

APIX meeting #31

23 Feb 2025

Petaling Jaya, Malaysia

Welcome to Petaling Jaya, Malaysia!
Welcome to the APIX meeting #31!

APIX meeting #31

Registered attendees: **86**

- APIX members: **60** in-person, **7** online
- Patrons: **10** in-person
 - APNIC, Google, ISOC
- Invited: **9** in-person
 - IXPs in other regions, speakers, University

Attending APIX member IXPs: **34**
(including in-person and online)

as of 18 Feb 2025, the deadline of registration

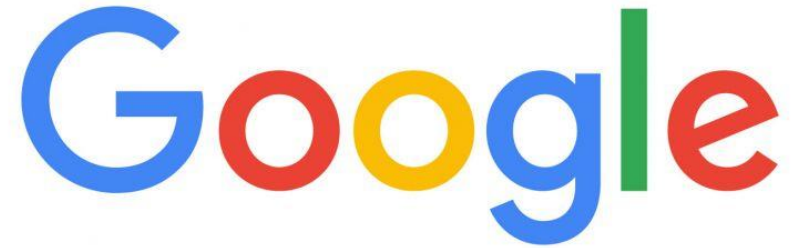
Acknowledgement

- Sponsorship from the Internet Society (ISOC)



Acknowledgement

- Sponsorship from Google



Acknowledgement

- APNIC always supports our activities
- Meeting room and Zoom link is provided by courtesy of APNIC



APIX Update

23 Feb 2025

APIX

Katsuyasu Toyama (APIX)

APIX meeting #31

The anniversary of 15 years!

Brief historical topics of APIX

- APIX started in **2010**
 - Before that, APNIC had a special interest group for IXPs, called “IX-SIG” (Che-Hoo, Gaurab, Raf managed)
 - An IXP association, like Euro-IX, was needed in APAC region
- APIX Bylaws fixed in 2012
- First Steering Committee election in 2013
- Started collecting membership fee in 2016

