

APIX update

Katsuyasu Toyama
APIX association

What is APIX?

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

Participating IXPs

• 15 IXPs

- BD: BDIX(Dhaka)
- HK: HKIX(Hong Kong)
- JP: BBIX, Dix-ie, JPIX, JPNAP
- KR: KINX(Seoul)
- ID: **IIX**
- IN: NIXI
- MY: MyIX (KL)
- NP: NP-IX(Katmandu)
- SG: SGIX(Singapore), SOX(Singapore)
- VN: VNIX(Hanoi/HCMC)
- AP: Equinix (Hong Kong, Singapore, Tokyo, Sydney)



Dix-ie



VNIX



SOX

IIX

Scope

Topics discussed in APIX meetings

- tools
- standardization
- peering issues
- education
- Research and Development
- exchange point architecture
- technologies for internet exchanges
- operational issues
- requests to vendors
- traffic
 - trend, analysis, projection, and so on

Organization and its operation

- Current (Interim) Chair and Co-chairs
 - Katsuyasu Toyama (JPNAP)
 - Raphael Ho (Equinix)
 - Che-Hoo Cheng (HKIX)
 - Gaurab Raj Upadhaya (NP-IX)
 - Akira Kato (Dix-ie)

Meeting history

#	Date	Place	Attendees	IXPs in AP
5th	26 Feb. 2012 Sunday	New Delhi (India)	27 people (22 from IXPs)	11 IXPs in AP (2 remotely)
4th	30 Aug. 2011 Tuesday	Busan (Korea)	23 people (21 from IXPs)	12 IXPs in AP
3rd	20 Feb. 2011 Sunday	Hong Kong (Hong Kong)	31 people (23 from IXPs)	10 IXPs in AP
2nd	23 Aug. 2010 Monday	Gold Coast (Australia)	11 people (9 from IXPs)	7 IXPs in AP
1st	1 Mar. 2010 Monday	Kuala Lumpur (Malaysia)	15 people (14 from IXPs)	7 IXPs in AP
Preliminary	25 Aug. 2009 Tuesday	Beijing (China)	14 people (8 from IXPs)	

Attendees are limited only to IXP people.

Supporters, who contribute to APIX activities, may be invited.

Meeting history

#	Date	Place	Attendees	IXPs in AP
6 th	29 Aug. 2012 Wednesday	Phnom Penh (Cambodia)	26 people (24 from IXPs)	12 IXPs in AP (1 remotely)
5th	26 Feb. 2012 Sunday	New Delhi (India)	27 people (22 from IXPs)	11 IXPs in AP (2 remotely)
4th	30 Aug. 2011 Tuesday	Busan (Korea)	23 people (21 from IXPs)	12 IXPs in AP
3rd	20 Feb. 2011 Sunday	Hong Kong (Hong Kong)	31 people (23 from IXPs)	10 IXPs in AP
2nd	23 Aug. 2010 Monday	Gold Coast (Australia)	11 people (9 from IXPs)	7 IXPs in AP
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Preliminary	25 Aug. 2009 Tuesday	Beijing (China)	14 people (8 from IXPs)	

6th Meeting

Participated IXPs

- **Asia-Pacific**

- BD: BDIX
- HK: **HKIX**
- ID: **IIX**
- JP: **BBIX**, **JPIX**, **JPNAP**, Dix-ie
- KR: **KINX**
- IN: **NIXI**
- MY: MyIX
- NP: **NP-IX**
- SG: **SGIX**, **SOX**
- VN: **VNIX**
- AP: **Equinix**

Other regions

- **Europe**

- none

- **Latin America**

- none

- **IXP associations**

- none

Sponsors

- **APNIC**

Red names denote participated IXPs,
remotely participated IXPs are denoted
with underline

Summary of 6th meeting

- Administrative session
 - Modified APIX bylaws are adopted.
 - Organization architecture and membership are defined.
 - Got consensus to sign MoU regarding Global IX Federation with Euro-IX and LAC-IX
 - APIX will contribute to global IXP federation
 - Got consensus about process of next Steering Committee election
 - Started to decide APIX logo
 - Discussed a legal entity of APIX association

Summary of 6th meeting

- Technical session
 - MPLS technologies at Internet Exchange
 - by Raphael Ho (Equinix)
 - by Satoru Tsurumaki (BBIX)
- IXP update
 - New comer: IIX (Indonesia)
 - by Harijanto Pribadi (IIX)
 - HKIX: NetFlow v9 and Update for 2013
 - by Che-Hoo Cheng (HKIX)
 - JPNAP: 100GbE service started
 - by Katsuyasu Toyama (JPNAP)
 - KINX: Recent Korean Internet and KINX
 - by Brian Kim (KINX)

Next step

- At the next meeting,
 - New Steering Committee
 - New logo
 - Milestones for a legal entity
 - More and more technical and operational discussions

- Thank you!

- Contact:

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