



## Omada SDN Controller: Do More with Less

Centralize management, simplify operation, increase security, and lower cost with a reliable network management platform powered by TP-Link Omada SDN Controller.

### The Challenge

Today’s organizations are becoming more dynamic and innovative, consequently, the number of devices connected to your network are increasing. The growing and complex network involves more clients—both wired and wireless—more bandwidth-demanding applications, and more customized services. With this come growing demands for manageable and reliable network systems, however, IT budgets are limited. Your office should be for conducting business, not for practicing your IT skills. So how can you manage diverse and complex networks in a time-saving and economical way?

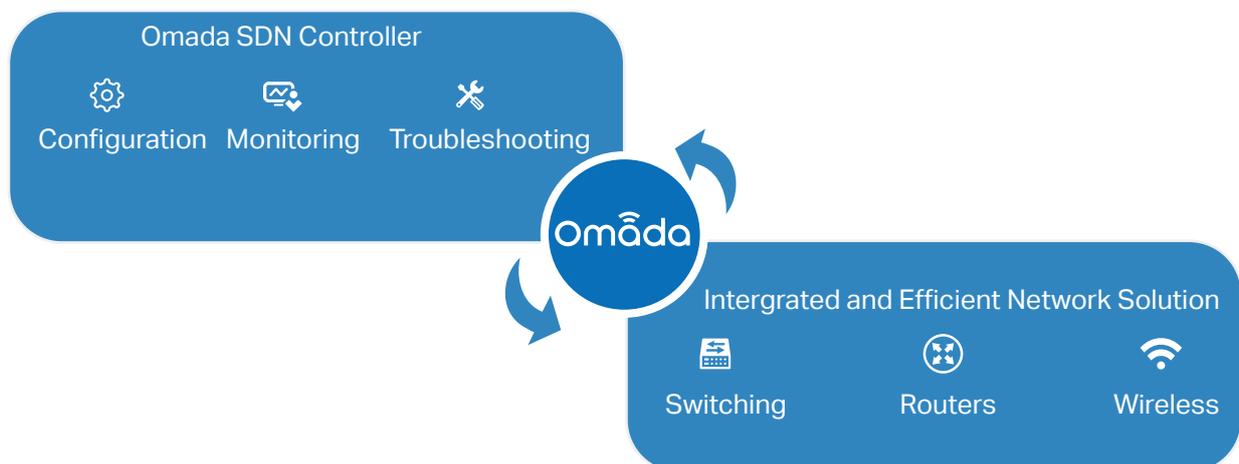
### The Omada SDN Controller

“Omada”, the Greek word for “team”, perfectly captures TP-Link’s ambition in developing an integrated and efficient network solution. Omada SDN Controller gathers security gateways, switches, and Wi-Fi products, and provides comprehensive, software-defined networking across demanding, high-traffic environments such as campuses, hotels, malls, and offices with robust wired and wireless solutions.

Omada SDN Controller is a command center and management platform at the heart of the Omada network. With a single platform, the network administrators configure and manage all Omada products which cover all your routing, switching, and Wi-Fi needs.

### How Omada SDN Controller Works

Omada SDN Controller provides a unified approach to configuring enterprise networks comprised of routers, switches, and wireless access points. This unleashes new levels of management to help you avoid complex and costly overprovisioning.



► See the Whole Picture of Omada SDN Controller Solution

Omada SDN Controller is easy to deploy on your network. Tailored to different needs and budgets, Omada SDN Controller offers diverse deployment solutions. Omada Software Controller, Hardware Controller, and Cloud Controller, each have their own set of advantages and applications. And the intuitive Omada app makes network management incredibly convenient.

