Overview

Founded in 2013, the customer is a Noida-based firm supplying supreme quality automotive parts and components. The company is listed in Trade India’s list of verified sellers offering superior quality FCR MX carburettors, CV carburettors and piston carburettors.

Challenge

The customer was looking to build a secure, scalable, and cost-effective solution to connect their multiple locations with their distribution centre in Noida, Uttar Pradesh. The auto component manufacturer wanted the network to be managed and monitored proactively by their service providers with an end-to-end service level agreement (SLA). They also wanted to connect distributors on low bandwidth reliable MPLS products.

Solution

Banking on its decades of expertise, TataTele Business Services built a comprehensive network on multiprotocol label switching (MPLS) network Topology-Full Mesh. The solution also involved:

- Connecting distributors on Smart Virtual Private Network (VPN) wireless media
- Installation and provisioning of all four locations
- Building last-mile connectivity as per the customer’s feasibility
- Routing Internet Lease Line (ILL) traffic from Noida HUB to all Spoke locations over MPLS
- Announcing default route from HUB CE (Kolkata) towards the customer’s network
- Routing protocol as Border Gateway Protocol (BGP)
- Offering 100% class-of-service (CoS) and CoS3
- Providing and managing customer premises equipment (CPE) with Maipu 1800-50x AC

MPLS Diagram with ILL Routing over MPLS
**Business benefits**

The engagement resulted in a significant decrease in downtime for this automotive part dealer. Post engagement, the customer witnessed:

- A substantial reduction in transactions to multiple vendors through single service provider for data connection
- Development of scalable/reliable network and cost-effective solutions
- Considerable increase in uptime through SLA-based solutions
- Proactive management and monitoring of the process

**Smart VPN for Distributors’ Connectivity**

**Network Schematic up to Distributors Locations**

- Hughes had created four separate NNIs at Gurgaon with Airtel, Vodafone, BSNL and Idea using Private APN.
- Performance of 4G & 3G network will be dependent on signal availability of respective telco.
- Network performance can vary depending upon respective network signal strength.
- Hughes are using GRE in encryption mechanism on dedicated private route to ensure best in class security.
- Hughes can manage load balancing of WAN links depending upon Latency & Packet drops or throughout.