

Peering Forum 3
Tuesday 28 February 2017



APIX update

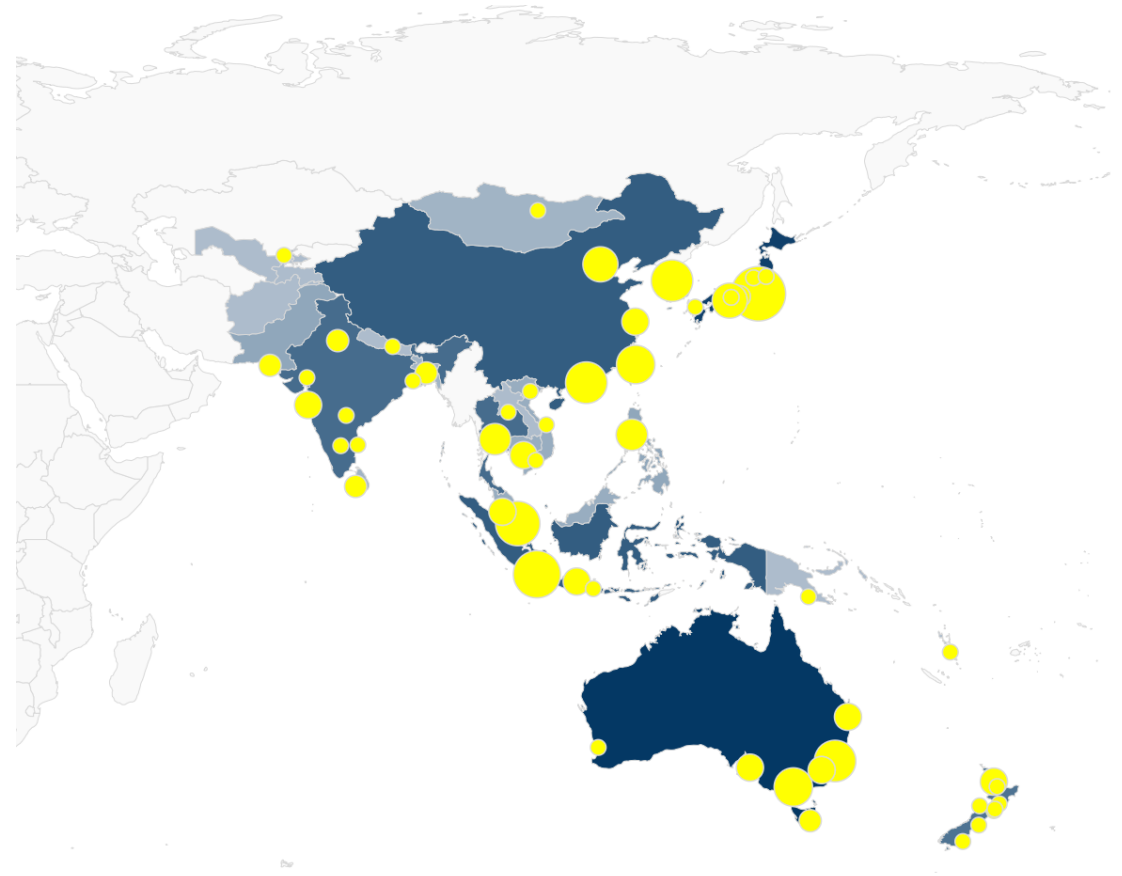
Katsuyasu TOYAMA
ex-Chair, APIX association

What is APIX?

- Asia-Pacific Internet Exchange
 - An association of Internet Exchange Providers in Asia-Pacific region

Internet Exchanges in Asia Pacific

- You know IX very well 😊
 - where ISPs and ICPs connect and exchange their traffic, in order to reduce latency and improve quality between them, and reduce the cost
- According to PCH directory, in APAC
 - 25 countries/economies
 - 169 internet exchange points



Source: pch.net

Why an association for IXP in Asia Pacific?

