O3b mPOWER: SOLUTIONS FOR THE TELCO AND MOBILE INDUSTRY

"As NGSO constellations launch between 2021 and 2024, all eyes will be on the performance of Broadband and Trunking applications."

Gagan Agrawal, NSR 2020

- By 2022, smartphones will account for 44% of total IP traffic
- Global interconnection bandwidth is forecast to grow from 5Tbps in 2020 to over 16Tbps in 2023
- 70% of WAN managers of major multinational companies confirm they have dedicated connections to cloud services

THE NETWORK GROWTH CHALLENGE

Growing demands in bandwidth, together with the ever-wider distribution of cloud-dispersed applications, are driving telcos and MNOs to push their backbone networks further out. End users expect the same quality of experience no matter where they are, and global competition is pushing providers to design more aggressive go-to-market strategies. Core network fibre-extension projects are therefore essential for long-term growth, but the required time and capital investment for implementation give rise to the need for intermediate solutions that provide:

- Secure, high-bandwidth, low-latency connectivity
- Low-risk, rapid deployment virtually anywhere
- Flexible network services capable of being redeployed quickly
- Standards-based Carrier Ethernet E-LINE network interfaces
- Predictable CapEx and OpEx for an assured ROI

Yet neither microwave link networks nor many of the traditional commercial satellite architectures can fulfil these prerequisites, driving the requirement for new breeds of services and systems.

THE O3b mPOWER SOLUTION

Our well-established O3b MEO service currently delivers high-performance, low-latency satellite data services for IP Trunking. O3b mPOWER is an exponential evolution of O3b MEO, offering increased connectivity locations, higher data rates, and more flexibility to serve telco backbone and remote backhaul applications.

With innovative yet proven digital satellite technologies, O3b mPOWER can handle thousands of uncontended multi-gigabit-per-second services over large regions with fibre-like performance. Telcos, MNOs, and service providers now have a solution to augment and protect core networks for sustained market-share expansion and continued business success.

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KEY BENEFITS

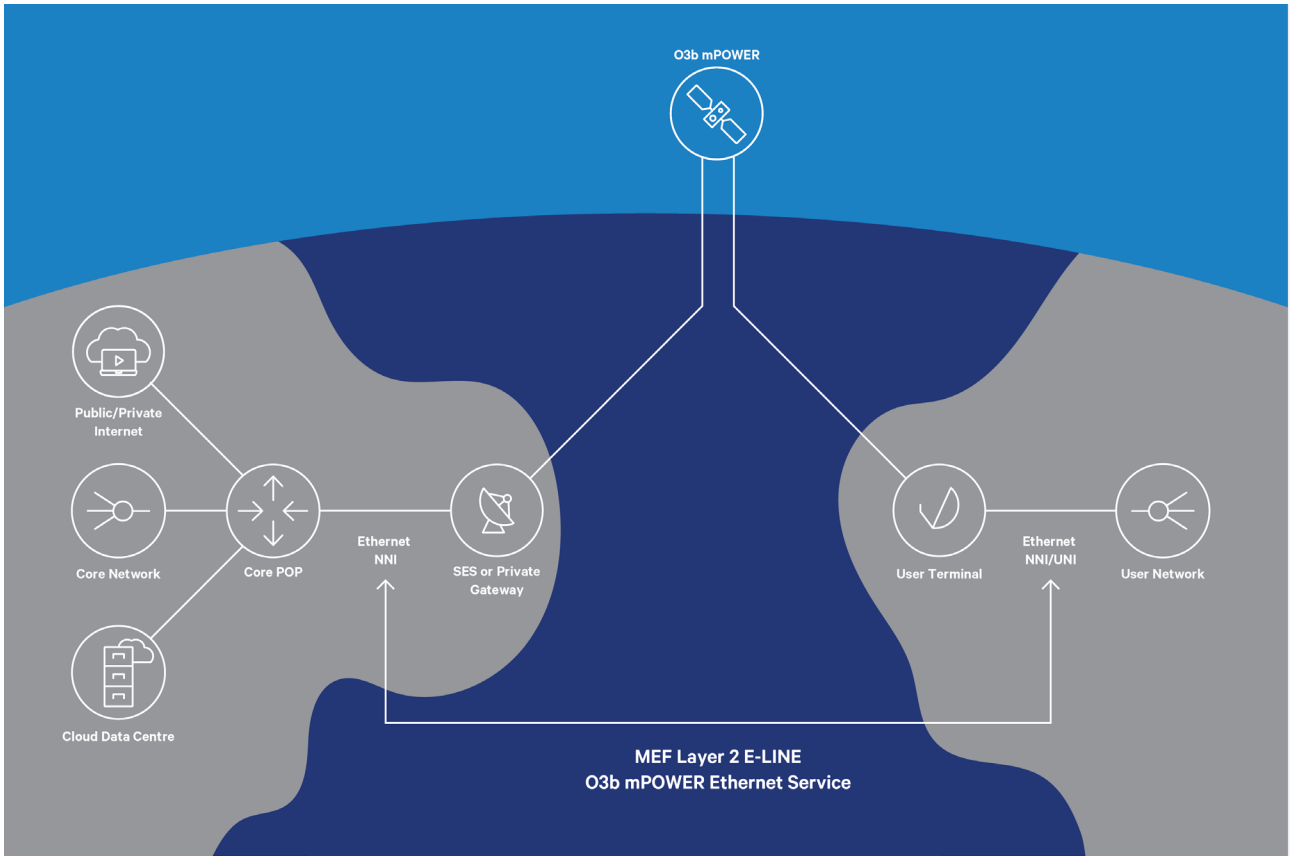
- Secure, high-performance E-LINE Ethernet connections to core backbone networks, cloud data centres, or Tier 1 Carrier Ethernet ISP exchange peering locations
- Flexible bandwidth provisioning with dynamic control of individual connections over multiple facilities as demands change
- Variety of terminal configurations available to meet customer site, bandwidth, and resilience requirements
- Optimised traffic steering over multi-orbit satellite, fibre, and terrestrial wireless through intelligent SD-WAN
- Intuitive customer portal for performance assurance, configuration control, and enhanced support

SYSTEM SPECIFICATIONS

- Carrier Ethernet MEF 51.1 OVC/ENNI/UNI
- QoS and CoS traffic management
- 802.3ag connectivity fault measurement
- Y.1731 delay, jitter, and loss measurement
- Y.1564 service activation testing

O3b mPOWER SLA COMMITMENT

- Uncontended 50Mbps to multiple Gbps managed ethernet service
- Carrier-grade 99.5% availability
- Guaranteed low latency 150ms Round Trip Time (RTT)
- Compliance assurance monitoring



O3b mPOWER: Solutions for the Telco and Mobile Industry

External sources

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'The Global Interconnection Index (GXI) Volume 4' – Equinix 2020
"WAN Manager Survey | Q1 2020' – TeleGeography