AP Controller

SIL WAC

All New Multi-Functional Gateway & Controller

SIL WAC
1.8GHz CPU, 802.11AX,
Dual Core AP Controller

OVERVIEW

The SilverNet WAC is a highly efficient, sleek, multi-functional gateway and wireless access point controller.

Simple yet innovative, no special training is needed to operate this intuitive controller system. This powerful central controller will seamlessly work with all SilverNet network enterprise class AP equipment. For a more efficient network, a single controller can manage Wi-Fi networks with multiple distributed access points.

Whether you require single or multiple WLAN networks on your dashboard, the WAC interface allows for both. It's easy to keep an eye on things with real-time status monitoring and customised configuration.

Install the controller hardware either in an on-site central control room, or even in the cloud for local or remote management via public IP address. The WAC is also effective and powerful when used as a standalone gateway.

One of the benefits of centralised management between the controller and APs is speedy synchronisation. Quickly synchronise the wireless configuration with each AP to create a unified Wi-Fi network construction.

From providing hotspot functionality, to supporting various hotspot authentication methods such as voucher and account, it provides strong support across shopping centres, schools, hotels and more. Further support comes from the 1 year warranty offered, as standard, by SilverNet.

Features

- 1.8GHz Dual Core Intel CPU
- Up to 512 Users over 128 APs
- WAN & LAN – 10/100/1000-BASE-T, 2x USB2.0, 1x Console
- Super Silent Ball Fan
- 2GB DDR RAM
- 32GB SSD
- IEEE 802.3, 802.3u, 802.3ab

- Smart Flow Control
- Load Balancing
- Static Routing
- Behaviour Management
- Bandwidth Limitation
- Security & Defence Centre
- ARP Detection

Distributed By:

SILVERNET
WIRELESS-NETWORK-SOLUTIONS

Superior Performance Features

Rich Functions & Flexible Deployment

Extremely convenient management is at your fingertips.

The multi-functional WAC controller can be used as a gateway for an integrated solution, or as an AP controller to uniformly manage your wireless network without affecting the existing topology.

SmartQoS
Firewall
VPN Server
Wireless Management
AP Grouping
Load Balancing
Bulk Firmware Upgrade
Centralized AP Discovery

Centralised Cloud Management

Control an entire network of different sites from a single interface. Anytime. Anywhere.

Intelligent Network Monitoring

Our easy to use dashboard has all the stats you need.

View real-time network status; check network usage and traffic distribution; quickly troubleshoot with network topology; receive network condition logs, abnormal event warnings and notifications; and even track key data for improved business results.

Multiple Hotspot Functionality

Whether in a shopping centre or a school, your hotspot is supported by WAC.

A variety of hotspot authentication methods are supported such as voucher and account, resulting in brilliant support for commercial applications.

Assign Different Management Roles

Increase management efficiency and security through easy to assign management roles.

With the ability to add and remove admins, assign multi-level permissions and utilise multi-person management, network operation and maintenance is more flexible than ever.
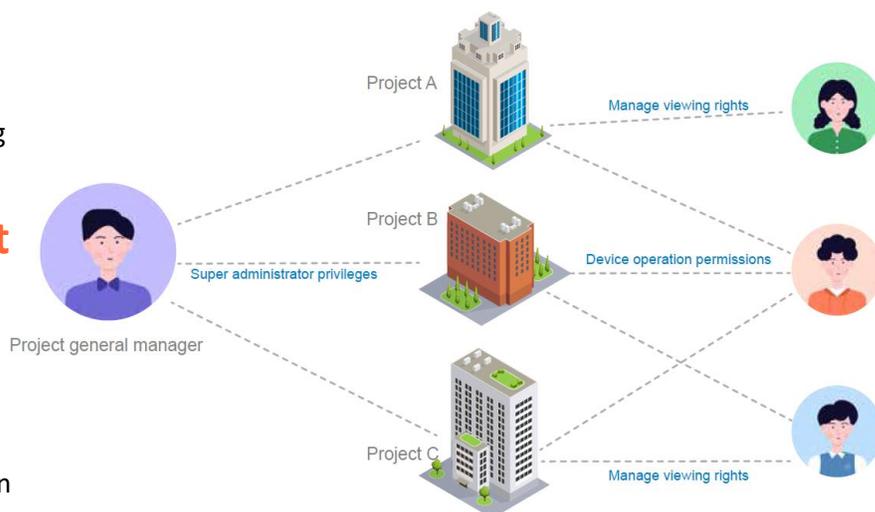
Technical Specifications