IXP associations in the world

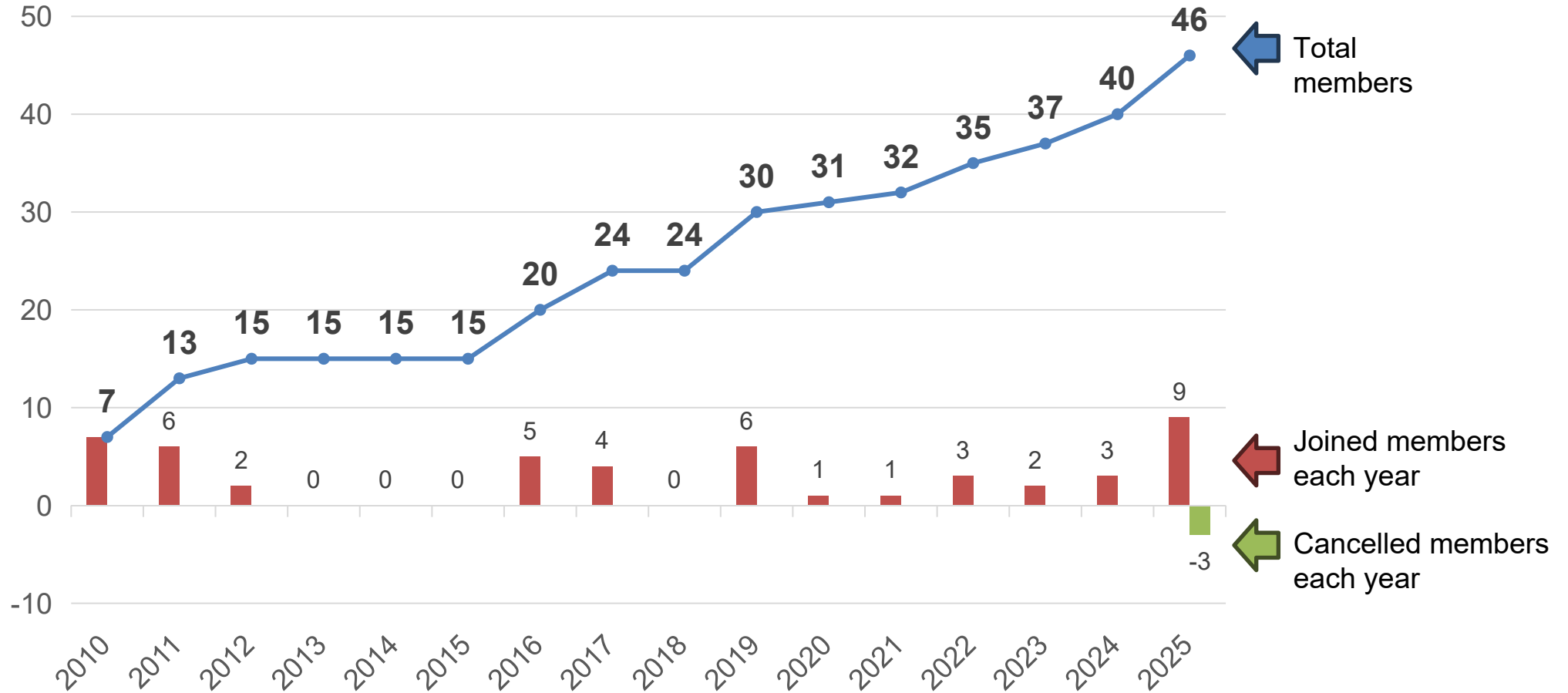


Reference: Euro-IX Update at Euro-IX forum

What is APIX association?

- **“Asia-Pacific Internet Exchange”**
 - An association of Internet Exchange Providers in Asia-Pacific region
 - **Objectives:**
To share information about technical, operational, and business issues/solutions regarding Internet Exchange

APIX Members trend



APIX Meeting history

#	Date	City	C/E
Pre	2009/08/25	Beijing	CN
1	2010/03/01	Kuala Lumpur	MY
2	2010/08/23	Gold coast	AU
3	2011/02/20	Hong Kong	HK
4	2011/08/30	Busan	KR
5	2012/02/26	Delhi	IN
6	2012/08/26	Phnom Penh	KH
7	2013/02/24	Singapore	SG
8	2013/08/25	Xian	CN
9	2014/02/23	Petaling Jaya	MY
10	2014/09/14	Brisbane	AU
11	2015/03/01	Fukuoka	JP
12	2015/09/06	Jakarta	ID
13	2016/02/21	Auckland	NZ
14	2016/10/02	Colombo	LK
15	2017/02/26	Hochiminhcity	VN

#	Date	City	C/E
16	2017/09/11	Taipei	TW
17	2018/02/24	Kathmandu	NP
18	2018/09/10	Noumea	NC
19	2019/02/24	Daejeon	KR
20	2019/09/09	Chiang Mai	TH
21	2020/02/17	Melbourne	AU
22	2020/09/07	(Online)	
23	2021/03/01	(Online)	
24	2021/09/13	(Online)	
25	2022/02/28	(Online)	
26	2022/09/12	Singapore	SG
27	2023/02/26	Manila	PH
28	2023/10/31	Seoul	KR
29	2024/02/26	Bangkok	TH
30	2024/09/03	Wellington	NZ
31	2025/02/23	Petaling Jaya	MY

