Introduction

AC-M3000/M1000 is a Network Access Controller specially designed for wired and wireless data network environments in small to medium size businesses. It integrates network management and secures data transmission to ensure a mobile and efficient working environment.

System administrators can effectively monitor wired or wireless users, either employees or guests via AC-M3000/M1000’s user management interface. Moreover, administrators can discover, configure, monitor, and upgrade all manageable access points (EW-7206APg) from a single, centralized AP management interface. AC-M3000/M1000 allows administrators to regulate wired and wireless network systems efficiently and protect the network.

Key Features

- VPN secured network technology
- Single login account roaming among various APs
- Centralized AP management
- Role-based and policy-based access control
- Multiple authentication methods
- Fail-over on dual WAN ports
- Per-user bandwidth management
- Record of per-user network traffic history
- On-demand, instant guest account management
Benefits

Simplified LAN Deployment and Management Platform

• Easily integrates with the existing network infrastructure.
• Friendly interface for centralized management platform; no need for IT outsourcing.
• High efficiency, high flexibility, and low equipment cost.
• Best solution to manage both wireless and wired network.

Powerful Network Security Capabilities

• Advanced IPSec VPN encryption to enhance the security of wired and wireless data transmission.
• Data packets filtering through built-in firewall.
• Diverse user authentication management platforms, including NT, LDAP, RADIUS, POP3, and Local Database.

Comprehensive Network User Management Platform

• Support various authentication platforms.
• Manage various types of users via policy-based control approach.
• Provide detailed per-user network traffic history log for analysis and record keeping.
• Manage user accounts in policy-oriented manner, including bandwidth, account valid time, route, authentication, and firewall settings.
• Per-user bandwidth limit enables flexible traffic control to prevent P2P download.
• Manage on-demand user accounts according to different conditions with billing, including valid time, bandwidth usage, number of packet transferred.

Centralized Access Point (EW-7206APg) Management

• Centralized control and automatic AP discovery.
• Manage and monitor of APs via the management interface, including APs’ system settings, online status, enabling, disabling, reset, and firmware upgrade.
• Periodically monitor APs and force problematic APs to reset.
Target Deployments – SMB Data Network

Networking:

- Support Router, NAT mode
- Support Static IP, DHCP, PPPoE on WAN interface.
- Choose freely which LAN is authentication-enabled LAN.
- Contain built-in DHCP server and support DHCP relay.
- Support NAT:
  (a) IP/Port Destination Redirection
  (b) DMZ Server Mapping
  (c) Virtual Server Mapping
  (d) H.323 Pass-Through
- Support static route
- Support SMTP redirection
- Support Walled Garden (free surfing zone)
- Support MAC Address Pass-Through
- Support HTTP Proxy
- Contain built-in hardware-based VPN accelerator.
Security Features

- Support data encryption: WEP(64/128-bit), WPA, WPA2, IPSec VPN.
- Support various authentication methods: WPA-PSK, WPA2-PSK, IEEE 802.1x(EAP-MD5, EAP-TLS, CHAP, PEAP).
- Provides VPN termination of IPSec tunnels to enhance wireless security.
- Support VPN pass-through (IPSec and PPTP).
- Support DoS attack protection
- Support MAC Access Control List
- Support user Black List
- Allow MAC address and user identity binding for local user authentication

AP Management

- Support IEEE 802.11b/g AP (EW-7206APg).
- Provide centralized management via HTTP/SNMP interface.
- Discover APs automatically.
- Add and delete APs directly from the device list.
- Enable or disable APs easily via management interface.
- Provide MAC Access Control List for each AP.
- Maintain configuration profiles of APs via local terminal.
- Upgrade and restore AP’s firmware via one single management interface.
- Monitor AP’s system status and associated client stations.
- Recover APs automatically when the system fails.
- Provide alarms and warnings of APs’ system status when necessary.
- Detect third-party APs via Monitor IP feature.

Monitoring and Reporting

- Monitor online users’ status.
- Monitor network devices by IPs.
- Alert WAN connection failure.
- Support Syslog for diagnosing and troubleshooting.
- Provide user network traffic history.
User Management

• Support multiple authentication methods simultaneously, including Local and On-demand accounts, POP3(S), LDAP, RADIUS, and NT Domain.

• Provide role-based and policy-based access control, such as per-role assignments on Firewall policies, Routing, Login Schedule, and Bandwidth.

• Provide user session management:
  (a) SSL protected login portal page.
  (b) Choice for multiple logins with one single account.
  (c) Session idle timer.
  (d) Account expiration control.
  (e) Notification e-mail with a hyperlink to login portal page.
  (f) Windows domain transparent login.
  (g) Configurable login time frame.

Accounting and Billing

• Support RADIUS accounting and RADIUS VSA (Vendor Specific Attribute).
• Contain built-in billing profiles for on-demand accounts.
• Provide session expiration control for on-demand accounts.
• Provides billing report on screen for on-demand accounts
• Provide detailed per-user network traffic history for both local and on-demand user accounts.
• Support automatic e-mail to report network traffic history.

System Administration

• Support multilingual and web-based management user interface.
• Provide customizable login and logout portal page.
• Provide SSH remote management.
• Upgrade firmware remotely.
• Provide NTP time synchronization function.
• Support console management interface.
• Provide backup and restore configuration.
## Network Access Controller

### Capacity and Performance

<table>
<thead>
<tr>
<th></th>
<th>AC-M3000</th>
<th>AC-M1000</th>
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</thead>
<tbody>
<tr>
<td>Concurrent Users</td>
<td>120</td>
<td>50</td>
</tr>
<tr>
<td>Local Accounts</td>
<td>500</td>
<td>250</td>
</tr>
<tr>
<td>Instant Guest Accounts</td>
<td>2,000</td>
<td>2,000</td>
</tr>
<tr>
<td>Managed AP (EW-7206APg)</td>
<td>12</td>
<td>4</td>
</tr>
<tr>
<td>Monitored 3rd-party Access Points</td>
<td>40</td>
<td>40</td>
</tr>
<tr>
<td>VPN Termination Tunnels</td>
<td>120</td>
<td>50</td>
</tr>
<tr>
<td>VPN 3DES/DES Throughput</td>
<td>30 Mbps</td>
<td>20 Mbps</td>
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### Specification

<table>
<thead>
<tr>
<th></th>
<th>AC-M3000 / AC-M1000</th>
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<tbody>
<tr>
<td>Form Factor</td>
<td>Mini-desktop</td>
</tr>
<tr>
<td>Dimensions (W x D x H)</td>
<td>243 mm x 150 mm x 45.5 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>1.4kg</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0~45°C</td>
</tr>
<tr>
<td>Power</td>
<td>110~220VAC, 50/60Hz</td>
</tr>
<tr>
<td>WAN Ports</td>
<td>2 x 10BASE-T/100BASE-TX RJ-45</td>
</tr>
<tr>
<td>LAN Ports</td>
<td>8 x 10BASE-T/100BASE-TX RJ-45</td>
</tr>
<tr>
<td>Console Port</td>
<td>1 x RJ-11</td>
</tr>
<tr>
<td>LED Indicators</td>
<td>1 x Power, 2 x WAN, 8 x LAN</td>
</tr>
<tr>
<td>Certifications</td>
<td>CE, FCC</td>
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