

BKNIX Members Update

@BKNIX Members Meeting #1



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Agenda

- ▶ Timeline
- ▶ Members
- ▶ Traffic
- ▶ Services
- ▶ Infrastructure
- ▶ What's the Next!!



First Member



Officially
Launch



First
Commercial
ISP



First Workshop
BGP/IXP

Setup
Connection



VERISIGN™

First Exotic
J-root, .com, .net

KIRZ



TCC
TECHNOLOGY



5 Local ISP
in a row



be a member
of APIX

APIX#12
@Jakarta,
Indonesia

4 more
On
Negotiation
& Setting Up



Latest
member

Members
Meeting #1

Jan

Feb

Mar

Apr

Jun

Jul

Aug

Sep

Now

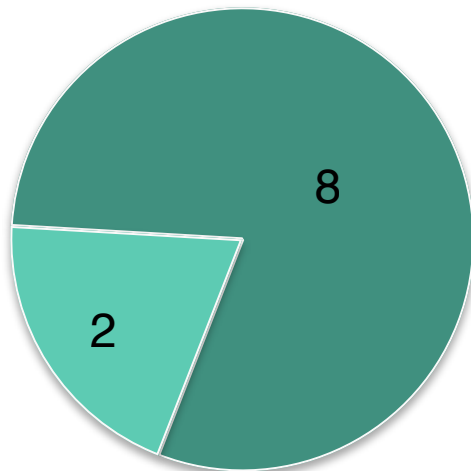
BangKok Neutral Internet eXchange



Total

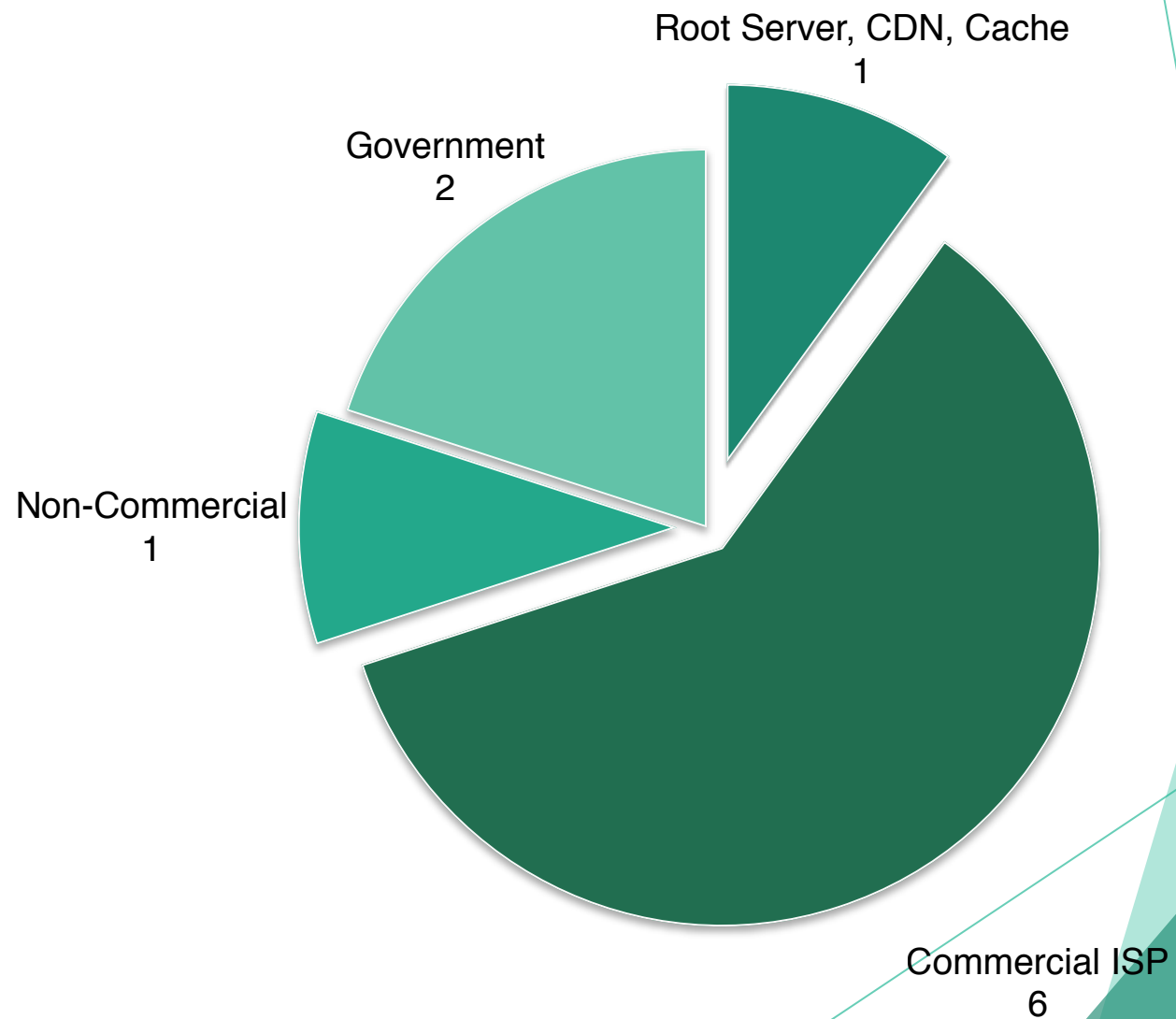
10

Port Type

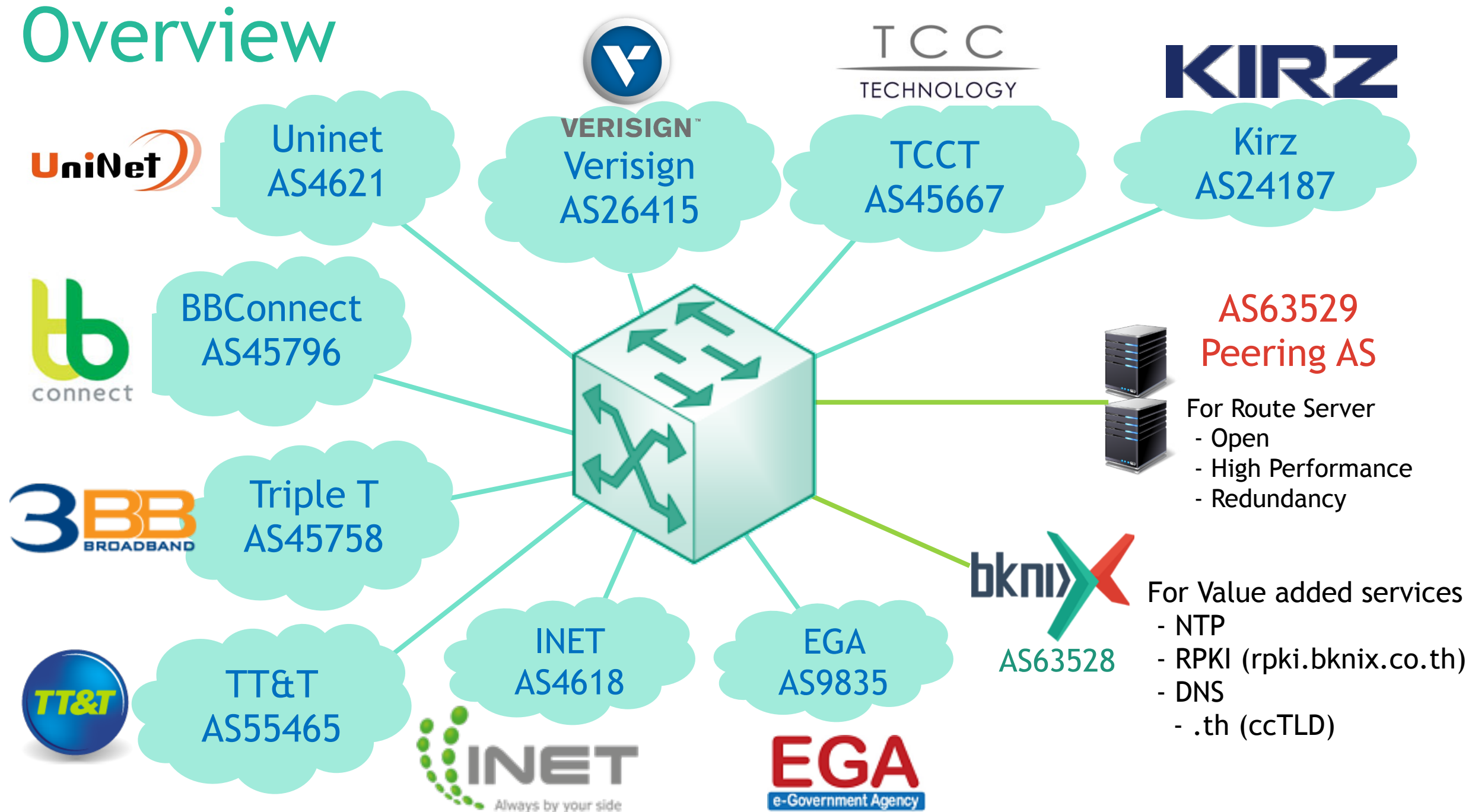


● 1 GE ● 10 GE

Member

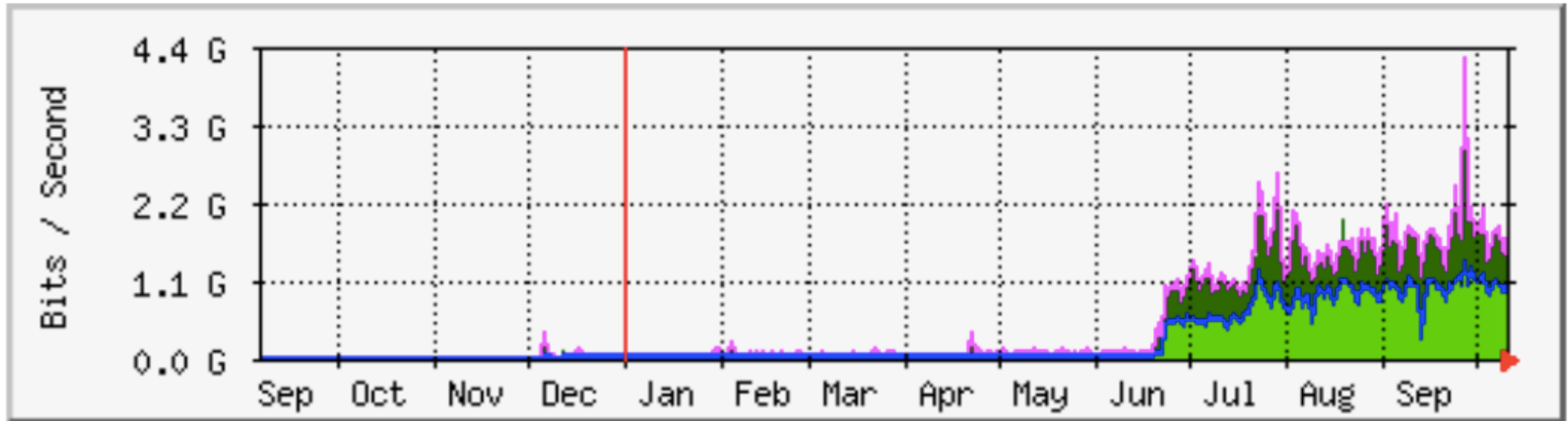


Overview



Peak

4.2 Gb/s (27 Sep 2015)



	Max	Average	Current
In	4197.8 Mb/s (2.1%)	304.2 Mb/s (0.2%)	805.6 Mb/s (0.4%)
Out	4197.8 Mb/s (2.1%)	304.2 Mb/s (0.2%)	805.6 Mb/s (0.4%)

NTP (Network Time Protocol)

- ▶ Powered by NECTEC.
- ▶ BKNIX NTP Service is Stratum 1
- ▶ Public Services
- ▶ Name : ntp0.bknix.co.th & ntp1.bknix.co.th
- ▶ IPv4 address : 203.159.70.32 & 203.159.70.33
- ▶ IPv6 address : 2001:DEB:4070::32/64 & 2001:DEB:4070::33/64

RPKI (Resource Public Key Infrastructure)

- ▶ Only RPKI Relying Party
- ▶ rcynic and rpki-rtr
- ▶ IPv4 : 203.159.70.26
- ▶ IPv6 : 2001:deb:0:4070::26/64
- ▶ Example
 - ▶ Cisco

```
router bgp xxx
  address-family ipv4
    bgp rpki server tcp 203.159.70.26 port 323 refresh 600
```
- ▶ Please deploy rpki, easy from MyAPNIC
 - ▶ http://www.apnic.net/__data/assets/pdf_file/0015/52602/ResCertGuide.pdf

