

Internet control and management protocols
RIP, OSPF, BGP, DVMRP, MOSPF

Traffic engineering with fault management and performance
management for Internet Transit Network

GMPLS Signaling+OAM/LMP

GMPLS Signaling for optical networks

Application

TCP/UDP

IP

NIC

IP

NIC

O-NIC
WDM

IP

MPLS

O-NIC
WDM

O-NIC
WDM

OXC

O-NIC
WDM

OXC

O-NIC
WDM

MPLS

O-NIC
WDM

LSP

fiber
bundle

Host A

IP router

MPLS LSR
(Edge)

OXC LSR
(Core)

OXC LSR
(Core)

PSC LSR
(opt. Core)