

Peering perspectives

(from a Tier 1 Carrier in Philippines)

Achie Atienza / Globe Telecom

JBIX 1st Peering Forum | 05 November 2019

Mandarin Oriental Hotel, Kuala Lumpur

Hello 😊



Globe Telecom

Senior Product Manager
CDN & IP Peering

IP Peering, Interconnection & Strategy
IP Ecosystem



Internet Society Philippines (ISOC-Ph)

Member / Board of Trustee

Philippine Network Operators Group (PhNOG)

Chair

Disclaimer

Ph IXP Landscape (7+2)

LUZON

7+2

VISAYAS

3*

MINDANAO

1*

Operator	eXchange
ASTI/DOST	PhOpenIX
Bayantel	NIGX
ConvergeICT	ComclarckIX
Eastern Communication	MIX
Globe Telecom	GIX
PCTA	PCTAIX
PLDT	PhIX
Rise	GetaFIX
VITRO	VIX

* for/to be set-up/no peers(yet)

Peering!

- \$

> experience

+ \$

Peering?

bilateral (not really)
informal (no contract*)
best effort

* depends on the parties

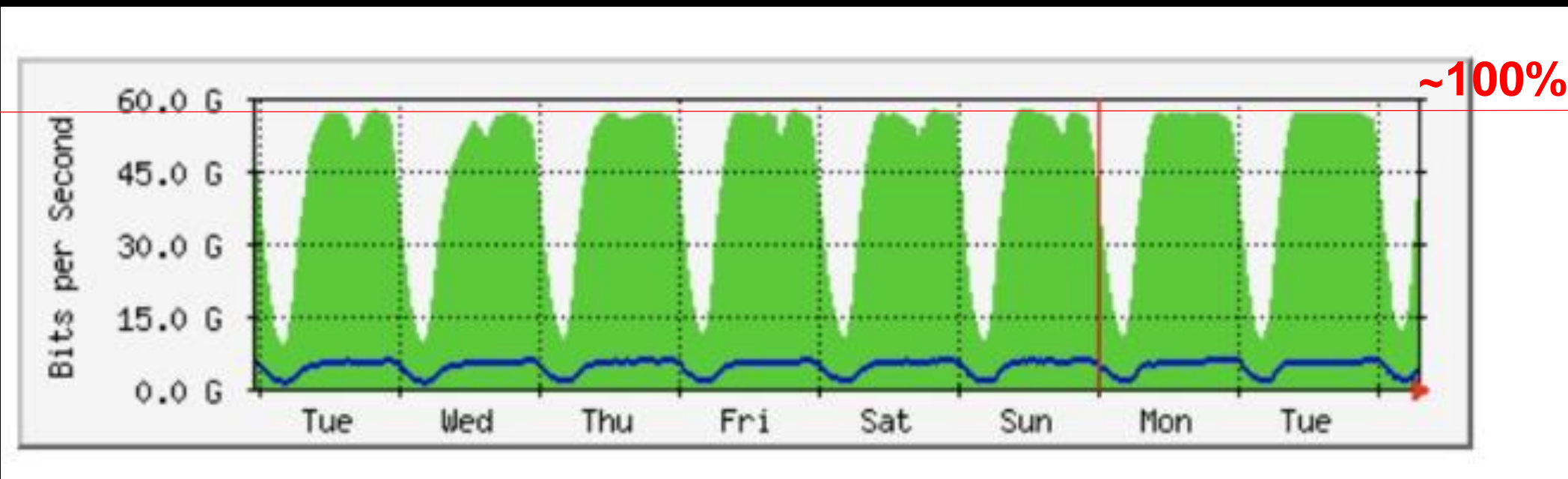
Peering (latency)...

```
C:\>tracert [REDACTED]
```

