

IXP update in Asia Pacific

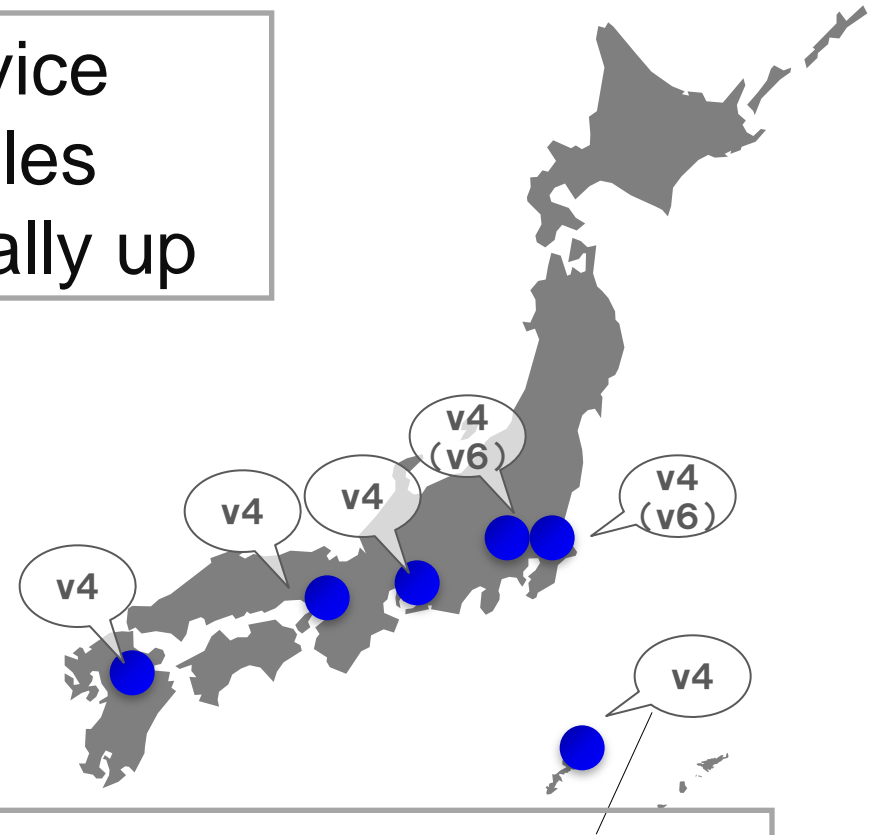
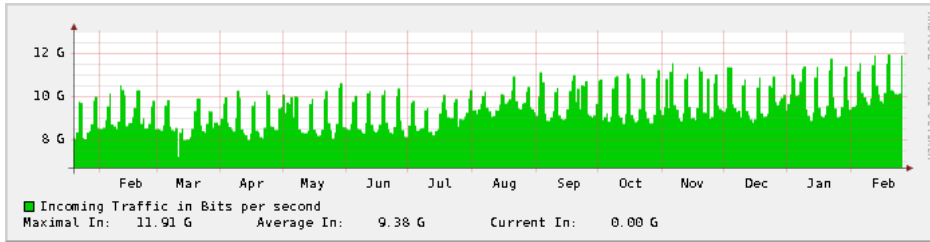
BBIX Update



