



Aruba 6000 Mobility Controller

Aruba's flagship product, the modular Aruba 6000 is the most scalable mobility controller on the market. The four-slot Aruba 6000 mobility controller features an integrated policy enforcement firewall and a hardware-based encryption engine, delivering the highest performance

available. The Aruba 6000 supports up to 8 Gbps of clear / 7.2 Gbps encrypted throughput, up to 72 10/100 Mbps ports, over 8000 simultaneous users and from 4 to 512 access points (APs).

Performance and Capacity

Rack mountable	3U
Configuration	Modular
10/100 ports	Up to 72
Power-Over-Ethernet	Yes
Serial-Over-Ethernet	Yes
GBIC uplink ports	Up to 6
Wired L2/L3 switch operation	Yes
Hardware-accelerated encryption	Yes
RS-232 serial console (RJ-45)	Yes
Out-of-band Ethernet management port	Yes
Maximum users per switch	Up to 8192
Max APs per switch	Up to 512
Encrypted traffic (3DES) throughput	Up to 7 Gbps
Switch throughput	Up to 8 Gbps

Fault Tolerance

VRRP for switch failover	Yes
Automatic AP rehomeing	Yes
Redundant power supply	Yes
Redundant fan	Yes
Redundant supervisor module	Yes
Multiple uplinks with redundancy	Yes (use any switch port)

802.11 Transport, Authentication & Encryption

802.11 communications standards	a, b & g
802.1x	Yes
Encryption types:	WEP, dynamic WEP, TKIP WPA, WPA-2, 802.11i, DES, 3DES, AES-CCMP, AES-CBC, EAP, PEAP, TLS, TTLS, LEAP, EAP-FAST, xSec-L2 AES
MAC address authentication	Yes
Upgradeable to new encryption mechanisms	Yes
Wi-Fi Certified	Yes

RF Management and Control

Adaptive Radio Resource Management (ARM)	Yes
Voice-Aware Scanning	Yes
Multiple ESSIDs per AP	Up to 16
3-Dimensional RF site survey	Yes
Automatic AP calibration	Distributed & Centralized
Self-healing around failed APs	Yes
Load balancing — number of users	Yes
Load balancing — utilization-based	Yes
Coverage hole & interference detection	Yes
Wireless RMON/packet capture	Yes
Plug-ins for third-party analysis tools	Ethereal, AiropEEK
Timer-based AP access control	Yes

Mobility

Fast roaming	2–3 msec intra-switch 10–15 msec inter-switch
Intersubnet roaming	Yes
Mobile IP support	Yes
Proxy Mobile IP	Yes
Proxy DHCP	Yes

VPN & Firewall

Concurrent IPsec tunnels	Up to 8192
Stateful firewall policies (Per-user / Per-port)	Up to 512,000
VPN termination	IPsec, PPTP, L2TP, XAUTH, xSec, (Client-Server and Point-to-Point)
VPN Dialer	Yes
Customizable Captive Portal	Yes
External Captive Portal	Yes
Network address translation	Yes
ACLs	Standard & Extended

User Management

Per-user or per-role assignments	Firewall policies, bandwidth contracts, session prioritization, VLAN assignment
Role derivation	Based on authentication, ESSID, Encryption, OUI
Location-based access control	Yes

Quality of Service

Bandwidth contracts	Yes—per-user & per-role
Application-aware traffic classification and prioritization	Yes
802.1p support	Yes
DiffServ Control Protocol Support (DSCP tagging)	Yes

VoIP Support

Voice-aware RF monitoring/scanning	Yes-session based
Stateful voice-session prioritization	SCP, SIP, Skinny, Vocera

Authentication Services

Local RADIUS	Yes
Third-party AAA Server Interoperability	Microsoft Active Directory, Microsoft IAS Radius Server, Cisco ACS Radius Server, Funk Steel Belted Radius Server, RSA ACEserver, Infoblox, Interlink Radius Server
Advanced AAA Services:	RFC3576, Auth. Server per SSID, Auth Server per FQDN
NAS to RADIUS Server Interface Security	IPsec DES/3DES
LDAP/SSL Secure LDAP	Yes

Wireless LAN Intrusion Detection

Voice-aware scanning	Yes
Multi-band scanning (single radio, all band)	Yes
Works with third-party WLANs	Yes
Rogue AP detection and destruction	Yes
Denial of Service attack detection and protection	Authentication & Deauthentication floods, Probe request flood, Fake AP flood
Man-in-the-Middle attack detection and protection	Sequence Number, EAP rate, Station Disconnect analysis
Station and AP classification	Yes
Station blacklisting	Manual, Authentication Failure, Man-in-the-Middle attack
Rogue or Valid AP classification based on customer database of MAC addresses	Yes—MS-SQL or MySQL
AP misconfiguration protection	Yes
Station and AP impersonation	Yes
Bad/weak WEP keys & initialization vectors	Yes
Ad-hoc network detection & prevention	Yes
Unauthorized NIC types (OUI)	Yes
Signature analysis	Yes
Upgradeable to support new signatures and attacks	Yes
Multi-tenant policies	Yes
Wireless bridge detection	Yes

Network & System Management

Web-based UI	Yes
Command Line	Console, telnet, SSH
Syslog	Yes
SNMP v2c	Yes
Aruba private MIB	Yes
MIB-II	Yes
Centralized configuration of local Wi-Fi switches	128
Image upgrade for Wi-Fi switch and all APs	Yes

Third-party Security Services Integration

Anti-virus service integration and user quarantine	Yes-Fortinet
Remediation integration and user quarantine	Yes-Sygate
Server load-balancing for external servers/groups	Yes

Standards Supported

- IEEE 802.1x
- IEEE 802.3 10BASE-T
- IEEE 802.3u 100BASE-T
- IEEE 802.1Q
- IEEE 802.3af
- IEEE 802.11a/b/g IEEE 802.11d
- IEEE 802.11i
- FIPS DES/3DES/AES CBC-CCM
- FIPS 140-2 Level 2

Power

Power consumption	Max. 466 Watts per PSU
AC Input voltage	100–127VAC, 200–240VAC
Input frequency	47–63 Hz
Environmental	
Operating temperature range	0° to 40° C
Storage temperature range	10° to 70° C
Humidity, non-condensing	5 to 95%

Physical Dimensions

Height	5.75" (146 mm)
Width	17.4" (444 mm)
Depth	12.5" (317.5 mm)
Weight	30 lbs. (unboxed)

Regulatory

- FCC part 15 Class A CE
- Industry Canada Class A
- VCCI Class A (Japan)
- EN 55022 Class A (CISPR 22 Class A), EN 61000-3, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-8, EN 61000-4-11, EN 55024, AS/N2S 3548

Safety

- UL 60950
- CAN/CSA 22.2 #60950

Warranty

90 days parts/labor*



The Mobile Edge Company

www.arubanetworks.com

1322 Crossman Avenue
Sunnyvale, California 94089
Tel: 408.227.4500 • Fax: 408.227.4550

*Extended with support contract

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