IoT leader, AvaLAN Wireless, Solves Wireless Network Security PCI 3.0 Compliance for one of the World's Largest Retailers

Cyber threats are among the most significant challenges the IoT (Internet of Things) world faces. This is especially true for the retail industry and its requirement to protect confidential customer information. Recent widely publicized security breaches at large national retailers have underscored this issue and the potential costs of failure. The retail industry is highly competitive and maintaining customer confidence is critical to customer retention.

AvaLAN Wireless, a leader in secure wireless Ethernet networking solutions, was contacted by one of the world's largest retailers to discuss ideas for architecting the company's next generation secure wireless network. Compliance to PCI 3.0 was a top priority for the retailer as well as seamless integration into their existing remotely managed network infrastructure. AvaLAN and its team of engineers addressed the opportunity with a desire to play a leading role in this major retailer's next generation solution.

The AvaLAN team responded quickly to all aspects of deploying the customized secure wireless network including special firmware and hardware to support SSL certificates, VLAN packet handling and TFTP capabilities. These unique features insured a secure optimized wireless network for in store mobile POS, confidential banking information and for other networked devices. AvaLAN worked closely with the retailer to address all aspects of the total design including rigorous penetration testing by a network security firm. Once the network penetration testing was completed, initial in-store testing began in the fall of 2013. At this time, all integration aspects began to take shape as more issues and questions were discovered and further addressed. The result has been an extremely secure and reliable in-store wireless network.
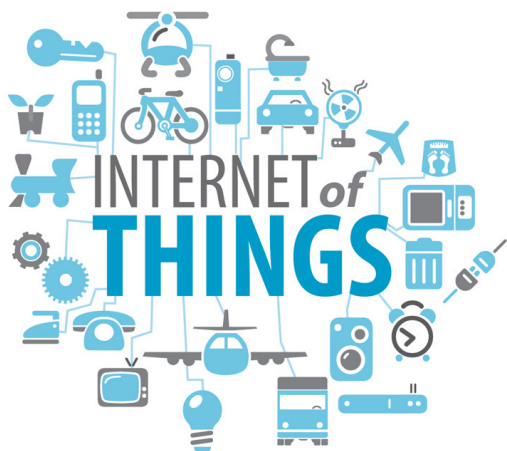
This winning partnership between AvaLAN and the retailer is based on an in depth knowledge of wireless technology and network security, as related to real world business critical applications, PCI 3.0 requirements, and seamless reliable network integration. The unique combination of these technologies and the ability to deliver a fully customized solution has made AvaLAN a leader in the IoT networking industry. AvaLAN is pleased to become a trusted partner to this large retailer and is currently engaged in similar strategic projects with some of the largest industry players for other vertical markets that include Smart Grid, Digital Signage, Video Surveillance, and Industrial Sensor Networks where wireless security and reliability are the primary concerns.

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