

# IWF 8405

Industrial Secure WLAN Controller  
Centralized medium-scale AP management



## Main Features

- Centralized AP management and multi-level connections up to 150 manageable access points
- Virtual service zone management by user group, security profile and etc.
- Authentication, Authorization, Accounting (AAA) support
- Dual-WAN Load Balance and Failover
- Data tunnel security by Intranet local IPsec VPN, Internet Remote Client PPTP VPN, Site-to-Site VPN
- QoS and WMM Traffic Types support for Voice, Video, Best Effort and Background

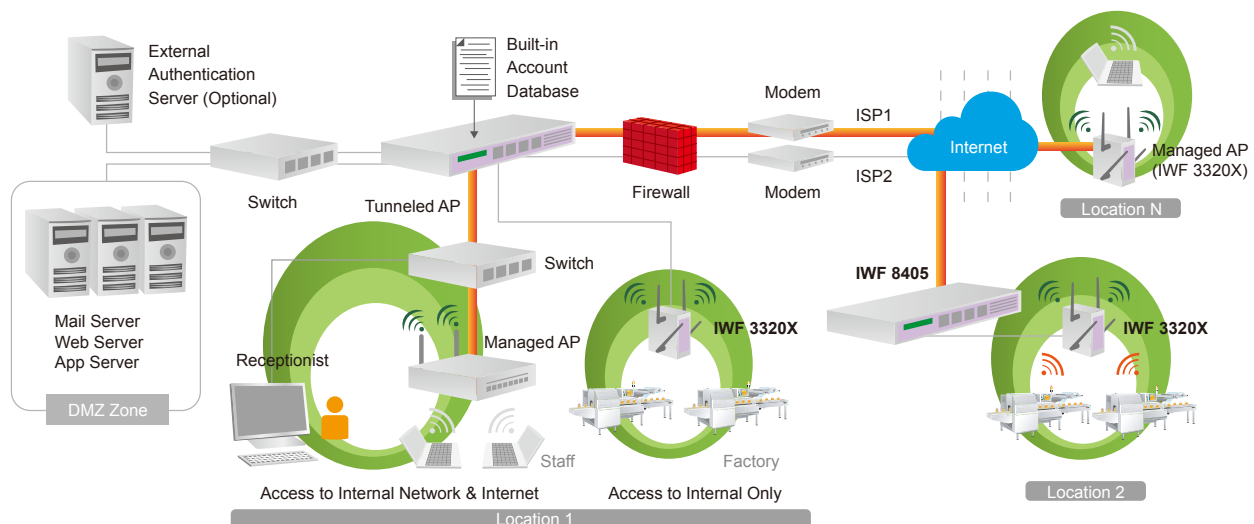
## Product Overview

The IWF 8405 industrial Secure WLAN Controller is an ideal security solution for medium-scale industrial WLAN deployments. The IWF 8405 integrates "secure access control", "user account provisioning", "centralized WLAN management", even "flexible accounting and billing" into one box to provide simplified manageability and instant mobility. With more powerful hardware, IWF 8405 is capable of centrally managing 150 access points to cover a wider service area in a medium network.

### Secure Networking under Central Management

IWF 8405 is suitable for industry in managing their wired and wireless network access uniformly. The network access of users from different departments and the access of guests can be segregated in different Service Zones. When needed, IWF 8405's Local, Site-to-Site and Remote VPN tunnels can be used to further secure the information flows for business.

For multi-site Manufacturing facilities, Network deployment and management is always challenge to IT manger, IWF8405 makes it easy to quickly deploy and offer wireless Internet service. IT manager can centrally manage all the access points connected to the IWF 8405. Also, remote firmware upgrade can be done through IWF 8405. Security policy and user groups can be pre-defined in Virtual AP profile and applied to the access points through IWF 8405.



## Specifications

### Networking

- Support NAT or Router mode
- Support Static IP, DHCP, PPPoE mode on WAN interfaces and PPTP (WAN 1 only)
- Choose freely which LAN is authentication-enabled LAN
- Support NAT: (1) IP/Port destination redirection (2) DMZ server mapping (3) Virtual server mapping (4) H.323 pass-through
- Supports email service via designated email server
- Built-in with DHCP Server and support DHCP relay
- Support walled garden (free surfing zone)
- Walled Garden Ad List that enables advertisement website links on user login portal page
- Support MAC-address and IP-address pass-through
- Support HTTP Proxy
- Support IP Plug and Play (IP PnP)
- Support configurable static routes
- Support dual uplinks, outbound load balancing and failover for more reliable Internet connection
- Support SIP pass-through NAT
- Support Ethernet connection to external terminal servers
- Port location mapping features for working with DSLAM and VLAN switches
- Dynamic Routing Protocol: RIP, OSPF, IS-IS
- Seamless L2/L3 Roaming

