



MPLS: The World of Possibilities

Deploying Solutions and Not Just Techn

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From Technology to Solutions

Protocol



Protocol Label
an IETF standard

g protocol
OSI Model "Layer

y Cisco's
TAG Switching

Transport



Improved mechanism to
connect enterprise sites

- Data-carrying service for circuit- and packet-switching clients
- Supports: IP, ATM, SONET, and Ethernet
- Rapidly replaces ATM and

Solut



Efficient Way to
Applicat

- Class of Service (enables prioritiza network traffic
- Voice, video, stan can be easily com

Opportunities

Additional use of MPLS –
for 3 IP VPN

Improved Performance
Excellent replacement path
for legacy ATM and Frame
Relay

Opportunities

Virtual Private Wire Service
(VPWS)

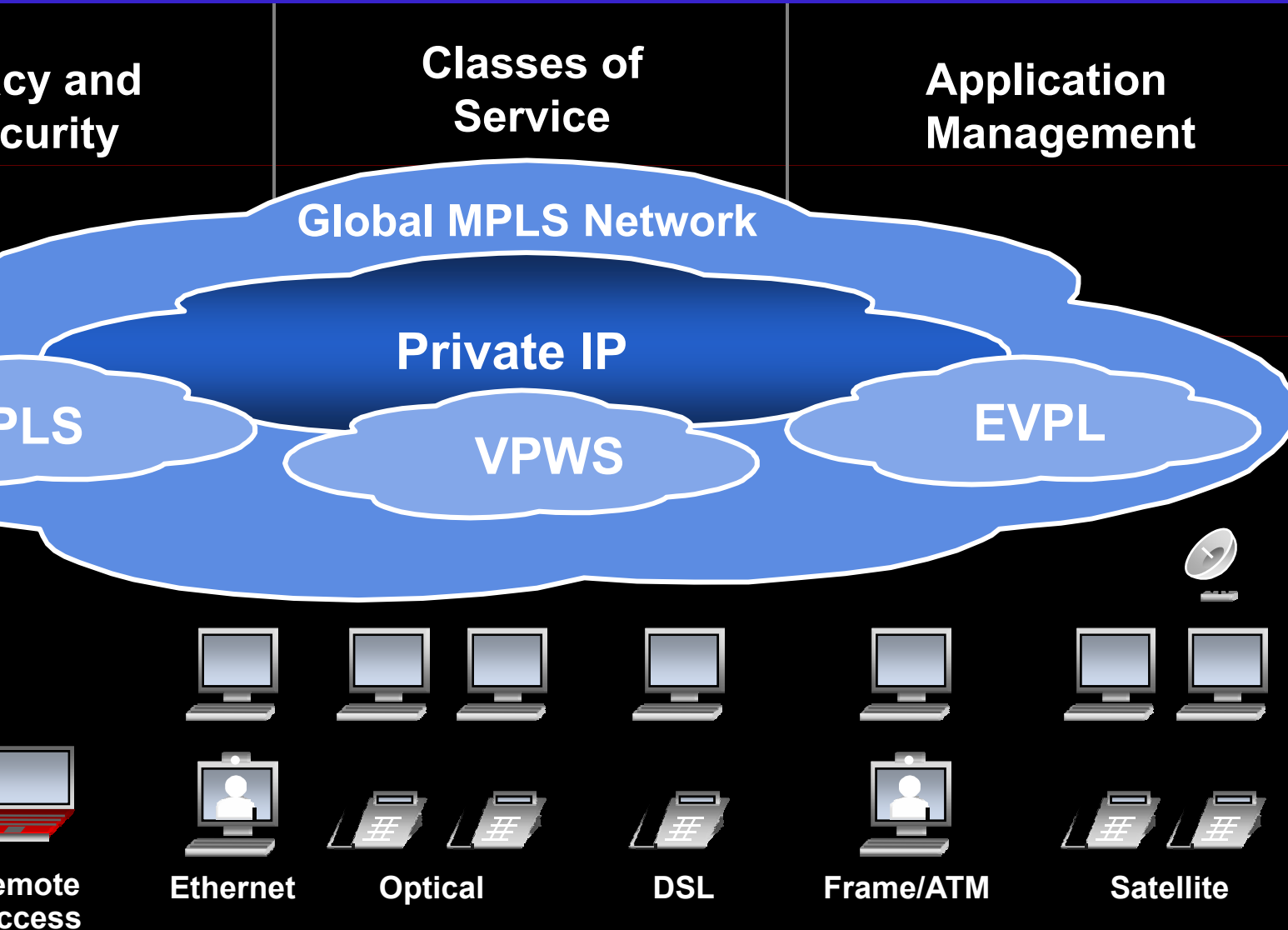
Ethernet Virtual Private Line
(EVPL)

Virtual Private LAN Service
(VPLS)



Communication Solutions

MPLS-Based Communication Solutions



One of
MPLS

Layer
Layer
conne
opt

Exte
bread
dep
access

Private IP (Layer 3 MPLS VPN)

Business Private IP Service

Provides a state-of-the-art platform for Private IP communications
Converts Frame Relay and ATM into IP-based networking
Combines the benefits of private and IP networking
Supports a wide variety of network technologies for access
Provides international reach into more than 120 countries
Advanced feature functionality: six classes of service, CE-to-CE SLAs

Private IP has achieved market leadership based on our:

- Proven track record
- Technically robust platform
- Extensive global reach
- Application Aware solutions



Virtual Private Line (EVPL)

Available from Verizon Business since 2005

Metro

National US

Global

Thousands of EVPL customer connections

Layer 2 transport service

Designed for point-to-point or point-to-multipoint connectivity

Standard Ethernet handoffs and SLAs

Uses MPLS in the Core & Pseudo-wire technology



Private LAN Service (VPLS)

Available from Verizon Business since 2007

Full high-bandwidth Ethernet service

Optimized enhanced Layer 2 transport with any-to-any connectivity

QoS available

Network reliability gained through transport over MPLS core

Customer routers will not peer with carrier routers, so no need to share routing information with SP.

Supports multiple protocols, just as private line without long-haul cost

Key applications:

Remote sites with high-bandwidth requirements

Usually core or regional networks

Data Center Connectivity



erspective

roducing Metavante
e Study

PLS

ivate IP (L3 IP VPN)



Thank You

