Overview

The explosive growth of Wi-Fi enabled devices are forcing enterprises and service providers to rapidly scale the WLAN network administration and management infrastructure, implement fine-grained security and QoS policies, and ensure seamless mobility.

Virtual WLAN (vWLAN) Controllers helps large enterprises address scalability challenges, ease BYOD administration, and implement enhanced security, IDS, content filtering and application-aware QoS policies.

**Calsoft Labs Virtual WLAN Controller solution**

Calsoft Labs offers a Virtual WLAN Controller solution based on the “central control, distributed forwarding” model for lightweight management, control and authentication of Wi-Fi services.

The solution is integrated with Calsoft Labs’ NFVOps orchestration framework for automated service provisioning, service fulfilment and end-to-end service quality assurance. It offers scale elasticity, management and control of Access Points (APs) across multiple sites and geographic locations.

<table>
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<th>KEY FEATURES</th>
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<tr>
<td>– Centralized Management</td>
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<td>– Dynamic RF Management</td>
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<td>– Fast Roaming</td>
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<td>– Hot Standby for High Availability</td>
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<td>– Load Balancing</td>
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<td>– Optimal Channel Selection</td>
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<td>– Transmit (TX) Power Adjustment</td>
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<td>– Ability to scale up or down the number of APs support</td>
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With about 15 years of rich experience in networking product development and deployment across access, metro and core networks, Calsoft Labs brings a deep understanding of the domain, appreciation of deployment challenges, and an expert engineering team that has worked on Virtual WLAN Controller deployments.

To request a demo please write to sdn@calsoftlabs.com
Calsoft Labs Services

Calsoft Labs is one of the few companies with expertise in vWLAN Controller development, testing, deployment and orchestration in private/hybrid cloud environments. We offer following services:

- vWLAN Controller architecture, implementation and testing for Private and Public clouds
- L4-L7 enhancements to support fine-grained Security/QoS policy enforcement
- Intel® DPDK based performance optimization
- OpenStack™ orchestration of vWLAN controller for optimal use of resources, Failover/HA and integration with service provisioning/admin portals
- Network management system development for heterogeneous physical and virtual networks

Wireless Internet Service Providers (WISPs) can leverage NFV and SDN to provide better security and user experience (QoE) to Wi-Fi users. Calsoft Labs also helps WISPs roll out differentiated services based on application, device type or subscriber type, and improve service assurance. Our services to WISPs/Hotspot operators include:

- Virtual Network Function (VNF) development, testing and roll out of Public Access Control (PAC) Gateway or VPN Gateway with L4-7 intelligence
- PAC Gateway enhancements for user and location-aware QoS, bandwidth management, fine-grained policy enforcement and charging
- Develop, integrate and deploy SDN applications for network visibility and control, load balancing and traffic management
- Leverage Network Intelligence to improve service monitoring and service assurance in heterogeneous networks

Partners

About Us

Calsoft Labs offers product engineering, systems integration and operations support services to OEMs, ISVs and Telecom operators in advanced technologies. Calsoft Labs is a pioneer in NFV and SDN with a track record of having delivered one of the industry’s first commercially deployed Virtual CPE solutions, OpenFlow switches and SDN applications.

Calsoft Labs is a wholly owned subsidiary of the €1.2 Billion ALTEN Group, a leader in Technology Consulting and Engineering in Aerospace, Telecom, Transportation, Energy and Financial services markets. Founded in 1988, ALTEN has over 16000 employees across 16 countries worldwide.

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