

Vanuatu Internet Exchange Point



In many developing countries, such as the Republic of Vanuatu, poor connectivity between Internet Service Providers (ISPs) often results in the routing of local traffic over expensive international links simply to reach destinations within the country of origin. To address this issue, a local Internet Exchange Point (IXP) was established to interconnect all local network operators and content providers. **The Vanuatu Internet Exchange Point (VIX) is the first such exchange point in the Pacific Region and is a mark of successful industry cooperation in Vanuatu.**

HOW?

TRR and Vanuatu Government along with the local Network Operators worked together to setup the VIX. A VIX working group was established and meetings and discussions were facilitated by the TRR. A Memorandum of Understanding (MoU) was signed on December 10, 2012 by the Government via the Office of the Government Chief Information Officer (OGCIO), Digicel Vanuatu Ltd, Can'I Vanuatu Ltd, SPIM and Telsat Broadband Ltd, to establish peering agreements and route their local traffic to the VIX instead of having to use costly international satellite links.

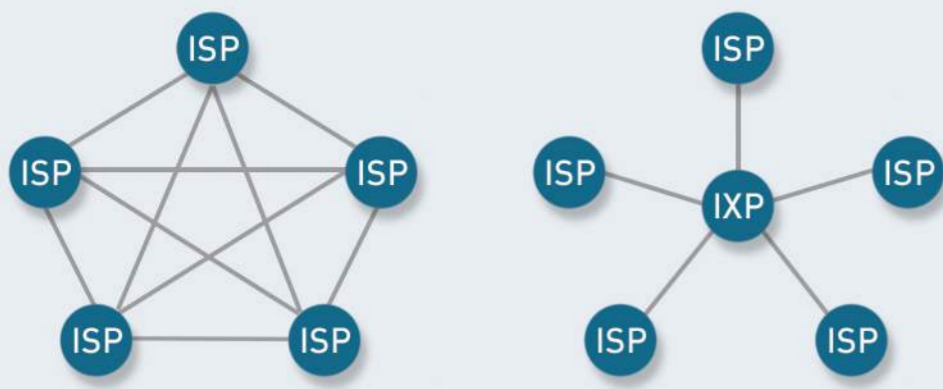
HOW DOES IT WORK?

The VIX uses Multi-lateral Peering Agreement (MLPA); each member establishes a single peering with the route server.

WHERE?

The VIX is currently housed at the Vanuatu Government Data center (VGD).

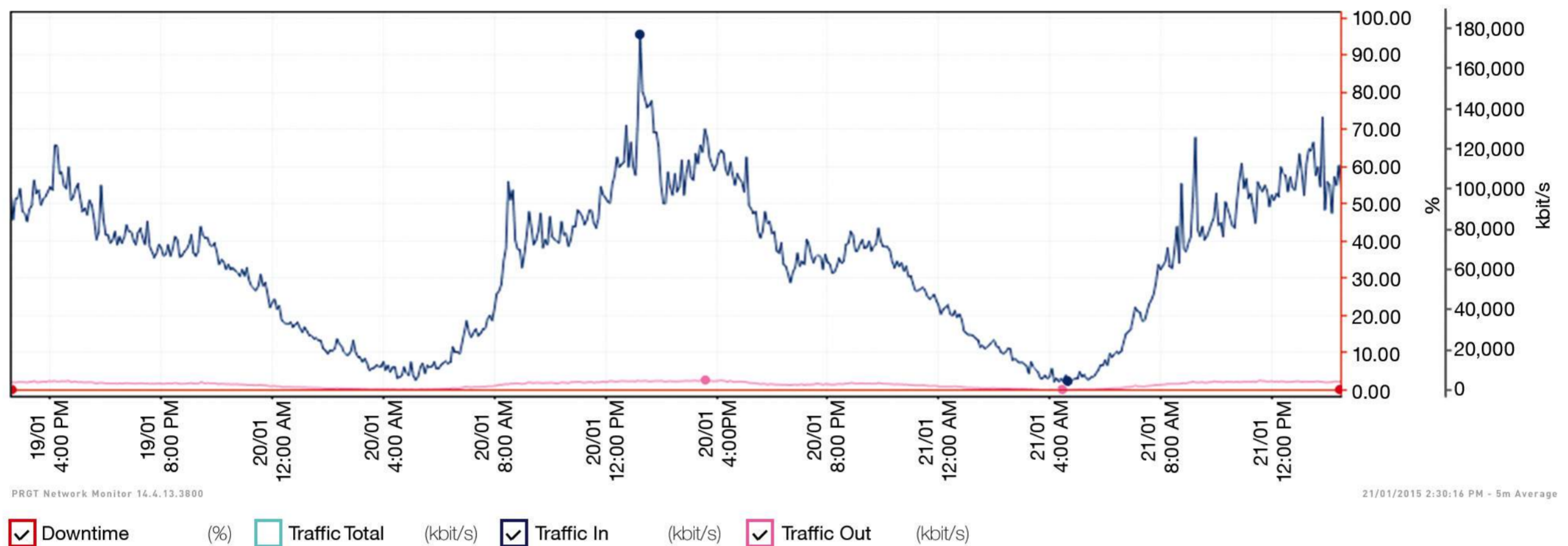
WHAT BENEFITS?



