



AVAYA WLAN ACCESS POINT 9123

(REGULATORY MODEL WAP9103)

The Avaya WLAN Access Point 9123 is a high performance 802.11n (software upgradeable to 802.11ac) Access Point (AP). It is part of the next generation Avaya wireless portfolio that delivers wired-like performance and predictability. It supports application QoS enforcement within the AP to provide a high quality user experience and ensure that business critical applications are not impacted by personal applications. Additionally, Avaya unified access offers automated provisioning of APs and end clients/users while extending Avaya's Fabric intelligence all the way to the APs.

Overview

The WLAN Access Point 9123 is a high performance 802.11n (software upgradeable to 802.11ac), Dual Radio, 3x3 Multiple Input / Multiple Output (MIMO) access point. With a powerful integrated controller, application-level intelligence, automated provisioning and cloud management, the WLAN AP 9123 is the ideal solution for providing robust wireless connectivity for enterprise environments. The Access Points are managed centrally by the Avaya WLAN Orchestration System.

At A Glance

- Dual radio 3x3 802.11n AP with 900 Mbps total Wi-Fi bandwidth
- Software Upgradeable to 802.11ac
- Two software programmable radios for mixed 2.4/5GHz or dual concurrent 5GHz operation
- 802.11n speed optimization
- Integrated omni-directional, internal antennas
- Supports up to 240 users with 2 – 1Gbps uplinks
- Integrated Controller
- On-premise or cloud-based (future) management

from the Wi-Fi network. Firewall, apply QoS, and manage 1,300 (and growing) individual or groups of applications under 15 categories using Layer 7 Deep Packet Inspection (DPI) and other contextual application detection techniques.

2.4GHz Optimization

Extended radio power control range enables reduced 2.4GHz cell size coverage to optimize channel reuse in dense scenarios and improve user capacity. The Honeypot feature helps increase available wireless device density through management of spurious association traffic.

Key Benefits

Application Control

Ensure that the applications you care about get the best possible services

5GHz Optimization

With its 2.4GHz and 5GHz radios (both software programmable to either band), the WLAN AP 9123 will help you easily

make the transition to a 5GHz centric network, when you are ready.

Client Optimization

AP 9123 identifies station capabilities based on fingerprinting and automatically groups devices by performance. It works on all modes (802.11a/b/g/n) and bands (2.4GHz and 5GHz). This results in improved performance for every WLAN client and optimized use of wireless radio resources. AP 9123 considers factors including wireless band, number of spatial streams, 802.11n capability, and signal to noise ratio.

Bonjour Director Support

Extend Apple Bonjour protocols across Layer 3 boundaries for simple setup and configuration of commonly used shared Apple services such as Airplay and Airprint.

Bring Your Own Device (BYOD)

Integration with Avaya Identity Engines allows guests and employees alike to use personal wireless devices while the WLAN AP 9123 enforces appropriate access policies.

Discreet Aesthetics

At just 7.7" in diameter, the WLAN AP 9123 is designed to be compact and aesthetically pleasing.

Automated Provisioning

Avaya’s holistic Unified Access solution provides automated identification and provisioning of APs by extending its innovative Fabric technology to the wireless edge.

Configuration Specifications

	WLAN AP 9123
Chassis Size	7.7"
Total Radios	2
Radio Type	Two Software Programmable Radios (2.4GHz or 5GHz)
Maximum Wi-Fi Bandwidth	900 Mbps (With 802.11ac license the max bandwidth is 2.6 Gbps)
Number of Integrated Antennas	6 integrated antennas
Max Wi-Fi Backhaul	450 Mbps
Gigabit Ethernet Uplink Ports	2 ports supports 4 different operating modes: • IEEE 802.3ad link aggregation • Daisy chaining (bridge) • Port mirroring (traffic duplication) • Client connectivity (phone, printer etc.)
Maximum Associated Users	384 (192 per radio)
Radio Interface	PCI-Express
Power Requirements	IEEE 802.3at PoE+ Power
Mean Time Between Failure (MTBF)	456346 hours



