APNIC Update

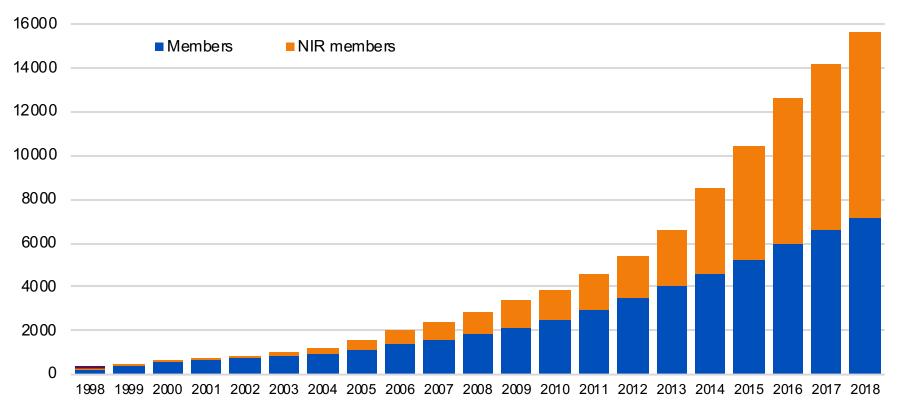
ARIN 43 9 April 2019 Bridgetown, Barbados



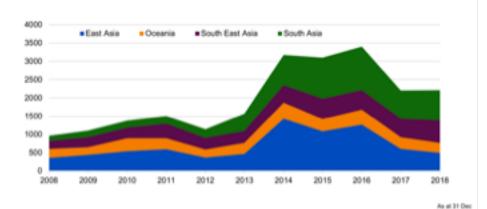
"A global, open, stable and secure Internet that serves the entire Asia Pacific community"

APNIC

Membership



IPv4 Delegations

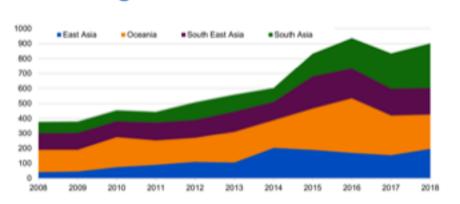


IPv6 Delegations

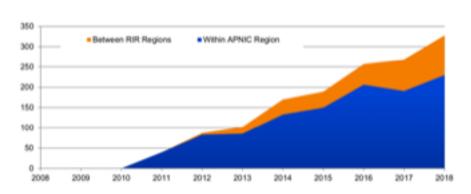


As at 31 Dec

ASN Delegations

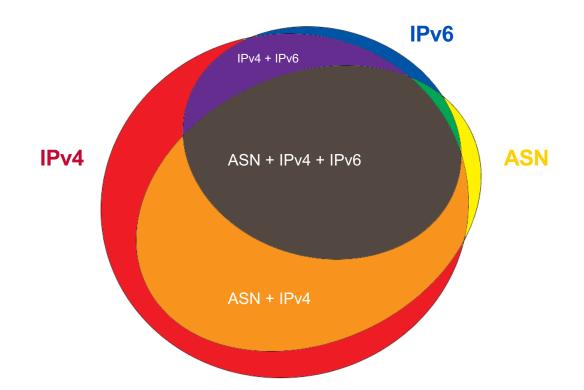


IPv4 Transfers



As at 31 Dec

Resource Holdings



Member resource holdings				
ASN	76%			
IPv4	96%			
IPv6	62%			

As at 31 Mar

APNIC Survey 2018

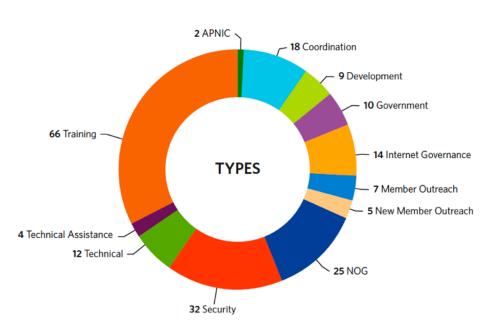
- Every 2 years since 1999
 - 10th survey completed Sep 2018
 - Regional focus groups, interviews and online survey
 - Major input into APNIC board planning processes
 - EC response published Dec 2018
- Independent, anonymous
 - Currently conducted by Survey Matters, Australia
- 1,241 valid responses 31% non-English
- 97% of responses from Asia Pacific
- Thanks to all who responded!

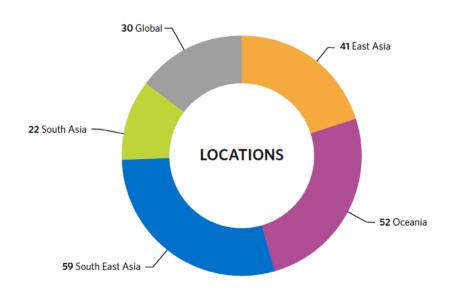
apnic.net/survey

Policy Proposals

Proposals	Status
prop-118: No need policy in APNIC region	Proposal abandoned.
prop-124: Clarification on IPv6 sub- assignments	Did not reach consensus and returned to mailing list for further discussion.
prop-125: Validation of "abuse-mailbox" and other IRT emails	Reached consensus at APNIC 46; implementation in 2019.
prop-126: PDP Update	Did not reach consensus and returned to mailing list for further discussion.
prop-127: Change maximum delegation size of 103/8 IPv4 address pool to a /23	Reached consensus in the APNIC 47 Policy SIG and AGM.
prop-128: Multihoming not required for ASN	Reached consensus in the APNIC 47 Policy SIG and AGM.
prop-129: Abolish waiting list for unmet IPv4 requests	Reached consensus in the APNIC 47 Policy SIG and AGM.