Figure -1 Whole Picture of Omada SDN Controller Solution

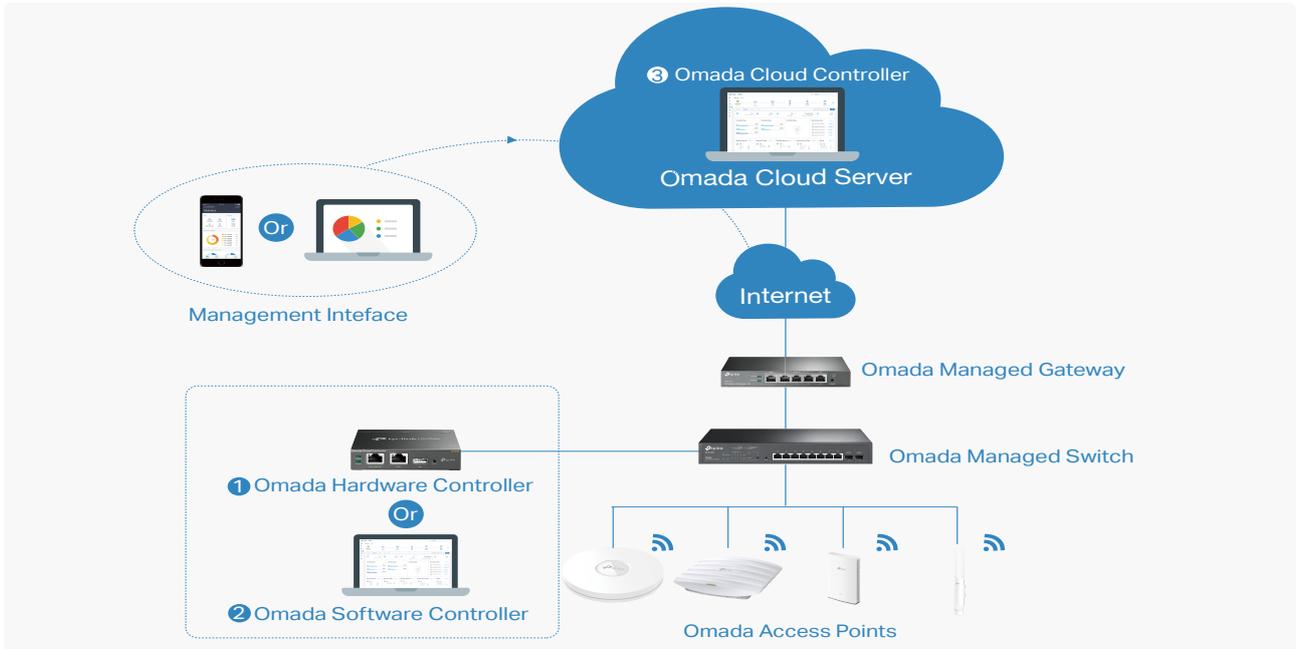
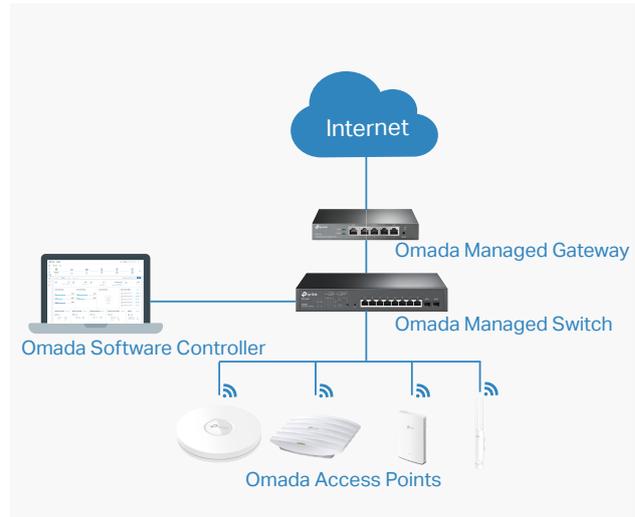


