

Compelling Advantages of Aurora's Node Segmentation

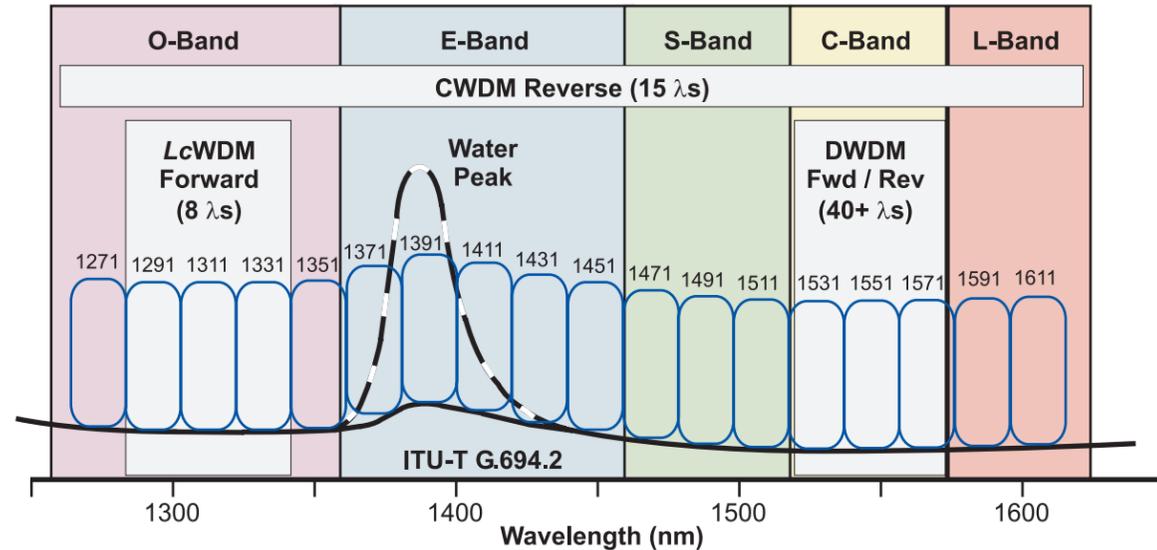
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Benefits of LcWDM

- Avoid the need for new fiber installation
- Increase segmentation in fiber-starved areas
- Reduce fiber construction for expansion projects
- Employ proven plans for quick and easy segmentation (typically accomplished by simply installing additional transmitters and receivers)
- Enjoy "pay as you grow" incremental build flexibility



Alternative Node Segmentation Technologies

For forward applications:

- **LcWDM** for low-cost and most node segmentation needs,
- **DWDM** for large capacity requirements, and
- **D²WDM** for topology-specific applications.

For reverse applications:

- **CWDM** optimized to meet most node segmentation needs, and
- **DWDM** for coverage over longer distances.



LcWDM[®]

Multiple Forward Wavelengths on a Single Fiber



A whole new light, growing brighter!

Aurora's solution for service area segmentation using LcWDM technology allows pursuit of new revenue streams by enabling the reuse of fiber up to eight times over distances up to 30 km. This field-proven segmentation technology is a powerful tool for MSOs that:

- Quadruples narrowcasting and return capacities
- Eliminates expensive fiber construction
- Enables targeted and rapid deployment
- Supports fiber reclamation for commercial services

When used in combination with Aurora's segmentable nodes and patented digital return technology, operators can cost-effectively expand delivery capacity to meet the demands of HDTV, VoIP, VOD and high-speed DOCSIS™ services.