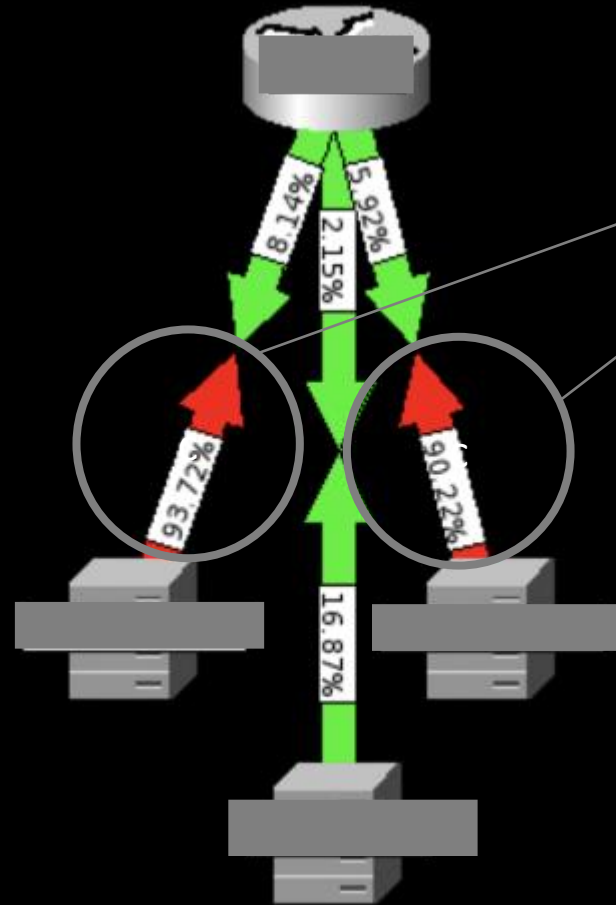
```
Tracing route to [REDACTED] over a maximum of 30 hops
```

1	1 ms	1 ms	1 ms	
2	*	*	*	
3	11 ms	10 ms	10 ms	
4	13 ms	11 ms	9 ms	
5	10 ms	8 ms	9 ms	
6	11 ms	13 ms	13 ms	
7	12 ms	12 ms	12 ms	
8	9 ms	11 ms	12 ms	
9	*	*	*	Request timed out.
10	*	*	*	Request timed out.
11	*	*	*	Request timed out.
12	*	*	*	Request timed out.
13	*	*	*	Request timed out.
14	*	*	*	Request timed out.
15	*	*	*	Request timed out.
16	*	*	*	Request timed out.
17	*	*	*	Request timed out.
18	*	*	*	Request timed out.
19	*	*	*	Request timed out.

Peering (traffic) ...



Peering (utilization) ...



