TECHNICAL NOTE

The agreement between FiberCop and FMC GlobalSat/MTN represents one of the first architectures developed worldwide over Low Earth Orbit (LEO) satellite networks. Altogether, both companies have successfully completed tests with hybrid network architectures that integrate LEO satellite services into terrestrial infrastructures, specifically combining fiber access with LEO satellite backhauling. A fully integrated architecture of this kind has been implemented within a terrestrial network environment using Layer2+PPPoE (a typical protocol for Terrestrial Networks).

The architecture leverages MTN's networking platform StarEdge Horizon™. StarEdge Horizon delivers secure, private Layer2 connectivity over LEO satellites with multi-network redundancy and ultra-high-speed bandwidth capable of scaling up to multiple Gbps, enabling a direct transport path that carries Ethernet frames without IP-layer intervention to extend FiberCop's existing IP addressing, routing, and VLAN structures across multiple locations and sites. This ensures full operational control, supports specific configurations, and integrates securely with existing FiberCop networks and data transmission with PPPoE. Because StarEdge Horizon allows two points to communicate as if they were on the same local network, it enables the LEO satellite link to act as a true extension of FiberCop's own fiber network while allowing traffic segmentation and advanced network services.