Part No.	SIL WAC
Physical Characteristics	
CPU	Intel D525 1.8GHz Dual Core
Physical Memory	2GB DDR MICRON
Memory	32GB SSD
Interface	5 x 10/100/1000Mbps LAN/WAN 1x 10/100/1000Mbps WAN 2x USB2.0 1x RJ45 Console 1x VGA
Power	AC 90V – 264V @ 47-63Hz
Temperature	Operating: -0°C to +50°C Storage: -40°C - 70°C
Humidity	Operating: 10% - 90% Non-Condensing Storage: 5% - 90% Non-Condensing
Dimensions(mm)	430x300x44.5
Device Management	
Features	Automatic Discovery (L2 Auto Discovery, L3 Manual Configuration) Batch Configuration Reboot Scheduler WLAN Scheduler Online Upgrade Ping Watchdog
Controller Management	Web / CLI / Telnet Management Remote Management
Network Management	
Management	Wired Network Wireless Network
Network Security	ACL / URL Filtering
Transmission	Routing / NAT / Session Limit / Bandwidth Control
VPN	IPSec / L2TP / PPTP / OpenVPN
Portal	Voucher / Local User / SMS / RADIUS / External Portal Server
RADIUS	Authentication / MAC Authentication / Accounting
Additional Features	Load Balancing / MWAN / 802.1x
Monitoring	
Features	Dashboard Devices List Statistics Clients List Network Topology Logs

Firmware Features

AP Management
Maximum of 512 Users Management
Maximum of 128 Wireless APs
Central & Remote Configuration of APs
View User Status

Flow Control
One Click Smart Flow Control
Powerful Multiline Diversion
Automatic Application Priority

Load Balancing
Multiple WAN / Multiple ISP Network Access
Ethernet Line Backup
Ethernet Superimposed
Policy Routing: Source IP, Destination IP, Source MAC, Network Port, Domain, Destination Port, Extranet Port, Identity Binding
Protocol Binding

Behaviour Management
Block P2P Firmware
P2P Flow Control and Bandwidth Allot
File and URL Filter
Monitor Network Behaviour

Bandwidth Limitation
IP Based Bandwidth Limitation
Safeguard / Restrict Bandwidth
Time Strategy
IP Based Session Restriction

Security Centre
MAC Address Filter
UPR / Key Words Filter
Web Content Filter
IP Address Filter
Port Mapping
DMZ
TCP / UDP / ICMP Flood Defence
Block TCP Scanning
Block Ping WAN Port

ARP Detection
Send GARP Packets
ARP Scanning on WAN/LAN Port
Online Detection
IP-MAC Binding

Authentication
PPPoE Authentication
Portal Authentication such as WeChat, WEB Password, One-Time Password, SMS
RADIUS with 3rd Party Server

Part Numbers & Accessories

802.11ax Access Points

Part Code	Description
SIL WCAP-EXT	Wi-Fi Standard 802.11ax/ac/n/a/g/b. Frequency 2.4GHz & 5GHz, Speeds up to 1800Mbps, Max TX Power 23Bm, 3dBi @ 2.4GHz; 6dBi @ 5.8GHz Integrated Omni Antenna, Up to 8 SSID Per Radio, Wireless Security WEP,WPA-PSK,WPA Enterprise, (WPA/WPA2,TKIP/AES) Concurrent clients 160+.
SIL WCAP-AX-EXT+	Wi-Fi Standard 802.11ax/ac/n/a/g/b. Frequency 2.4GHz & 5GHz, Speeds up to 1800Mbps, Max TX Power 24dBm, Quad N-Type Connector for Dual Band, Up to 8 SSID Per Radio, Wireless Security WEP,WPA-PSK,WPA Enterprise, (WPA/WPA2,TKIP/AES) Concurrent clients 160+.
SIL WCAP-AX	Wi-Fi standard 802.11ax/ac/n/a/g/b, Operating on 2.4GHz & 5GHz, Speeds up to 1800Mbps, 18dBm, 4dBi MIMO antenna, Multi SSID Up to 8 SSID Per radio, wireless security: WPA2 PSK, WPA Enterprise (WPA/WPA1,TKIP/AES) Concurrent Clients 120+ Range
SIL WCAP-AX-W	Wi-Fi standard 802.11ax/ac/n/a/g/b, Operating on 2.4GHz and 5GHz, at a speeds up to 1800Mbps, 2dBi 2.4GHz / 5dBi 5GHz Dual Band Omni with up to 8 SSID Per radio, range up to 50m with 120+ concurrent clients.

Ver.1.0