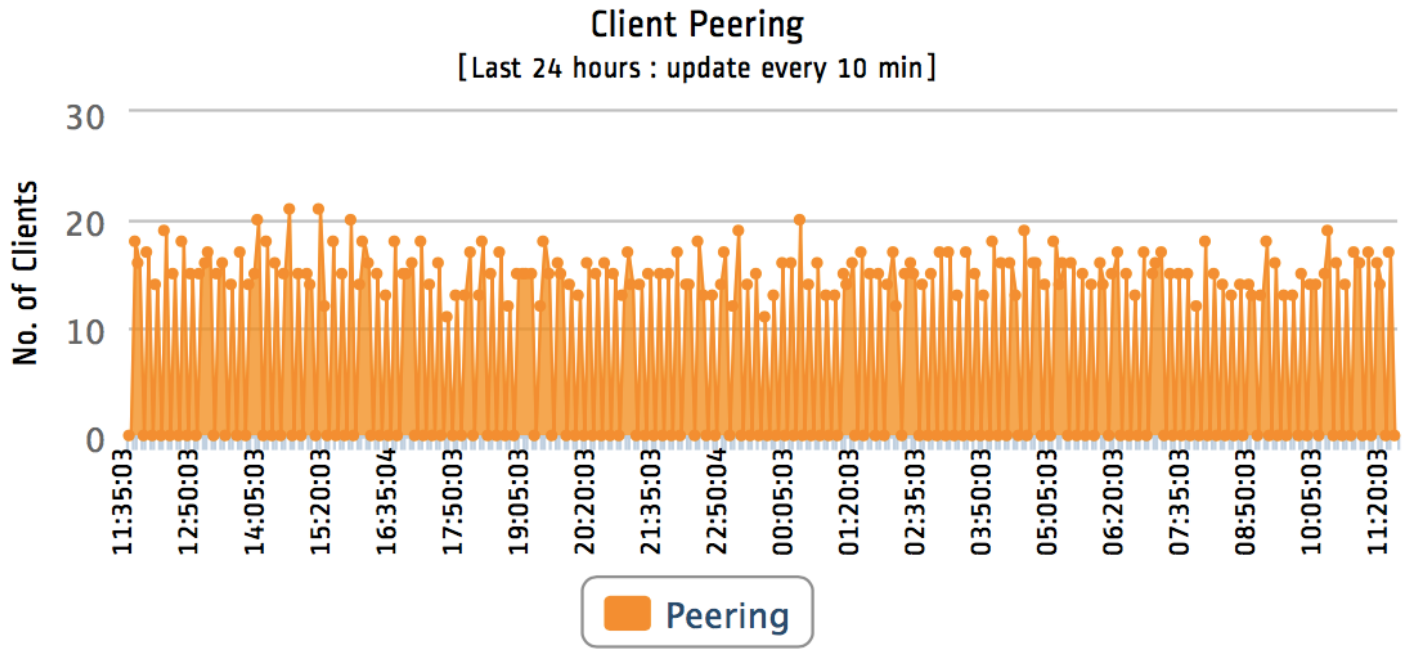
```

r0.bknix#sh ip bgp | i V
RPKI validation codes: V valid, I invalid, N Not found
V* 43.247.56.0/24 203.159.68.105 0 45667 17887 i
V*> 203.159.68.105 0 45667 17887 i
V* 43.247.56.0/22 203.159.68.105 0 45667 17887 i
V*> 203.159.68.105 0 45667 17887 i
V* 103.11.12.0/22 203.159.68.105 0 45667 17887 i
V*> 203.159.68.105 0 45667 17887 i
V* 115.84.64.0/18 203.159.68.100 0 45796 9873 i
V*> 203.159.68.100 0 45796 9873 i
V*> 203.159.68.0/22 0.0.0.0 0 32768 i
V*> 203.159.70.0 0.0.0.0 0 32768 i
V*> 203.159.70.0/23 0.0.0.0 0 32768 i
V*> 203.159.71.0 0.0.0.0 0 32768 i

