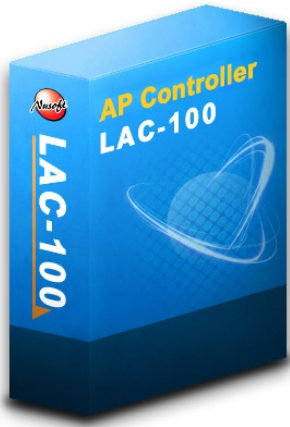


Nusoft LAC-100 AP Controller



As wireless networking has become more available and convenient and the use of BYOD (Bring Your Own Device) has increased rapidly, an environment where the enterprises do not have total control of users' access to the Internet has been created, bringing enterprises potential risks and unprecedented challenges.

In recent years, Access Point Controller devices with access points of the same brand are adopted in order to secure the wireless network, but most devices in the market do not deliver comprehensive management and control capability, seldom meeting enterprises' needs.

To solve this problem, Nusoft provides you with software-based AP controller - LAC-100, and hardware-based MHG/ NFW/ UTM series AP controller.

The LAC-100 is a software-based product which can be downloaded from the Internet for free and operated on a PC without an extra disk or operating system. Delivering a centralized- control by the SSID (Service Set ID ; SSID) and multiple authentication methods (Captive Portal/ RADIUS/ LDAP).

The LAC-100 is equipped with multiple functions, including AP Unified-Configuration, Remote AP Configuration, AP Load Balancing, AP over Google Maps, AP & Client Status, Wi-Fi Billing, etc.; moreover, no license is required for extra APs, offering you with a comprehensive and secure wireless management solution with the lowest Total Cost of Ownership.

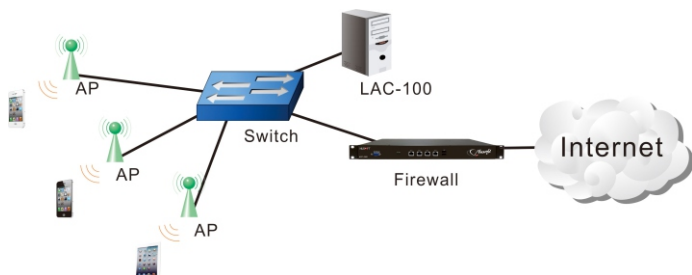
Product Features

Free Software Download

The LAC-100 software can be downloaded from Nusoft website ([Click here to download](#)) and be installed on your computer. Then, your computer can be used as an AP controller to centrally manage a number of access points. In addition, no user license fees are charged for operation, which greatly reduces your ownership cost of IT infrastructure.

Non-inline Deployment

The LAC-100 is deployed on the LAN without any network infrastructure changes. No interruption of network connectivity is needed while deploying, simplifying your wireless network management.



AP Unified-Configuration

The LAC-100 is capable of having a centralized-control of all APs. To do this, simply configure a set of AP parameter to LAC-100 AP controller and locate the APs in the area, the APs will discover the AP controller by using CAPWAP protocol and send the AP controller a CAPWAP join request. When the APs join the controller and obtain the configuration profile, the controller may start to manage the APs.

This can simplify the deployment of a great number of APs. In addition, the modification of parameter or settings of all APs can be easily configured from the Web UI of LAC-100.

Remote AP Configuration

Based on the CAPWAP protocol, Nusoft has come up with a distributed wireless network solution which can centrally control and manage remote APs at branch office to have them updating the configuration profile and tunneling traffic back.

Connection Status Notification

The network administrator can be notified of the connection status by email and the dedicated APP. This can help the network administrator be aware of the connectivity of all APs and resolve the connection issue in real time.

Dedicated APP

By using the dedicated APP (iOS, Android), the network administrator can view the AP profile (name, connection status, location, etc.) and active clients (client name, SSID, signal, rate, uptime, etc.) anytime and anywhere. In addition, the network administrator can reboot the AP via the dedicated APP.

Authentication

Multiple authentication mechanisms, such as a local database or RADIUS/ LDAP server are offered and combined with Captive Portal. The authenticated users will be presented with a specified page (an enterprise's official page or a welcome page, etc.) to have a comprehensive wireless network service.

Wi-Fi Billing

LAC-100 can provide the wireless service package to wireless users. The unlimited package can be flexibly created according to users' needs. After creating the packages, users may start their own wireless network service by the unique username and password.

AP & Client Status

LAC-100 offers comprehensive information of associated APs and client status through the intuitive user interface. For associated APs, the information such as SSID, IP/ MAC address, connection uptime, etc. are displayed, a reboot or firmware update on an associated AP can be performed as well; for client status, information such as client name, IP address, AP name, SSID, channel, rate, signal, traffic, association time, etc. are displayed.



AP over Google Maps

Besides AP over floor plan, LAC-100 provides AP over Google Maps which helps you easily find the AP in the indoor environment, especially in the unnoticeable area, such as in the corner of a wall or on the ceiling. It also enables you to accurately place your APs over the Google maps by longitude and latitude or postal address, delivering an intuitive map of AP deployment. In addition, grouping capability is offered to simplify AP configuration and administrative tasks.

AP Load Balancing

In the wireless environment with multiple access points, the user usually connects to the AP with the strongest signal regardless of the user load on that AP. This results in increasing the burden on the specific AP.

Unlike any other AP load balancing solutions in the market, LAC-100 integrates the Window Threshold mechanism and Maximum Client settings to deliver the unmatched load balancing capability, automatically balancing the number of client stations associated with the access points, ensuring you efficient data transmission and avoiding the problems such as congestion or bottleneck.

Nusoft AP Controller Comparison

Product Type		Hardware-Based	Software-Based LAC-100
Product Comparison			
Requirement		UTM / NFW / MHG Series	a PC Note 1
No. of Supported APs		Unlimited Note 2	According to the performance of the PC
Wi-Fi Client Management		○	×
AP Central Management	AP Unified-Configuration	○	○
	Connection Status Notification	○	○
	Push Firmware	○	○
	E-MAP	○	○
	AP Load Balancing	○	○
	Auto Transmit Power Control	○	○
	AP Group Management	○	○
Authentication	External Authentication Server	○	○
	User Authentication	○	○
	Captive Portal	○	○
AP Traffic Flow	Real-time Traffic & Traffic Grapher	○	×
	Active Client List	○	○
Wi-Fi Billing Note 3		○	○
Dedicated APP		○	○
Firewall		○	×
QoS		○	×
Load Balancing		○ Note 4	×
Application Blocking		○	×
VPN		○	×

Note 1: Hardware requirements for LAC-100: a PC that has 2GB of memory installed and a USB stick with at least 8GB.

LAC-100 Software: You may purchase the LAC-100 USB stick from Nusoft or prepare a USB stick with at least 8GB and download the instructions from our website to create a LAC-100 USB on your own.

Note 2: For MHG-450 and NFW-410, the No. of associated AP is up to 10. For other models, it is unlimited.

Note 3: The Wi-Fi billing receipt can be printed by using a home printer or a multifunction printer (A manual cut is required). But for better user experience, it is recommended to purchase the Nusoft billing account generator and a thermal receipt printer.

Note 4: NFW-520 and NFW-450 do not provide load balancing.