26th Feb. 2012
BBIX Inc,

IX Service

- IPv4 IXP service
- No Big Troubles
- Traffic gradually up



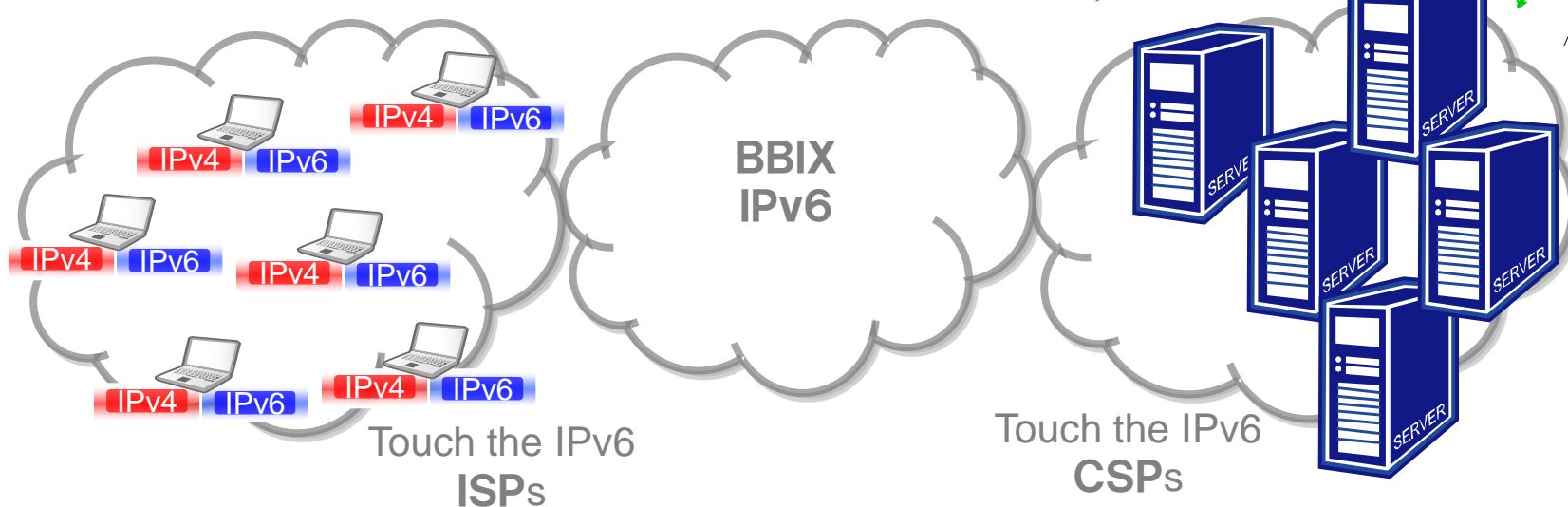
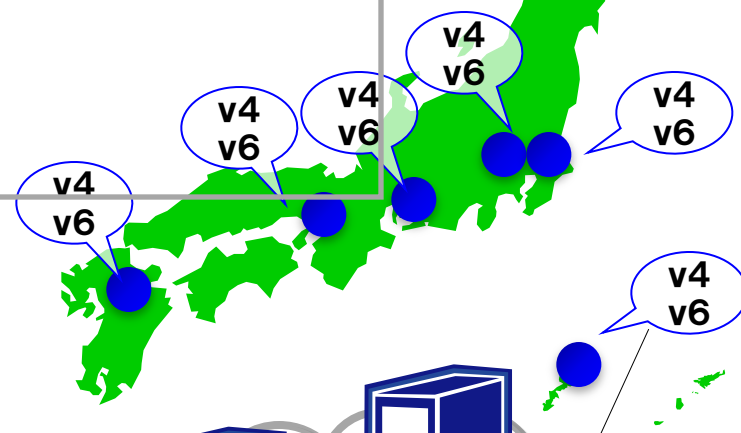
IPv6 Testing

- 5 CSPs connects to BBIX
- No big troubles @ W6D but just connecting and studying...