Technical Specifications

FEATURE	SPECIFICATIONS	
CPU	OCTEON® III CN70XX Quad-Core Embedded Processors	
Installed Memory	1GB	
RF Management	In-band per radio Spectrum Analysis Dynamic channel configuration Dynamic cell size configuration Wired and wireless packet captures (including 802.11 headers) Radio assurance for radio self test and healing RF monitor 2.4 & 5.0GHz Honeypot Control – Increase available 2.4 and 5GHz wireless device density through management of spurious association traffic Ultra Low Power Mode – Maximize wireless channel re-use and increase wireless device density through tight power controls	
Wireless Protocols	IEEE 802.11a, 802.11b, 802.11d, 802.11e, 802.11g, 802.11h, 802.11i, 802.11j, 802.11k, 802.11n	
Wired Protocols	IEEE 802.3 10-BASE-T, IEEE 802.3u 100BASE-TX, 1000BASE-T, IEEE 802.3ab 1000BASE-T IEEE 802.1Q – VLAN Tagging IEEE 802.1D – Spanning Tree IEEE 802.1p – Layer 2 Traffic Prioritization IPv6 Control – Increase wireless device density through control of unnecessary IPv6 traffic on IPv4-only networks IEEE 802.3ad – Link Aggregation	
RFC Support	RFC 768 UDP RFC 791 IP RFC 2460 IPV6 (Bridging only) RFC 792 ICMP RFC 793 TCP	RFC 826 ARP RFC 1122 Requirements for internet hosts – communication layers RFC 1542 BOOTP RFC 2131 DHCP
Security	WPA™ – Enterprise, Personal WPA2™ – Enterprise, Personal EAP Type(s) EAP-TLS EAP-TTLS/MSCHAPv2 PEAPv0/EAP-MSCHAPv2	PEAPv1/EAP-GTC EAP-SIM EAP-AKA EAP-AKA Prime EAP-FAST Protected Management Frames
Encryption Types	Open, WEP, TKIP-MIC: RC4 40, 104 and 128-bit SSL v3.0 and TLS v1.0: RC4 128-bit and RDA 1024 and 2048-bit	

Avaya WLAN AP 9123 Receive Sensitivity

RATE	2.4GHz RX SENSITIVITY (dBm)	5.0GHz RX SENSITIVITY (dBm)
802.11a		
6Mbps		-92
9Mbps		-92
12Mbps		-91
18Mbps		-90
24Mbps		-87
36Mbps		-83
48Mbps		-79
54Mbps		-78
802.11b		
1Mbps	-91	
2Mbps	-91	
5.5Mbps	-93	
11Mbps	-93	
802.11g		
6Mbps	-93	
9Mbps	-93	
12Mbps	-92	
18Mbps	-91	
24Mbps	-90	
36Mbps	-88	
48Mbps	-83	
54Mbps	-80	
802.11n HT20		
MCS 0	-93	-93
MCS 1	-93	-90
MCS 2	-92	-88
MCS 3	-88	-85
MCS 4	-86	-81
MCS 5	-82	-77
MCS 6	-80	-76
MCS 7	-79	-75
MCS 8	-95	-93
MCS 9	-92	-90
MCS 10	-89	-88
MCS 11	-87	-85

RATE	2.4GHz RX SENSITIVITY (dBm)	5.0GHz RX SENSITIVITY (dBm)
MCS 12	-83	-81
MCS 13	-79	-77
MCS 14	-78	-76
MCS 15	-76	-75
MCS 16	-92	-93
MCS 17	-91	-90
MCS 18	-89	-88
MCS 19	-86	-85
MCS 20	-82	-81
MCS 21	-78	-77
MCS 22	-77	-76
MCS 23	-76	-75
802.11n HT40		
MCS 0	-93	-91
MCS 1	-92	-88
MCS 2	-90	-86
MCS 3	-87	-83
MCS 4	-84	-79
MCS 5	-80	-75
MCS 6	-78	-74
MCS 7	-77	-73
MCS 8	-92	-90
MCS 9	-89	-87
MCS 10	-87	-85
MCS 11	-84	-82
MCS 12	-81	-78
MCS 13	-77	-74
MCS 14	-75	-73
MCS 15	-74	-72
MCS 16	-91	-90
MCS 17	-88	-87
MCS 18	-86	-85
MCS 19	-83	-82
MCS 20	-79	-78
MCS 21	-75	-74
MCS 22	-74	-73
MCS 23	-73	-72

