



Protection Solutions for Infrastructure and Assets

- Perimeter Fence
- Inside Cable Pathways
- Utility Pathways
- Maintenance Holes
- Outside Cable Pathways
- Outside Dig / Fiber Damage
- Ladder Rack
- Cage Perimeter
- Cage Doors
- Raised Floors
- Cabinet Door
- Security Camera Integration
- Passive RFID for asset tracking

Tellabs® Protect, A Better Way to Secure Critical Infrastructure

Tellabs Protect ensures 24/7/365 automated monitoring of access, assets and infrastructure security inside buildings and across campus

The status quo method for securing network pathways, and underlying corporate assets, is done with data encryption and hardened conduit. Even with that, the hardened conduit requires scheduled daily human visual inspections to ensure its integrity. This legacy means of securing the network and assets is reactive, prone to error and expensive.

Tellabs Protect is a more modern solution that offers software-based alarmed fiber cabling and sensor technology. It leverages alarmed armored fiber cabling, passive sensor technology and real-time centralized software-based management. This fiber-based innovation is proven across many enterprise markets because it ensures:

- **Proactive real-time visibility vs. reactive post-breach actions**
- **Physical inspections elimination improves accuracy and speed**
- **Lower cost versus data encryption and hardened conduit**

Proactive real-time visibility vs. reactive post-breach actions

Tellabs Protect offers real-time comprehensive property-wide visibility versus reactive post-breach limited visibility and actions. Perimeter fence, doors, floors and network cabling pathways can all be monitored proactively providing:

- **Greater Visibility**
- **Real Time Knowledge**
- **Immediate Action**
- **Data Theft Elimination**

Greater Visibility – This infrastructure protection solutions offers greater visibility than alternatives. Inside building, data center, telecom rooms, cables, cages, doors, floors and cabinets can be monitored. Outside buildings, perimeters, pathways, fences, enclosures and manholes can be secured.

Real Time Knowledge – With alarmed armored fiber cabling, passive sensor technology and real-time centralized software-based management, instant knowledge of an event is possible. Traditional methods have no knowledge of intrusion until after the physical inspection is completed.

Take Immediate Action – The real-time comprehensive property-wide visibility offers the ability to initiate counter-attack actions immediately. The bad actors can be located and the appropriate response initiated quickly and without delay.

Data Theft Elimination – This fast response ensures that the data theft is stopped before corporate assets have been compromised. By immediately identifying the unauthorized access under attack, the breach event can be blocked before the damage is done.

Alarmed Fiber Cabling

Both inside and outside optical plant fiber cabling infrastructure can make significant contributions to overall security. Fiber optic cabling is more secure than copper cabling. Fiber is not susceptible to interference nor does it introduce interference. With fiber, you have no cross-talk, no EMI, no RFI and no EMP. There are also options for armored, alarmed and 24/7/365 monitored fiber cabling.

With alarmed armored fiber cabling technology paired with real-time centralized software-based management, instant knowledge of an event is possible inside buildings and across an extended campus. It can detect manipulation, tap and cable damage while eliminating all nuisance and false alarms through auto-learning.

This technology provides alarm response dispatchers with an optical intrusion severity chart to allow the dispatchers to respond according to the severity of the optical intrusion. The fiber forensics chart measures specific metrics that correlate directly to fiber tap techniques to determine the severity of all optical intrusion attempts.



Fiber Sensor Technology

Protection starts with sensor technology that are fiber optic, require zero power, emit no signals, and are immune to electromagnetic and radio interference. Whenever fiber cuts, fiber loss, or any threat is detected, real-time alerts are sent to centralized software-based monitoring system.

These fiber optic sensors can monitor open, close, presence, and temperature.

- **Wall Sensor** - Measures Vibration & Movement, Flexible & easy to install, use Single Mode fiber cable
- **Manhole Sensor** - Measures Open/Close and dB Loss, Universal Mounting Bracket and IP68 rated
- **Lockbox/Cabinet Sensor** - Measures Open/Close and dB Loss, Adjustable Bracket and come in a small form factor
- **Floor Sensor** - Measures Tension & Strain, are not visible to intruders and visibility to movement in real time
- **RFID Sensor** - Passive RFID for asset tracking



Physical inspections elimination improves accuracy and speed

Physical inspections can take the form of security personnel patrolling the premises and more formalized security processes like Protected Distribution Systems (PDS) inspections. Tellabs Protect eliminates the need for physical inspections, which improves accuracy and speed of implementing security procedures. This is possible because Tellabs Protect is:

- **Software-Based and Automated**
- **More Accurate and Consistent**
- **Offers Rapid Troubleshooting**
- **Accepted Security Standards**

Software-Based and Automated – Since Tellabs Protect is software-based, this centralizes and automates the management. The result is 24/7/365 automated monitoring of access, assets and infrastructure security inside buildings and across campus.