BBIX in 2012 and the future

BBIX Challenge

- Provide IPv6 on Every IXPs
- Strengthen IPv6 Testing
 - contents access tests
 - Fall-back tests
 - 4rd tests





E Q U I N I X
IX Update

Apricot 2012
Raphael Ho

Equinix Exchange Update

- 160G Aggregate traffic in AP

- Singapore, Tokyo, Hong Kong, Sydney

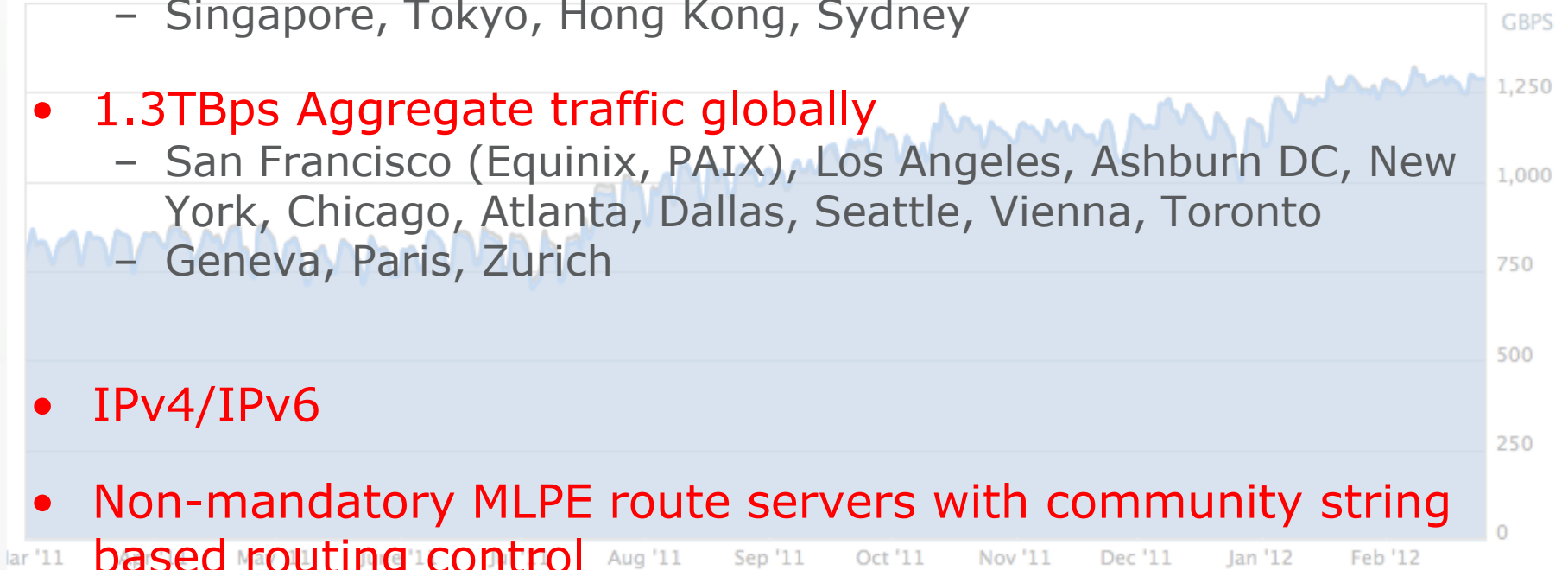
- 1.3TBps Aggregate traffic globally

- San Francisco (Equinix, PAIX), Los Angeles, Ashburn DC, New York, Chicago, Atlanta, Dallas, Seattle, Vienna, Toronto
 - Geneva, Paris, Zurich

- IPv4/IPv6

- Non-mandatory MLPE route servers with community string based routing control

- New IX Portal (<http://ix.equinix.com>)



Mark your calendar

Asia Peering Forum

- 22-24 August, 2011
- Manila, Philippines
- By invitation only

See you there!



