

ARTICLE

Why adaptive optical networks enable digital innovation and accelerate transformation

Overview

Faced with an unparalleled shift in business, such as working remotely, supply chains breaking, and rising customer expectations, enterprises now have an opportunity to:

A) Maintain their course with their legacy technology, or

B) Make their network more adaptive using optical technologies

While there are countless mitigating factors to consider, the decision will certainly have long-term implications for an enterprise's viability as a business.

Coinciding with this era of accelerated digital transformation is the rapid expansion and strategic importance of the CTO's role in the enterprise. The IT function has expanded to become a competitive ammunition for the business, driving exceptional value and business outcomes. This involves having a CTO migrate from traditional operations and reactionary disciplines to position themselves as the strategic, value-added business pioneers that today's new environment requires.

Part of achieving true enterprise agility will rest in an organization's ability to leverage the value and possibilities associated with adaptive optical networks. The service lifecycle applications controlling and providing insights into the network are equally important. The ability to self-design and activate optical services rapidly, create real-time visualization of the optical network topology, efficiently run network diagnostics, and receive proactive notification of network events and impairments – all accessed via a portal or API.

As a result, companies are choosing option B to make their network more adaptive using optical technologies and expand the business value for the digital enterprise.

The future is at our doorstep.



Achieve ultimate control and visibility into your network

Next-generation network capabilities and associated service lifecycle applications put the customer in control of their experience and enable previously unimagined agility. Enterprises can leverage self-service features to instantly spin up capacity, change/augment routing, and adjust on the fly in real time – giving them the ability to shape their connectivity and better align with digital infrastructure changes, driving better overall performance.

“An adaptive optical network, along with applications such as a network topology viewer and path computation engine, can provide the foundational attributes to ensure a business has the tools to not only to be successful today and tomorrow but also to greatly enhance the customer experience – which ultimately drives better outcomes,”

— Miriana Martinova,
Lumen, SVP, Core Network Solutions





Accelerate digital innovation and elevate your business outcomes with confidence

Digital innovation requires a strategic roadmap that facilitates rapid deployment but also leaves room for ‘failing fast’ and iterating quickly. Some CTOs may be hesitant to make a transformative shift, focusing on what could go wrong in the short term, which could overshadow the possibility for exponential long-term improvement.

For example, some CTOs may fear that putting a new application in production could crash if it uses more network resources than initially estimated.

Today’s adaptive optical wavelength networks can help accelerate successful application implementations, bolstering digital innovation while reducing execution risk. With portal and API controls at their fingertips, enterprises can flip between service activation and service assurance modes of their optical network topology, allowing CTOs to focus more on deploying applications versus spending time on core network-related activities. It reduces the fear factor associated with digital innovation, enabling CTOs to embrace change and expect positive business outcomes.

Optical wavelength networks can help pave the way for digital transformation, leading to more product innovation and ultimately, an exceptional customer experience.



Embrace network adaptability to facilitate unconstrained business agility

Adaptability is a decisive indicator between enterprises that thrive through change and those that merely endure it. To stay competitive, modern businesses need an intelligent optical network capable of fueling their technology stacks. Equally important, the service lifecycle applications tied to the intelligent optical network must enable the software-driven functionality necessary for the continual evolution required in the digital age.

Whatever “the next big thing” is, adaptive optical networks will help enterprises outpace change and enhancements to your digital platform.

Will you sit idly by, or will you make the move to unlimited agility?

[Contact Lumen](#) to schedule a network consultation and learn how your organization can harness optical networking to fulfill your digital transformation requirements.

About Lumen

Lumen is guided by our belief that humanity is at its best when technology advances the way we live and work. With approximately 400,000 route fiber miles and serving customers in more than 60 countries, we deliver the fastest, most secure platform for applications and data to help businesses, government and communities deliver amazing experiences.

This content is provided for informational purposes only and may require additional research and substantiation by the end user. In addition, the information is provided “as is” without any warranty or condition of any kind, either express or implied. Use of this information is at the end user’s own risk. Lumen does not warrant that the information will meet the end user’s requirements or that the implementation or usage of this information will result in the desired outcome of the end user.

In partnership with
ciena

800-871-9244 | lumen.com | info@lumen.com

Services not available everywhere. Business customers only. Lumen may change, cancel or substitute products and services, or vary them by service area at its sole discretion without notice. ©2023 Lumen Technologies. All Rights Reserved.

LUMEN[®]