

# COMMON PHOTONIC LAYER



## Features and Benefits

- Features a modular architecture that scales incrementally: low initial first cost, low incremental cost
- Enables automatic continuous dynamic system optimization, without the need for user intervention
- Offers management on a per wavelength granularity with support for remote configurability: no stranded capacity anywhere
- Features ROADM (Reconfigurable Optical Add/Drop Multiplexing) for total network agility
- Enables significant CAPEX/OPEX savings through footprint, power efficiency and automation of complex tasks

Ciena's Common Photonic Layer is a self-optimizing, agile DWDM transport platform designed for cost-effective metro, regional and long-haul networks. Its modular design provides an extremely small initial/final footprint and delivers significantly lower power consumption compared to other solutions. The platform offers operational simplicity by providing a high level of automation that facilitates network planning, engineering, configuration and deployment as well as accelerates the setup of end-to-end wavelengths.

## Cost-optimized solution

CPL offers an initial system with a significantly small footprint that scales modularly and provides a pay-as-you-go structure that can grow as revenue-generating opportunities or capacity exhaust drive expansion of the network. Deployments can scale anywhere between 5 to 2000km reach and beyond, and from 2 to 88 wavelengths and beyond. Each site is deployed with the footprint that matches its required capacity without limiting future scalability. CPL allows a seamless evolution to 100 Gb/s-based networking over existing 10 Gb/s lines on any fiber type (new/old, clean/dirty) without network reengineering or the deployment of dispersion compensating modules.

## Open photonic networking

The Common Photonic Layer can be deployed in conjunction with Ciena's optical networking products, including: 6500 Packet-Optical Platform, 5200 Advanced Services Platform, and Optical Metro 3500. Furthermore, the platform supports other vendor network elements for open photonic interworking.