

Tellabs® Optical Network Architecture and Design Services

Leverage Tellabs experience and expertise to plan for optimal network performance and maximum ROI at all stages of your network lifecycle.

Overview

Optical infrastructure represents a major part of the capital expense of a service provider network. Ensuring that the infrastructure plan is designed to be cost-effective, robust and flexible in meeting future needs is critical to achieving optimal return on investment.

Tellabs' expert architecture and design team will help you meet these objectives. Our approach utilizes proven tools and methodologies that are founded on extensive technical expertise and significant real-world deployment experience. Partnering with Tellabs can help you plan for optimal network performance at all stages of your network lifecycle, from predeployment and new service introduction to ongoing expansion.

Tellabs Optical Architecture and Design Services Portfolio

Network Architecture Service

- Detailed project plan
- Network topology, traffic and capacity patterns
- Network modeling and design
- High-level network design
- Management reporting packages

Network Design Service

- Engineering Design Package
- System configurations and site-level documentation of configuration parameters
- System installation requirements
- System integration requirements

Achieve Your Objectives

Leverage Tellabs experience to efficiently and effectively plan your optical solution. Our team of experts help achieve your objectives:

- *Minimize cost of ownership* — Maximize returns with minimal investments
- *Accelerate time-to-market* — Bypass the learning curve and speed up your ability to generate revenue
- *Sustain competitive advantage* — Establish a foundation for cost-effective daily operations that delivers superior performance and intelligent growth



Tellabs has significant, real-world experience in delivering DWDM lifecycle solutions from planning and deployment to ongoing operation.

Network Architecture

DWDM technology is significantly different from traditional SONET network technology and involves greater consideration of node and repeater locations and traffic demands. Therefore, the network architecture phase of your deployment requires an experienced, holistic approach to network design. The design of optical/DWDM core network transport systems must be approached in a forward-thinking way to produce a design that meets current needs and scales to support future growth.

Tellabs network architecture team combines theoretical design knowledge with practical implementation experience to provide a high-level network design and a physical implementation plan for the network. Leveraging our experience in optical transport network design, Tellabs works interactively with your team to create an effective network design and recommend industry best practices to support a secure, scalable, reliable and resilient network infrastructure.

Experienced senior consulting engineers perform an analysis and assessment of network status to identify system performance, security and application requirements, as well as Key Performance Indicators (KPI) and other elements necessary to build a solid foundation for the network implementation.

Tellabs Architecture Services approach includes:

- Detailed project plan
- Clear and comprehensive picture of network topology, traffic and capacity patterns
- End-to-end transport network modeling and design
- Network management considerations
- High-level network design including overall topology, network diagrams, and multivendor integration including project recommendations
- Management reporting packages

Tellabs Network Architecture Services are focused on directly impacting your bottom line:

- *Accelerate time-to-market* — With extensive knowledge of Tellabs and other vendor equipment, Tellabs optical network architecture team has the experience and expertise necessary to quickly and effectively transform your vision into a reality
- *Maximize resource utilization* — Tellabs experts will develop an architecture that will help ensure optimal use and management of your network resources
- *Improve return on investment* — Optimized network architectures combined with expert engineering supports faster deployments that can help maximize profits from investments



Tellabs combines theoretical design knowledge with practical implementation experience to ensure a secure, scalable, reliable and resilient network.

Network Design

Tellabs' experienced engineering staff, combined with world class tools and processes, offers end-to-end design expertise and helps to eliminate costly errors and redesigns. Utilizing the high-level design produced in the Network Architecture Service, Tellabs senior engineers develop a complete, implementation-ready engineering design package documenting the configuration parameters for Tellabs equipment at specific sites. By partnering with Tellabs for your detailed network design, you are able to take advantage of our expert resources and produce a comprehensive design solution that achieves your objectives while utilizing knowledge from past implementations and industry best practices.

Our approach includes:

- Engineering Design Package containing:
 - Detailed fiber maps
 - Detailed ring diagrams
 - Fiber characterization reports
 - Optical power budgets
 - Equipment elevations
 - Naming conventions (site names, node names, circuit IDs)
 - IP addressing for network management applications
- System installation requirements
- System integration requirements
- Detailed equipment lists and naming conventions
- Detailed Network Management System (NMS) information
- Progress reports and project documentation

Tellabs Network Design Services are focused on directly impacting your bottom line:

- *Improve Quality of Service (QoS)* — Help you meet service level agreements, achieve high performance levels with a well-configured network design and take full advantage of Tellabs equipment features
- *Reduce implementation costs* — Free up resources, reduce cost of maintaining in-house expertise, and eliminate the need to hire expertise in multiple protocols and vendor equipment
- *Simplify ongoing operation* — Provide your operations team with the detailed documentation and tools they need to manage site-level configurations quickly and efficiently

Ordering and Availability

Optical Network Architecture and Design Services can be customized to your specific requirements and are available to all carriers across the globe. For further information on these services, please consult your local Tellabs account manager or regional sales office.

Making Your Vision a Reality

There is no doubt that DWDM technology will allow new and exciting services that bring significant opportunities for revenue generation. However, deployment of this next evolution requires major investments from service operators who are already under intense pressures to reduce operating expenses and improve service quality.

Tellabs optical architecture and design team will help to ensure that your infrastructure plan is designed to be cost-effective, robust and flexible in meeting future needs — keeping you at the cutting edge of performance and reliability minimizing costs. Tellabs' proven track record of building carrier-class networks and superior customer focus is the first step to ensuring that your vision becomes reality.

Tellabs Global Services

Tellabs delivers over 30 years of experience planning, building and operating advanced network solutions for service providers around the world.

With a direct presence in Asia Pacific, Europe, Middle East and Africa, Latin America and Caribbean, and North America, Tellabs Global Services works closely with our customers to reduce time-to-market and lower the costs and complexity of planning, building and operating advanced networks.

About Tellabs

Tellabs advances telecommunications networks to meet the evolving needs of end-users. Broadband solutions from Tellabs helps enable service providers to deliver high-quality voice, video and data services over wireline and wireless networks around the world. Tellabs (NASDAQ: TLAB) is part of the NASDAQ-100 Index and the S&P 500.
www.tellabs.com



Tellabs optical networking integrated services portfolio is designed to deliver total project implementation for a complete, end-to-end solution.

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