Figure -2 Diverse Types of Omada SDN Controller and Devices

 <b>Software Controller</b> <ul style="list-style-type: none"> <li>● Installed on a host on the network</li> <li>● Free to install and upgrade</li> <li>● Tailored to medium and large business</li> </ul>	 <b>Hardware Controller</b> <ul style="list-style-type: none"> <li>● Deployed on the network</li> <li>● Needs to pay for the device</li> <li>● Tailored to small business</li> </ul>	 <b>Cloud Controller</b> <ul style="list-style-type: none"> <li>● Deployed on Omada Cloud</li> <li>● Subscribe to tiered plans</li> <li>● Tailored to small, medium and large business</li> </ul>
Omada Managed Device		
Gateway	Switch	Access Point
<b>SafeStream</b> TL-R605(UN) TL-ER7206(UN)	<b>JetStream</b> TL-SG2210MP TL-SG2428P TL-SG2008P TL-SG2210HP-M2	<b>Omada</b> EAP245 V3      EAP230-Wall EAP225 V3      EAP235-Wall EAP225-Wall V2      EAP265 HD EAP225-Outdoor V1 EAP660 HD EAP620 HD EAP620 HD-Outdoor EAP690 extra-HD

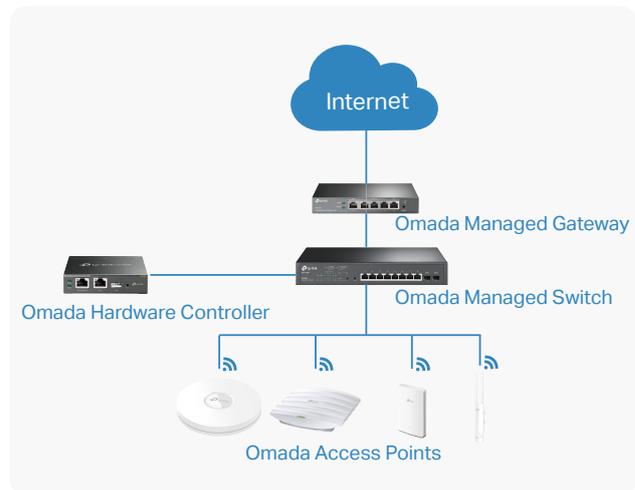
### Omada Software Controller

Omada Software Controller is totally free, as well as all upgrades. The controller can be hosted on any computers with Windows or Linux systems on your network.



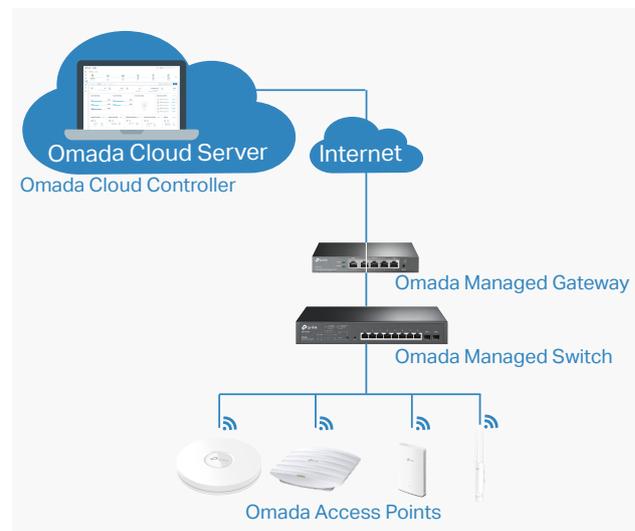
### Omada Hardware Controller

Omada Hardware Controller is the management device which is pre-installed with Omada Software Controller. You just need to pay for the device, then the built-in Omada Controller software is free to use, no license fee or extra cost required. About the size of a mobile phone, the device is easy to deploy and install on your network.

