

APIX update

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interim co-chairs

APIX

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

- **14 IXPs in AP region**

- BD: BDIX(Dhaka)
- HK: HKIX(Hong Kong)
- JP: BBIX, Dix-ie, JPIX, JPNAP
- KR: KINX(Seoul)
- IN: NIXI (7 locations in India)
- MY: MyIX (KL)
- NP: NP-IX(Katmandu)
- SG: SGIX(Singapore), SOX(Singapore)
- VN: VNIX(Hanoi/HCMC)
- AP: Equinix (Hong Kong, Singapore, Tokyo, Sydney)



* MyIX is a newcomer.

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.

5th Meeting

Participated IXPs

- **Asia-Pacific**

- BD: BDIX
- HK: **HKIX**
- 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**

- DE: DE-CIX
- NL: AMS-IX
- SE: Netnod
- UK: LONAP

- **Latin America**

- BR: PTT Metro

- **IXP associations**

- Euro-IX
- LAC-IX

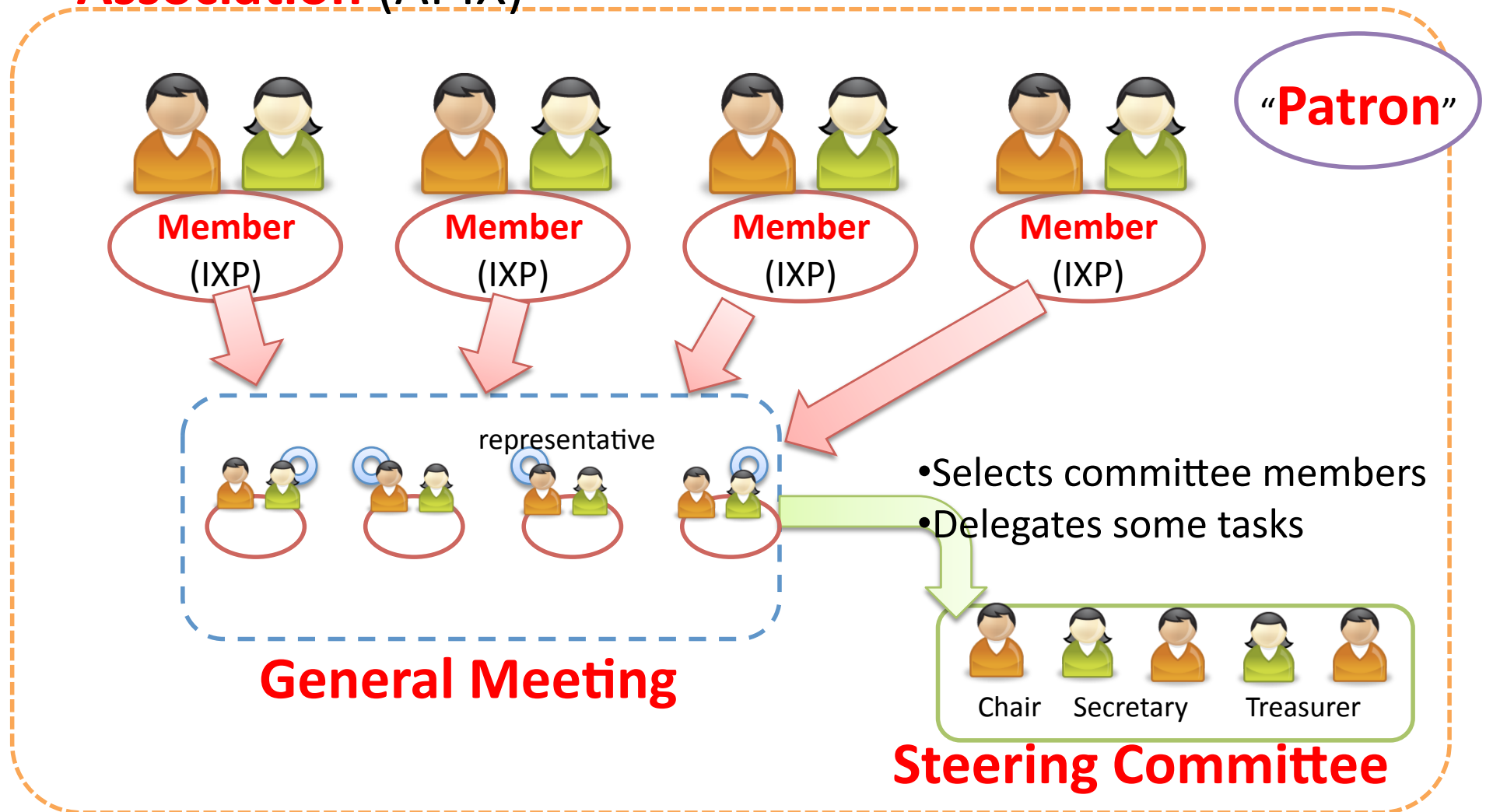
Red names denote participated IXPs,
remotely participated IXPs are denoted
with underline

Summary of 5th meeting

- Administrative session
 - APIX bylaws are adopted.
 - Organization architecture and membership are defined.
- Technical session
 - IXP update
 - Invited talks
 - Update about **CISCO Route Server Development**
 - Rajesh Parikh @ CISCO
 - **ARP Hijacking Mitigation**
 - Henk Steenman @ AMS-IX
 - **Jumbo Frame Deployment** at IXPs
 - Martin J. Levy @ Hurricane Electric

Organization Architecture

Association (APIX)



Outstanding Issues

- Bylaws modification
- Legal entity
- Membership Fee
- Collaboration with other IXP associations
 - Euro-IX and LAC-IX

- Thank you!

- Contact:

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