authority on Internet infrastructure.

APNIC Principles

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.

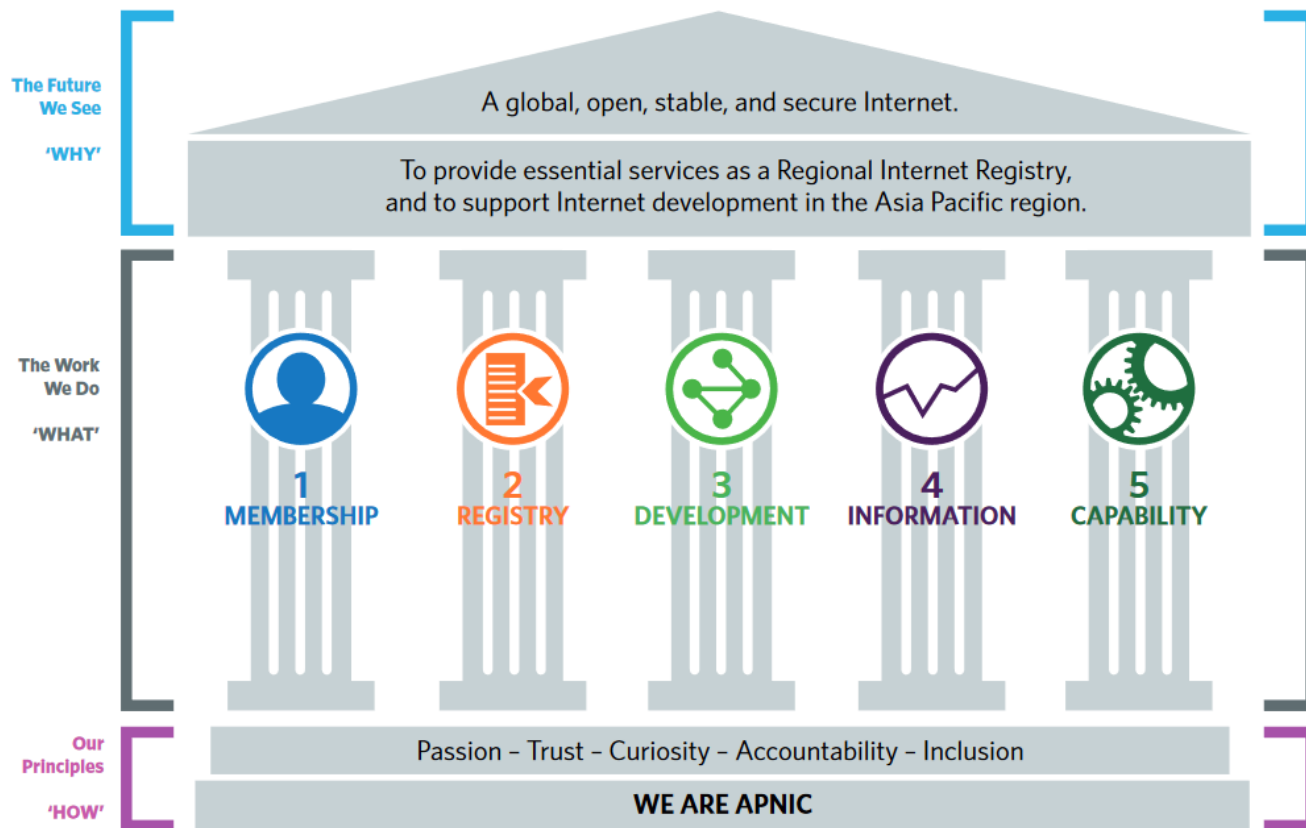
Inclusion and diversity really matter to us.

We take pride and excel in everything we do.

We are curious. We are accountable.

We are APNIC.

Strategic plan 2020-2023



Pillars and Workstreams



1. MEMBERSHIP

- 1A. **MEMBER SERVICES**
Deliver excellence in service and value to Members through active and quality engagement.
- 1B. **MEMBERSHIP PRODUCTS**
Apply best practice in development of membership products that meet Members' needs and exceed their expectations.
- 1C. **MEMBERSHIP REPORTING**
Ensure that APNIC remains fully accountable to its Members by providing timely and accurate information about APNIC operations.



