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| **Contribution Number:** | oif2001.368 | | |
| **Working Group:** | Architecture | | |
| **Title:** | Optical UNI – Reference Model and Requirements | | |
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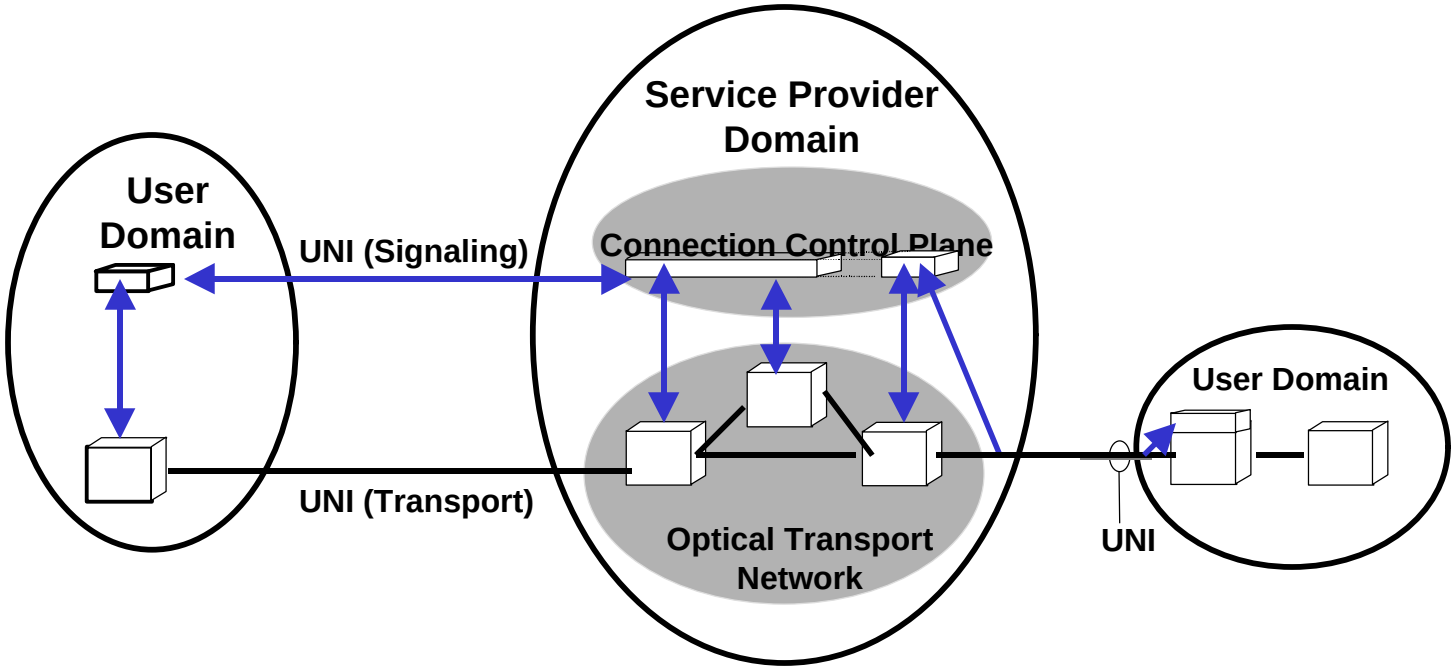
| **Date:** | July 23, 2001 | | |
| **Abstract:** | This contribution presents a reference model, applications, and unique requirements applicable to Optical UNI. | | |