```

NTP Peer

~20



Route Server Peering

IPv4

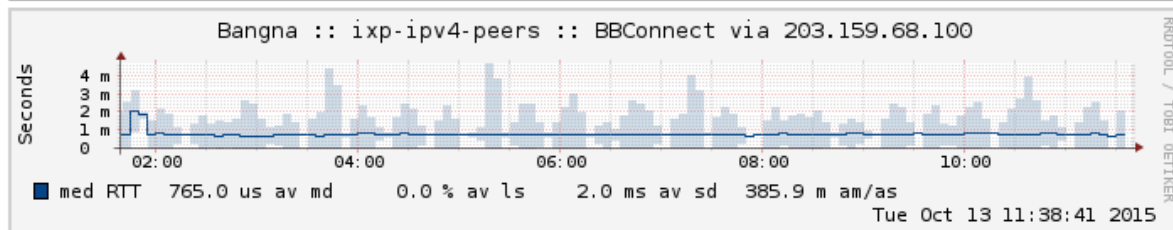
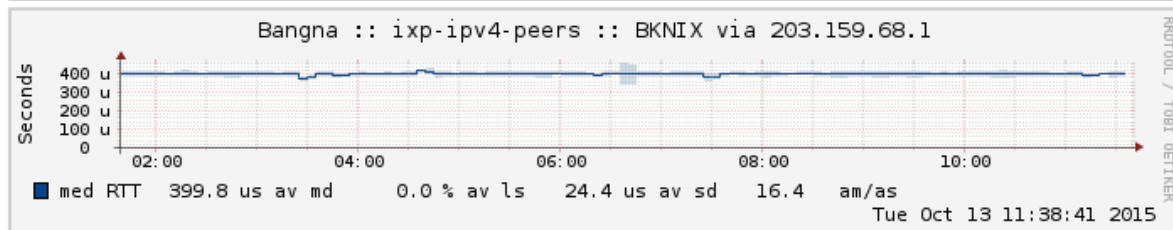
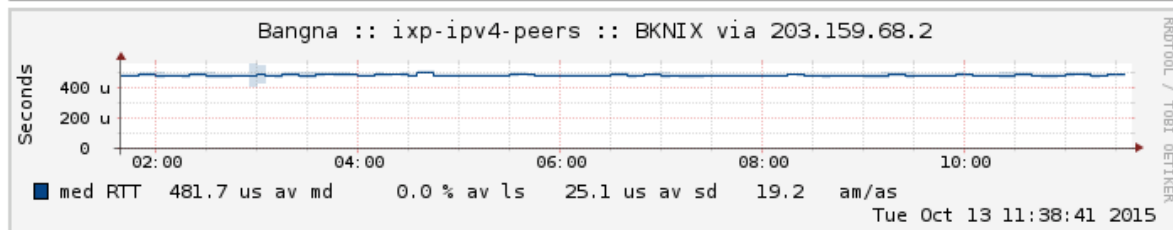
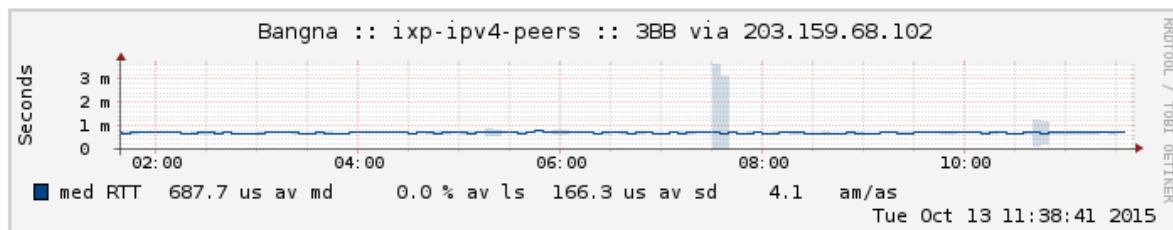
IPv6

