

Cisco WAP121 and WAP321 Wireless-N Access Points with Single Point Setup



Product Overview

As business applications become more powerful and sophisticated, organizations are looking for new ways to improve productivity. Mobile computing and communication devices have become more prevalent, requiring businesses to expand the performance, security, and reach of their office networks. Delivering secure, high-speed wireless connectivity to employees, partners, and guests anywhere in the office is critical.

The Cisco® WAP121 Wireless-N Access Point and the Cisco WAP321 Wireless-N Selectable-Band Access Point now both support Single Point Setup. The WAP121 is a simple, affordable way to improve the performance and reach of your small business network with advanced 802.11n supporting 2.4 GHz wireless technology. The WAP321 is suitable for connecting up to 10 users on a single WAP321.

The WAP321 makes it easy to deliver advanced 802.11n, supporting either 2.4 or 5 GHz wireless networking with business-class features, at an affordable price. This flexible solution is perfect for connecting up to 20 users on a single WAP321.

Single Point Setup

With Single Point Setup deployment is easier and faster. This helps to enable the wireless LAN to scale up to four WAP121 and up to eight WAP321 devices in order to provide broader coverage and support additional users as business needs change and grow.



Cisco WAP121 and WAP321 Product Highlights

The primary features and benefits of the WAP121 and WAP321 include:

- Access points which feature multiple-input, multiple-output (MIMO) technology to deliver superior performance with the fastest speeds possible to expand range and coverage.
- With MIMO technology the WAP121 and WAP321 multiply the effective data rate and use the inherent signal reflections to provide a reliable wireless infrastructure throughout the office, including conference rooms, lobbies, lunchrooms, and quads for improving staff communications and productivity.
- Single Point Setup can enable multi-access point setup, configuration, management, and expansion from a single access point. This allows partners and customers to save time and money both in deployment and troubleshooting costs.
- Combined with Single Point Setup, web-based GUI configuration tools make it more intuitive for customers to install their WAP121 and WAP321 access points and set up their network devices. Setting up a wireless network through one device with a web-based GUI allows for remote management and monitoring in or out of the office.
- To help protect sensitive business communications and data, advanced security standards, encryption protocols, rogue device detection, and secure guest access provide robust protection so that Cisco wireless access points offer the same strong security that exists in wired networks.
- The Cisco WAP121 and WAP321 access points can be powered by either AC power or PoE. This flexibility provides convenient options to best suit your facility and reduce network cabling concerns and costs.
- The WAP121 and WAP321 are both fully backward compatible with existing technology, including wireless-G (802.11g) and wireless-B (802.11b) technology. This provides investment protection by interoperating with older client devices.
- The WAP121 and WAP321 are backed by a Lifetime Warranty and are supported by the Cisco Small Business Support Center as well as the Small Business Support Community.

Cisco WAP121 and WAP321 Wireless-N Access Points with Single Point Setup



Figure 1 features Single Point Setup, device connectivity, and connection to wired network and devices.