- Doing the **same business** in each country/economy
- Having **almost the same kind of issues**
- Worth creating an IXP community to **share information and experiences** about technical, operational, and business **issues** and its **solutions** regarding **Internet Exchange**

Steering Committee (by this meeting)

- SC members
 - Chairperson: Katsuyasu Toyama –JPNAP (JP)
 - Secretary: Ajai Kumar --NIXI (IN)
 - Treasurer: Gavin Tweedie -- Megaport (AU/HK/SG/NZ)
 - Meeting Arrangement: Che-Hoo Cheng --HKIX (HK)
 - Website Management: Brian Kim –Twitch (KR)



Katsuyasu

Che-Hoo

Gavin



Ajai



Brian

APIX Members

- **25 IXPs, from 17 countries and economies (+2 IXPs, +1 country increased)**
 - Australia, Bangladesh, Cambodia, China, Hong Kong, India, Indonesia, Japan, Korea, Malaysia, Nepal, New Zealand, **Philippine**, Singapore, Taiwan, Thailand, Vietnam

The image displays a map of the Asia-Pacific region with 25 IXP logos arranged around it. The logos are: Mumbai iX, nPIX, nixi (National Internet Exchange of India), BDIX (Bangladesh Internet Exchange), MyIX (Malaysia Internet Exchange), SOX, bknix, CNX, sgix (Singapore Internet Exchange), IX AUSTRALIA (Internet Peering for Australia), KINX, CHN IX, HKIX, VNIX, NZIX, JP NAP, BBIX, jpix (Japan Internet Exchange), pixie (Philippine Internet Exchange), TPIX, and EQUINIX.

25 APIX members

- AMS-IX Hong Kong (HK)
- BBIX (JP)
- BDIX (BD)
- BKNIX (TH)
- CHN-IX (CN)
- CNX (KH)
- DIX-IE (JP)
- Equinix (HK, JP, SG, AU)
- HKIX (HK)
- IIX (ID)
- IX-Australia (AU, NZ)
- JPIX (JP)
- JPNAP (JP)
- KINX (KR)
- Megaport (AU, HK, SG, NZ)
- **MumbaiIX (IN)**
- MyIX (MY)
- NIXI (IN)
- NP-IX (NP)
- NZIX (NZ)
- **PHOpenIX (PH)**
- SGIX (SG)
- SOX (SG)
- TPIX (TW)
- VNIX (VN)

Meeting history

#	Date	Place	Attendees	IXPs in AP
15th	Sunday, 26 February, 2017	Ho-Chi-Minh City (Vietnam)	54 people (54 from IXPs)	20 IXPs in AP
14th	Sunday, 2 Oct. 2016	Colombo (Sri Lanka)	28 people (26 from IXPs)	13 IXPs in AP (4 remotely)
13th	Sunday, 21 Feb. 2016	Auckland (New Zealand)	50 people (45 from IXPs)	14 IXPs in AP (1 remotely)
12th	Sunday, 6 Sep. 2015	Jakarta (Indonesia)	20 people (18 from IXPs)	11 IXPs in AP
11 th	Sunday, 1 Mar. 2015	Fukuoka (Japan)	61 people (38 from IXPs)	14 IXPs in AP
10 th	Sunday, 14 Sep. 2014	Brisbane (Australia)	32 people (26 from IXPs)	11 IXPs in AP(2 remotely)
9th	Sunday, 23 Feb. 2014	Petaling Jaya (Malaysia)	~50 people	14 IXPs in AP
8th	Sunday, 25 Aug. 2013	Xi'an (China)	26 people (19 from IXPs)	13 IXPs in AP
7th	Sunday, 24 Feb. 2013	Singapore (Singapore)	40 people (36 from IXPs)	14 IXPs in AP
6th	Wednesday, 29 Aug. 2012	Phnom Penh (Cambodia)	26 people (24 from IXPs)	12 IXPs in AP (1 remotely)
5th	Sunday, 26 Feb. 2012	New Delhi (India)	27 people (22 from IXPs)	11 IXPs in AP (2 remotely)
4th	Tuesday, 30 Aug. 2011	Busan (Korea)	23 people (21 from IXPs)	12 IXPs in AP
3rd	Sunday, 20 Feb. 2011	Hong Kong (Hong Kong)	31 people (23 from IXPs)	10 IXPs in AP
2nd	Monday, 23 Aug. 2010	Gold Coast (Australia)	11 people (9 from IXPs)	7 IXPs in AP
1st	Monday, 1 Mar. 2010	Kuala Lumpur (Malaysia)	15 people (14 from IXPs)	7 IXPs in AP

