Evolution of the Client-Server Network

SONET/SDH is Managed Transport “Server” layer for existing service “clients”

IP builds over WDM

... so does Ethernet

... and ESCON, FC, λ services

WDM augments SONET/SDH capacity

OTN provides the necessary Managed Transparent Service for all Transport Clients
Carrier Transport Model

Multiple network domains within a global network
- Administrative and Operational Demarcation

Common UNI and E-NNI border interfaces
- Policy control over interfaces and information privacy between domains

Self-regulating functionality within each domain (I-NNI)
- Technology & Administrative Independence

International, carrier-driven standards
- G.ASON, GMPLS, Optical UNI/NNI
- OIF Interop Test Sites for G.ASON include AT&T, China Telecom, Deutsche Telekom, France Telecom, NTT, KDDI, Telecom Italia, and Verizon

I-NNI: Interior Network-Network Interface
E-NNI: Exterior Network-Network Interface
O-UNI: Optical User-Network Interface