External Engagement Summary





Training & TA





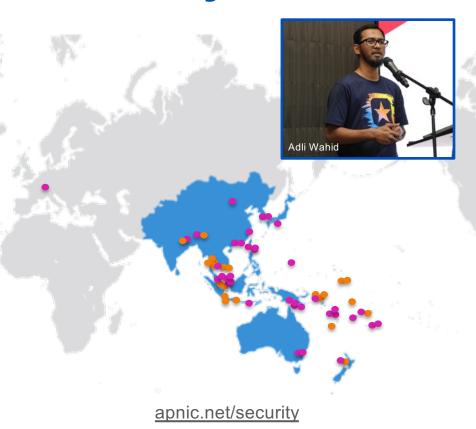
	2018	2019
Face-to-face training Economies Trainees	66 35 2,156	7 3 168
Community Trainers	15	15
eLearning sessions Trainees	66 365	9 79
TA sessions Members	9 5	-

Technical Community



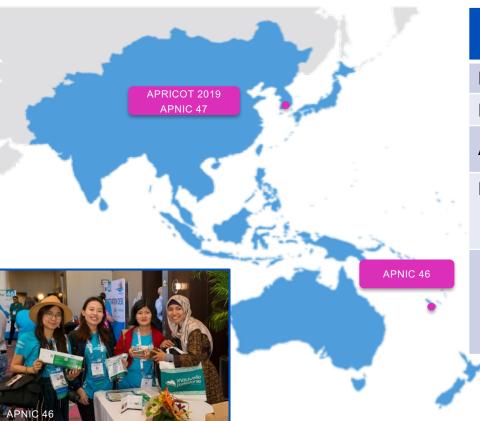
- **NOGs**: Participated in 21 NOGs
- Root servers: F at PNG IXP: F in FJ relocated to IXP: K at BTIX, K at TPIX
- IXPs: VN, MM, PNG, MN, FJ, TL, BN including IXP-DB, APIX, Peering Asia, IXP Manager
- **Sponsorships**: 17 regional events plus 17 NOGs
- **R&E**: trainings at APAN 45/46; with **GEANT and MYREN: AARNET:** joined eduroam Wi-Fi community
- Internet Directory portal updated

Security



- 38 security engagements
- Contributed to new CERTs in PNG and Vanuatu
- PNG's 'Enhancing National Cybersecurity and Network Quality of Service' project ahead of APEC
- Security training 23 face-to-face and 19 eLearning sessions
- FIRST TC events at APRICOT 2018
 & 2019 and APNIC 46 (Adli Wahid @ FIRST Board)
- DASH Dashboard for AS Health

APNIC Conferences



	APNIC 46	APRICOT 2019					
Delegates	305	714					
Economies	46	57					
APNIC Member orgs	92	153					
Remote participantsAdobe ConnectYouTube	194 2,022 views	196 3,757 views					
Fellowships Gender Economies Type	62 24 F, 38 M 17 50 P / 6 Y / 7 R						

conference.apnic.net

RPKI

'Validation Reconsidered'

- Reduce sensitivity to isolated or transient errors
- Adopted as RFC8360

'Anysign' Function

- RTA = Resource Tagged Attestation
- Proof-of-concept to enable RPKI signing of any document or object eg. LOA for service provisioning
- OID request submitted to IANA

	1/1/2018	31/12/18	Δ	28/2/19	Δ
Members with certs	13.0%	21.9%	68%	22.4%	2%
Members with ROAs	7.4%	11.3%	52%	11.6%	2%
IPv4 under ROAs	3.3%	6.1%	85%	6.6%	8%
IPv6 under ROAs	0.9%	5.6%	522%	7.2%	22%



apnic.net/rpki

APNIC Academy



- Relaunched August 2018
 - Virtual labs
 - New partner courses
 (MANRS, Network
 Forensics and Analysis,
 IoT Security Challenges)
 - New PDP course
- Free public access
 - Enrolled: 1,537
 - Certified: 1,042
- New courses coming soon

academy.apnic.net

blog.apnic.net



- Numbers community news and views – not just APNIC!
- 1.4m views since inception
- 2018: 371 posts, 40,064 views/mth
- 50% posts authored by the community
- Story idea? Contact us!

APNIC Foundation





'To have a global, open, stable and secure Internet that is affordable and accessible to the entire Asia Pacific community'

apnic.foundation

- Purpose: To increase APNIC development activities without relying on Member funds
- Two staff seconded from APNIC
- Board members appointed: Edward Tian (CN), Sharad Sanghi (IN), Sylvia Sumarlin (ID), Michael Malone (AU), Danish Lakhani (PK)
- First AGM and board meeting May 2018; Sylvia Sumarlin elected Chair
- Over AUD 1M in funding secured in first year

APNIC

APNIC 448 CHIANG MAI, THAILAND 5 - 12 September 2019



Chiang Mai, Thailand 5-12 September 2019

Hosted by





APNIC Update

ARIN 43 9 April 2019 Bridgetown, Barbados