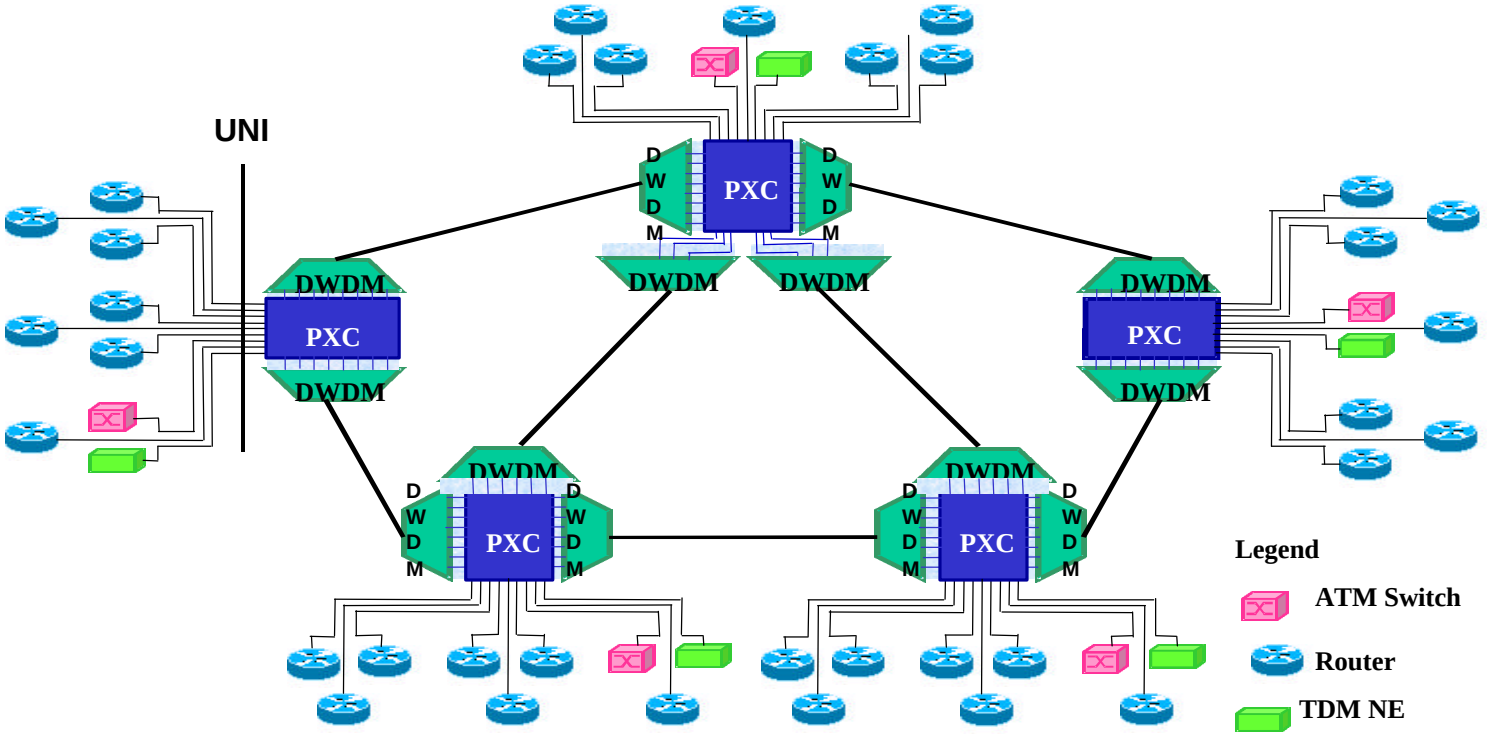
# Contribution objectives

- Specify UNI reference model with Photonic Cross-connect (PXC) (all optical)
- Specify reference applications
- Specify unique service types

# UNI Reference Diagram



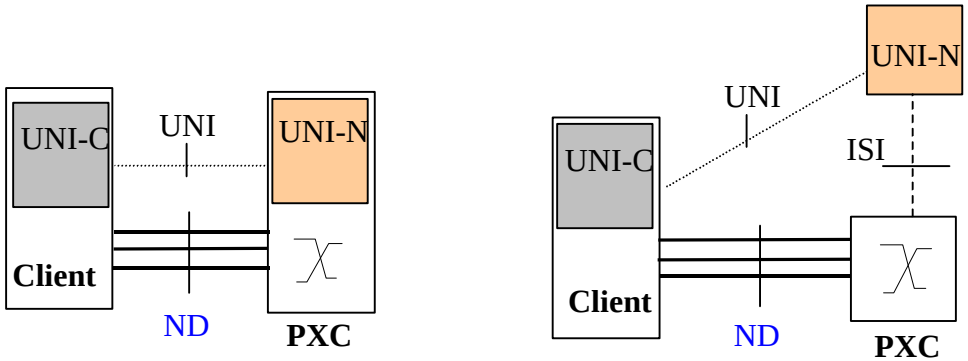
# Optical UNI Reference Model With Photonic Cross -connect



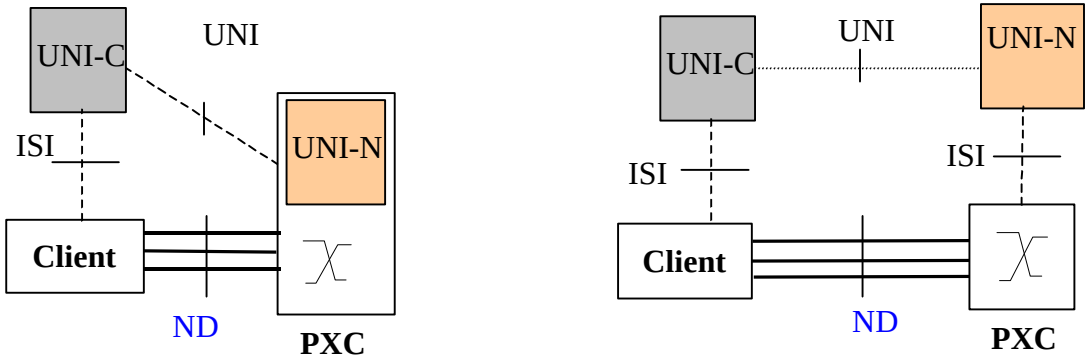
# Application References With Photonic Cross-connects

- Case 1:Wavelength conversion and regeneration
  - O/E/O at DWDM
  - O/E/O based regeneration
- Case 2:No Wavelength conversion or regeneration
  - Passive DWDM

# UNI Service Invocation Configurations




**Direct Service Invocation Configurations**




**Indirect Service Invocation Configurations**

# UNI Signaling Activities

- Association establishment
- Association deletion
- Status exchange

# Services Offered Over Optical UNI

- Connection creation & types
  - Single wavelength or wavelength band
  - User specified wavelength set or unspecified
  - If user unspecified, then network specified wavelength set or unspecified
- Connection deletion
- Connection status enquiry