More Accurate and Consistent – By eliminating human touch points, security policies and procedures can be implemented in a more accurate and consistent manner. By reducing the possibility for human error, this directly improves breach mitigation.

Offers Rapid Troubleshooting – Another bi-product of centralized, software-based automation is having rapid troubleshooting with alarms and response triggers in seconds. Again, this too ensures more accurate and consistent security procedures are met.

Accepted Security Standards – The Tellabs Protect can be implemented as part of a strict Risk Management Framework (RMF) and it is compliant with National Security Systems Instruction (CNSSI 7003).

Lower cost versus data encryption and hardened conduit

Without proactive security programs, corporations are unnecessarily exposing themselves to financial risks that can add up to millions of dollars if a breach occurs. Not only does the Tellabs Protect solutions help fight the risk of breach, it does so with lower cost versus data encryption and hardened conduit. This is accomplished through:

- **Reduced Labor**
- **Lower OpEx**
- **Flexible Design**

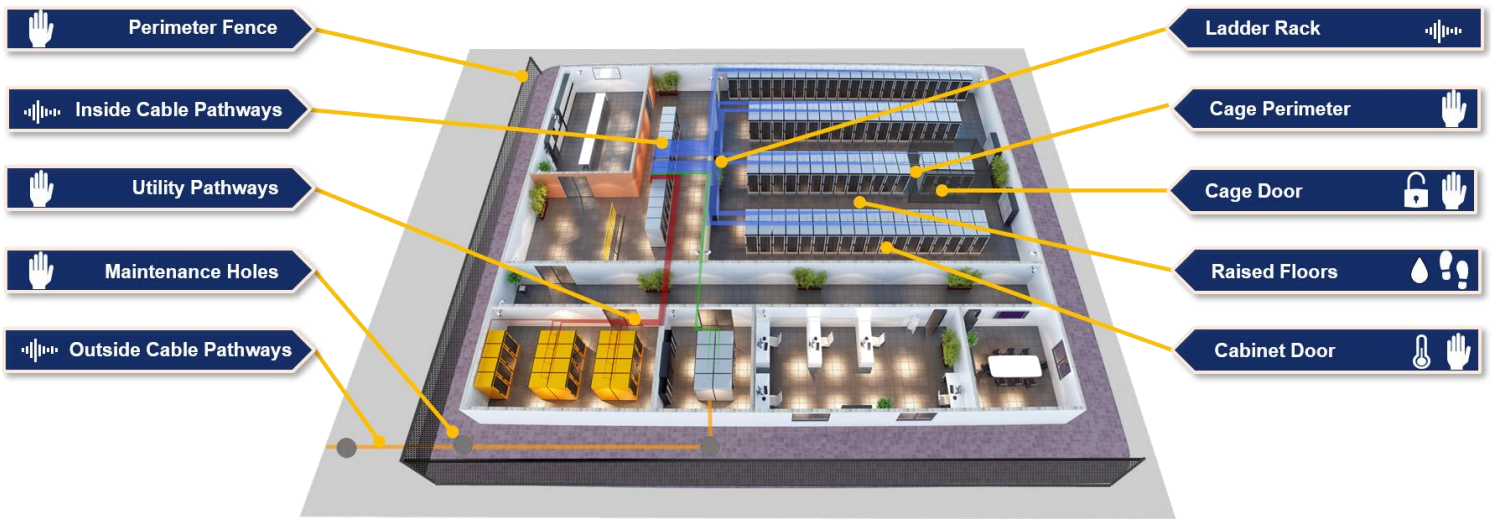
Reduced Labor – With automated monitoring of access, assets and infrastructure security, no labor is required for scheduling daily PDS inspections. This also help security staff shift their time and resources away from the mundane repeatable tasks and focuses them on other corporate priorities.

Lower OpEx – By leveraging automated monitoring of access, assets and infrastructure security inside buildings and across campus, this in return greatly reduced operational costs which pays dividends year over year.

Flexible Design – The software-based and fiber-based architecture leads to very flexible design choices for protecting many different infrastructures types. Tellabs Protect is ideal for Federal Government, Department of Defense, Intelligence and Civilian Agencies, in addition to State and Local Governments, and including Smart Cities, Commercial Enterprise, all of which enhance Smart Buildings initiatives.

Tellabs Protect is a better way to secure critical infrastructure and assets!

Tellabs Protect ensures 24/7/365 automated monitoring of access, assets and infrastructure security inside buildings and across campus. It provides proactive real-time visibility, better accuracy, improves speed and lower cost. Tellabs Protect is a better way to secure critical infrastructure and assets.



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