

# Cisco Systems

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- **Deployments**
  - MPLS is deployed by more than 250 of Cisco's customers (SP + Large Enterprise)
  - GMPLS & OUNI still in trials phase
  - MPLS Fast Reroute – increasingly popular as a protection solution
  - Multi-Service Edge – Driving Network Convergence
- **Services**
  - Providers moving beyond vanilla connectivity to bundled IP Services
  - Multicast – increasingly important component of IP VPN service offering
- **Manageability**
  - Number of manageability improvements made in the recent past...now we need the operational experience.
- **Technology**
  - VPLS – useful as a layer 2 service for an IP end point or limited # of MAC addresses
  - Sophisticated Mechanisms such as Bandwidth Protection Available
- **Future**
  - MPLS as a basis of NGN & Network convergence
  - GMPLS finally seeing deployments as part of NGN – Intelligent Integrated Networks
  - On demand services on MPLS Transport