



IP Transit : Who is the BEST?

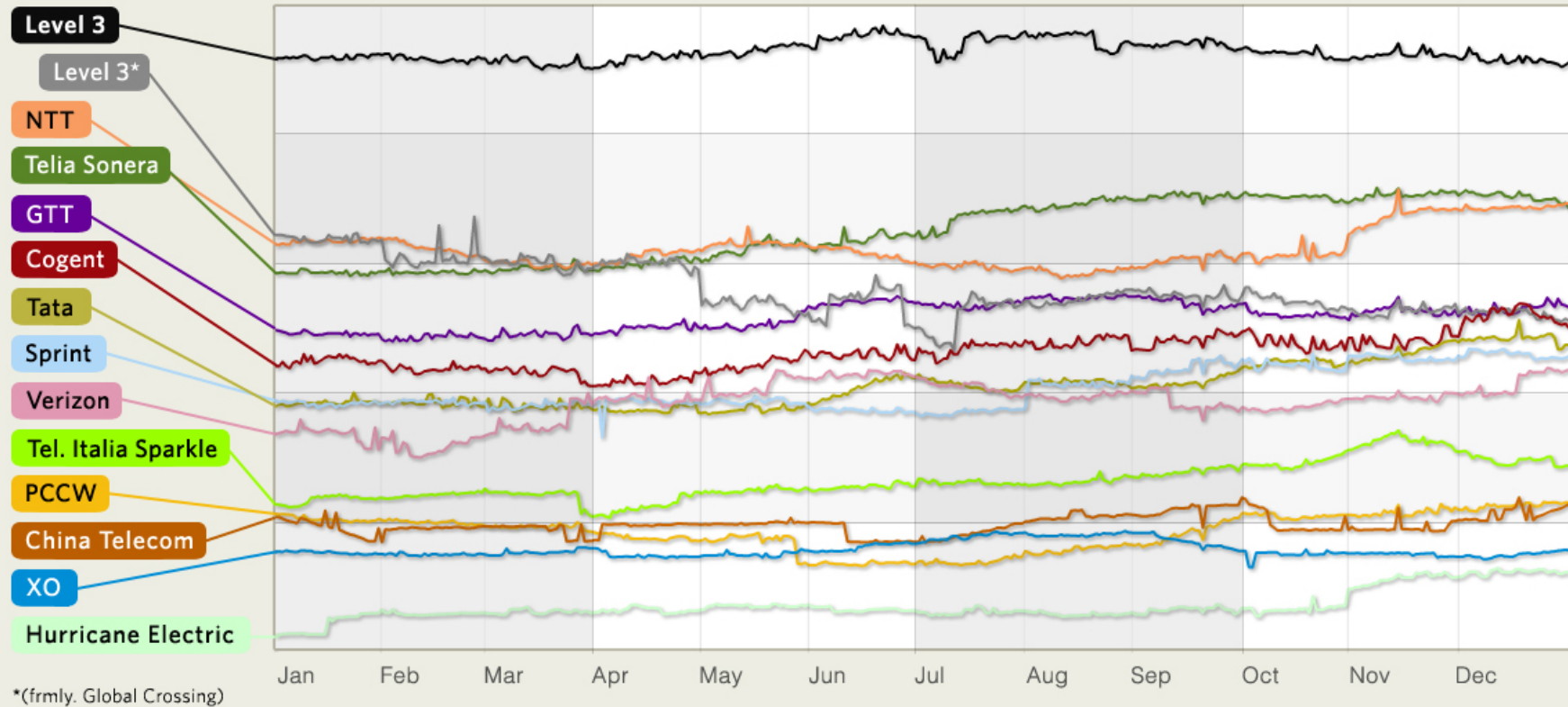
Simon Sohel Baroi
Sr. Manager, ITC-IIG

- TOP-10 Providers from – Cost Comparison.
- Latency
- Infrastructure
- Theory of Success