Figure 1. Single Point Setup and Connection to Wired Network and Devices

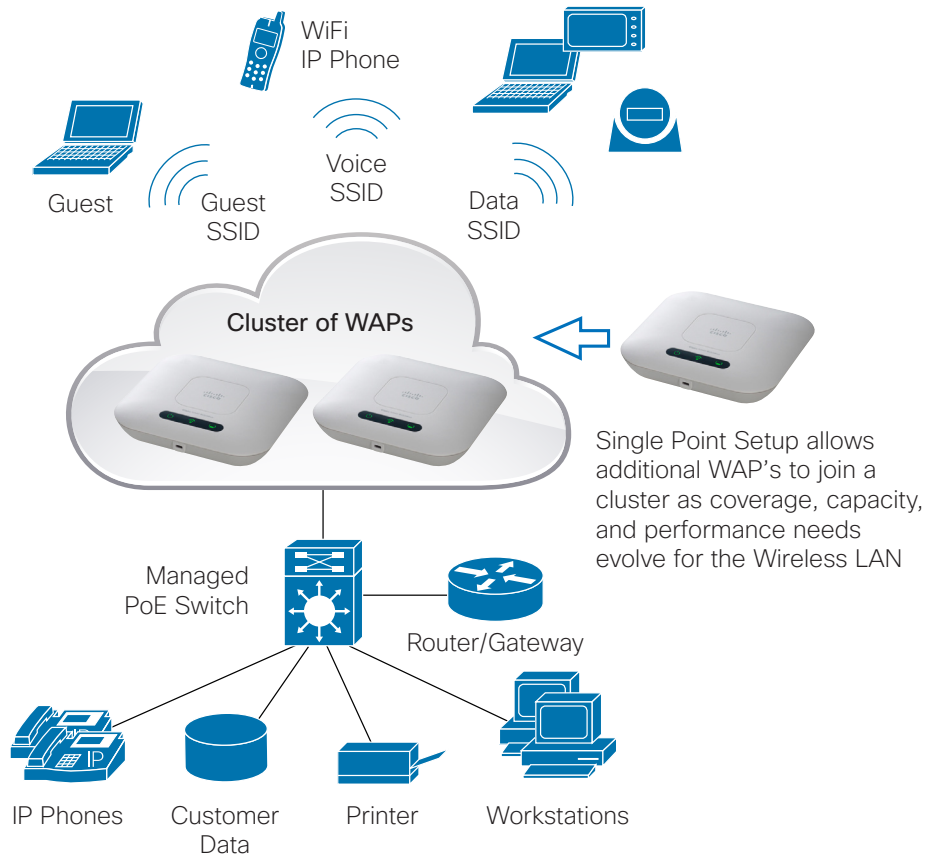


Table 1 outlines the features of both products.

Table 1. Cisco WAP121 and WAP321 Feature Comparisons

| Feature | WAP121 | WAP321 |
|---|---------|------------------|
| Wi-Fi Standards (a/b/g/n) | b/g/n | a/b/g/n |
| RF Band (2.4 Ghz, 5 Ghz, or Dual) | 2.4 GHz | 2.4 or 5 GHz |
| Maximum Active WLAN Clients | 16 | 32 |
| Number of SSID Supported | 4 | 8 |
| Ethernet Port Speed | 10/100 | 10/100/100 |
| DFS Support | No | Yes (EU version) |
| Captive Portal | No | Yes |
| Maximum Number of Access Points Supported in a Single Point Setup Group | 4 | 8 |



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Figure 2 explains how Cisco WAP121 and WAP321 fit with other Cisco products.

Figure 2. Positioning Cisco WAP121 and WAP321 to Other Cisco Access Points and Services

| | Small Business APs | Cisco Classic APs & Controllers |
|--------------------------------------|---|--|
| Target Market | SMB | SB, Mid-market and Enterprise |
| TCO | Lower CapEx | Lower OpEx (overall network life) |
| Integration | Seamlessly integrates with other Cisco SMB solutions | Foundation for Borderless Networks solutions |
| Support | Cisco Small Business Support Center | Cisco TAC |
| Features | SMB Architecture, ease-of-use | Advanced Architectures – TrustSec, Medianet, EnergyWise, Smart Operations |
| Software | Linux Based Software | Cisco IOS Software |
| Orderability / Refresh Cycles | 3-5 years orderability (2 tier Only) 1-2 years product refresh | 5-7 years orderability (2 tier & direct) 3-5 years product refresh |
| Services | Small Business Services | Cisco SMARTnet® / SmartCare Services |
| Scalability | Scale to a few sites | Scale up to world's largest networks |
| Management | Optimized for deployment and management of SMB networks | Multiple enterprise-level management options: CNA, Prime LMS for large/multi-site networks with TCO emphasis |
| Warranty | Limited Lifetime Hardware Warranty | 90-Day Limited Hardware Warranty |





Cisco WAP121 and WAP321 Wireless-N Access Points with Single Point Setup

Table 2 outlines how Cisco WAP121 and WAP321 compare against competitors' offerings.

Table 2. Competitive Comparison Chart

| Feature | Cisco WAP121 | Cisco WAP321 | D-Link DAP-2310 | D-Link DAP-2553 | Netgear WNAP320 |
|---------------------------------------|---|---|--|--|---|
| Wi-Fi standards (a/b/g/n) | b/g/n | a/b/g/n | b/g/n | a/b/g/n | a/b/g/n |
| RF Band (2.4 Ghz, 5 Ghz, or Dual) | 2.4 GHz | 2.4 or 5 GHz | 2.4 or 5 GHz | 2.4 or 5 GHz | 2.4 or 5 GHz |
| Controller-Less Management Technology | Single Point Setup with clustering | Single Point Setup with clustering | Access point array | Access point array | Requires controller (controller-less coming soon) |
| Simplified Deployment | Wizard-based setup guides the setup process | Wizard-based setup guides the setup process | Access point array's master/slave concept that is not simplified | Access point array's master/slave concept that is not simplified | N/A |
| Scale | 4 – WAP121s per cluster. Deploy multiple clusters as scaling needs evolve | 8 – WAP321s per cluster. Deploy multiple clusters as scaling needs evolve | Manage up to 8 D-Link AirPremier business access points | Manage up to 8 D-Link AirPremier business access points | N/A |

For More Information

For more information on the new Cisco WAP121 and WAP321 Wireless-N Access Points with Single Point Setup visit www.cisco.com/cisco/web/solutions/small_business/products/wireless/.