Avaya WLAN AP 9123 Specifications

FEATURE	SPECIFICATIONS	
Authentication	802.1X Extensible Authentication Protocol RFC 2548 Microsoft vendor-specific RADIUS attributes RFC 2716 PPP EAP-TLS RFC 2865 RADIUS Authentication RFC 2866 RADIUS Accounting RFC 2867 Tunnel Accounting RFC 2869 RADIUS Extensions RFC 3576 Dynamic Authorizations extensions to RADIUS RFC 3579 RADIUS Support for EAP RFC 3748 EAP-PEAP RFC 5216 EAP-TLS	RFC 5281 EAP-TTLS RFC 2284 EAP-GTC RFC 4186 EAP-SIM RFC 4187 EAP-AKA RFC 3748 LEAP Pass through RFC 3748 Extensible Authentication Protocol Web Page Authentication • WPR, Landing Page, Redirect • Support for Internal WPR, Landing Page and Authentication • Support for External WPR, Landing Page and Authentication
Regulatory Compliance	UL 60950-1, CAN/CSA - C22.2 No. 60950-1, IEC 60950-1, EN 60950-1 FCC Part 15, Subpart B, ICES 003, EN 55022/24 Class B FCC part 15C, FCC Part 15E, RSS-210 EN 300 328, EN 301 893	EN 301 489-1/17 R & TTE Directive 1999/5/EC EN 50385 EN 301 893 V1.6.1 EN 60601-1-2
Physical Specifications	Dimensions (WxDxH): 1.96 x 7.70 x 7.70	Weight: 1.6lbs
Environmental Specifications	Operating Temperature: 0-40C, 0-90% humidity, non-condensing, altitude 0-2000m Non-Operating Temperature: 0-60C, 0-95% humidity, non-condensing	
Channel Support 2.4GHz (Exact channels available will be based on country code selected)	1 2 3 4 5 6 7 8 9 10 11 12 13 14	
Channel Support 5GHz (Exact channels available will be based on country code selected)	UNII-1 - Non DFS Channels 36 40 44 48 UNII-2A - DFS Channels 52 56 60 64	UNII-2C - DFS Channels 100 104 108 112 116 120 124 128 132 136 140 UNII-3 - Non DFS Channels 149 153 157 161 165
Management Interfaces	Command Line Interface (CLI); Web Interface (HTTP and HTTPS)	Avaya Wireless Orchestration System (WOS)
Management Protocols and Standards	SNMP v1 SNMPv2c as per RFCs 1901, 2580 SNMPv3 as per RFC 3410-3415 RFC 854 Telnet RFC 1155 Management Information for TCP/IP Based Internets RFC 1156 MIB RFC 1157 SNMP RFC 1212 Concise MIB Definitions RFC 1213 SNMP MIB II RFC 1215 A Convention for Defining Traps for use with the SNMP RFC 1350 TFTP RFC 1643 Ethernet MIB RFC 2030 Simple Network Time Protocol SNTP RFC 2578 Structure of Management Information Version 2 (SMIv2) RFC 2579 Textual Conventions for SMIv2 RFC 2616 HTTP 1.1 RFC 2665 Definitions of Managed Objects for the Ethernet Like Interface Types	RFC 2674 Definitions of Managed Objects for Bridges with Traffic Classes, Multicast Filtering and Virtual LAN Extensions RFC 2819 Remote Network Monitoring Management Information Base RFC 2863 The Interface Group MIB RFC 3164 BSD Syslog Protocol RFC 3414 User-based Security Model (USM) for version 3 of the Simple Network Management Protocol (SNMPv3) RFC 3416 Version 2 of the Protocol Operations for the Simple Network Management Protocol (SNMP) RFC 3417 Transport Mappings for the Simple Network Management Protocol (SNMP) RFC 3418 Management Information Base (MIB) for the Simple Network Management Protocol (SNMP) RFC 3584 Coexistence between Version 1, Version 2, and Version 3 of the Internet-standard Network Management Framework RFC 3636 Definitions of Managed Objects for IEEE MIBs Integration with Splunk for accurate search and analysis of intra-organizational IT events Netflow Export v9 and IPFIX compatibility allows for IP traffic statistics collection

FEATURE	SPECIFICATIONS	
Gain	2.4 Gbps: 4.20 dBi	5 Gbps: 5.6 dBi
Maximum Transmit Power	2.4 Gbps: 17 dBm	5 Gbps: 15 dBm
Antenna Patterns	2.4 Gbps, Horizontal WAP9123/9133 2.4 GHz Azimuth (Horizontal)	5 Gbps, Horizontal WAP9123/9133 5 GHz Azimuth (Horizontal)
	2.4 Gbps, Vertical WAP9123/9133 2.4 GHz Elevation (Vertical)	5 Gbps, Vertical WAP9123/9133 5 GHz Elevation (Vertical)

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.

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