



WLAN PRODUCT DEVELOPMENT

Overview

Enterprise and Carrier WiFi equipment market is seeing a surge in demand with proliferation of connected devices, cloud computing and social applications. However, this has thrown up new challenges for WiFi equipment manufacturers to deliver highly secured WLAN products that integrate seamlessly with wired and cellular infrastructure, and ensure an uninterrupted user experience across a wide range of applications.

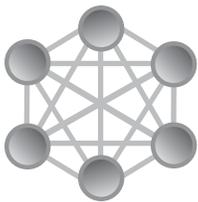
Enterprises, large and small, are looking for differentiated products that are right-sized for the organization in terms of hardware, application QoS and security requirements, while reducing the configuration and management overheads for network administrators.

Our Services

ALLEN Calsoft Labs offers product engineering services to WLAN equipment manufacturers across the product lifecycle. Our services address the needs of OEMs, ODMs and semiconductor vendors in new technology development, feature enhancement, test & QA and product maintenance.

With about 15 years of rich experience in WLAN product development covering SOHO, Enterprise and Carrier WiFi products, ALLEN Calsoft Labs brings a deep understanding of the domain, appreciation of technical challenges and an expert engineering team that has worked on some of the industry leading WLAN Controllers, Access Points, Mesh Nodes, Multi-service switches and EMS/NMS software.

Areas of Expertise



WLAN Mesh Networking

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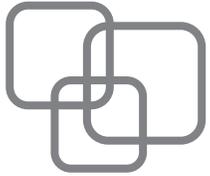
WLAN Security Enhancements

Proliferation of WiFi connected devices and BYOD pose a major security challenge to enterprises. ALLEN Calsoft Labs is working with leading OEMs in security enhancements that includes 802.1X authentication, Per-User VLANs, User/Device Identity management, Content-aware Firewall, QoS and Bandwidth management and Policy-based Mobility management.



Enhance QoS for Real time applications

ALTEN Calsoft Labs has expertise in 802.11e MAC layer QoS enhancements to support Toll-quality voice and streaming media in large distributed enterprises with combination of 802.11b/g/n and fixed terminals. This includes enhancements to support Policy-based control of traffic flows based on signal quality, available bandwidth, user profile, device type and application.



WLAN controller Virtualization (vWLAN)

Virtual WLAN controllers offer greater scalability, higher reliability and lower TCO to enterprise customers. ALTEN Calsoft Labs brings strong engineering expertise in virtualization and software-defined networking to WLAN product manufacturers. Having delivered industry leading products such as Virtual ADCs supporting up to 320 instances, industry-first OpenFlow enabled switches, etc.; ALTEN Calsoft Labs can bring tremendous value to product engineering engagements in vWLAN.



WLAN Product Testing

ALTEN Calsoft Labs offers WLAN Controller and AP testing services covering both whitebox and blackbox testing for Enterprise and Carrier WiFi products. Our services include

- ▶ Test Suite Design and Development, Test Automation development
- ▶ Feature testing, Protocol conformance testing for various 802.11 extensions
- ▶ System testing including Security, Performance, Stress and Load testing
- ▶ Pre-certification and Interoperability testing with major equipment vendors

Our long standing relationships with key Test equipment providers, silicon vendors and OEMs and expertise in Agile methodologies allow us to offer additional value to customers.



WLAN Management Software

ALTEN Calsoft Labs has 15+ years of experience in working with customers in EMS/NMS software development covering a wide spectrum of networking and WLAN products. Our expertise covers development, testing and maintenance for CLI/Web-based EMS/NMS systems (based on SNMP, Java/XML/SOAP, WSDL, etc) and Cloud-based Service Provisioning platforms.

Why ALTEN Calsoft Labs?

- End-to-end WLAN product development experience including pre-certification.
- Expert engineering team available on-demand for onsite, near-shore or offshore deployment.
- Mature processes for product development and testing with rich experience in Agile methodologies.
- Flexible business models with YoY cost savings.
- Relationships with leading silicon vendors.
- IP providers and Test & measurement companies.

ABOUT ALTEN CALSOFT LABS

ALTEN Calsoft Labs is a next gen digital transformation, enterprise IT and product engineering services provider. The company enables clients innovate, integrate, and transform their business by leveraging disruptive technologies like mobility, big data, analytics, cloud, IoT and software-defined networking (SDN/NFV). ALTEN Calsoft Labs provides concept to market offerings for industry verticals like education, healthcare, networking & telecom, hi-tech, ISV and retail. Headquartered in Bangalore, India, the company has offices in US, Europe and Singapore. ALTEN Calsoft Labs is a part of ALTEN group, a leader in technology consulting and engineering services.

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