Top Providers

Baker's Dozen for 2013



A Baker's Dozen, 2013 Edition

<http://research.dyn.com/2014/01/bakers-dozen-2013-edition/#!prettyPhoto>

Project : DHAKA - LONDON

- Capacity : STM-16 (POS Port)
- Data Center : Telehouse East London
- Submarine : Sea-Me-We-4
- Last Mile Provider : XYZ
- IP Port : Level3 (AS3356)

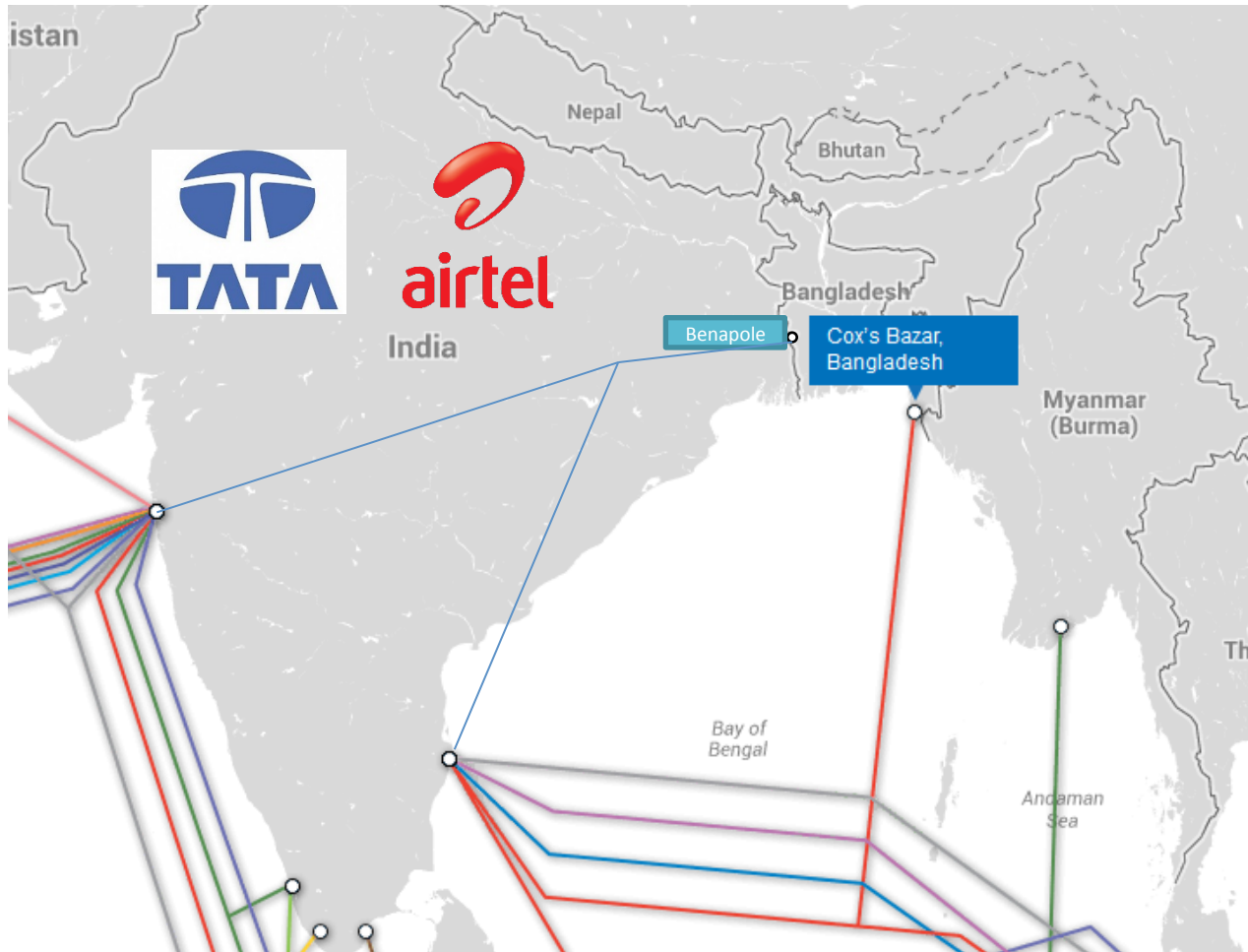


Cost :

