

# IP - MPLS

IP - MPLS (Multiprotocol Label Switching) under GCX's connectivity business is a service where GCX provides MPLS IP connectivity over a highly resilient network across the globe. In such a setup, the responsibility for configuring, monitoring, maintaining and routing lies with the customer.

## KEY FEATURES OF GCX'S MPLS:

### 1. Global Reach

**Extensive Coverage:** We provide MPLS services globally using our own cable-systems viz. FA-1, FEA, FNAL, HAWK and FALCON coupled with other diverse partner cable-paths, making it easier for MNCs [Multinational Companies] and Datacentres to connect their offices or datacentres around the world under a single network provider.

### 2. Reliable and Consistent Performance

**Guaranteed Bandwidth:** GCX MPLS allows for dedicated bandwidth allocation, ensuring that critical applications have the necessary resources.

**Low Latency and Jitter:** Based on business requirements can provide low-latency paths, essential for real-time applications like VoIP and video conferencing.

**High Availability:** With multiple owned cable-systems coupled with other diverse cable-paths across globe we provide redundant paths for customer reachability, ensuring high uptime and reliability.

### 3. Quality of Service (QoS)

**Traffic Prioritisation:** GCX MPLS supports QoS, allowing customers to prioritise different types of traffic (e.g., voice, video, and data), ensuring that the most critical services receive priority treatment.

**Service Level Agreements (SLAs):** We offer SLAs that guarantee specific performance levels, such as uptime, latency, and packet loss, providing customers with peace of mind.

### 4. Scalability

**Flexible Network Expansion:** GCX MPLS supports customers need to scale for accommodating growing business needs, whether adding new sites or increasing bandwidth.

### 5. Enhanced Security

**Traffic Segregation:** Segregation of traffic between different customers, ensuring that each customer's data is isolated and secure.

**Private Network:** As MPLS often operates over a private network, MPLS services provides an additional layer of security compared to the public internet.

## USE CASES:

- 1. Content Distribution Networks [CDN]:** For CDNs requiring data to be replicated or distributed across their international Data centre nodes reliably.
- 2. Data centre Interconnect:** For Enterprises with multiple data nodes at various International Data centres for large number of servers needing connectivity to other Data centres servers and also end-users accessing them.
- 3. Large Enterprise networks:** Enterprises with high bandwidth requirements for connecting their international nodes and end-users.

GCX's IP- MPLS is a good option for organisations that have the technical resources to manage their network infrastructure and want more control over their MPLS setup.