Air Live®

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MW-2000S

Hotspot Management Gateway

With growing development of public Internet, how to find a suitable gateway becomes an important subject for the network constructor. Now AirLive presents you a new improved product, MW-2000S. It features user authentication and credit card billing system so the user can easily pay the fee and enjoy the Internet service. With centralized AP management system, the administrator does not need to worry about how to maintain several wireless access point devices in a short time. No matter in Hotels, Conference Center, Shopping Mall, or in the school, MW-2000S can be the best choice for you to manage the Hotspot service.
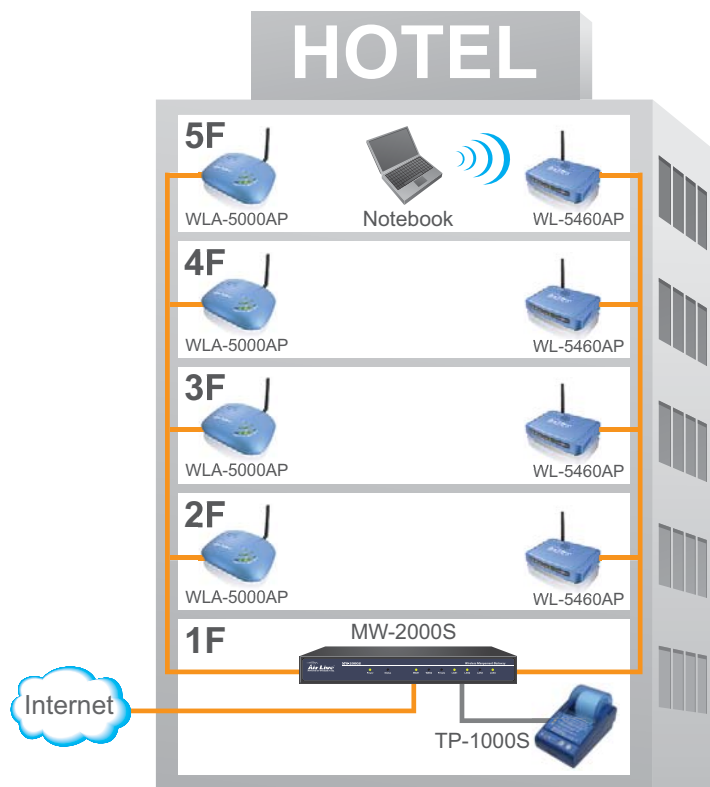
Hotel   Cafe   Shopping Mall

Hotspot System	PayPal	Password Authentication	AP Management	Service Zone	Local VPN	WAN Fail-over	WAN Load Balance

HOTEL

5F
WLA-5000AP   Notebook   WL-5460AP

4F
WLA-5000AP   WL-5460AP

3F
WLA-5000AP   WL-5460AP

2F
WLA-5000AP   WL-5460AP

1F   MW-2000S

Internet

TP-1000S

What is Hotspot?

Hotspot system works to offer Internet access service for authorized users. It is usually deployed at the public places such as Cyber café, Airport, Hotel, Government, or College. Users can pay the fee and obtain an Authorized Username and Password, and then access Internet services within the limited time. It offers the convenience to access Internet resource temporarily no matter where you are.
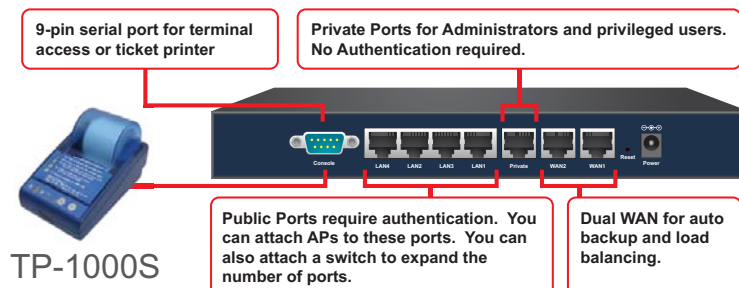
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MW-2000S Hotspot Authentication

The MW-2000S comes with full featured authentication functions. The service provider can select to deploy MW-2000S with PayPal Credit Card payment system, so user can choose to pay the fee with credit card to obtain an authorized user name and password from MW-2000S directly; or the service provider can also deploy MW-2000S with dedicated ticket printer, therefore, user can obtain a ticket with user name and password after he pays for Internet access fee in advance.