Item	Quantity	Cost (USD)
Dhaka-Cox's Bazar Landing Station	STM-16	11,538.00
Cox's Bazar towards Chennai Half Circuit	STM-16	22,051.28
Chennai to London TELEHOUSE East	STM-16	15,000.00
Level 3 IP port		3,500.00
TOTAL COST		52,089.28

Per Mbps Cost : 21.70 USD





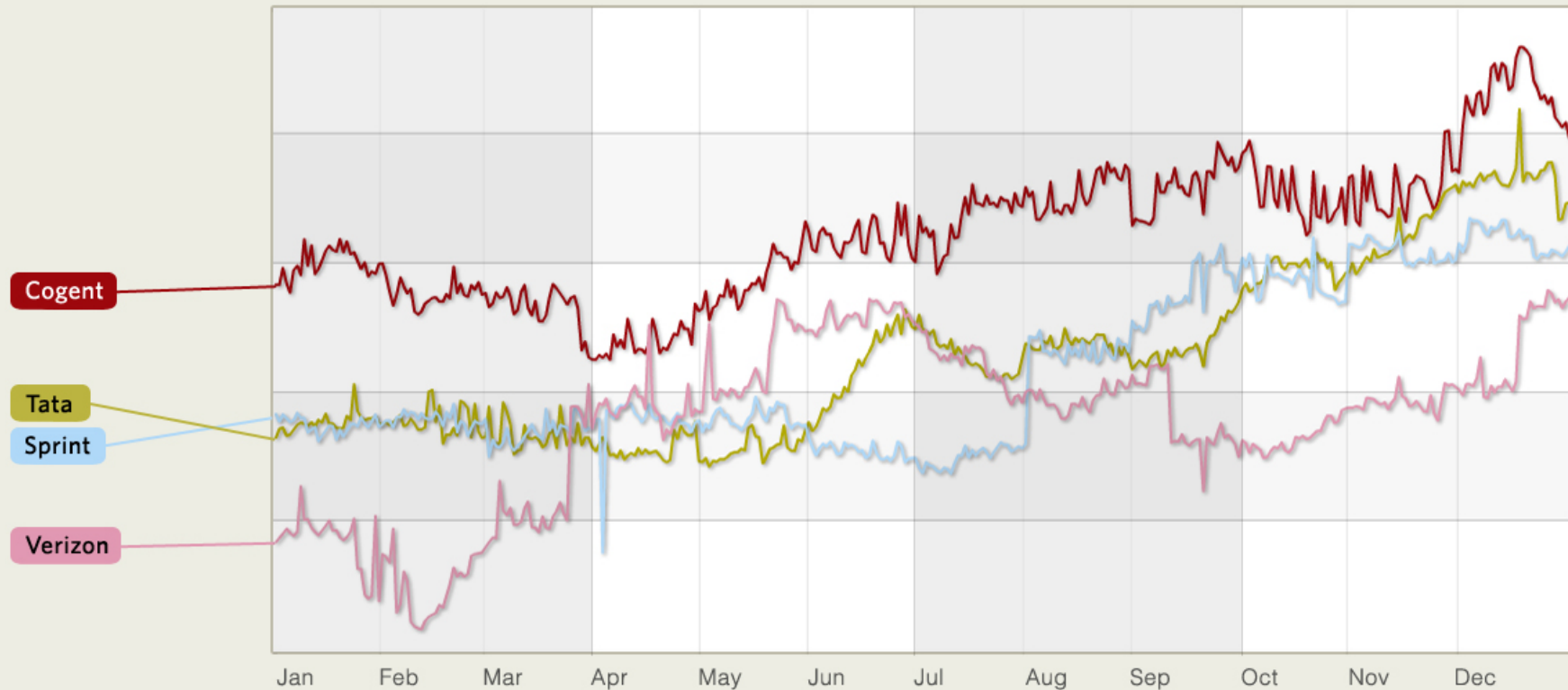
Submarine Cable :
Sea-Me-We 4

Operator :
Bangladesh Submarine
Cable Company Limited
(BSCCL)