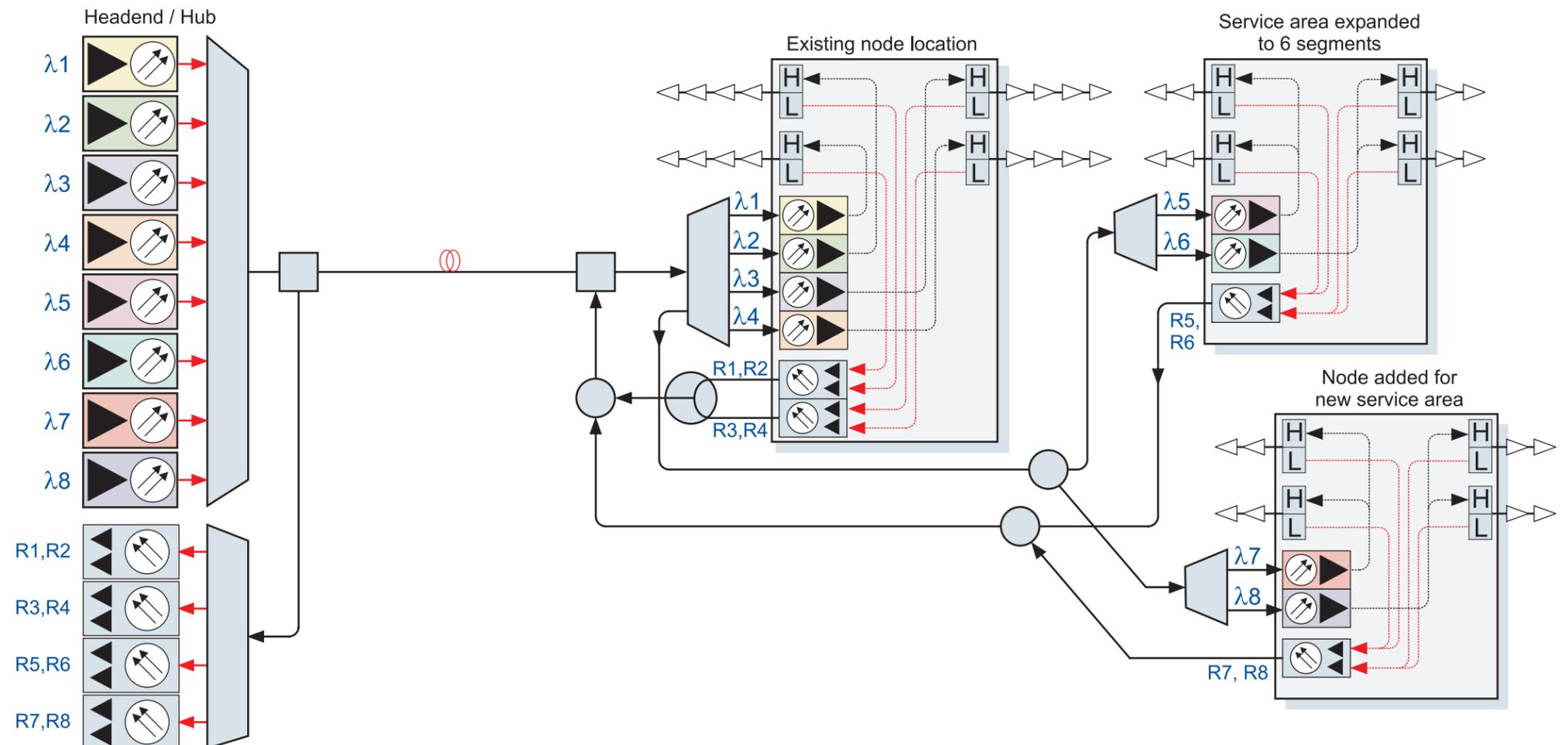
LcWDM Transmitters: Powerful Tool to Increase Fiber Capacity

Add LcWDM transmitters and a passive LcWDM multiplexer module to provide additional bandwidth per subscriber by further segmentation of a node service area from an initial single-transmitter deployment.

- Four segments available per node (plus up to four additional wavelengths)
- 1 GHz transmitters with dual RF input ports (for combining of broadcast/narrowcast signals) with AGC control
- Multiple models available with output power from 6 to 12 dBm
- Compatible with Aurora's 3000 series platform and Element Management System

LcWDM Optical Passives: A Complete Line of Products for Headend and Field Deployment

Supporting the LcWDM transmitters are a complete line of multiplexers, demultiplexers, and single-wavelength add/drop filters specifically designed to handle LcWDM wavelengths. In addition, a wide range of other optical passives are available to implement whatever architecture is most suitable for your application.



Full-Featured Segmentable Nodes: NC4000 Series for Demanding Operators

Ability to add receivers and LcWDM field filters to expand the service area's capabilities

- Up to four discrete forward and return paths, which scales to revenue
- Four high-level RF outputs, up to 53 dBmV @ 1 GHz
- Fully integrated node monitoring system at no additional cost
- Power supply and optical path redundancy options
- Remote return ingress control

Maximize Your Network Solution with Digital Return

Aurora's LcWDM segmentation solution also takes advantage of the benefits of an all-digital return over analog technologies, including better noise immunity for longer reaches, superior thermal and optical link stability for improved performance, and increased scalability to future-proof the network. The RF output level of a digital return receiver is independent of optical input power, providing output level stability in alternate routing configurations.