9-pin serial port for terminal access or ticket printer

Private Ports for Administrators and privileged users. No Authentication required.

Public Ports require authentication. You can attach APs to these ports. You can also attach a switch to expand the number of ports.

Dual WAN for auto backup and load balancing.

TP-1000S

MW-2000S Service Zones

Service zone means to specify a virtual zone for the service. Each service zone has its own user's authentication, policy setting, QoS, and customized template.

MW-2000S features the controller function to create and manage service zone. Separated with VLAN or multiple SSID, user can create multiple service zones for video, voice and data. Please notice that only WLA-5000AP supports multiple SSID function.
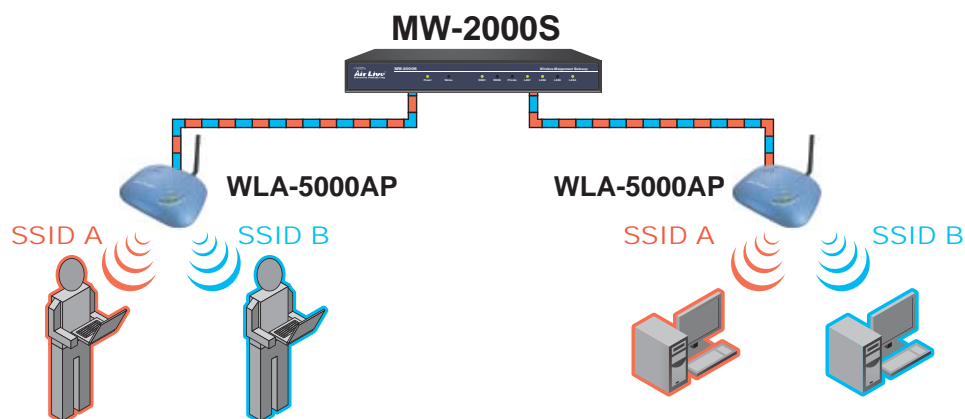
With Multiple Service Zones function, it allows the service provider to offer the Internet access service to different working spaces; their payment and authorized system are also separated. All configurations are set to just one single MW-2000S device

Multiple Service Zone Example

MW-2000S

SSID1:Orange

WLA-5000AP

SSID2:O₂

SSID2:Swisscom

Deploy MW-2000S and several WLA-5000APs to construct the wireless environment, a specific work group can connect to their own SSID and access their own resource, even the user may not stay at the same place.

Multiple-SSID+VLAN

SSID A = Work Group A
SSID B = Work Group B

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WLA-5000AP   **WLA-5000AP**

**SSID A**   **SSID B**   **SSID A**   **SSID B**

AP Management

The maximum management of MW-2000S is up to 12 WL-5460AP or WLA-5000AP wireless access points. With centralized AP managed system, user can link to several APs simultaneously via MW-2000S to change the configuration or upgrade firmware.
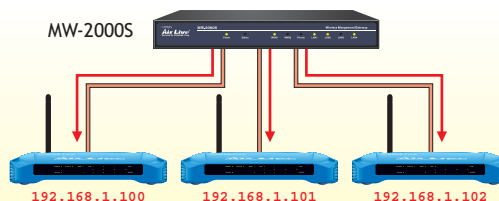
Step 1 Connect the AP to the AP Management Gateway and enable "Auto Discover" function