Steering Committee members history

Name	Organization	Terms of Office
Raphael Ho	Equinix	(2010-2012) 2013-2014
Che-Hoo Cheng	HKIX	(2010-2012) 2013-2016
Gaurab Raj Upadhaya	NP-IX	(2010-2012) 2014-2015
Akira Kato	Dix-ie	(2010-2012)
Katsuyasu Toyama	JPNAP	(2010-2012) 2013-2016, 2018-2025
Brian Kim	KINX	2014-2017
Ajai Kumar	NIXI/MumbaiIX	2015-2018
Gavin Tweedie	MegaIX	2016-2017
Harijanto Pribadi	IIX	2017-2018
Zulfadly Syam	IIX	2017-2018
Vijayakumar Sethuraman	Equinix	2018-2019, 2021-2022
Tom Paseka	NZIX	2019-2020
Vivin Varghese Meleadan	MumbaiIX/DE-CIX India	2019-2020
Rupesh Bhakta Shrestha	NP-IX	2019-2020
Walt Wollny	DE-CIX Malaysia	2020-2021
Abhishek Gautam	NIXI/GT	2021-2024
Masataka Mawatari	JPIX	2021-2024
Arnold Nipper	DE-CIX India	2022-2025
Shicong Zhang	NNIX	2023-2024

APIX update

APIX members: 46

AIX (ID)
 AMS-IX Hong Kong (HK)
 BBIX (HK/JP/SG/TH/PH)
 BDIX (BD)
 BIX (ID)
 BKNIX (TH)
 CNX (KH)
 CXC (ID)
 DE-CIX India (IN)
 DE-CIX Indonesia (ID)
 DE-CIX Malaysia (MY)
 Dix-ie (JP)
 EdgeNXT (ID)
 EPIX (ID)
 Equinix AP (AU/HK/JP/SG)
 FOX (TW)

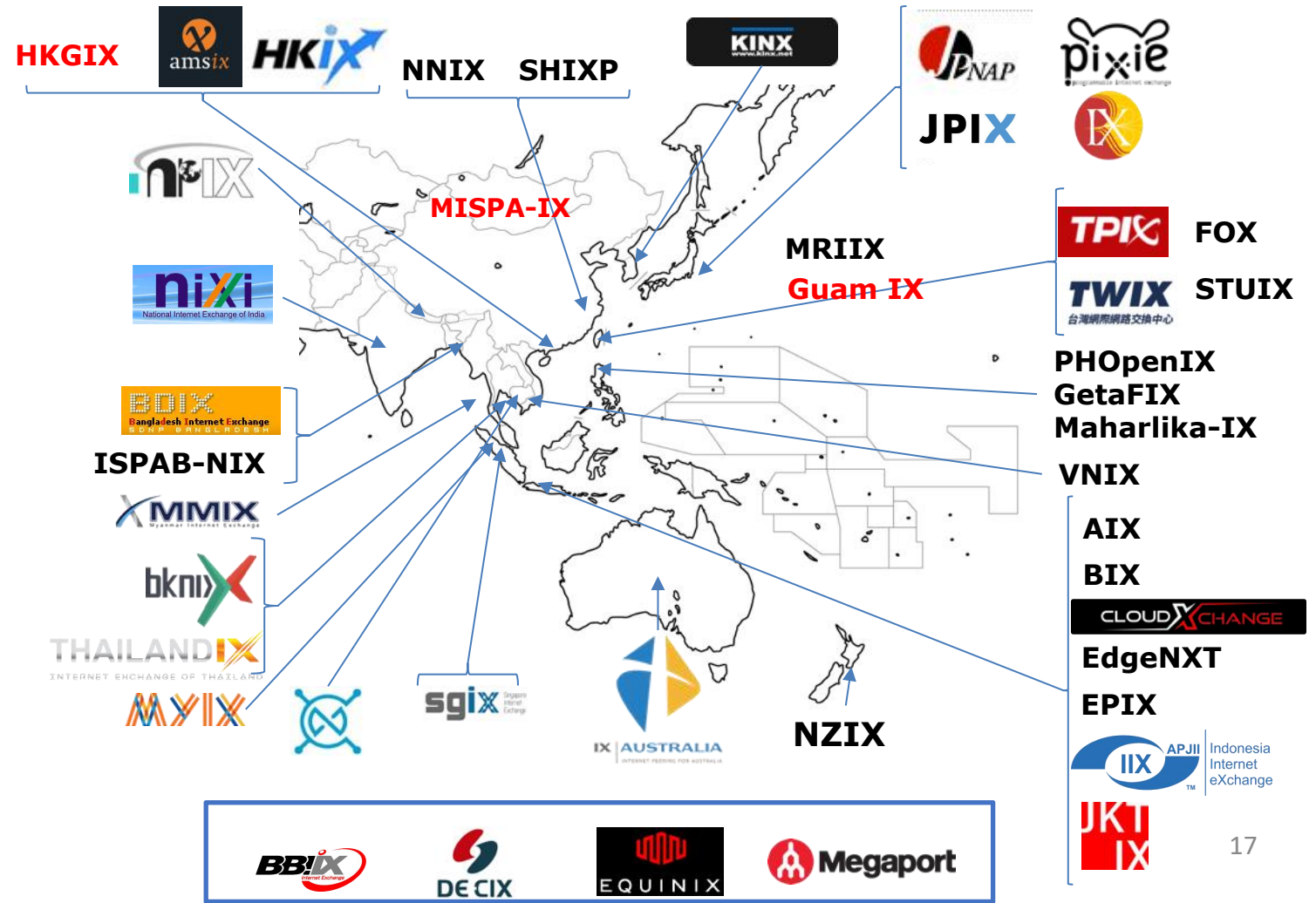
GetaFIX (PH)
 Guam IX (GU)
 HKGIX (HK)
 HKIX (HK)
 IIX (ID)
 ISPAB-NIX (BD)
 IX Australia (AU)
 JKT-IX (ID)
 JPIX (JP)
 JPNAP (JP)
 KINX (KR)
 Maharlika IX (PH)
 MARIIX (MP)
 Mega-IX (AU/HK/SG)
 MISPA-IX (MN)