2. REGISTRY

- 2A. **REGISTRATION SERVICES**
Provide delegation and registration services for Internet numbers (ASNs, IPv4, IPv6) according to community developed policies.
- 2B. **REGISTRY PRODUCTS**
Maintain an accurate number registry and reliable registry services.
- 2C. **POLICY DEVELOPMENT**
Facilitate the open Policy Development Process to ensure resource policies in the APNIC region are developed and implemented in a neutral manner consistent with agreed rules and community expectations.



3. DEVELOPMENT

- 3A. **APNIC CONFERENCES**
Deliver engaging and relevant APNIC conferences for learning, sharing ideas and experience, professional networking, and Internet policy development.
- 3B. **FOUNDATION SUPPORT**
Provide operational support to ensure the success of the APNIC Foundation.
- 3C. **COMMUNITY ENGAGEMENT**
Build and maintain close and meaningful relationships between APNIC and its various communities.
- 3D. **COMMUNITY PARTICIPATION**
Encourage awareness, diversity, participation, and leadership in APNIC processes, events, and activities.
- 3E. **APNIC ACADEMY**
Scale up training and technical assistance infrastructure with high-quality training content and curriculum.
- 3F. **INTERNET INFRASTRUCTURE SUPPORT**
Promote and support the deployment of critical Internet infrastructure and deploy tools for operational infrastructure monitoring.



4. INFORMATION

- 4A. **INFORMATION PRODUCTS**
Provide meaningful information services to the communities APNIC serves.
- 4B. **RESEARCH AND ANALYSIS**
Analyse the pressures shaping the evolution and future demands of Internet names and numbers infrastructure, and their impacts.



5. CAPABILITY

- 5A. **INTERNAL TECHNICAL INFRASTRUCTURE**
Provide stable and secure technical infrastructure to support APNIC operations and services.
- 5B. **FINANCE AND BUSINESS SERVICES**
Provide efficient and robust finance and business services and facilities to effectively support APNIC's operations.
- 5C. **EMPLOYEE EXPERIENCE**
Attract, develop and retain talented, service-oriented people to deliver APNIC's mission and exceed organization and community expectations.
- 5D. **GOVERNANCE**
Provide the legal, economic and governance framework and professional services to support APNIC's operations to minimize risk and ensure compliance and continuity.

Strategy Overview 2024-2027



Strategic Pillars



1. REGISTRY

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



2. DEVELOPMENT

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



3. ENGAGEMENT

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



4. CAPABILITY

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

VALUE STREAMS

ENABLERS

PURPOSE

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

- Provide registry users with highly responsive and proactive service
- Provide a sustainable, verifiable, current and complete registry for the region
- Ensure responsible resource stewardship in accordance with community developed policies (b)
- Strive to increase the value of registry services to the Internet

MOST IMPORTANT GOALS

- Transform registry services towards proactive, higher quality service.

Lead Indicators

- Demonstrated quality service levels
- Increased service transaction automation
- Increased attention to proactive vs reactive work

- Develop a framework to support authenticity and trust in registry data.

Lead Indicators

- Mechanisms supporting registry data integrity established and implemented
- NIR consistency with APNIC standards and services


- Initiate and support activities of the NRO to provide and promote a joint Internet Numbers Registry.


Lead Indicators

- Agreed set of joint registry services
- Joint registry services implemented



PURPOSE

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

- Build community capacity for sustainable and resilient Internet operations in the region 
- Support the APNIC Foundation in increasing investment in APNIC's development goals
- Undertake unique and relevant research, and provide information products to improve understanding of the Internet operational environment

MOST IMPORTANT GOALS

- Develop adaptable, cost-effective and scalable capacity building models beyond direct delivery.