MW-2000S

Acess Point   Acess Point   Acess Point
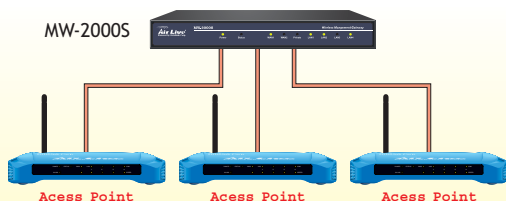
Step 2 The AP Management Gateway automatically assign IP to each AP

MW-2000S

192.168.1.100   192.168.1.101   192.168.1.102

Step 3

The APs become visible on the AP Management Gateway

Step 4
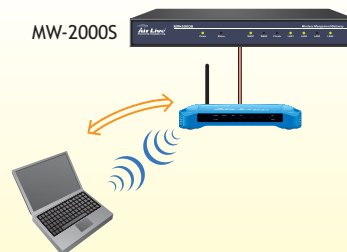
The Gateway can configure each AP and view its status remotely

Step 5

When a Wireless Client want to access the AP. The Gateway will automatically ask for user name and password, then establish Wireless VPN connection

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* **MW-2000S can work with both WL-5460AP e10.1 and WLA-5000AP v2.00e12 firmware. Please download the software from our website if you do not have the correct software installed in WL-5460AP or WLA-5000AP.**

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To archive the same functionality using the competitor's product, dedicated APs are required and are more expensive.

AirLive MW-2000S Advantage		
Model	AirLive MW-2000S	Competition's Product
AP Management	• Using low cost AP solution such as our WL-5460AP • Auto AP Discovery, Auto IP Assignment • Configuration Templates for uniform configuration across all APs • Ability to view Status of individual AP • Able to configure each AP independently • Uniform Firmware Upgrade • Email notification for failed IP	• Use expensive dedicated AP that cost many times more • Has less features than AirLive solution.
Wireless VPN	• Clientless Installation • IPsec security • Auto Key assignment • Complete Transparent to end users	• Not Available on Comparable solutions
Hotspot Authentication	• Guess Account, Instant Account, Permanent Account • Simple to use Instantly generated Account • Set different usage time limit or data limit • Wall Garden feature • Web and Email trigger authentication	• Only simple password authentication
Summary	The AirLive MW-2000S is the only wireless security gateway that combines all 3 security server function at much more affordable cost than previous solutions.	

Specifications

Hotspot Specifications

Hotspot Feature
- On-demand Account with different usage time or traffic
- Normal Accounts are permanent accounts for regular office PC and Servers
- Up to 120 concurrent users for Internet access
- Web and Email Triggered login screen
- Customized Login and Logout Page
- Firewall and Policy to precisely manage user's authority
- Individual Bandwidth to define the useful bandwidth and sessions
- Optional ticket printer to print out on-demand user's information

User Management
- 2000 On-demand Account with 10 different account types
- 500 Local User Account

- User Policy
  - Firewall Profile
  - Special Routing Profile
  - Schedule Profile
  - QoS Profile:
    - Traffic Class: Voice, Video, Best Effort, Background
    - Individual Maximum Downlink / Uplink
    - Individual Request Downlink / Uplink
  - Privilege Profile: Maximum Concurrent Sessions
- Authentication Method
  - On-demand Authentication: Billing Plan, Payment Gateway
  - Local User Authentication: RAIDUS Roaming Out, 802.1X
  - POP3 Server Authentication: POP3, SSL POP3 (POP3s) support
  - LDAP Server Authentication: Server IP, Port

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Number, Base DN
- • Windows Domain Server Authentication: Transparent login
- • RADIUS Authentication: PAP / CHAP
- • SIP Authentication: Trusted Registrar IP Address
- Black List
- Multiple Login on single account (On-demand and RADIUS users do not support)
- Login notification email
  - • Automatic POP3 email link to login page

Accounting
- Accounting Servers
  - • Local On-demand, External RADIUS server
- Billing Plans
  - • Up to 10
- Billing Method
  - • Time (hour) or Network Usage (MB)
- Credit card billing system
  - • Authorize.net
  - • PayPal