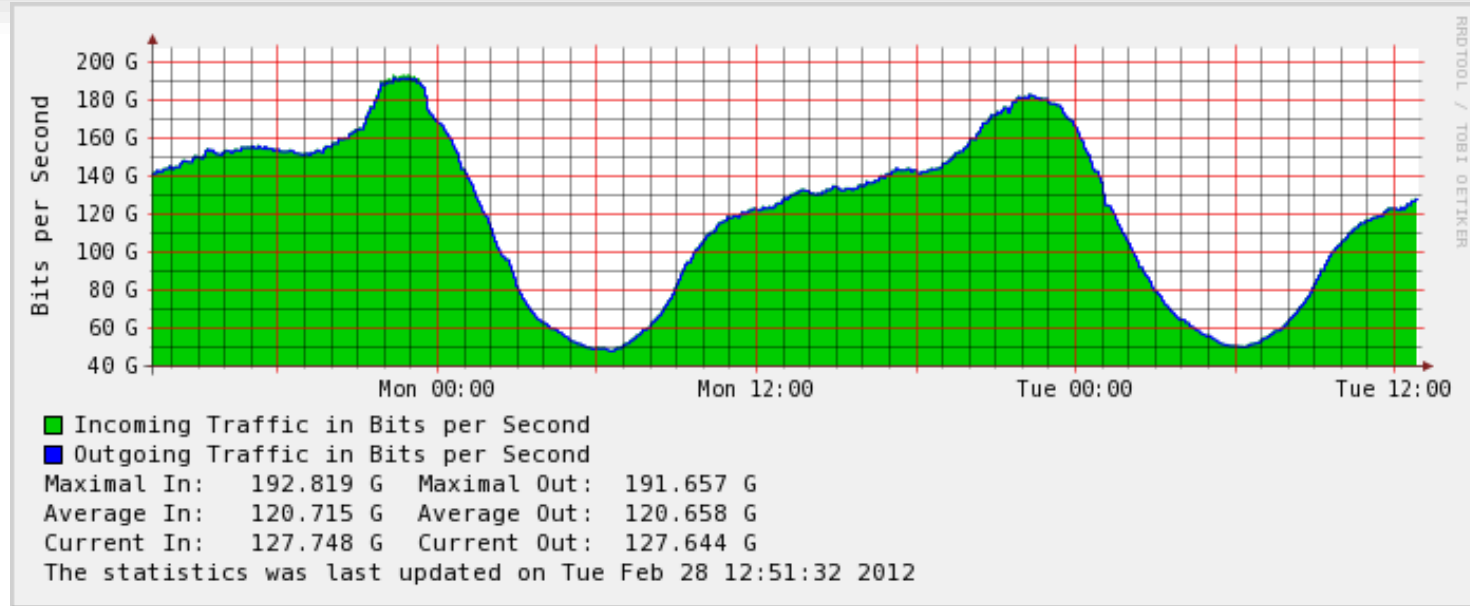


EQUINIX

Questions?

HKIX

HKIX Updates #1



- > 190 Gbps (5-min) traffic at peak
 - Traffic record broken just last Sunday night (26 Feb 2012)
- > 170 AS'es connected
 - > 50% IPv6 enabled
- > 50 x 10GE connections
- > 250 x 10/100/1000 connections

HKIX Updates #2

- Support and encourage Bilateral Peering (BLPA) over HKIX
 - HKIX is basically a layer-2 infrastructure
- A lot of new connections from overseas
 - Joining MLPA is optional to them as they do not have HK routes
- Support Link Aggregation which is getting popular
- Support 4-byte ASN

- Desire to build as dual-core (HKIX1 + HKIX1b) by 3Q2013 along with the new data centre set up in CUHK campus
- Have to solve capex funding issue
- Continue to be not for profit
- Continue to owned and operated by CUHK

JPIX

@ Our Stats

@ member # : **130AS over**

@ peak traffic : **170Gbps over**

@ Our Switch

@ **Dell Force10 Exa Scale, our main switches are very stable. We have no trouble.**

