

LANTRONIX[®]

INDUSTRY:

Banking & Finance



Success Highlights:

- Improved ATM security with real-time monitoring
- Reduced tampering and sabotage attempts
- Decreased robbery incidents
- Safer environment for ATM customers
- Adherence to strict regulations



Case Study Overview:

Lantronix E210 routers help customer Argus Secure Technologies deliver an Automated Teller Machine (ATM) management solution for a globally known bank. Designed to provide a secure, optimized and low-cost video and alarm monitoring system, the Lantronix solution enables effective management of the bank's ATM network.

“ We chose Lantronix E210 routers for use in our customer's 1,000 ATM branches. The routers quickly and reliably transmit video and data to ensure security of the ATMs.”

– Anshul Ramani, Argus Secure Technologies

Challenge: Securely Transmit Video and Data 24/7

Each ATM requires an advanced security system to detect tampering, sabotage attempts and robbery. The system is comprised of an IP camera for video surveillance and motion detection sensors. The video and sensor data must be transmitted in real-time to a central control center via a high-speed router over VPN.

Argus Secure Technologies was challenged to find a reliable, secure and durable router that would meet the real-time video requirements of its ATM security solution. The router needed to be able to reliably and securely transmit large amounts of data originating from a high-resolution camera to the bank's central control center on a 24/7 uninterrupted basis.

The router had to enable the entire video and data stream to be transmitted over the bank's secure Virtual Private Network (VPN), not the unsecured public Internet. As well, it had to meet the banking industry's strict regulatory requirements.



Product:

E210 Series Routers

Lantronix E210 series routers (E214#078) are designed for mission-critical enterprise applications that require faultless connectivity. Lantronix E210 is a highly versatile, reliable and rugged series of routers.

Product Highlights

- 4G LTE and 3G Cellular/wired WAN/LAN/Wi-Fi
- RS-232 interface
- 8 V dc ~ 32 V dc power input
- Advanced failover and load balancing
- Wi-Fi Access point mode as well as Client mode with multiple SSIDs
- Multiple tunneling scheme
- SMS event reporting
- User-friendly GUI
- OTA configuration management via D2Sphere

For more information:
www.lantronix.com/products/e210-series-routers/

Solution: Lantronix E210 Reliable, Secure and Durable Router

To provide live video streaming and data transition for the ATM security solution, Argus Secure Technologies chose Lantronix's communication solution, the Lantronix E210 router (E214#078 4G Cat 1). Using the Lantronix E210 router, the bank's 1,000+ ATM locations are able to send 24/7 live video streaming to the central control center.

24/7 Live Video Streaming — Each ATM hosts one IP camera that is positioned to capture the faces of the ATM users. The router also transmits data from security alarm sensors such as outer door open/close and ATM cash door open/close.

Fast Transmission Speeds — The Lantronix E210 router has a 4G air transfer speed of 10MBPS downlink and 5MBPS uplink and also features a fallback on 3G HSPA, which makes live streaming possible from the IP cameras.

Reliability and Security — Dual sim and built-in intelligence, including a network connectivity watchdog, helps to maintain a very high level of uptime with minimal interruptions. IPsec VPN provides a highly secured path for the data to be transmitted to the bank's control center.

“ We have been impressed with the reliability, quality and durability of Lantronix E210 routers, which provide stable wireless communication over 4G. ”

– Anshul Ramani, Argus Secure Technologies

Results: a Secure, Reliable, Regulatory-Compliant Solution

With the Lantronix E210 routers, the bank can monitor its 1,000+ ATMs on a real-time basis. Receiving the video and data in real-time enables the command center to detect any malicious intent and report to regional security officers for rapid action.

At each ATM location, the Lantronix E210 router quickly transfers video at high data rates and also transfers data from the alarm panel, showing when the outer door is open or closed as well as when the cash door is open or closed.

Benefits Include:

- Real-time ATM monitoring, improving security
- Ability to immediately respond to tampering, sabotage or robbery attempts
- Increased environment safety for ATM users
- Adherence to strict regulations

About Argus Secure Technologies

Founded in 2012, Argus Secure Technology LLC is a woman-owned small business (WOSB) providing information technology services and specializing in computer network defense (CND). Serving agencies and organizations throughout the DoD, IC, Government and Commercial space, Argus understands the people, processes and technologies necessary to combat an ever-changing cyber threat landscape.



Lantronix E210 Router Features

- Monitoring of ATM-related security systems
- Real-time video and alarms
- High-speed, low-latency communication access
- WAN options for communication redundancy, load balancing and WAN binding
- Digital door detection and alarms
- VNP — IP SEC, GRE, L2TP
- Remote Server IP binding
- Stateful package inspection and Syn flood protection
- D2Sphere Device Management

About Lantronix

Lantronix, Inc. is a global provider of hardware and software solutions for the Internet of Things (IoT) and Out-of-Band Management (OOBM). Lantronix's solutions are deployed inside millions of machines at data centers, offices, and remote sites serving a wide range of industries, including energy, agriculture, medical, security, manufacturing, distribution, transportation, retail, financial, environmental, and government.

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