



## Maximize Network Potential

The fundamental concept behind Multiprotocol Label Switching (MPLS) is packet labelling. This labelling helps organize your data in an intelligent manner and maximizes your company's bandwidth. MPLS packets are always sent on time and in the right priority sequence, so no bandwidth ever goes to waste.

Think of MPLS as a fast lane through the internet that we can customize to your business. By defining Quality of Service (QoS) profiles that prioritize critical data like voice and video, MPLS will choose the fastest and lowest latency path possible.

With MPLS, your data receives the express lane treatment. While all other traffic has to stop for routing inspection, MPLS traffic flows right through because the labelling has already defined the destination.

## Multi-location Offices with MPLS

### A multi-location network with iTel MPLS

- Head office and branch locations are connected on the same private Layer 2 network
- Cut costs by 50% on voice and data by pooling bandwidth and converging connections on one single network.
- Receives one bill and only pays one company for their whole organization.



### A multi-location network without MPLS

- Head office and branch locations are working off of different networks and segmented from each other.
- Mission-critical data transfers over the public internet.
- Invoiced from multiple carriers for individual networks at high overhead.

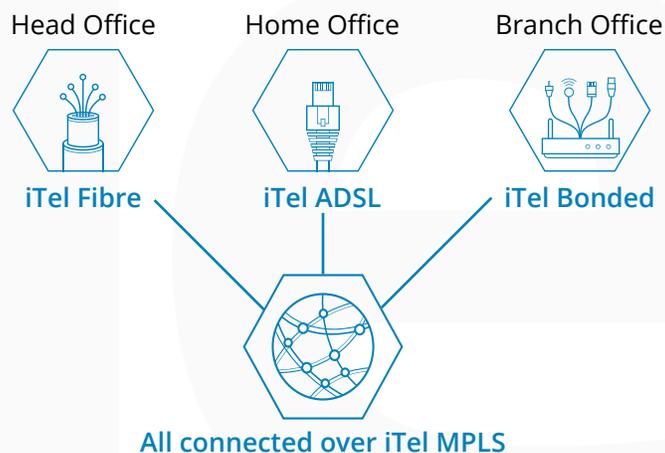
## iTel MPLS (IP VPN)

*High-performance connectivity*

### ***Why iTel MPLS is different***

Other MPLS providers require an ethernet connection plus an MPLS connection, but with iTel all you need is the one. Connect your entire organization with the ease of just one bill, one support number, and one industry-leading Service Level Agreement (SLA).

iTel utilizes multiple carriers to build a one-of-a-kind “network of networks”. This meshed network encompasses different connections types from various upstream providers which means wherever your offices are located, we have the ability to connect them - something that our competitors just can't match.



### ***Our Layer 2 Network***

Providing end-to-end Layer 2 networks to geographically diverse locations is unique to iTel. Our internet links your business to a network that offers MPLS and Layer 2 connections to all of your sites over multiple paths.



## *The Competitive Advantage of MPLS*

### *Security:*

Keeping your data out of the public internet increases security. MPLS ensures that only those in your private point-to-point (or point-to-multipoint) MPLS network have access to your information.

### *Reliability:*

iTel MPLS connections are delivered on our industry-leading 100% Service Level Agreement (SLA). Network expectations like downtime, availability, latency, jitter, and mean-time-to-repair (MTTR) are addressed to ensure peak network performance.

### *Bandwidth Pooling:*

MPLS allows you to buy a pool of bandwidth for your entire organization instead of by location. By sharing resources amongst offices, you can reduce bandwidth commits by up to 40%.

### *Ethernet Virtual Connections (EVC) Capability:*

iTel offers internet over MPLS as a separate EVC or VLAN within a network. Assign static routes to different types of data to decrease latency and increase performance and manageability.

### *Multiple services on one network:*

iTel MPLS allows for an organic expansion into SIP trunking and other hosted services that benefit from prioritized traffic. You can also add virtual machines to your sites, which means they all exist within your network while provisioned on iTel's infrastructure.

## iTel MPLS (IP VPN)

*High-performance connectivity*



### ***Exceed Expectations:***

Because your network is your business' lifeline. Why trust it with anything less than the best?

MPLS-optimized internet includes:



Multiple ethernet virtual connections



Class of Service (CoS), allowing you to segment and prioritize traffic within your network to meet the unique requirements for each of your applications.



Lower Latency



24/7 "no holds" Canadian support



Industry-leading 100% uptime guarantee



4 hour mean time to repair (MTTR)

## iTel MPLS (IP VPN)

*High-performance connectivity*

### **Boost Basic DSL with MPLS:**

**Reliable Layer 2 (L2) path between multiple sites.** Typical ADSL and COAX run on a layer 3 (public) connection with no guaranteed reliability or security. Adding MPLS will create a private point-to-point connection with a 100% SLA.

**No bottlenecks and peak performance.** Basic ADSL or Cable cannot prioritize your bandwidth on its own. Adding MPLS will categorize your data packets and send them based on priority sequence that you choose, ensuring the best quality of service (QoS) with minimal latency and crystal clear VoIP and video calls.

**Protection against Denial of Service (DoS) Attacks.** ADSL and Cable without MPLS send data over the public internet, exposing them to DoS attacks that decrease speeds. With MPLS, your data is transferred over a protected private network that never enters the public gateway.

### **Value-Added Services:**

We offer discounted value-added services delivered on the same core as your MPLS connection.

-  **Voice Services:** SIP trunks on one of Canada's largest IP networks.
-  **Voice Systems:** Cloud PBXs unify locations without upfront costs.
-  **Virtual Machines:** Offsite L2 backup monitored 24/7/365 by our dedicated technicians.
-  **Internet Gateway:** Enterprise-grade internet connections on an MPLS Network.