



INDEX

A

AAL5 [1-8](#)
address space separation [3-8](#)
ATMoMPLS [1-8](#)
ATM over MPLS (ATMoMPLS) [1-8](#)
audience [ii-v](#)
authenticating
 LDP [3-14](#)
 routes [3-13](#)

B

bandwidth pools [4-6](#)

C

CBTS
 Class-Based Tunnel Selection [4-8](#)
cell relay
 over MPLS [1-8](#)
CEs
 security of the PE-CE interface [3-13](#)
Class-Based Tunnel Selection (CBTS) [4-8](#)
concurrent use
 overview [4-4, 6-7](#)
 with managed and unmanaged tunnels [4-4, 6-8](#)
conformant/non-conformant tunnels
 defining [4-3, 6-5](#)
 managing [4-4](#)
 overview [4-3, 6-4](#)
Connectivity Protection (CSPF) Backup Tunnels [4-8](#)
CSPF

Connectivity Protection Backup Tunnels [4-8](#)

D

devices
 suitable for TE Discovery [4-5](#)
 trusted devices [3-13](#)

E

ERS
 multipoint ERS (EVP-LAN) for an Ethernet-based provider core [1-19](#)
 multipoint ERS (EVP-LAN) for an MPLS-based provider core [1-16](#)
Ethernet relay service (ERS or EVPL) [1-5](#)
Ethernet wire service (EWS or EPL) [1-5](#)
EWS
 multipoint EWS (EP-LAN) for an Ethernet-based provider core [1-18](#)
 multipoint EWS (EP-LAN) for an MPLS-based provider core [1-16](#)
extranets [3-2](#)

F

frame relay over MPLS (FRoMPLS) [1-9](#)
FRoMPLS [1-9](#)
full mesh topologies [3-8](#)

H

hub and spoke topologies [3-7](#)

I

implementing, VRFs [3-4](#)

intranets [3-2](#)

ISC TEM

features [4-2, 6-4](#)

L

L2VPN

service provisioning [1-5](#)

terminology conventions [1-1](#)

L2VPN Ethernet over MPLS (ERS and EWS) (EPL and EVPL) [1-5](#)

label spoofing [3-12](#)

LDP authentication [3-14](#)

links

provisioning regular PE-CE links [2-6, 5-3, A-1](#)

locking mechanism [4-5](#)

M

managed/unmanaged primary tunnels [4-2](#)

managing

independent VRF objects [3-5](#)

MDE

features [2-6, 5-3](#)

MEF

mapping MEF terminologies to network technologies [1-3](#)

terminology conventions [1-1](#)

Metro Ethernet Forum (see MEF) [1-1](#)

MPLS VPNs

concepts [3-1](#)

security [3-8](#)

multiple concurrent users [4-4, 6-7](#)

multiple OSPF areas [4-5, 4-6](#)

multipoint

ERS (EVP-LAN) for an Ethernet-based provider core [1-19](#)

ERS (EVP-LAN) for an MPLS-based provider core [1-16](#)

EWS (EP-LAN) for an Ethernet-based provider core [1-18](#)

EWS (EP-LAN) for an MPLS-based provider core [1-16](#)

O

objective [ii-v](#)

OSPF areas

example of network [4-6](#)

multiple [4-5](#)

overview

MDE [2-1, 5-1](#)

P

PBTS

Policy-Based Tunnel Selection [4-9](#)

PEs

security of the PE-CE interface [3-13](#)

planning tools [4-7](#)

point-to-point

Ethernet (EWS and ERS) (EPL and EVPL) [1-5](#)

Policy-Based Tunnel Selection (PBTS) [4-9](#)

prerequisite knowledge [5-2](#)

providers

multipoint ERS (EVP-LAN) for an Ethernet-based provider core [1-19](#)

multipoint ERS (EVP-LAN) for an MPLS-based provider core [1-16](#)

multipoint EWS (EP-LAN) for an Ethernet-based provider core [1-18](#)

multipoint EWS (EP-LAN) for an MPLS-based provider core [1-16](#)

provisioning

regular PE-CE links [2-6, 5-3, A-1](#)

R

reactive fault lifecycle [5-1](#)

relay service, Ethernet [1-5](#)

route distinguishers [3-5](#)

route targets [3-5](#)

communities [3-6](#)

routing

authentication [3-13](#)

separation [3-8, 3-9](#)

routing protocols

securing [3-11](#)

S

security

ensuring VPN isolation [3-16](#)

hiding the MPLS core structure [3-9](#)

label spoofing [3-12](#)

LDP authentication [3-14](#)

MP-BGP security features [3-14](#)

MPLS VPNs [3-8](#)

of the PE-CE interface [3-13](#)

resistance to attacks [3-10](#)

securing the MPLS core [3-12](#)

securing the routing protocol [3-11](#)

security through IP address resolution [3-15](#)

separation of CE-PE links [3-13](#)

trusted devices [3-13](#)

service provisioning, for L2VPN [1-5](#)

L2VPN [1-1](#)

MEF [1-1, 1-3](#)

TE tunnels

concurrent use with managed and unmanaged tunnels [4-4, 6-8](#)

topologies

full mesh [3-8](#)

hub and spoke [3-7](#)

topology

for ATMoMPLS [1-8](#)

for Ethernet-based VPLS [1-19](#)

for FRoMPLS [1-9](#)

for L2VPN Ethernet over MPLS (ERS and EWS) (EPL and (EVPL) [1-5](#)

for MPLS-based VPLS [1-17](#)

V

VPLS

for an Ethernet-based (L2) provider core [1-18](#)

service provisioning [1-15](#)

topology for Ethernet-based VPLS [1-19](#)

topology for MPLS-based VPLS [1-17](#)

VPNs [3-1](#)

connectivity between VPNs [3-14](#)

ensuring VPN isolation [3-16](#)

VRF objects

independent VRF object management [3-5](#)

VRFs

implementation of [3-4](#)

VRF instance [3-5](#)

T

TE area identifier

TE Discovery [4-6](#)

TE Discovery

devices suitable for [4-5](#)

TE area identifier [4-6](#)

terminology conventions