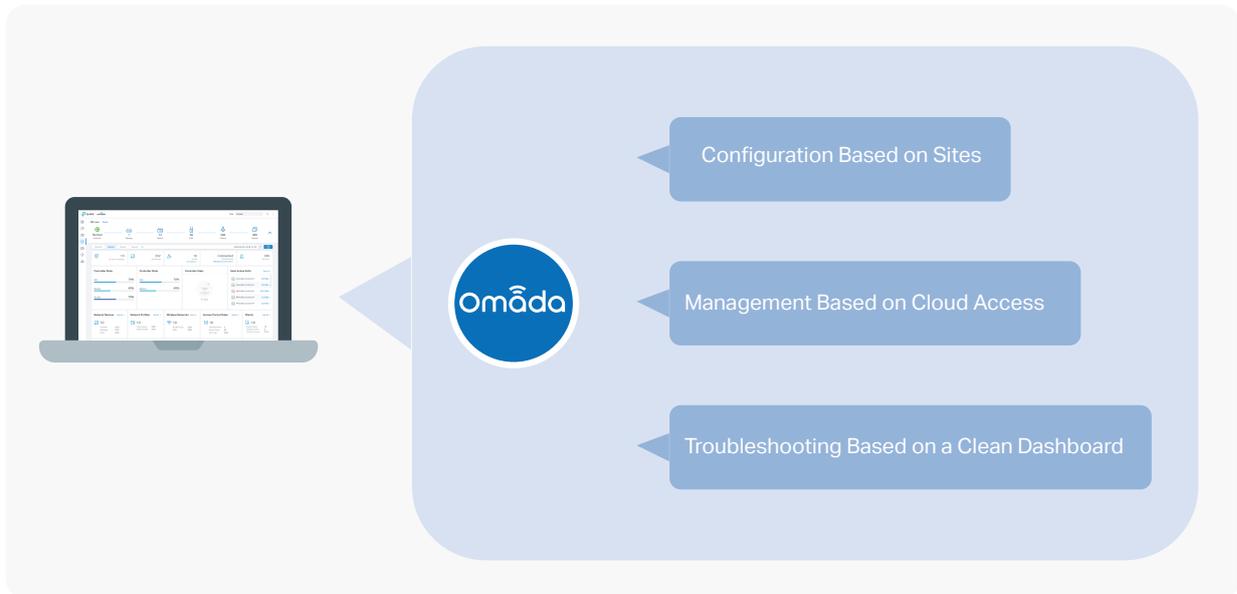


### Omada Cloud Controller

Omada Cloud controller is deployed on the Omada Cloud server, providing paid service with tiered pricing. With a paid the subscription to the Omada Cloud Service, you need not purchase an additional hardware device or install the software on the host. Furthermore, the TP-Link Support Team can offer professional personalized service for networks with more than 500 devices.



