Dedicated Beam

Viasat's new bandwidth solutions suite offers flexibility by allowing customers to combine dedicated and shared capacity products, providing a customized service. These solutions are particularly geared towards mobile backhaul and telecom capacity management, offering rapid deployment with a much lower CAPEX and OPEX effort compared to terrestrial infrastructure.

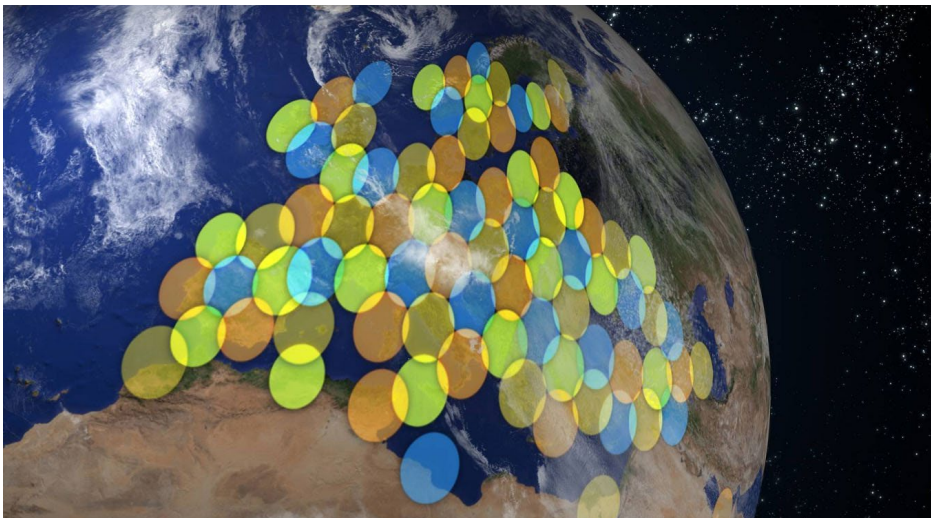
Truly dedicated capacity

Dedicated Beam is a new bandwidth solution to provide Distributors with dedicated capacity over either individual or multiple selected beams to offer premium solutions to their customers.

To provide a uncontested resource, Viasat's Dedicated Beam leverages segregated carriers within each beam. This implementation is similar to a dedicated wavelength in the fiber realm, with satellite's inherent advantage of making that dedicated capacity available within a large footprint.

Powering mobile networks and remote applications

Viasat's Dedicated Beam solution is well suited for remote applications such as energy plants, mobile backhaul for data offload in high value sites, and failover for terrestrial infrastructure. The dedicated capacity can be accessed by multiple sites simultaneously within the beam's footprint.

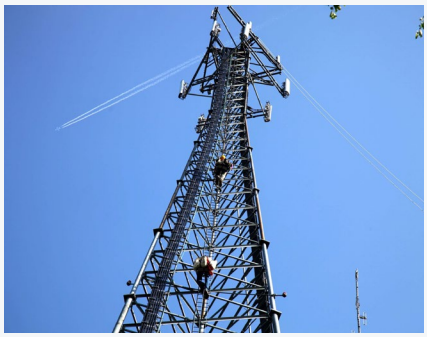


Dedicated Beam at a glance

1. Enterprise grade solutions tailored for specific backhauling requirements
2. SLA with at least 99.5% availability and 24/7 technical support
3. Dedicated / uncontested or shared bandwidth service options
4. Fully redundant fiber-based ground network, providing high availability and reliability
5. International KA-SAT PoP facilities, for private exchange of data between the MNO's network and the KA-SAT network

Satellite is a proven provider of alternative backhaul technology, bringing added value in several use cases such as the following:

- Data offload in high value sites
- Dedicated capacity for network load optimization
- Coverage extension in remote areas, during special events or to meet seasonal demand
- Disaster recovery and emergencies
- Backup of terrestrial broadband links
- Small cells backhauling



Mobile Backhaul over satellite – Use Cases

Among the use cases for mobile backhaul via satellite, one of the most common applications is for rural and remote areas, to expand mobile network coverage and minimize the Digital Divide.

Mobile Backhauling for 3G and 4G via KA-SAT satellite has been deployed in rural areas of France, Romania and Portugal, with a typical network configuration as shown in the below picture.

- Traffic delivery to PoP allows a better control and performances of the end-to end network, providing full redundancy with dual homing configuration.
- Mobile traffic is transported over GRE tunnels between cell sites and core network, for traffic segregation.
- Voice, data, and video services are all backhauled via satellite.
- Hundreds of sites deployed.