AP Management Specification

AP Management
- Manage up to 12 APs
- WL-5460AP and WLA-5000AP support
- Auto AP Discovery
- Auto IP Assignment
- Failure Notice by Email
- Configuration Templates
- Central Configuration
- AP Status viewing
- AP Disable/Enable
- Assign each wireless port as public (authentication required) or private (no authentication)
- Centralized Firmware Upgrade

Service Zones
- Isolated service zones with VLAN or SSID

- Allocate WLA-5000AP with Multiple SSID support
- Up to 5 service zones (default zone, zone 1 ~ zone 4)
- Service Zone Settings
  - • NAT or router mode
  - • Enable or disable DHCP service, and define DHCP address range
  - • Enable or disable authentication
  - • Type of authentication options (Local, LDAP, RADIUS, …)
  - • Customized the Login, Logout, Redirected web page
  - • Default Policy (Firewall rule, Specific route, Schedule, and Bandwidth)
  - • Wireless Setting, SSID, and wireless security

Basic Feature Specification

Networking
- Operation mode
  - • Router or NAT
- WAN connection method
  - • Static IP, DHCP, PPPoE, PPTP Client
- Dynamic DNS
- Privilege IP / MAC
  - • 100 sets, no authentication required
- Walled Garden
  - • 20 sets
- Network Time Protocol (NTP)
  - • Sync built-in real-time-clock (RTC) with multiple external NTP servers
- IP Mobility (IP PnP)

- DHCP modes
  - • Act as DHCP server or relay
- IP / Port Destination Redirection
  - • 40 sets of IP or Port address redirection
- SMTP Redirect
- HTTP Proxy Server
  - • 10 sets
- DMZ Server Mapping
  - • 40 sets
- Public Access Server Mapping
  - • 40 sets

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Security Functions
- Up to 40 rules of Firewall Profile to filter packet's IP Address, MAC Address, Service, and Schedule from Source or Destination site.
- DoS Protection
- User SSL web Login support
- Local VPN to isolate every wired / wireless users
    • Clientless Installation
    • Auto Configuration
    • VPN type: IPSec
    • Encryption: DES, 3DES
    • Integrity: MD5, SHA-1
    • Diffie-Hellman: Group1, 2
- IPSec and PPTP VPN pass-through

System Administration
- SNMPv2 ready-only access
- SSH remote management
- 128 bit SSL web admin
- Customized Login / Logout page
- External Syslog Server
- Console Admin
    • Reset / change admin password / debug utilities / service status

Report / Monitoring
- Online User Monitoring
    • Reporting Field: ID, IP, MAC, Packet In / Out, Idle time
- Authentication Server fail
    • Error message with admin contact info
- WAN Fail detection
    • Deny or open all access with error message
- Device monitoring
    • Monitor up to 40 IP devices alive status
- Daily / Monthly User History Log
    • Field: Start / End Time, ID, IP, MAC, Packet In / Out, Idle time
- History log email
    • Send out every 1 ~ 12 hr or stored up to 3 days
- Session Log
    • Upload log to FTP server
    • Record Time, Source IP/Port/MAC, Destination IP/Port, and Account Name

Hardware and Environment Specifications

Hardware
- CPU: Intel IXP-425, 533Mhz
- Flash: 32M
- DRAM: 128M

Connectors
- 2 WAN Port (10/100Mbps)
- 1 Private LAN Port (10/100Mbps)
- 4 Public LAN Port (10/100Mbps)
- 1 Console/Accessory Port (9-pin)
- 1 Reset Button
- 1 Power Connector

Environment
- Dimension: 239 x 156 x 30 mm
- Operating Temperature: 0°C ~ 40°C
- Storage Temperature: 0°C ~ 60°C
- Operating Humidity: 10~80% non-condensing
- Storage Humidity: 5~90% non-condensing

Ordering Information:

MW-2000S Hotspot Management Gateway

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