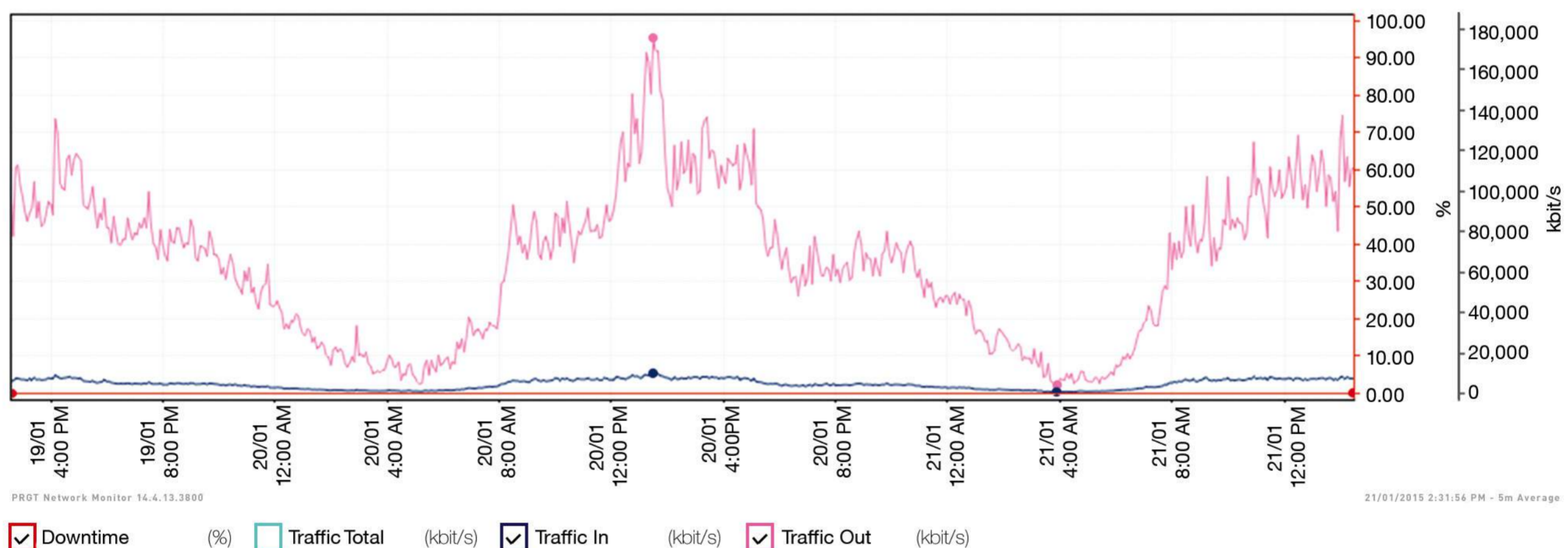
The Vanuatu Internet Exchange Point (VIX) is a vital element of our Internet infrastructure that enables networks to exchange traffic with each other. Multiple ISPs can connect to the VIX, creating the potential for a range of technical and economic benefits for the local Internet community. By keeping local traffic within Vanuatu and avoiding international links, local operators and users can reap **substantial cost savings**, provide **substantial local bandwidth**, and significantly improve the local Internet performance.

WHAT ARE THE TRAFFIC STATISTICS?

FROM VIX TO VIX MEMBERS TOTAL (EGRESS TRAFIC)



FROM INTERNET TO VIX TOTAL (INGRESS TRAFIC)



KEY DATES

- Sept. 2012 Initial VIX meetings initiated by TRR to establish VIX Committee
- Oct. 2012 VIX committee created the VIX Policy and Memorandum of Understanding (MoU)
- Dec 2012 5 network operators (Telsat, Digicel, Can'L, SPIM, Vanuatu Government) signed the MoU to formally establish the VIX
- Jan. 2013 VIX Application to APNIC for IP block and ASN
- Feb. 2013 VIX Switch and route server (donated by two members of VIX) installed
- Feb. 2013 First 2 operators (Telsat & Vanuatu Gov) established BGP peering with VIX route server
- Aug. 2013 Google cache installed - YouTube contents are now being served by local GGC node - vanuatu-vli1
- Nov. 2013 i-root server (donated by NETNOD) installed
- Jan. 2014 IPv6 enabled – 2 local operators have IPv6 peering with VIX
- May 2014 Telecom Vanuatu Ltd established peering to VIX

> All local network operators are now connected to the VIX

Contact information

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