@ **The same in other than Force10 switches.**

@ IX IPv6 members

- @ 65% members have IPv6 addresses
- @ Dual Stack : IPv6 Native = 9 : 1

@ IPv6v4 Exchange Service

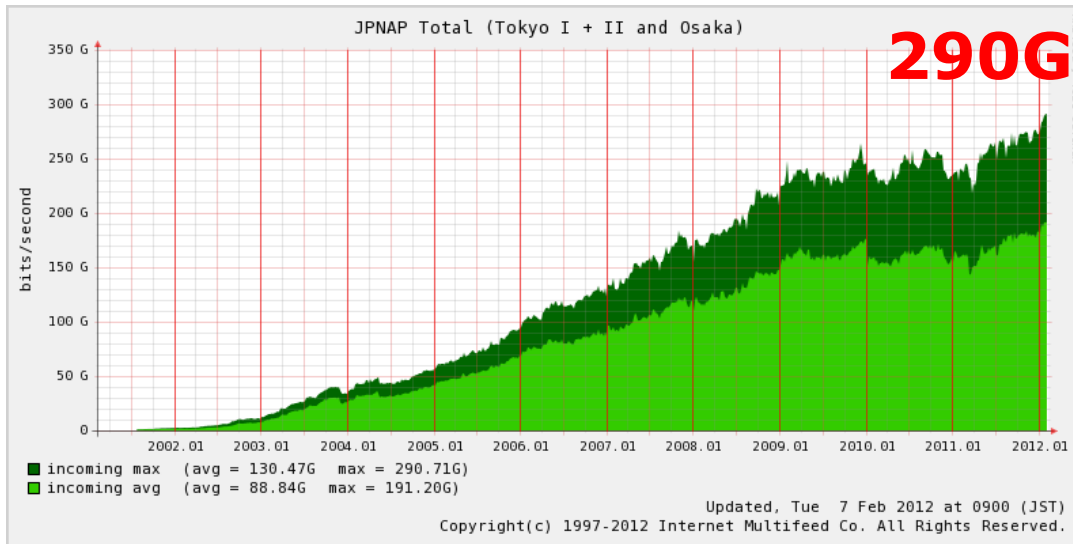
- @ We are providing trial service for IX members.
- @ 464XLAT is adopted as IETF v6ops WG document.
 - @ <http://tools.ietf.org/html/draft-ietf-v6ops-464xlat>

JP NAP

Katsuyasu Toyama
JP NAP by INTERNET MULTIFEED CO.

- **3 exchange points** in Japan
 - Tokyo I, Tokyo II, and Osaka
 - all independent networks
- Topics
 - Route Servers in JPNAP Osaka.
 - Switches upgraded to Brocade MLXe.
 - Significant increase of mobile traffic.

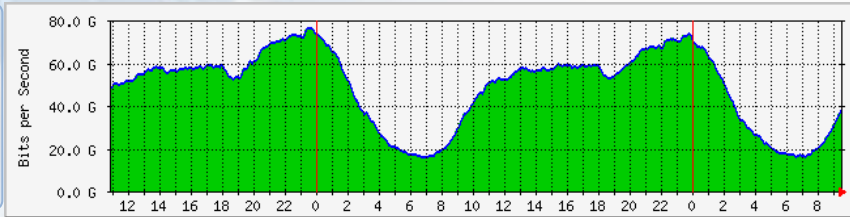
	Customers	Traffic
Tokyo I	aprx. 90	230G
Tokyo II	aprx. 10	30G
Osaka	aprx. 30	40G



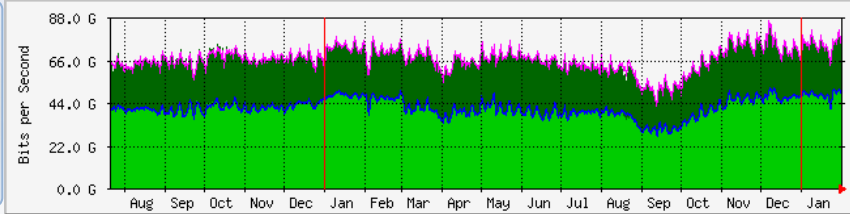
KINX

- Traffic Status of KINX

'Daily'
Graph
(5 Minute
Average)



'Yearly'
Graph
(1 Day
Average)



Statistics of Korean Internet (KISA 2011)