► See How Omada SDN Controller Simplifies Network Management



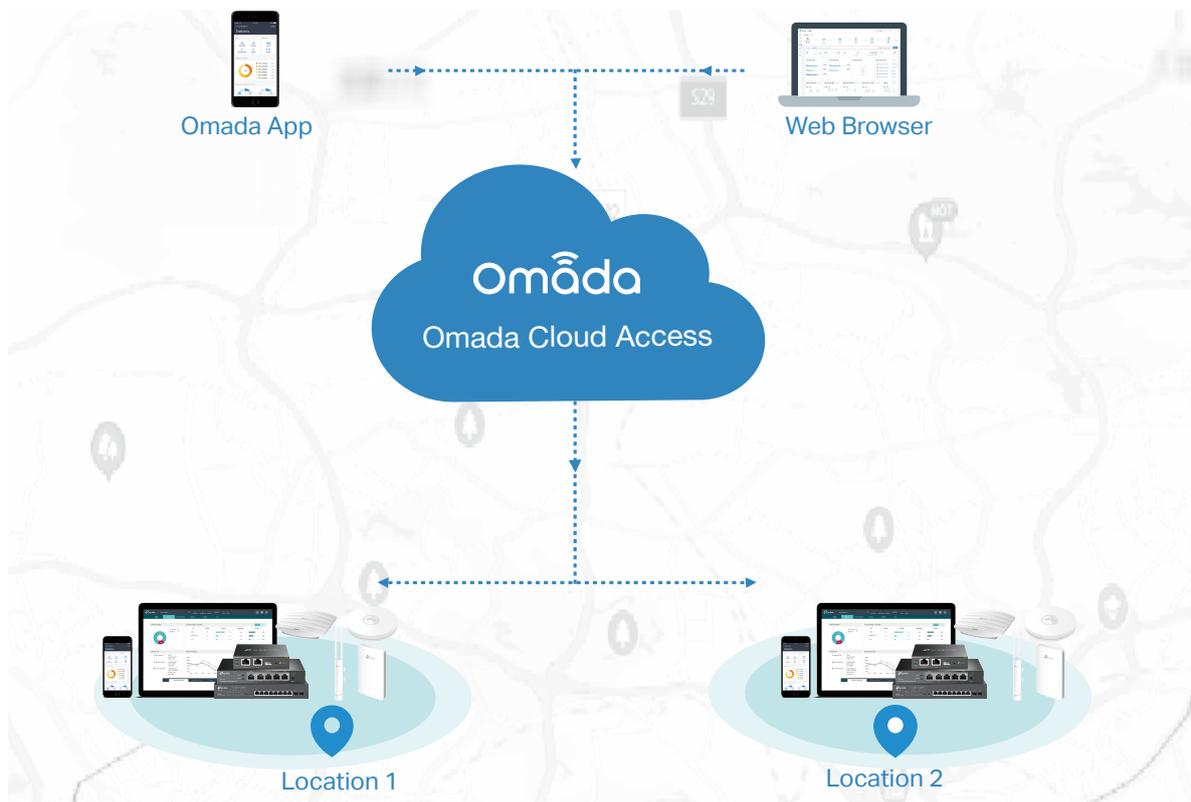
### Configuration Based on Sites

The provisioning process with Omada SDN Controller is based on sites, which are logically separated network locations. The site is the largest unit for managing networks. For example, the devices that belong to a company department need unified configurations. The IT staff can create a particular site for the network of this department, then provision devices and the associated wired and wireless network(s) at the same time. What used to take days can now be done in minutes.

The same types of Omada managed devices at one site (for example, all Omada managed switches at one site) share the same configuration with the exception of their IP addresses and device names. You can simultaneously configure features such as VLAN and PoE Schedule for multiple switches at a site and you can simultaneously configure features such as SSID, WLAN Schedule, and Rate Limit for multiple access points at a site. An SSID that you configure for one access point at a site is not limited to that single access point but is automatically provisioned on all access points at that site and broadcast by all access points at that site.

