

Deployable Wireless Solutions

Mission Critical Wireless Connectivity

SECURE WIRELESS FOR BOOTS ON THE GROUND

With the increase in today's modern IT mobility requirements as dictated by the Federal Government, first-responder teams, and military units on the front lines, the ability to have reach back communications is not only a top priority but a mission critical necessity. As a result of such military forces and other high-speed modular entities depending on consistent connectivity to mobile convoys, aircrafts, ships, and remote locations, LTI Datacomm has engineered and packaged a variety of secure, portable, and reliable solutions to meet the specific needs of harsh environments, limited power availability, and increased bandwidth requirements to ensure the connectivity of forward forces.

For more than 30 years, LTI DataComm has been providing its customers with a wide range of turn-key, secure wireless solutions that include a variety of technology such as traditional Wi-Fi 802.11 access, custom engineered multi-radio, full mesh networks, interconnecting LAN's (Local Area Networks) with high capacity point-to-point microwave backhaul links, and even providing Broadband Wireless Access (BWA). LTI DataComm understands that while the demand for such access has been increasing, customers are faced with tighter budgets and reduced resources. In an effort to provide the maximum amount of resources in the most efficient way possible, LTI has developed appropriate solution(s) for today's missions which take full advantage of existing tools, knowledge, and network resources to cost-effectively address ease of deployment and security issues.

LTI Datacomm has developed a comprehensive inventory of partners which meet and exceed the demand for a wide variety of deployments and/or environments. Whether the need is instant connectivity to a remote location, building out a self-healing, portable, on the move mesh network, or securing a mobile network with strong FIPS-validated encryption algorithms such as AES 128/192/256 and 802.1X authentication, our engineers and our partners can meet the mission requirements.

WIRELESS PLATFORM ON A SECURE PEER-TO-PEER ARCHITECTURE

Through LTI's extensive partner portfolio, we can offer dedicated wireless infrastructure and software designed from the ground up to create a highly versatile wireless communications platform which integrates perfectly with many of our other partners and current customer deployments.

This approach integrates numerous technologies and capabilities into a single communication platform built on a secure peer-to-peer architecture. Furthermore, it implements FIPS certified Layer 2 AES encryption to protect both the data in transit and the network itself, complying with the various government wireless and security policies, also to include the National Security Agency's (NSA) Suite B cryptography. The Suite B initiative is intended to provide industry with a common set of cryptographic algorithms that can be used to create products that meet the widest range of US Government needs.



Solution Overview



LTI's ability to embody all the various technologies we are in view of on a day to day basis allows us as Federal Integrators to engineer and facilitate a **complete working solution** that can and will meet the requirements of our customers.

Our engineers conduct **extensive interoperability testing** with each product to be certain that the solution fits the network architecture of every component.

Solution Overview



Until now, only Type 1 products were approved for classified use. With prior NSA approval, Suite B products may be used to protect classified information (SECRET and/or Top Secret) in certain applications. Since this solution works at Layer 2 in the OSI Model it is media independent, which makes it very resilient. You can secure voice, video, and data communications anywhere, anyhow – WiFi (802.11), WiMAX (802.16), Free Space Optics (FSO), Military bands, Ethernet (802.3), etc.

PORTABLE MESH WIRELESS NETWORKS

Another solution offered is an advanced technology that creates portable meshed wireless networks that can **rapidly reconfigure** and **adapt** in real-time. These standards-based wireless networks are highly mobile, self-configuring, and self-healing. This solution has been developed to overcome some of the inherent complexities in wireless networking through the development of their Wireless Local Area Network devices.

Each device offers network extensibility and redundancy that are not available in any other networking solutions. The integration of the product offers unique traits in portability and non-line-of-site networking nodes which intelligently route and broadcast in standard unlicensed 802.11 protocols. The advantage of using this solution is especially valuable for users needing equipment moved easily and rapidly into and out of the theatre of operations with uninterrupted network availability. The main differentiators that set it apart from the competitors are mobility (continuous availability), simplicity, and ability to properly load balance and power options. This autonomous network is completely portable and can easily support roving nodes and sensors over the span of several miles). In the case of existing fixed infrastructure networks, the mesh network complements the solution by extending the network and capabilities into areas previously untouched by the original product.

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