>90% utilization

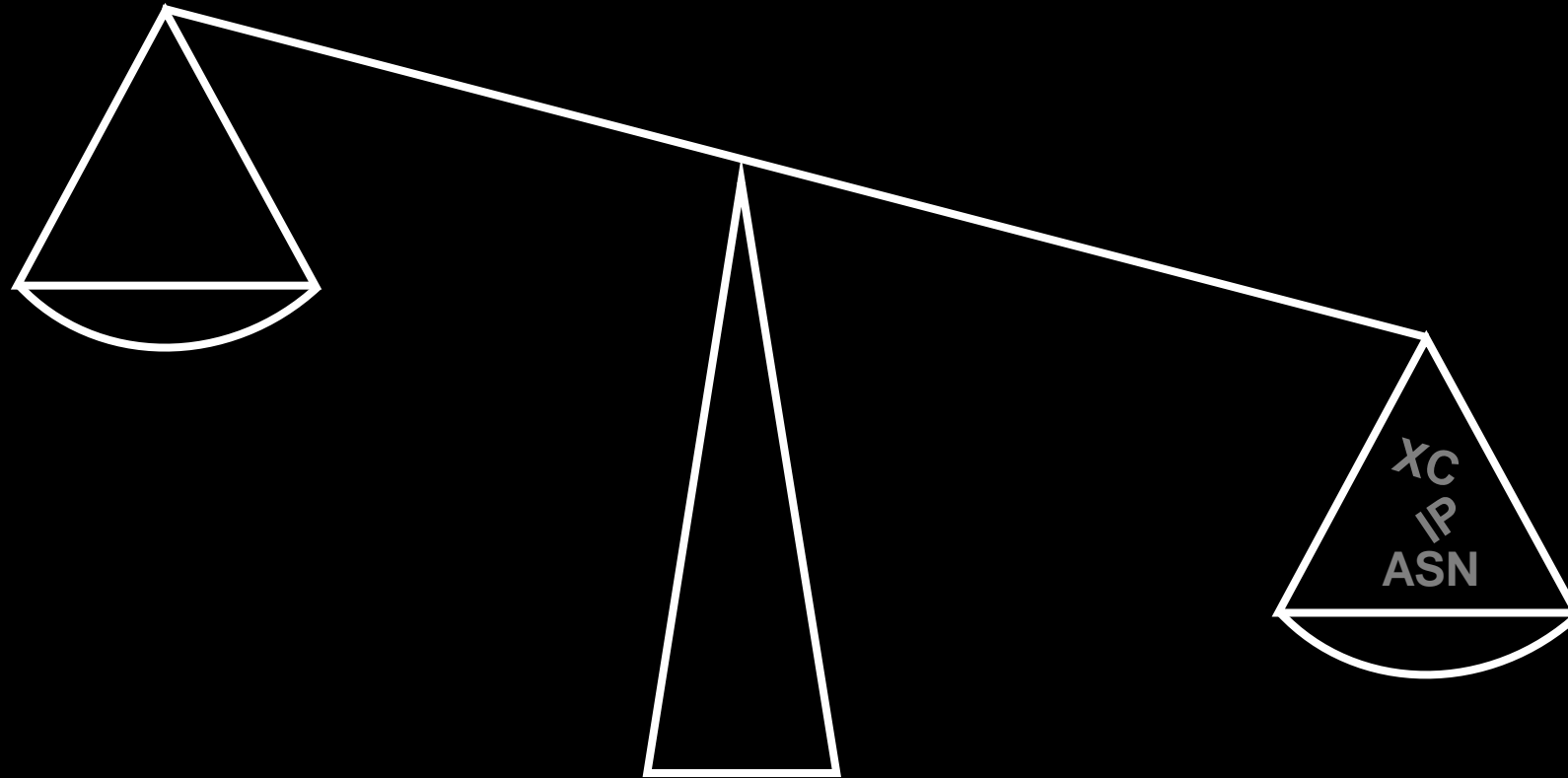
Peering is **Sociology**

WHO :
WHAT :
WHEN :
WHERE :

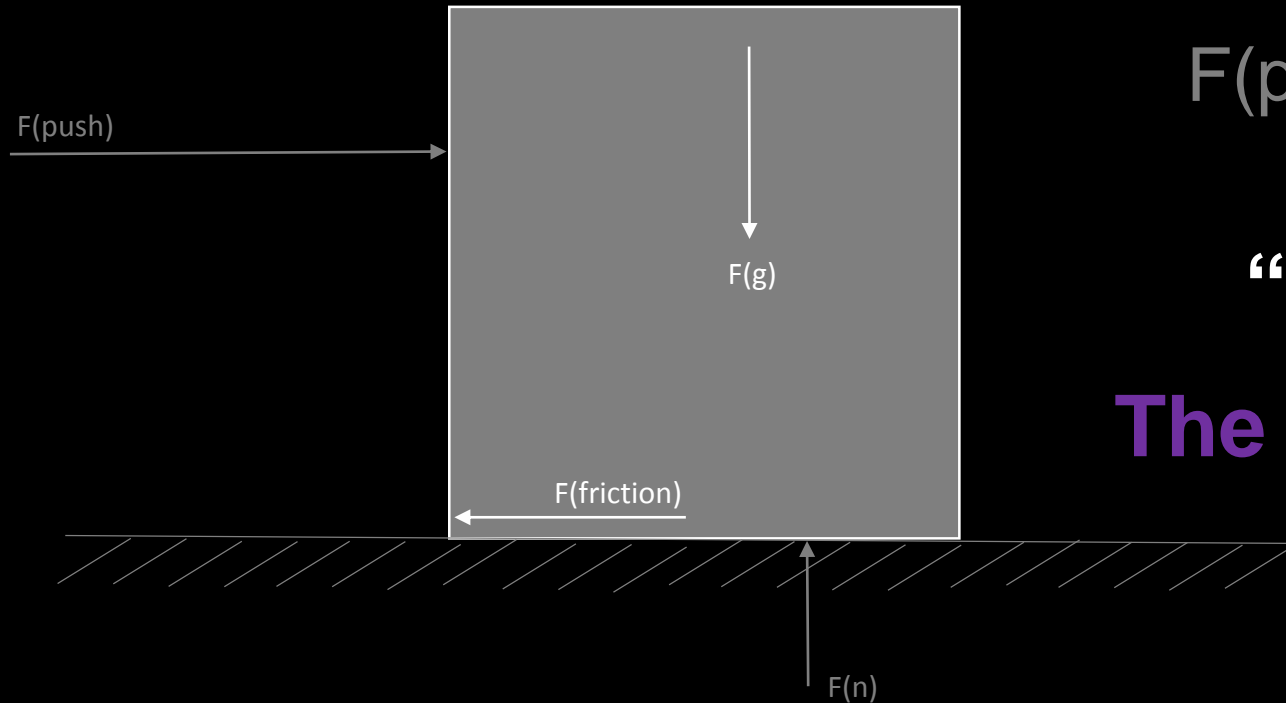
updated
peeringdb
(www.peeringdb.com)

