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ZXONE 9700(E) ROADM【UME】

Content

ROADM Overview

Key Technologies of ROADM System

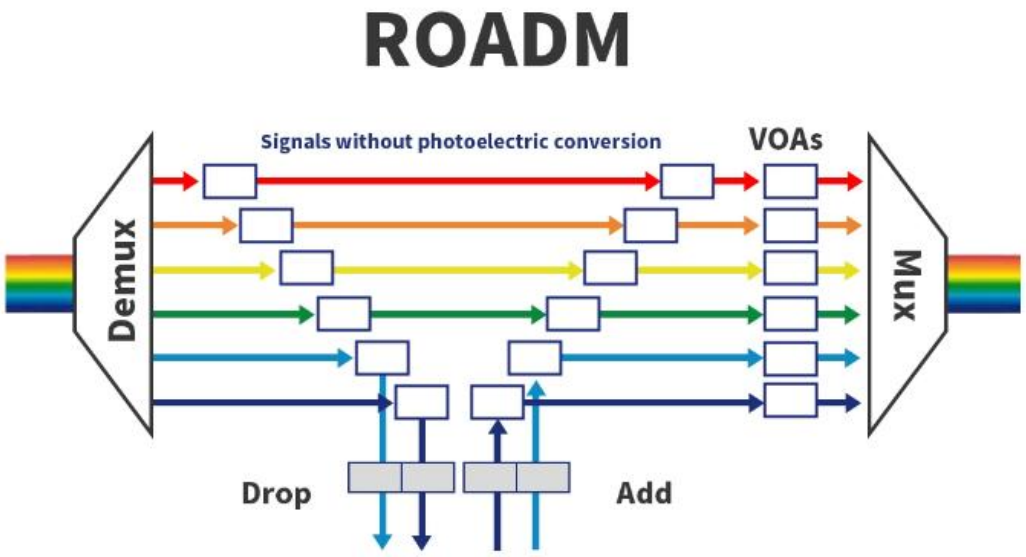
ROADM System Hardware Introduction

Introduction to Typical Signal Flow of ROADM System

ROADM Operations on UME

ROADM Overview

- ROADM： **Reconfigurable Optical Add and Drop Multiplexer.**
- The core purpose of introducing ROADM sites is to realize **flexible wavelength scheduling at the optical layer**. It can complete wavelength **pass through and add & drop without optical to electrical conversion**, addressing the pain point of slow service deployment on traditional sites and enabling rapid provisioning of large granularity services.
- Compared with the fixed type FOADM, ROADM supports software configurable wavelength add & drop 【**Network Management Configuration**】. FOADM only works with pre-defined wavelengths and requires hardware replacement for service modification.

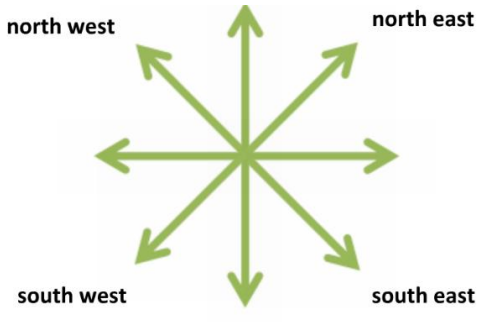


Comparison of Application Scenarios and Board Differences between ROADM and FOADM

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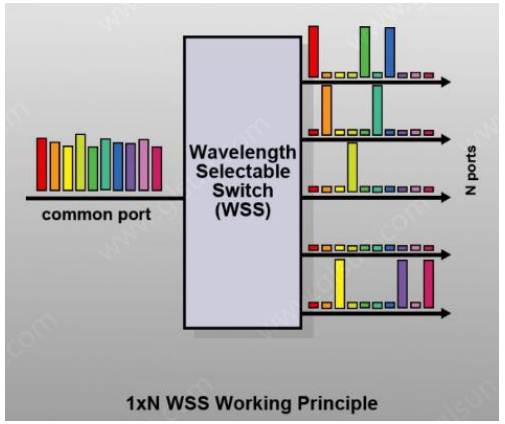
Scenario

ROADM is suitable for complex optical sites **with multiple directions**, supporting flexible wavelength scheduling for backbone and core nodes with frequent service changes. FOADM features fixed add & drop wavelengths, and applies to edge access nodes with few directions and stable services.



Board Difference

The **key distinction exists in MUX/DEMUX boards**. FOADM uses fixed filter MUX/DEMUX boards with static wavelength settings, requiring on site fiber re-patching for service adjustment. ROADM adopts WSS- based reconfigurable MUX/DEMUX boards to realize remote wavelength scheduling via network management without manual cabling.



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