10

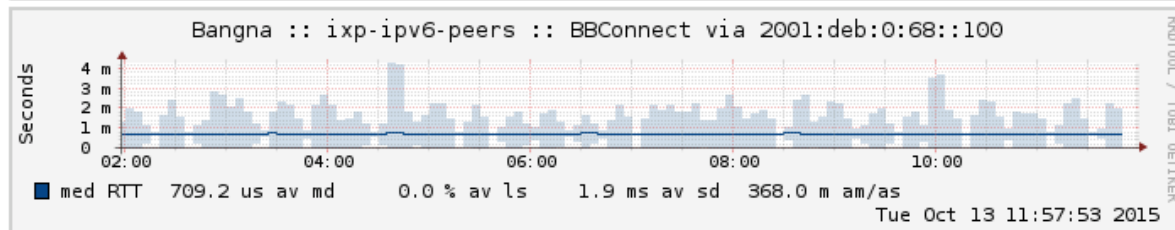
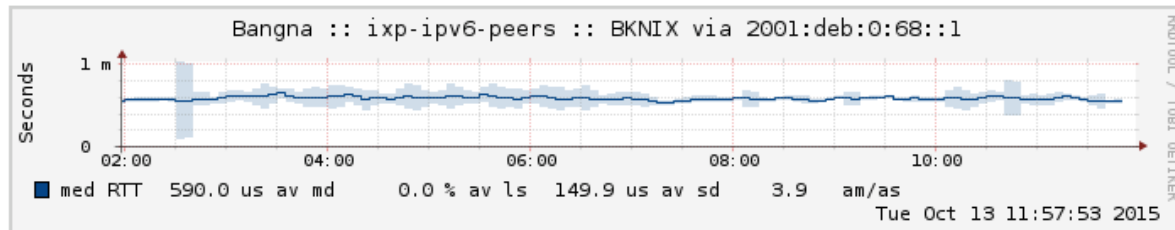
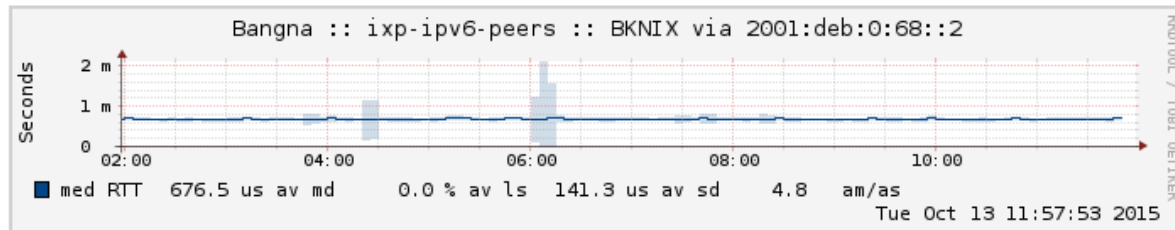
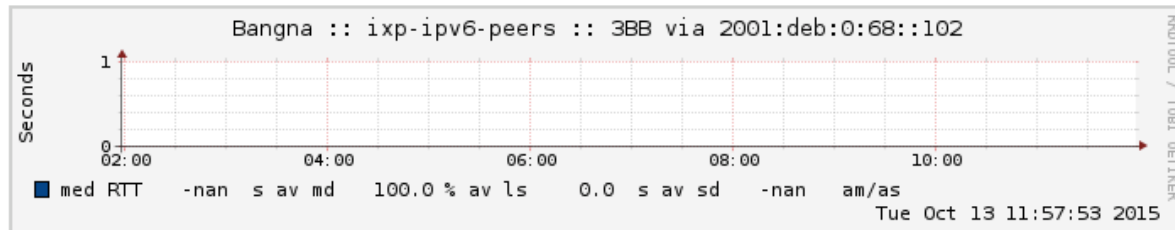
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Smokeping

Bangna :: ixp-ipv4-peers



Bangna :: ixp-ipv6-peers



Route Server	
RS0	cisco
RS1	bird (1.3.7)



Route Server	
RS0	bird (1.4.5)
RS1	bird (1.5.0)

VMs
15

RIPE Atlas Probe
2

What's the Next >>>

- ▶ Growth the value of peering
- ▶ Improve public services
- ▶ Make a meeting (Today, and so on)
 - ▶ Get a voice of member
- ▶ BKNIX Peering Forum 2016
- ▶ Neighbour from AEC 2015 (Dec 2015)

More information

- ▶ www.bknix.co.th
- ▶ Wiki Stuff
- ▶ <https://www.bknix.co.th/trac/wiki>
- ▶ Intro VDO
- ▶ <http://bit.ly/ixp-bknix>

Question ?