Lead Indicators

- Increased adoption of Internet best practices
- Increased development of certified training courses
- Successful delivery of certified training courses by partners


- Evolve approach to cybersecurity advice and technical assistance support.


Lead Indicators

- Improved cybersecurity posture index and risk within Member networks
- Demonstrated satisfaction with security training content and delivery



PURPOSE

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

- Strengthen the depth and breadth of Member and community relationships to recognize and respond to their needs
- Encourage interest in Internet infrastructure and participation in the multistakeholder model of Internet governance. 
- Encourage awareness, diversity, participation, and leadership in APNIC processes, events, and activities, with a focus on the next generation

MOST IMPORTANT GOALS

- Proactively engage at all relevant levels—from executives, government officials and policy decision makers through to aspiring network engineers—to increase Member and community involvement in important decisions.

Lead Indicators


- Demonstrated diversity of community contacts in engagements and participation
- Increased participation in decision making, including governance and open policy development

- Improve feedback analysis and coordination to ensure APNIC remains responsive.

Lead Indicators

- Demonstrated action taken in response to feedback
- APNIC Survey satisfaction results

PURPOSE

Provide comprehensive organizational support to increase APNIC's value to the community. 

- Breed a high-performance culture driven by APNIC's vision, mission, values and credo
- Leverage data, collaboration, innovation and knowledge sharing to enhance informed decision making
- Sustain a responsive and resilient organization and technical infrastructure
- Maintain integrity, quality, financial responsibility and accountability

MOST IMPORTANT GOALS

- Effective management of resources and expenditure to achieve financial and activity goals.
Lead Indicators
 - Robust, secure and cost-effective business operations and technical infrastructure
 - Deliver a balanced budget over the medium term
- Strengthened governance to increase accountability and reduce risk.
Lead Indicators
 - A transparent and robust governance structure
 - Increased participation in APNIC governance activities
 - Successful ISO and financial audits
- A highly engaged and productive workforce.
Lead indicators
 - Exceeding staff engagement benchmarks
 - Policies, rewards and benefits meet best practice and legal standards
 - Workplace physical and psychological safety ensured



APNIC By-laws Objects

- a. To provide the service of allocating and registering Internet resources for the purpose of enabling communications via open system network protocols and to assist in the development and growth of the Internet in the Asia and Pacific Rim region
- b. To assist the Asia and Pacific Rim Internet community in the development of procedures, mechanisms, and standards to efficiently allocate Internet resources as a service to the community as a whole
- c. To provide educational opportunities to further Members' technical and policy understanding of the industry
- d. To develop public policies and public positions in the best interest of the Members and to seek legislative and regulatory consideration of issues of general benefit to the Members, where and when appropriate
- e. To serve as the administrative, managerial and operations arm of APNIC Pty Ltd, and to transact all activities, functions and affairs on behalf, and in the name, of the corporation

References to the APNIC By-laws in the following pages in this document are noted with the letter you see next to each by-law object above.

* APNIC By-laws Part II.2

INTERNET NUMBER POLICIES FOR CCTLDS

Criteria for Critical Infrastructure

- The following critical infrastructure networks, if operating in the Asia Pacific region, are eligible to receive a delegation:
 - Root domain name system (DNS) server
 - Global top-level domain (gTLD) nameservers
 - Country code TLD (ccTLDs) nameservers
 - IANA
 - Regional Internet Registry (RIRs), and
 - National Internet Registry (NIRs)