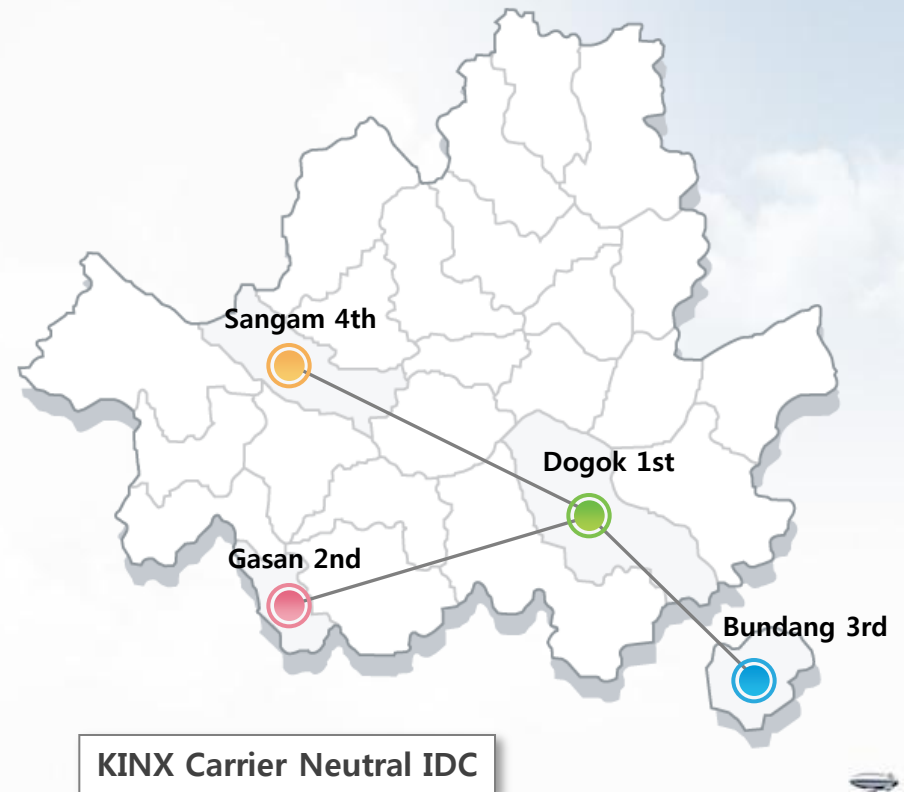
- # of ASN : 1,016
- # of fixed BB : 17.8 M.
- # of fixed line : 18.6 M.
- # of Mobile : 52.5 M.
- # of Smartphone : 22.5 M.

- ✓ Total traffic of 85G reached with 2 Million fixed line broadband users and Contents providers.
- ✓ Many Contents (Movies / Drama) Download Service providers in the members
- ✓ Increase the traffic between Mobile service providers and Mobile contents providers
- ✓ Domestic P2P traffic reaches to 2Tbps



KINX Business Coverage

- IX service
- Carrier Neutral Data Center
- Transit & Leased Circuit (Backhaul)
- Public Cloud Service
- Game Downloading



MyIX Malaysia Internet Exchange



Raja Mohan
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MyIX

Malaysia Internet Exchange



- MyIX is Neutral, non-profit association
- Established in Dec 2006
- Funded by government, Support from regulator
- Managed and operate by the industry players
- Started with 16 members, now 48
- Traffic 300Mbps in 2006, Over 12 Gbps and growing
- Layer 2 IX, multiple sites
- Open peering

MyIX

Malaysia Internet Exchange



- Members comprise of ISP, content providers, co-lo & data centre providers & university
- Ordinary Member - voting members
- Associate Member – non voting members
- Membership by invitation – talk to us
- Peering with international players
- Route Server

NIXI Update

APRICOT 2012

Ajay Kumar

Technical Officer

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NIXI Update

- ◆ Not for profit company of 10 IPv6 enabled IX in India, registered in 2003 with joint efforts by DIT and ISPAI.
- ◆ 41 major ISPs having 96 connections across all 7 IX and peak traffic is 17 Gbps .
- ◆ **Operational Nodes with ISP connected**

