

# 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

Network infrastructure represents a major part of the capital expense of an emerging technology rollout. 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. By partnering with Tellabs, you are able to plan for optimal network performance at all stages of your network lifecycle from pre-deployment and new service introduction to ongoing expansion.



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

## Tellabs Architecture and Design Services Portfolio

### *Network Architecture Services*

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

### *Network Design Services*

- 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 emerging technology solution. Our team of experts will help to ensure that your objectives are achieved:

- *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* — Ensure a cost-effective foundation for daily operations that delivers superior performance and intelligent growth

## Network Architecture

Today's emerging technologies are significantly different from last-generation networks and involve far more interactions between different parts of the system. Therefore, the network architecture phase of your deployment requires an experienced, holistic approach to network design. The design of radio, transmission, core network and applications must be approached in an integrated way for effective results.

Tellabs' network architecture team combines theoretical design knowledge with practical implementation experience to provide a high-level network design and a plan for the physical implementation of the network. Leveraging experience in next-generation network design, Tellabs works interactively with your team to create an effective network design and recommend industry best practices to ensure a secure, scalable, reliable, and resilient network infrastructure. Experienced senior consulting engineers analyze and assess network status to identify system performance, security, and application requirements, as well as Key Performance Indicators (KPIs) and other elements necessary to build a solid foundation for the network implementation.

Tellabs Network Architecture Services includes:

- Detailed project plan
- Clear and comprehensive picture of network topology and traffic and capacity patterns
- End-to-end IP network modeling and design
- Network management considerations
- High-level network design including overall topology, network diagrams, and multi-vendor 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 in Tellabs and other vendor equipment, Tellabs' architecture team has the experience and expertise necessary to quickly and effectively transform your vision into reality
- *Maximize resource utilization* — Our experts will develop an architecture that will ensure optimal use and management of your network resources
- *Improve return on investment* — Optimized network architectures combined with expert engineering allow faster deployments in order to 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:
  - Equipment layout and Layer 1 connections
  - Detailed configuration information
  - Naming conventions (site names, LSPs, circuits)
  - IP addressing for all regional routes
  - Layer 2 detailed design
  - Layer 3 detailed design
- Node configuration text files (running configurations)
- System installation requirements
- System integration requirements
- Detailed equipment lists and naming conventions
- Detailed Network Management System (NMS) information
- Protocol lists and their application to the design



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

Tellabs Network Architecture and Design Services can be customized to your specific requirements and are available to all wireless 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 next-generation technologies 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 Architecture and Design Services 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 while ensuring minimal cost. Tellabs proven track record of building carrier-class networks and superior customer focus is the first step to ensuring that your vision becomes a reality.

### About Tellabs Global Services

Tellabs Global Services delivers quantifiable results that help you succeed. Our deep expertise and specialized services help reduce costs, optimize performance, minimize risk, and speed time-to-market. We solve the complex business, technical and operational challenges you face in deploying advanced networks — anywhere in the world. Tellabs Global Services' reputation for providing a better customer experience is the result of an open and honest approach, the ability to provide an objective viewpoint, and dedication to customer satisfaction.

### About Tellabs

Tellabs innovations enable the mobile Internet and help our customers succeed. That's why 44 of the top 50 global communications service providers choose our mobile, optical, business and services solutions. We help them get ahead by adding revenue, reducing expenses and optimizing networks. Tellabs (Nasdaq: TLAB) is part of the NASDAQ Global Select Market, Ocean Tomo 300™ Patent Index, the S&P 500 and several corporate responsibility indexes including the Maplecroft Climate Innovation Index, FTSE4Good and eight FTSE KLD indexes.

#### North America

Tellabs  
One Tellabs Center  
1415 West Diehl Road  
Naperville, IL 60563  
U.S.A.  
+1 630 798 8800  
Fax: +1 630 798 2000

#### Asia Pacific

Tellabs  
3 Anson Road  
#14-01 Springleaf Tower  
Singapore 079909  
Republic of Singapore  
+65 6215 6411  
Fax: +65 6215 6422

#### Europe, Middle East & Africa

Tellabs  
Abbey Place  
24-28 Easton Street  
High Wycombe, Bucks  
HP11 1NT  
United Kingdom  
+44 871 574 7000  
Fax: +44 871 574 7151

#### Latin America & Caribbean

Tellabs  
1401 N.W. 136th Avenue  
Suite 202  
Sunrise, FL 33323  
U.S.A.  
+1 954 839 2800  
Fax: +1 954 839 2828