IPv4 policies across all RIRs

- **AfriNIC**
 - Size: /24 minimum, more if justified.
 - Eligibility: No specific criteria defined.
- **APNIC**
 - Size: /24 minimum
 - Eligibility: Delegations to critical infrastructure are available only to the actual operators of the network infrastructure performing such functions.
- **ARIN**
 - Size: /24 minimum
 - Eligibility: Assignments to critical infrastructure are available only to the actual operators of the network infrastructure performing such functions.
- **LACNIC**
 - Size: /24 minimum, /22 maximum
 - Eligibility: Assignments to critical infrastructure are available only to the actual operators of the network infrastructure performing such functions. If the applicant does not already have an IPv6 block assigned by LACNIC, simultaneously request an IPv6 block in accordance with the corresponding applicable policy.
 - LACNIC will create an IPv4 reserve equivalent to a /15 that will be used once the address space for Phase 3 of the regional IPv4 Exhaustion Plan runs out. This will be to facilitate the deployment of infrastructure considered to be critical or essential for the operation of the Internet in the region.
- **RIPE NCC**
 - From Friday, 14 September 2012 the RIPE NCC no longer allocates or assigns address space for Anycasting ccTLD, gTLD, ENUM.

IPv6 policies across all RIRs

- **AfriNIC**
 - Size: /48 minimum
 - Eligibility: Requestor to prove they operate a critical infrastructure network.
- **APNIC**
 - Size: /32 maximum
 - Eligibility: APNIC account holders with IPv4 resources delegated under the IPv4 critical infrastructure policy, but with no IPv6 resources, automatically qualify for an IPv6 /48.
 - Account holders that do not hold an IPv4 critical infrastructure delegation from APNIC, that have existing IPv6 resources, or that wish to request more than /48 should meet the following requirement:
 - Delegations to critical infrastructure are available only to the actual operators of the network infrastructure performing such functions.
- **ARIN**
 - Size: /48 minimum
 - Eligibility: Assignments to critical infrastructure are available only to the actual operators of the network infrastructure performing such functions.
- **LACNIC**
 - Size: /48 minimum, no maximum
 - Eligibility: Micro allocation to critical Internet infrastructure operators only.
- **RIPE NCC**
 - Size: For Root DNS minimum allocation size at time of request. It is up to four /48s per Anycasting ccTLD/gTLD and ENUM
 - Eligibility:
 - Root DNS:
 - Assignments to critical infrastructure are available only to the actual network infrastructure performing such functions.
 - Anycasting ccTLD, gTLD, ENUM:
 - An organization may receive up to four /48 prefixes per TLD and four /48 prefixes per ENUM. These prefixes must be used for the sole purpose of Anycasting authoritative DNS servers for the stated TLD/ENUM, as described in BCP126/RFC4786.

GLOBAL POLICY PROCESS

Types of policies

Regional



Global



Policy process

Regional

- RIR receives the proposal
- RIR Policy SIG reviews and activates the PDP
- Proposed, discussed, presented in the RIR region
- Consensus reached by RIR community
- Proposal is endorsed by RIR Executive Council
- Policy is implemented by RIR
- Policy is effective to RIR community

Global

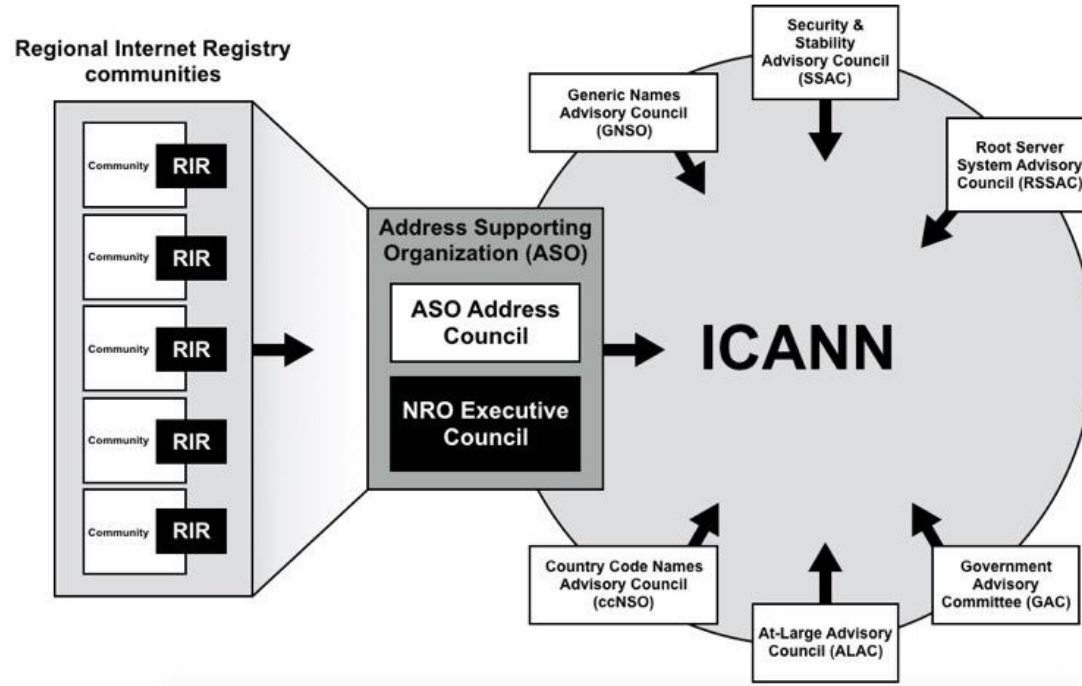
- Number supporting organisation (NRO)
Number council (NC) receives the proposal
- NRO NC reviews proposal and activates the GPDP
- Proposed, discussed, presented in all RIR regions
- Consensus must be reached in all RIR regions
- Proposal is endorsed by ICANN board
- Policy is implemented across all RIRs
- Policy is effective globally