Node Location	No of connections	Peek Traffic
- Mumbai	32	7.7 gbps
- Delhi/Noida	25	4.0 Gbps
- Chennai	16	5.0 Gbps
- Kolkatta	9	30 Mbps
- Hyderabad	6	6 Mbps
- Bangalore	6	2 Mbps
- Ahmedabad	2	0

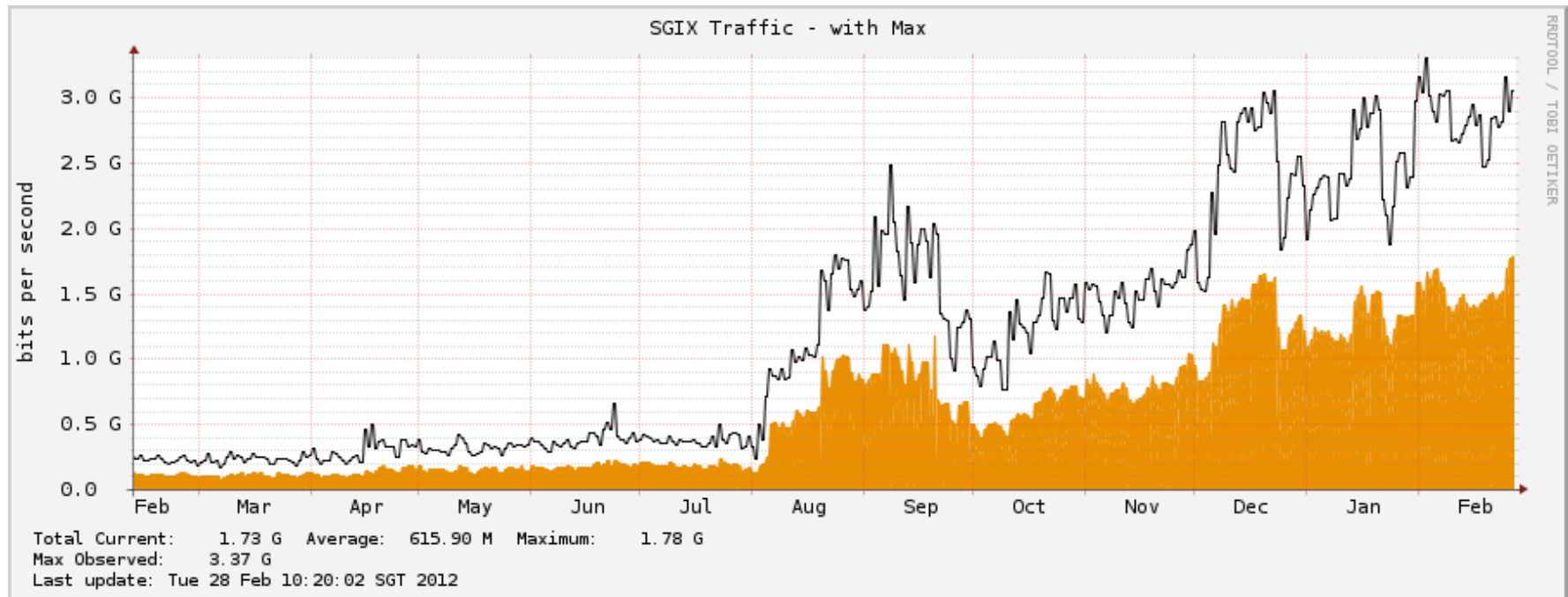
- ◆ **Upcoming NIXI Node**(Equipments in-placed and ISPs have to come forward for connecting) - Mohali,Lucknow,Guwahati



SGIX

Singapore Internet Exchange

1. A neutral, not-for-profit Internet exchange operating based on membership basis
2. Located in Global Switch and 1-Net
3. More than 20 members. Peak traffic of 3.37G



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- Thank you!