Terrestrial Cable :
At Benapole Border



Baker's Dozen for 2013: Providers 5-8



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<http://research.dyn.com/2014/01/bakers-dozen-2013-edition/#!prettyPhoto>

Cost :

Item	Quantity	Cost (USD)
Dhaka – Chennai with STM-16 IP PORT	STM-16	36,000.00
TOTAL COST		36,000.00

Per Mbps Cost : 15.00 USD



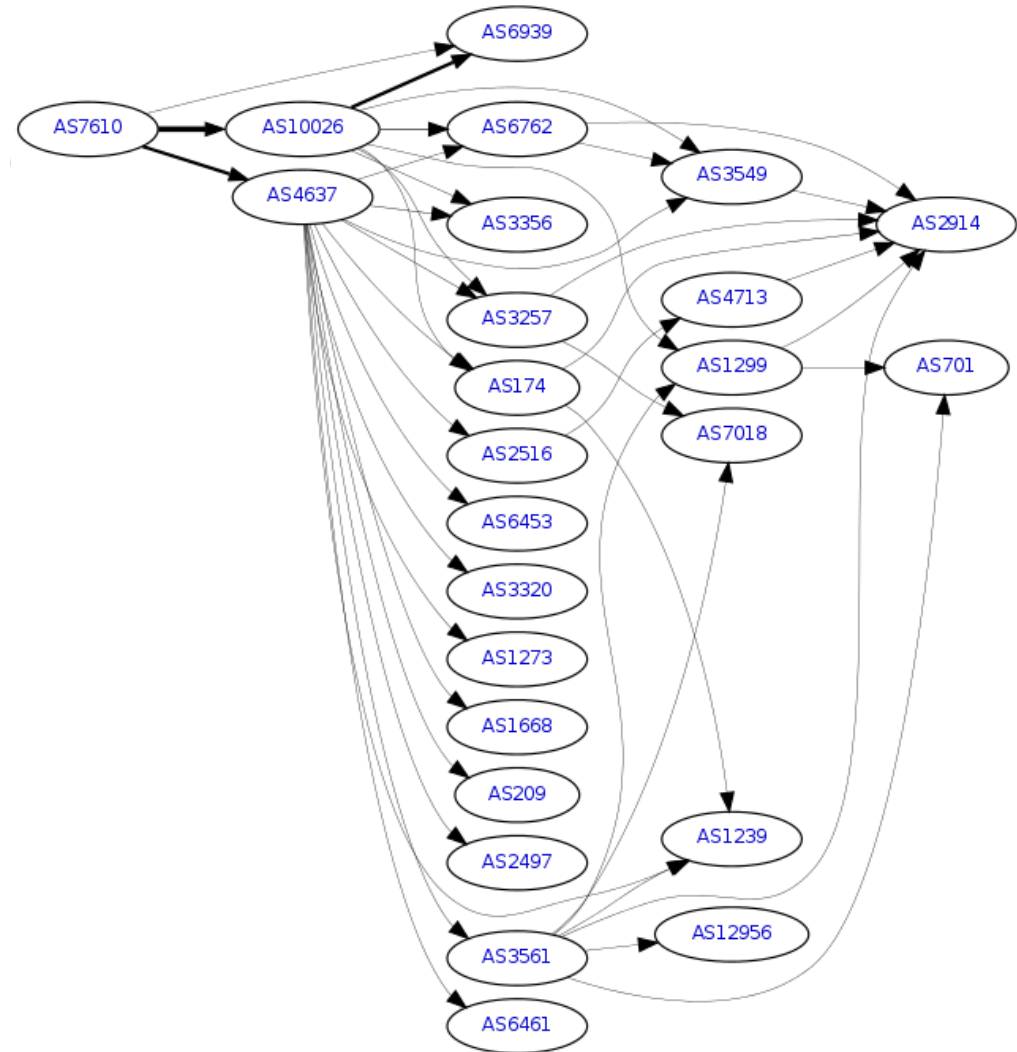


IPv4 :

Telstra Global
 Pacnet Global Ltd
 Hurricane Electric, Inc.