Organization	Globe Telecom	Public Peering Exchange Points <input type="text" value="Filter"/>		
Also Known As	Innovate Communications, Inc.	Exchange ASN	IPv4 IPv6	Speed RS Peer
Company Website	http://www.globe.com.ph/business	AMS-IX Hong Kong 4775	103.247.139.44 2001:df0:298:a500:4775:1	1G ○
Primary ASN	4775	BBIX Hong Kong 4775	103.203.158.83 2403:c780:b800:bb00:4775:2	10G ○
IRR Record	AS-TRANSIT-GLOBE	BBIX Singapore 4775	103.231.152.82 2001:df5:b800:bb00:4775:1	10G ○
Route Server URL		BBIX Tokyo 4775	218.100.6.97 2001:de8:c::4775:1	10G ○
Looking Glass URL		CoreSite - Any2 California 4775	206.72.210.197 2001:504:13::197	10G ○
Network Type	NSP	CoreSite - Any2 New York 4775	206.51.45.12 2001:504:13:8::12	10G ○
IPv4 Prefixes	1000	DE-CIX Frankfurt DE-CIX Frankfurt Peering LAN 4775	80.81.195.224 2001:7f8::12a7:0:1	1G ○
IPv6 Prefixes	100	Equinix Ashburn 4775	206.126.237.90 2001:504:0:2:4775:1	10G ○
Traffic Levels	Not Disclosed	Equinix Chicago 4775	208.115.136.231 2001:504:0:4:4775:1	10G ○
Traffic Ratios	Mostly Outbound	Equinix Hong Kong 4775	36.255.56.75 2001:de8:7:4775:1	20G ○
Geographic Scope	Global			
Protocols Supported	<input checked="" type="radio"/> Unicast IPv4 <input type="radio"/> Multicast <input checked="" type="radio"/> IPv6			
Last Updated	2018-10-02T13:14:32Z			
Notes				

Peering is Economics



Peering is Physics



$$F(\text{push}) > F(\text{friction})$$

“SLIP POINT”

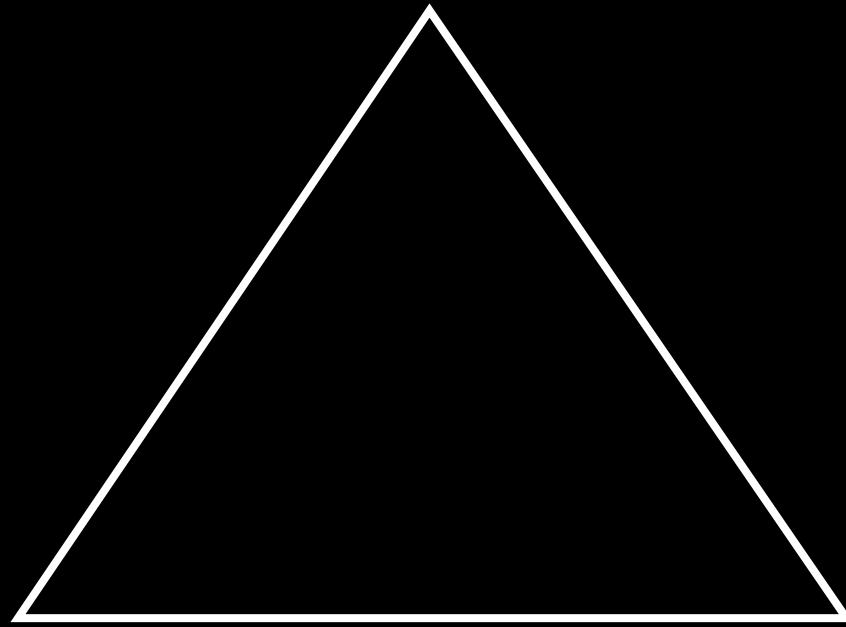
The box will Move 😊 !

Peering is Geometry

physical

policy

config



Peering is Perspective



peer ta bai

PhNOG 2019 CEBU / 4-8 March 2019
25yrs Philippine Internet
10yrs Internet Society - Ph

peer tayo, tara!

17 - 19 July 2019 MANILA
Philippine Network Operators Group



Maraming Salamat !

(Thank you very much!)

Questions ?

save the date!

APRICOT 2020 Melbourne

17-21 February 2020

PhNOG 2020 MANILA

24 - 28 February 2020 | 13 -17 July 2020

www.PhNOG.com

HKNOG 9 Hong Kong

28 February 2020

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