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# **Tellabs Optical LAN for Government Networks**

### A Fiber Network Solution for a Connected Future

More and more Government agencies are seeing the dramatic advantages that Passive Optical LANs have over traditional copper-based infrastructure. With the Optical LAN solution (currently based on G-PON and Ethernet) added to the DoD Joint Interoperability Test Command (JITC) certification APL more than seven years ago, Tellabs has demonstrated that the solution meets the strict security, reliability and scalability requirements that power our government's infrastructure. Tellabs Optical LAN solution is an innovative, field-proven cutting-edge solution to the growing network complexities and green mandates that challenge every agency.

#### **Recent Tellabs Optical LAN deployments:**

- U.S. Marines: Over 20 Camps, Posts, and Stations
- U.S. Army: Fort Huachuca Greely Hall NETCOM HQ, Fort Campbell, Army Intelligence and Security Command
- U.S. Navy: Joint Base Pearl Harbor-Hickam, Naval District Washington, Naval Computer and Telecommunications Stations
- U.S. Air Force: Joint Base Andrews
- U.S. Dept. of Homeland Security: St Elizabeth's Headquarters Campus
- U.S. Dept. of Energy: Sandia National Laboratory Campus
- U.S. Civilian Intelligence Community: Various Agencies
- U.S. Defense Intelligence Agency (DIA) Campus
- U.S. Defense Information Systems Agency (DISA): Global Operations Command Facility
- U.S. Department of State: Ronald Reagan Building
- U.S. Federal Aviation Administration: FAA DC Headquarters
- U.S. Forest Service: Headquarters DC Yates Building

Tellabs Government Systems helps to enable ultra-reliable communications that meet the mission-critical needs of government. Many of the world's largest telecommunications service providers trust Tellabs network solutions to provide their customers with reliable, quality services. More than three decades of engineering expertise and JITC-certified products make Tellabs an excellent partner to meet the needs of government.

#### **Standards and Certifications**

All Tellabs Optical system hardware and software have received the following government standards and certifications.

- BICSI TDMM 13th Edition
- TIA Standard 568.C
- DoD Unified Facilities Criteria
- Unified Capabilities Requirements (UCR)
- Joint Interoperability Test Command (JITC) UC APL
- Association for Passive Optical LAN (APOLAN)

## Passive Optical LAN Architecture Overview

#### Tellabs 1100 Series Optical Line Terminals (OLTs) Variety of OLT sizes for right size density, least energy and rack space usage

The goal of the Tellabs 1100 Series Optical Line Terminal is to lower capital expenditures, energy consumption and space requirements wherever possible. To accomplish that end goal, Tellabs provides a variety of OLT sizes to support small buildingto large miltary base requirements. Whether serving 200 Gigabit IP/Ethernet end points or serving 8,000 Gigabit IP/Ethernet end points, Tellabs can provide the right size distribution shelf for the lowest first cost CapEx, ongoing OpEx, energy use and space required.

#### **Tellabs Optical Network Terminals**

## A broad portfolio of choices to best result in lowest costs and optimize energy and space savings

Tellabs Optical Network Terminals (ONTs) design and development are built from over 10 years of high-volume PON commercial deployments. Tellabs' fourth-generation ONTs deliver modern high-performance LAN services cost effectively over a PON platform to the IP/Ethernet end points. This means that all services, including analog voice, VoIP, highspeed data, IP video and/or RF video, wireless access, building security, building surveillance and building automation end points, are supported natively over a single fiber.

# Optical LAN is a simple, stable, scalable, secure, sustainable and smart choice that saves you money.SimpleSecureSmart

- Centralized intelligence and management
- SDN like functionality defined in software
- Dynamically allocate network resources

#### Scalable

- Support higher port density in less space
- Eliminate technology rip-and-replace cycles
- Faster management of daily network tasks
- IT staff can be more efficient and accurate

- Improved cyber security posture
- Fewer vulnerability points
- Fewer devices to secure
- More secure infrastructure
- Fiber cabling is more secure than copper
- Assure consistent policies and procedures
- Reduce human touch and human error
- Less network downtime improves security

- Lower electronics cost
- Lower infrastructure cost
- Lower installation cost
- Lower annual support cost

#### Sustainable

- Lower power consumption
- Lower thermals
- Less space and materials requirements

**Modern high-performance Passive Optical LANs compared to decades old copper-based LANs** – Tellabs Passive Optical LAN solution simplifies your LAN while outperforming your old copper LAN. It converges all building networks across one infrastructure. This network convergence even includes wireless. Optical LAN improves sustainability to save energy positively impacts green initiatives. It strengthens security with stronger physical barriers. And Passive Optical LAN saves money; both capital costs on Day 1 and operational expenses year over year.



#### Sales

The complete suite of Tellabs solutions offers flexible, scalable products designed for the most challenging applications. For additional information about how Tellabs Government Systems can support and enhance the unique telecommunications needs of government, please call +1.800.690.2324.

## Take the next step. Contact Tellabs and Global Com today.



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