Lantech, a Well-Known Industrial Network Manufacturer in Taiwan, Successfully Obtained the IEC 62443-4-2 International Certification for OS5 Generation Products

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Lantech Communications Global Inc. are pleased to announce, as a leading manufacturer of industrial networking solutions, the company's OS5 generation products have successfully obtained the certification of the international standard IEC 62443-4-2, which is the technical security requirements for IACS components.

With the creation of diversified applications by new technologies such as 5G, artificial intelligence AI, and industrial Internet of Things IIoT, the networking of industrial networking equipment has become the cornerstone of various smart applications, facing ever-increasing information security challenges. Lantech has been committed to the pursuit of network security for a long time, integrating with international standards through this standard to complete the construction of an information security defense system. Lantech OS5 generation products were successfully awarded the International Certification of IEC 62443-4-2 by the IECEE-certified organization, Certificate No. FRCyber10275 issued by Bureau Veritas LCIE.

IEC 62443 is a key standard for network security, and it is currently the only industrial control network security standard applicable to various industries in the world. Today this standard has been adopted by many industries, such as rail transportation, smart buildings, smart cities, energy, and utilities, etc. This standard defines components, systems, and solutions for the industrial control industry. Part 4-2 of the standard

details the technical security requirements for IACS components. Obtaining this standard means Lantech has the ability to design industrial network components compliant with Security Level SL2.

Certification Technical Details

This certification covers *Lantech OS5 generation switches*, passing rigorous assessments in Identification & Authentication Control (13P/9N/22T), Use Control (10P/11N/21T), System Integrity (10P/9N/19T), Data Confidentiality (3P/2N/5T), Restricted Data Flow (1P/3N/4T), Timely Response to Events (2P/1N/3T), Resource Availability (9P/2N/11T), with Network Device at 10P/12N/22T, demonstrating comprehensive cybersecurity for embedded and host devices. The SL2 level ensures resilience against moderate threats, ideal for critical infrastructure like rail transit and smart cities.

Security Importance and Lantech Advantages

In OT environments, cybersecurity vulnerabilities can cause production downtime or significant losses; IEC 62443-4-2 strengthens technical protections at the component level for end-to-end security. Lantech OS5 generation products build on IEC 62443-4-1 development lifecycle certification (FRCyber10088) and achieve SL2 via 4-2 technicals, featuring advanced authentication, encryption, intrusion prevention, and rapid patching.

Lantech Pioneering Security Switch SL3 Solution

Lantech pushes cybersecurity boundaries with Security Switch under development for highest SL3 capability, compliant with BSI TR-02102-4 and RF 8572 standards, featuring:

- **Cryptographic Integrity**: SSH/TLS crypto algorithms, USM/TSM key management, MAC authentication
- **System Resilience**: Secure logging, tamper protection, fail-safe design
- **Secure Management**: SSH admin interface, RBAC access control, audit trails

This SL3 solution targets rail control centers, energy SCADA and other highest-security scenarios, delivering unmatched protection for mission-critical continuity. Lantech integrates OOB out-of-band management and resilient design, ensuring high-reliability applications like rail and bus maintain network uptime, boosting customer ROI and complying with global regs like NIS2.

Lantech

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The company comprehensively assists various industries to strengthen industrial control and information security protection, creating a safer OT environment for critical infrastructure. Lantech complies with the IEC 62443-4-2 international standard and introduces safety standards throughout product development and life cycle. This standard is applied to all aspects of the product design, specification, hardware firmware development, testing, as well as repairs and responses to security vulnerabilities after production.

Lantech has followed the security regulations to strengthen and improve product quality and protect information security, enabling identification and mitigation of risks with customers. Information security issues in the industrial control industry are receiving increased attention. Lantech believes that after obtaining the credible IEC 62443-4-2 certification, customers will see the company's commitment to building trust. In addition to becoming an important part of the company's competitiveness, the concept of information security can also be deeply rooted in the corporate culture, providing customers with more secure and guaranteed industrial-grade networking products.

The achievement of IEC 62443-4-2 certification by Lantech is just the beginning, and the company will continue to improve information security resilience for industrial control.

About Lantech

Lantech Communications Global, Inc. is an IRIS ITxPT and APTA (American Public Transportation Association) member certified manufacturer of Ethernet products focused on the transportation markets, bus, train, trackside, ITS, smart city and many more applications. Our range of onboard EN50155 E-Marked Ethernet switches wireless LTE routers offer cutting edge design and functionality. We continue to work with our key customers in creating further enhancements developments in on board passenger information, video security, trackside data communications by providing rugged 10GbE, PoE managed Ethernet switches, LTE Wi-Fi routers in line with ITxPT and E-Marked certifications for various applications and critical solutions.