

Avaya WLAN Orchestration System

Overview

The Avaya WLAN Orchestration System (WOS) is a wireless network management platform that provides full monitoring and management of the Avaya WLAN 9100 Series network via a web based application with graphical map views. WOS scales from small to large networks and from one location to multiple locations, as well as large campus environments with thousands of wireless users. WOS provides help desk, as well as network operations and management capabilities for the Avaya WLAN 9100 Series network. WOS has a flexible license scheme based on the size of the wireless network, and is available as an application to run on legacy Windows Server systems, as well as a virtualized server environment.

At A Glance

- Web based implementation, monitoring and management of a Avaya WLAN 9100 Series network
- Single management application for small to large
- Monitor wireless network performance, traffic and client stations
- Manage configuration of the wireless network and management system
- Configuration templates for bulk configuration changes
- Automated installation and configuration of WLAN 9100 Series allowing simplified deployment of AP
- Graphical maps showing wireless coverage heat maps, devices and location
- Comprehensive management reports on Wireless Network benefits and performance
- Security monitoring, alerting and mitigation for rogues and security events
- Software Image and license management for WLAN 9100 APs
- Troubleshooting tools, packet capture and reports to resolve connectivity and performance issues
- Global Search feature to easily find information such as stations (e.g. IP, MAC address, type) and APs
- Web based management of application for easy updates and server management

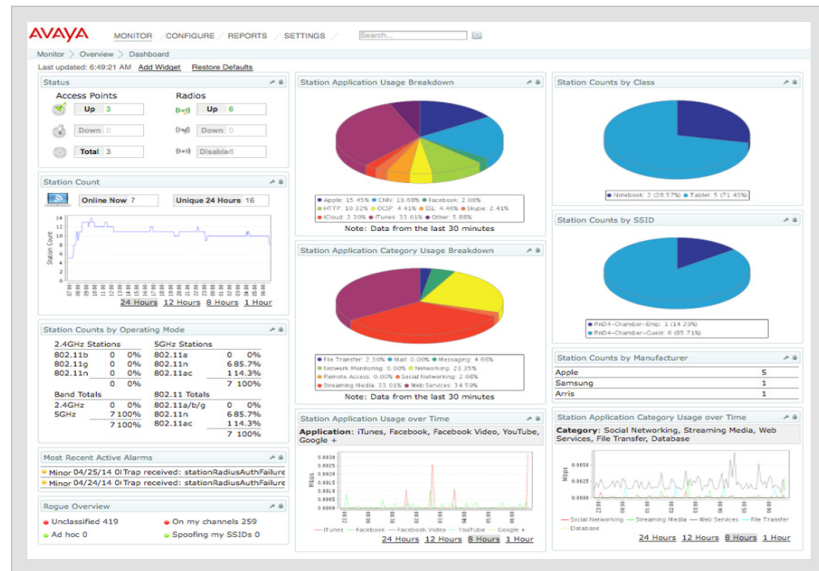
Monitoring Views

Dashboard View

Summary view of Avaya WLAN 9100 Series that is widget based. Each widget shows different summary statistics such as AP/SSID status information, security

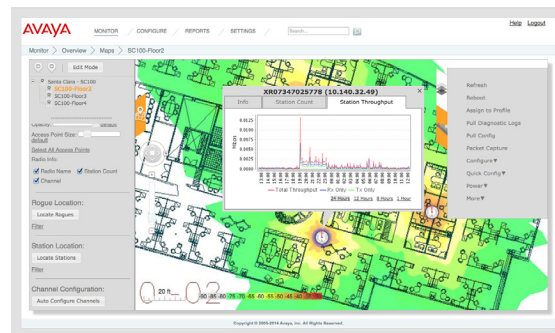


status, and station information. The Dashboard view is fully customizable to add or remove desired widgets, select data categories displayed, and change the widget layout on a per user basis.



Maps View

View hierarchical maps showing floor plans or images for each location with Avaya AP placement and selectable layered information views with configurable filters for information displayed. Locate associated stations (user and client device) as well as rogue devices. View AP information as well as associated station information. Perform AP functions directly from maps view, such as packet capture and configuration.



APs View

Customizable view showing discovered APs with selectable information for each AP and ability to drill down into detailed AP view as well as perform operations on AP. Ability to add/remove and sort on columns with preferences stored for each user. APs may also be in groups, allowing views and operations on a per group basis.



Modular IAP View

Customizable view showing Modular IAP information with drill down into detailed IAP view showing radio settings, traffic statistics and stations associated.

SSID View

Customizable view showing SSID's enabled on wireless network, with number of APs and stations associated to the SSID. Drill down into individual SSID's for detailed view with performance statistics,

Stations View

Customizable view showing stations associated to the wireless network, with selectable columns, sorting and order. Drill down into individual station information, as well as ability to "Deauthenticate" or "Locate" station.

Security Monitoring

Rogues View

Customizable view showing potential rogue access points, with SSID, BSSID, channel and band being used, device manufacturer, signal strength, and security settings, IP address, and other relevant information. Ability to classify and locate rogues on map.

