Root Server Reach-ability from major APAC carriers

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APNIC 34 Meeting

Some Background

- Lots of Root server Instances installed in APAC

- APNIC spending significant resources in this effort

- Most Root Instances are being installed in IXPs with a few others at different NAPs.

- Is it working as intended ?
  - Select countries with in-country Root instance
  - Select the largest eye-balls (user) networks there

Summary – April 22, 2012

Countries	Networks	ASN	F.root	I.root	J.root	L.Root	K.root
Pakistan	PTCL	17557-/-45595	KHI	LHE	STO	SIN	TYO
India	Bharti	9498	MAA	LHR	SOF	LAX	DEL
	BSNL	9829	*	BKK	SYD	LHR	DEL
Thailand	TOT	38040	PAO	BKK	MNL	LAX	TYO
	TRUE'	38082	PAO/HKG	BKK	SYD	SIN	PAO
Singapore	Singtel	7473	PAO	BKK	SYD	LAX	TYO
	starhub	4657/10091	PAO	BKK	SIN	SIN	TYO
Malaysia	TMNET	4788	HKG	BKK	MNL	AMS	TYO
Indonesia	Telin	7713	JKT	JKT	SYD	SIN	TYO
Philippines	PLDT	9299	PAO	BKK	USA	LAX	SYD/BNE
Hongkong	PCCW	3491/4760	HKG	HKG	HKG	PRG	TYO
Korea	Korea Telcom	4766	SEL	BKK	SEL	GUM	TYO
	skbb	9318	HKG	HKG	HKG	LAX	MIA
Taiwan	Hinet	9680	TPE	TYO	MNL	GUM	TYO
Japan	OCN	4713	TYO	TYO	TYO	PAR	TYO
	KDDI	2516	TYO	BKK	MNL	GUM	TYO
	Softbank	4725	TYO	TYO	TYO	PAR	TYO
Australia	Telstra	1221	BNE	LHR	USA	SYD	BNE
	Optus	7474	PAO	BKK	PAO	SYD	PAO
New Zealand	Telkom NZ	4648	PAO	BKK	SIN	SYD	MIA

Legend

50	Good - connects to in-country instance
10	OK - Connects to the possible nearest instance
-10	BAD - doesn't connect to in-country instance
-5	Not good/ not bad - goes to the next nearest instance, even if it doesn't get to the in-country instance

Networks That need some attention

So..

- I did send this to the root operators listed.
- I also shared this info with a few operators in the 'yellow'.
  - So some have taken steps to fix the issues. Some has been non-responsive.
- Things change all the time, and nodes may have temporary issues
  - Means that if I re-do this some things may change

Thanks