Summary of APIX meeting #15

Technical and operational topics

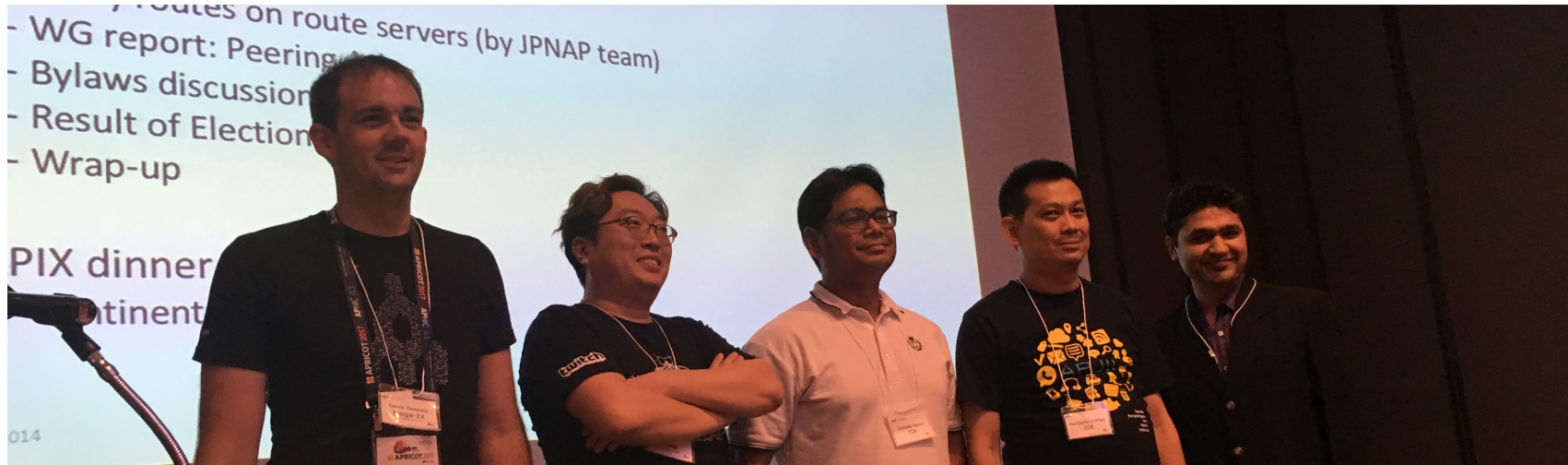
- Technical/Operational Discussion
 - IXP Database: by Bijal @ Euro-IX
 - AMS-IX techniques for monitoring/debugging IX platform: by Eric @ AMS-IX Hong Kong
 - Many routes on route server: by JPNAP team
- IXP updates
 - HKIX
 - TPIX
 - AMS-IX HK, BBIX, Dix-ie, Equinix, IIX, IX-Australia, JPIX, JPNAP, KINX, Mega-IX, MumbaiIX, NIXI, NPIX, VNIX

Administrative topics

- Membership fee Collection: **18 IXPs paid**
- **Bylaws modification -- Approved**
 - *“If a member does not pay membership fee by due date, they will lose voting rights at General Meetings.”*
- **Steering Committee member Election**
- **Open peering event in Asia Pacific**
 - “open” to peering managers of any organization, and peering coordinators of internet exchanges
 - Working Group decided the host companies.
 - Its name, venue, and date have been fixed.

New Steering Committee

- SC members
 - Chairperson: Brian Kim -- Twitch (KR)
 - Secretary: **Ajai Kumar** -- NIXI (IN)
 - Treasurer: Gavin Tweedie -- Megaport (AU/HK/SG/NZ)
 - Meeting Arrangement: **Zulfadly Syam** -- IIX (ID)
 - Website Management: **Harijanto Pribadi** -- IIX (ID)



Gavin

Brian

Zul

Harijanto

Ajai

New Open Peering Event in APAC
Peering Asia 2017

- **Nov. 1st – 2nd, 2017
(Wed. – Thu.)**
- **Westin Miyako Hotel,
in Kyoto, Japan**
 - Hosts:
 - BBIX, Equinix JP, JPIX, and JPNAP



**Please mark your calendar.
The site will be ready soon.**