IPv6 :

Telstra Global
 Pacnet Global Ltd
 Hurricane Electric, Inc.
 Hong Kong Internet Exchange





Latency



Infrastructure





Theory of Success

- Connect to Regional Internet Exchange
- Peer more and more.

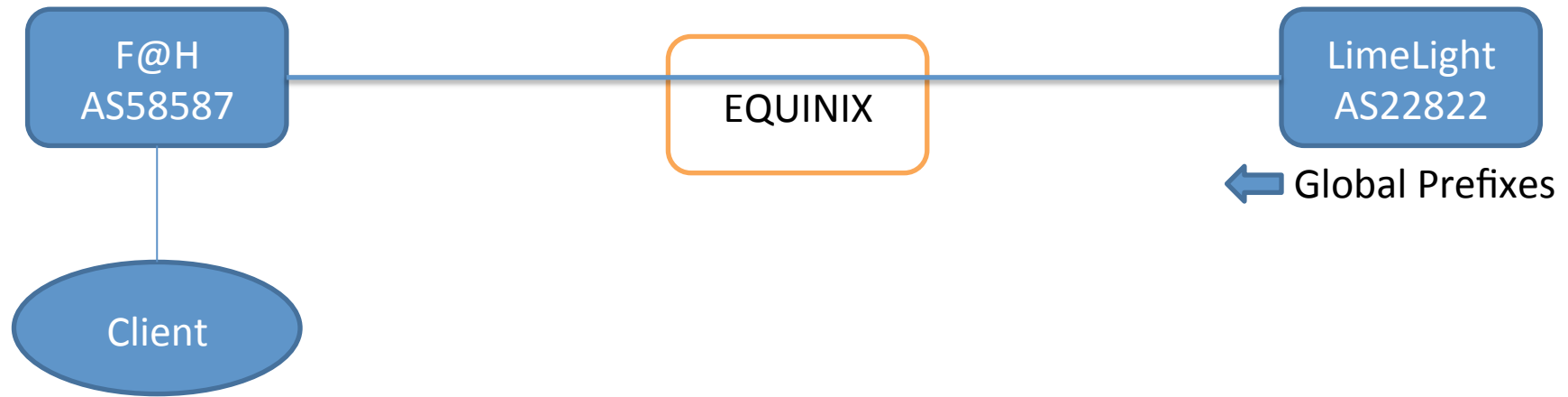




- 1) AS15169: Google Inc.
- 2) AS32934: Facebook, Inc.
- 3) AS39832: Opera Software ASA
- 4) AS16625: Akamai Technologies, Inc.
- 5) AS22822: Limelight Networks, Inc.
- 6) AS9498: BHARTI Airtel Ltd.
- 7) AS16265: LeaseWeb B.V.
- 8) AS54994: MILEWEB, INC.
- 9) AS7922: Comcast Cable Communications, Inc.
- 10) AS16276: OVH SAS
- 11) AS16509: Amazon.com, Inc.
- 12) AS174: Cogent Communications
- 13) AS3356: Level 3 Communications, Inc.
- 14) AS14618: Amazon.com, Inc.
- 15) AS36351: SoftLayer Technologies Inc.



- Make AS Path Shorter :



- Peering – more and more Peering

Cost Comparison : (in AISA)

1 GE Peering with in IX = 6 x GE Peering with CDNs



AS : 58587

- EQUINIX Singapore
- Global Switch Singapore
- Mumbai
- Chennai
- London (TeleHouse East)
- Bangladesh



Thank You.

SIMON SOHEL BAROI

Fiber@Home Limited
House-7/B, Road-13, Gulshan-1, Dhaka-1212
Phone- 880 2 8814817, 8812507, Fax- 880 2 8812010
E-Mail : simon.baroi@fiberathome.net
www.fiberathome.net