Global policy coordination

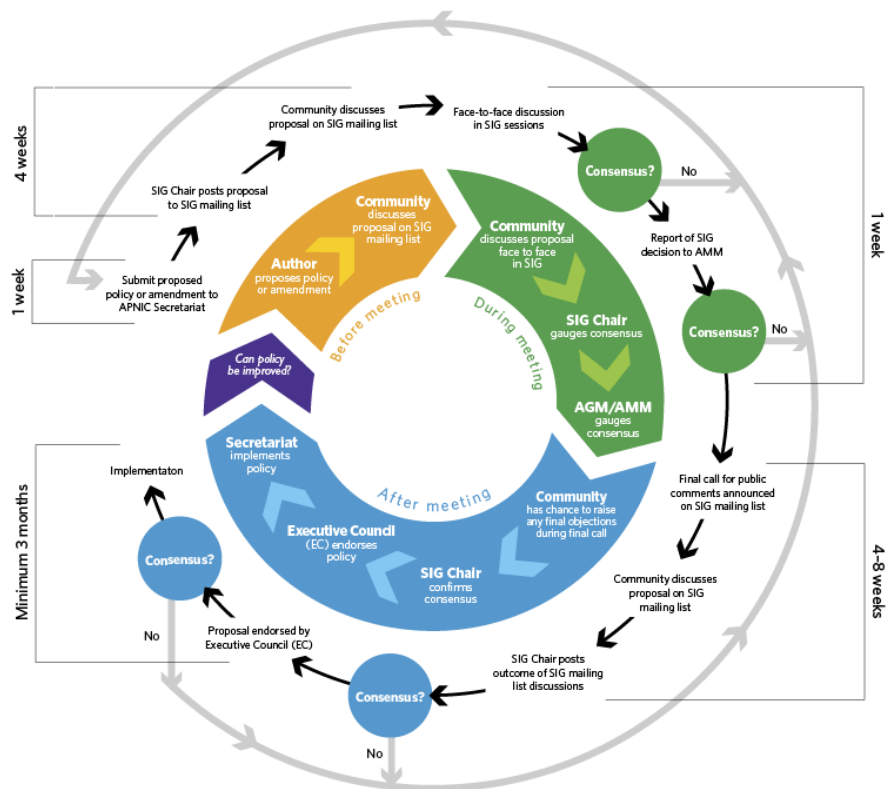
- ASO (NRO) forwards global policy proposals to the ICANN Board for ratification once the five RIR communities have reached consensus on them
- ASO (NRO) reviews the process regarding how the RIRs reach agreement on global policies



ASO (NRO) in the ICANN structure



APNIC Policy Development Process



Thanks!