## Management Based on Cloud Access

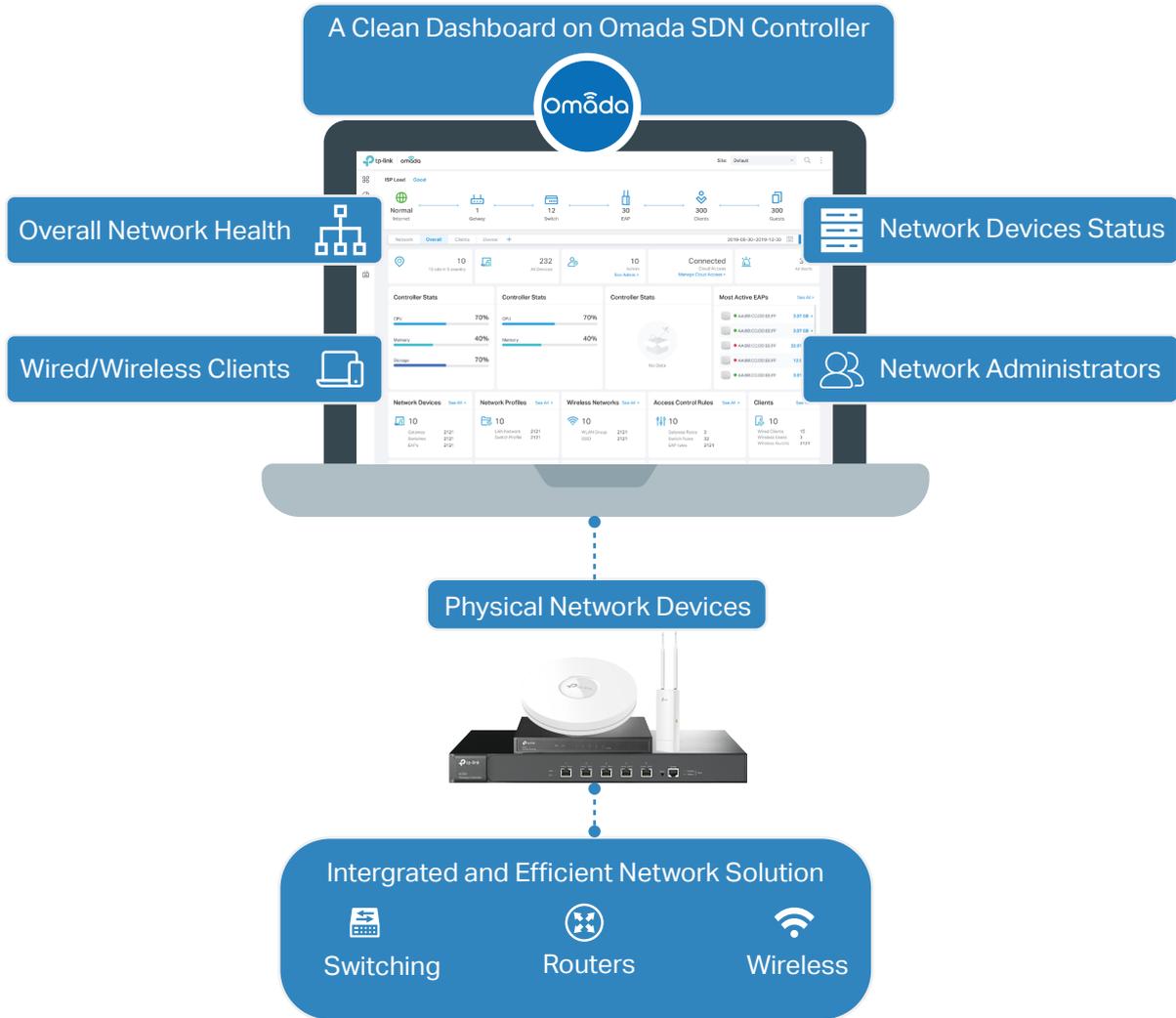
Featuring Cloud Access, Omada Software Controller and Omada Hardware Controller both allow users to centrally manage the entire network at any time, from anywhere with no license fees. Imagine the following scenario: you deploy numerous Omada managed devices at a place and use Omada Software Controller to manage the devices in a batch. When you are out and about, you can monitor and manage your wireless network online from a web browser or via the Omada app on a phone or tablet.



## Troubleshooting Based on a Clean Dashboard

Omada SDN Controller provides a single dashboard for showing the system and client status to simplify monitoring your network. The clean and simple dashboard keeps the network administrator informed with a quick overview of the health of every network device and client on the wired and wireless network.

Omada SDN Controller emails and pushes notifications about various levels of network logs which allows for proactive troubleshooting. Comprehensive logs reduce the time spent resolving network issues. With less mundane troubleshooting work, the network administrator can monitor the network with ease.



## Features and Benefits

### ► Centralize management

Multiple tools with multiple interfaces add complexity, which increases the possibility of errors in configuration and management. Changing between management interfaces during network operations is time-consuming and can make even simple changes or troubleshooting tasks take much longer to complete. Configuring and managing gateways, switches, and Wi-Fi products via a single platform effectively eliminates repetitive manual device management tasks and the possibility of errors.

### ► Simplify operation

The configuration of many features with Omada SDN Controller is based on profiles, such as VLAN, Authentication with RADIUS and PoE Schedule. The profile records a set of information used in the configurations. You can edit the elements in the profile at a time, so making the network continuously responds to dynamic IT and business needs is just a few clicks away.

► **Increase security**

More than building a basic network, Omada SDN Controller brings multiple access control, traffic, and application policies to address your advanced business needs. VPN, customizable portal, 802.1X authentications and other security policies embed security into your network in the simplest and fastest way possible.