### System Administration

- Support web-based management user interface
- Provide customizable login and logout portal page
- SSH remote management
- Remote firmware upgrade
- NTP time synchronization
- Menu driven console management interface
- Utilities to backup and restore the system configuration
- Built-in root CA and centralized certificate management

### Monitoring and Reporting

- Status monitoring of on-line users
- IP-based monitoring of network devices
- Uplink (WAN) connection failure alert
- Support Syslog for diagnosis and troubleshooting
- User traffic history logging
- Traffic history report via email to administrator
- Users' session log can be sent to FTP or Syslog server
- Graphical system report

### User Management and Access Control

- Support 6,000 local accounts and 6,000 on-demand accounts
- Provide on-demand accounts for visitors
- Support Local user account roaming
- Authentication methods supported: Local and On-demand accounts, POP3, LDAP, RADIUS, Windows Domain, and SIP authentication
- Single-Sign-On for Windows Domain
- Allow MAC address and user identity binding for local user authentication
- Support MAC Access Control List
- Support auto-expired guest accounts
- Users can be divided into user groups, each user group has its own network properties, including bandwidth, QoS, accessible service zones, and other privileges
- Support QoS and WMM traffic types: Voice, Video, Best Effort and Background
- Each group (role) may get different network policies in different service zones
- Max concurrent user session (TCP/UDP) limit
- A setting for user-idle-timeout
- Configurable user Black List
- Export/Import local users list to/from a text file

### Security

- Support local IPSec VPN tunnels
- Support PPTP VPN tunnels
- Support site-to-site VPN tunnels
- Support VPN pass-through (IPSec and PPTP)

- Built-in DoS attack protection

### Service Zones

- The network is divided into maximum 9 Service Zones, each defined by a pair of VLAN tag and ESSID
- Each service zone has its own (1) login portal page (2) authentication options (3) LAN interface IP address (4) DHCP address range
- Each service zone allows access to the selected groups
- Each service zone assigns a network policy to each user group
- WISPr support per service zone

### AP Management

- Manage up to 150 x Nexcom AP in both Local and Wide Areas AP management totally
- Monitor 3rd party non-integrated AP: up to 200
- Centralized remote management via HTTP/SNMP interface
- Auto discovery for managed APs
- Enable or disable APs easily via user interface
- Templates for managed APs
- Monitoring managed AP for its status, the number of associated clients, and RF information
- Upgrade managed APs centrally, including bulk upgrade
- Rogue AP detection and AP load balancing
- Tunneled AP management over internet for NEXCOM Wi-Fi AP Family
- Graphical AP statistics display

### Accounting and Billing

- Support local on-demand and external RADIUS server
- Contain 10 configurable billing plans for on-demand accounts
- Support credit card billing system by Authorize.net, PayPal, SecurePay, and WorldPay
- Provide session expiration control for on-demand accounts
- Provide detailed per-user network traffic history for both local and on-demand user accounts
- RADIUS VSA implementation for volume-based session control using RADIUS server
- Support automatic e-mail to report network traffic history
- Support middleware connection to Property Management System (PMS)

### Hardware Specifications

- WAN Ports: 2 x 10/100/1000 BASE-T RJ-45
- LAN Ports: 4 x 10/100/1000 BASE-T RJ-45
- Console Port: 1 x RJ-45
- LED Indicators: 1 x Power, 1 x Status, 1 x HDD
- LCD Display

### Physical and Power

- Power Adapter: 100~240 VAC, 50/60 Hz
- Form Factor: 19" 1U Rack Mount
- Dimensions (W x D x H): 16.77" x 9.29" x 1.75" (426 mm x 236 mm x 44 mm)
- Weight: 12.3 lbs (5.6 kg)

### Environment Protection

- Operating Temperature: 0 ~40 °C
- Storage Temperature: -20 ~ 75 °C
- Operation Humidity: 10% ~ 90% (Non-condensing)
- Storage Humidity: 10% ~ 90% (Non-condensing)

### Certifications

- CE, FCC
- RoHS compliant

### Package Contents

- IWF8405 x 1
- CD-ROM (User's Manual and QIG) x 1
- RS-232 DB9 to RJ45 Console Cable x 1
- Ethernet Cable x 1
- Power Cord x 1
- Rack Mounting Bracket (with Screws) x 1

\*Specifications subject to change without notice

## Ordering Information

- **IWF 8405 (P/N: 10T00840500x0)**