MM-IX (MM)
 MYIX (MY)
 NIXI (IN)
 NNIX (CN)
 NPIX (NP)
 NZIX (NZ)
 PhOpenIX (PH)
 Ryukyu-IX (JP)
 SGIX (SG)
 SHIXP (CN)
 STUIX (TW)
 TH-IX (TH)
 TPIX (TW)
 TWIX (TW)
 VNIX (VN)

Withdrawal: AMR-IX (IN), CHN-IX (CN), SOX (SG)

APIX Members on map

- Total **46** IXPs,
from **20** countries /
economies
 - Australia, Bangladesh, Cambodia, China, Hong Kong, India, Indonesia, Japan, Korea, Northern Mariana Island, Malaysia, **Mongolia**, Myanmar, Nepal, New Zealand, Philippines, Singapore, Taiwan, Thailand, Vietnam



APIX Steering Committee FY2024

Roles	Name	Organization
Chairperson	Katsuyasu Toyama	JPNAP (JP)
Secretary	Arnold Nipper	DE-CIX IN (IN)
Treasurer	Shicong Zhang	NNIX(CN)
	Abhishek Gautam	NIXI (IN)
	Masataka Mawatari	JPIX (JP)



Toyama



Arnold



Shicong



Abhishek



Masataka

APIX Steering Committee FY2024

Roles	Name	Organization
Chairperson	Katsuyasu Toyama	JPNAP (JP)
Secretary	Arnold Nipper	DE-CIX IN (IN)
Treasurer	Shicong Zhang	NNIX(CN)
	Abhishek Gautam	NIXI (IN)
	Masataka Mawatari	JPIX (JP)

Finishing
the Terms
of Office



Toyama



Arnold



Shicong



Abhishek



Masataka

Short report of finance

- Last year's report

- **\$54,080.70**

- Incomes in FY2024

- Membership fees

- **\$3,568.77 USD**

- Patronship fees

- **\$8,000.00 USD** (ISOC and Google)

- Estimated expenses for APIX Dinner/Social

- Cost: up to \$5,000 USD

- According to the final head counts

- \$3,000 USD will be covered by 5 sponsors:

- BBIX, DE-CIX, JPIX, JPNAP, and NNIX

- Expenses in FY2024

- Domain name renewal (for past 3 years)

- **\$50.00 USD** (for “apix.asia” at Crazydomain.sg)

- Zoom Workplace Pro

- **\$201.58 USD**

- OCBC handling fees

- **\$7.59 USD**

- T-Shirt

- **\$586.00 USD** (printed in MY)

- APIX Dinner/Social

- Prepaid: **\$3,344.80 USD**

- Current balance:

- **\$61,459.50 USD**

Caution / Request

- The receiving bank (OCBC) will charge the handling cost for incoming money.
- When sending membership fee by wire transfer, please be careful to the cost of receiving bank, as well as the charges at your sending bank.

APIX meeting #31

Agenda



APIX31 Survey

9:30-11:00 (90) Tech session 1 (Chair: Toyama)

- Greetings, APIX update, Roll call
- Steering Committee election
 - nominees' speech
- Discussion

11:30-13:00 (90) Tech session 2 (Chair: Masataka)

- New APIX member introductions
 - AIX, Guam IX, HKGIX, Maharlik IX, MISPA-IX
- M-Root update and more
(Kazuhiro Kitamura @ JPRS)
- NNIX-Summary of 2024 and Plan for 2025
(Yisha Liu @ NNIX)
- ISOC Update (Naveed Haq @ ISOC)

14:30-16:00 (90) Tech session 3 (Chair: Arnold)

- Connecting Beyond Cables
(Yolandi Cloete @ DE-CIX)
- IAA Events Strategy
(Sabrina Chang-Rozario @ IX-Australia)
- Discussion

16:30-18:00 (90) Admin session (Chair: Naveed)

- IX.br evolution to SRv6 and EVPN (Julio Sirota@IX.br)
- IXP tracker (Amreesh Phokeer @ ISOC)
- Steering Committee Election results
- Open mic

Wrap-up – Group photo (Toyama)

Outstanding issues

- **Increasing APIX members (continuously)**
- **More beneficial activities to existing APIX members and potential members**
 - Website
 - Benchmarking and feedback to APIX members
 - Supporting the IXP development in APAC
 - Designing and executing the process, collaborating with other organizations

APIX Dinner/Social

- Place : Crystal Room on Level 15 at M World Hotel Petaling Jaya
- Time : From 19:00 to 21:00
 - Registration open will open from 18:45
- **Registered attendees only**
- **Sponsored by BBIX, DE-CIX, JPIX, JPNAP and NNIX**



Thank you!



APIX31 Survey

Agenda



APIX31 Survey

9:30-11:00 (90) Tech session 1 (Chair: Toyama)

- Greetings, APIX update, Roll call
- Steering Committee election
 - nominees' speech
- Discussion

11:30-13:00 (90) Tech session 2 (Chair: Masataka)

- New APIX member introductions
 - AIX, Guam IX, HKGIX, Maharlik IX, MISPA-IX
- M-Root update and more
(Kazuhiro Kitamura @ JPRS)
- NNIX-Summary of 2024 and Plan for 2025
(Yisha Liu @ NNIX)
- ISOC Update (Naveed Haq @ ISOC)

14:30-16:00 (90) Tech session 3 (Chair: Arnold)

- Connecting Beyond Cables
(Yolandi Cloete @ DE-CIX)
- IAA Events Strategy
(Sabrina Chang-Rozario @ IX-Australia)
- Discussion

16:30-18:00 (90) Admin session (Chair: Naveed)

- IX.br evolution to SRv6 and EVPN (Julio Sirota@IX.br)
- IXP tracker (Amreesh Phokeer @ ISOC)
- Steering Committee Election results
- Open mic

Wrap-up – Group photo (Toyama)

Coffee Break / Lunch time

Please return here by next session starts



APIX31 Survey