

Access Controller
BWRACWALL
Security**Mobility Services****Management & Control****Specifications****Authentication**

- Complete local AAA authentication, including 802.1X, as primary or backup to centralized AAA server.
- Assigns and enforces per-user authorization policies that are managed centrally from the AAA back-end.
- Authorizations include VPN, personal firewall filters etc.
- IEEE 802.1x with multiple EAP types (TLS, PEAP, MSCHAP, TTLS, L2TP)
- Captive portal and Guest Access with 3,000 unique username and passwords.
- Multiple VLAN per SSID and multiple captive portal assigned to SSID and VLAN.
- Splash page and page redirects.
- Wi-Fi WPA2 Enterprise, WEP, WPA, PSK, PSK2.

Standards-based Toll Quality Voice Service

- VoIP Support.
- 802.11 e/WMM compliant AP support.
- Bandwidth control for voice TSPEC.
- Neighbor report assisted roaming (802.11k) AP support.
- Fast BSS Transitions for seamless roaming (802.11r) AP support.

Virtual Service Set

- Multiple SSID (4 per AP).
- Private or Shared authentication.
- Any mix of crypto and authentication per SSID.
- Built in splash page capability.
- Unique Captive Portal (Up to 3,000 unique captive portals).
- Fast and simple configuration for guest access.

WDS Services

- WDS Bridge and Repeater with full central management

Management access

- Web access (https)
- SNMP

RF Management

- Auto Channel - Auto-tuning

User Management and statistics

- Per user session RF accounting statistics management
- Tracks the location, addresses, state, activity, usage and other attributes by user name
- Bandwidth management with bandwidth shaper and client restrictions
- Central AP/client management and diagnostics with an easy to use web user interface.

Client Radio Management

- Radio Resource Management (802.11k)
- Fast BSS Transitions (802.11r)

Hardware Specifications

- Dimensions: (W X D X H) 9.5 in x 7.5 in x 2 in Weight 5 lbs
- Interfaces: (4) 10/100/1000 Ethernet Ports (2) USB ports
- Environmental Operating Temperature: 0 C to 50 °C
Storage temperature: -20 °C to 70 °C
Humidity: 0% ~ 95% (relative humidity; non-condensing)

Power

- Input power supply: 100-24 V 1.8A 50-60Hz
- Output power supply: 12-14V 5.0-4.28A (TYP: 12V 5.0A) 90 Watts

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Supported Standards

RFC 2716 IETF EAP-TLS
 RFC 3748 EAP
 RFC 2716 PPP EAPTLS Authentication Protocol
 RFC 2759 Microsoft PPP CHAP Extensions, Version 2
 RFC 2865 RADIUS Authentication
 RFC 2866 RADIUS Accounting
 RFC 2869 RADIUS Extensions
 RFC 3579 Support For Extensible Authentication Protocol (EAP)
 RFC 3580 IEEE 802.1X RADIUS Guidelines
 RFC 4849 RADIUS Filter Rule Attribute
 RFC 4818 Delegated-IPv6-Prefix Attribute
 RFC 4590 RADIUS Extension for Digest Authentication
 RFC 2809 L2TP Compulsory Tunneling via RADIUS
 RFC 4851 *Flexible Authentication via Secure Tunneling*

IEE Standards

802.1X: Port Based Network Access Control
 802.3: 100BASE-T
 802.3: 1000BASE-TX Gigabit Ethernet
 802.11 AP Support: b/g,n 802.11d, 802.11e, 802.11h, 802.11i, 802.11r, 802.11k,802.11w

General

RFC 1122 Host requirements
 RFC 1393 Traceroute
 RFC 1519 CIDR
 RFC 1591 DNS
 RFC 2030 SNTP
 RFC 768 UDP
 RFC 783 TFTP
 RFC 791 IP
 RFC 792 ICMP
 RFC 793 TCP
 RFC 826 ARP
 IEEE 802.1d Spanning Tree
 IEEE 802.1Q VLAN tagging
 IEEE 802.3ad (static config.)

Management & Control

<u>Management and Control</u>	<u>IP Multicast</u>
SNMP	RFC 1112 IGMP v1
RFC 1213 MIB-II	RFC 2236 IGMP v2
RFC 1866 HTML	
RFC 2068 HTTP	
RFC 3164 Syslog	
<u>Quality of Service</u>	
802.11e Wi-Fi Multimedia (WMM)AP support	
802.11r Fast BSS Transitions AP support	
802.11k Radio Resource Management AP support	
RFC 2472 DiffServ precedence	
RFC 2597 DiffServ Assured Forwarding	
RFC 2598 DiffServ Expedited Forwarding	

Routing:

Layer 2, Layer 3 Routing
 DHCP Server
 DHCP Relay
 DNS forwarder
 Dynamic DNS
 NAT

Security:

Captive Portal
 VPN (PPTP, IPSEC)
 Splash Page
 Firewall with rules
 Radius Server (802.1X)
 Radius Pass-thru
 External AAA Server support

Management:

SNMP
 Network Diagnostics
 Multiple SSID
 VoIP Tunneling
 Bandwidth Shaper
 Bandwidth Diagnostics
 Central AP Management
 Per Client Diagnostics and Management
 WDS Bridge and Repeater