OIF

ACCELERATING MARKET ADOPTION OF OPTICAL NETWORKING TECHNOLOGIES
PROJECT HIGHLIGHTS 2025

150+ Member Companies → Identifies Industry Needs and Gaps → Publishes Implementation Agreements (specifications), Requirements and White Papers → Performs Interoperability Demonstrations

OPTICAL

Multi-Vendor Interoperability in Client Form Factors

1600ZR+
• <1000km Multi-Span Coherent DWDM

1600ZR, 800ZR, 400ZR
• >80km Coherent DWDM

1600LR, 800LR
• <10km Coherent Point-to-Point

ENERGY EFFICIENT INTERFACES

Next Generation Low Latency Interfaces for AI/ML & Data Centers

• Compute Optics Interface (COI)
• RTLR (Retimed Tx, Linear Rx)
• External Laser Sources (ELSFP)
• Co-Packaged Modules (3.2T)
• CEI-Linear

PROTOCOL

FlexE
• More Efficient
• Agile Networking

MANAGEMENT

Common Management Interface Specification (CMIS)
• Single Solution Ranging From Copper to Coherent
• Simplified Bring up Between Host and Module
• Supports Standard and Custom Interfaces

ELECTRICAL

Common Electrical I/O (CEI)
• High-Speed Building Blocks
• 448G, 224G, 112G, 56G, 28G
• LR, MR, VSR, XSR+, XSR, MCM, Linear
• Protocol Agnostic Link Training

NETWORKING

Transport SDN APIs
• Automation, Programmability

Enhanced Network Operations
• Artificial Intelligence
• Digital Twin
• DC Storage and Optical Multi-Layer Coordination

OIF
• Member Driven Global Organization
• 25+ Years of Service
• 150+ Member Companies
• 80+ IAs (specifications)
• 65+ Interop Demos

FOR MORE INFORMATION, VISIT WWW.OIFORUM.COM/TECHNICAL-WORK/CURRENT-WORK/