Wireless Intrusion Detection Security View

Customizable view listing security events by type, detected by Arrays, with time detected, mac address of device and SSID.

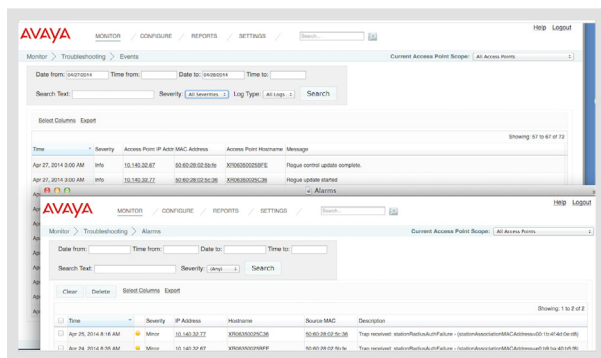
Troubleshooting

Station Assurance

Customizable view showing station assurance events, with station information and association details, and alarm type, such as SNR, Distance, data rate and authentication.

Alarms View

Customizable SNMP alarm view with filtering of alarms by type, severity and time range. Alarm information and description with severity of alarm, and ability to clear or delete the alarm.



Events View

Customizable Syslog message view, with log entry severity, source device information and message details. Filterable by date and time range and severity.



Power Injector View

Customizable view of managed Power over Ethernet (PoE) injectors, with address information and software version for each managed PoE injector. Ability to power on/off APs via Avaya WLAN Orchestration System using Managed PoE injectors.

Packet Capture

WOS provides management interface to AP packet capture capabilities, including filtering, and upload to WOS for decode using the pcap format.

Packet Capture Parameters

Capture Source	☒ WiFi Channel 1 Bond ☐ off ☐ Network	
Stop Capture	Time (mm:ss) 00 : 10 Or ☐ Stop after Packet Count 10	
002.11 Filter	☒ Management ☒ Control ☒ Data ☐ BSSID Separator can be ; or -	
MAC Address Filter	☐ Source Separator can be ; or - ☒ And ☐ Or ☐ Destination Separator can be ; or - ☐ Ether Separator can be ; or -	
IP Address Filter	☐ Source Example: 1.2.3.4 ☒ And ☐ Or ☐ Destination Example: 1.2.3.4 ☐ Ether Example: 1.2.3.4	
Protocol Filter	☐ UDP Protocol: ☐ TCP Protocol: ☐ ICMP Protocol: * For UDP/TCP port enter either an integer in the range 1-65535 or a protocol name e.g. smtp or http	
Protocol Filter	Show Advanced Filter	
OK Cancel		

Configuration management

Provides configuration management of APs, with configuration file management, configuration templates, as well as wireless and network configuration management for individual or multiple APs.

Software Management

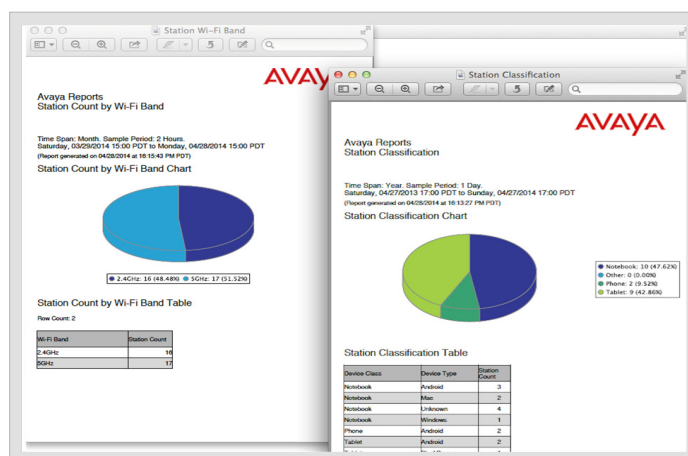
Allows deployment of new software to one or more APs, or groups of APs for centralized management of AP software.

License Management

Allows easy management of AP licenses with import and export capabilities. The WLAN Orchestration System is licensed based on the number of access points. It consumes one license for the 2-radio AP and two licenses for the 4-radio AP.

Reporting

Create and view reports, customize reports with custom report headers. Email and download reports in PDF, XLS and CSV format. Choose from various Traffic, Station, AP, RF and Security reports. Run reports on a schedule or on demand basis.



WOS Application Management

Allows easy management of WOS users, roles, licenses, database backup, trap notification email settings, and also WOS application upgrades.

WOS Specifications and Sizing Guidelines

The system and virtual machine requirements to run WOS varies with each individual installation. Various factors such as station (client) count, the frequency of inter-AP/AP roaming, the number of rogue APs “seen” by the system, and the general variability of the Wi-Fi environment will all impact the following sizing guidelines. Please refer to the latest WLAN release notes for WOS sizing guidelines.

About Avaya

Avaya is a leading, global provider of customer and team engagement solutions and services available in a variety of flexible on-premise and cloud deployment options. Avaya's fabric-based networking solutions help simplify and accelerate the deployment of business critical applications and services. For more information, please visit www.avaya.com.

