

# Wireless Competitive Comparison







	Cisco	HPE	Huawei
<b>Innovations</b>			
<p><b>Recognize and service 1400+ apps</b></p> <p>Differentiate between nonencrypted and encrypted apps to help ensure appropriate treatment of business-critical traffic.</p>	<p>Cisco access switches can inspect traffic and application flows to enforce network access policy and protect against attacks via <a href="#">Cisco Flexible NetFlow</a>, <a href="#">DNS-AS</a>, <a href="#">NBAR</a>, and <a href="#">Cisco Prime Infrastructure</a>.</p>	<p>HPE switching platforms are limited to basic traffic classification and policy enforcement via ACLs and are further limited by memory capacity in the access switching platforms.</p>	<p><b>Limited</b> Limited SLA monitoring with iPCA.</p>
<p><b>Track users on location via BLE or Wi-Fi</b></p> <p>Get a realistic and granular view of customer locations, whether tracking via BLE or Wi-Fi.</p>	<p><a href="#">Cisco CMX</a>, along with <a href="#">Virtual BLE Beacon</a> and <a href="#">Hyperlocation</a>, supports the tracking of BLE and Wi-Fi devices with location accuracy up to 1-2 meters.</p>	<p><b>Limited</b> HPE has limited support, with Bluetooth in the access points but lacks precise Wi-Fi-based location.</p>	
<p><b>Engage with customers on location</b></p> <p>Make relevant business decisions while providing a more personalized experience for customers.</p>	<p>The <a href="#">Cisco CMX</a> solution offers a better understanding of how users interact with the environment so businesses can make better decisions.</p>	<p>HPE provides BLE location in its access points, tags, and Meridian application for wayfinding and customer engagement.</p>	

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<b>Innovations</b>			
<p><b>Monitoring by endpoint type</b></p> <p>Monitor and classify behaviors of devices and data that are critical to identifying problems.</p>	<p>Cisco can use analytics to monitor behavior with <a href="#">Stealthwatch</a> and <a href="#">NetFlow</a>, and classify traffic on the edge and inside the network with Cisco <a href="#">TrustSec</a>.</p>	<p><b>Limited</b></p> <p>Very limited functionality, with Aruba Tunneled Node offered as a limited solution.</p>	<p><b>Limited</b></p> <p>iPCA is offered as an option but provides limited platform support and visibility.</p>
<p><b>Support new capabilities without major upgrades</b></p> <p>Avoid major upgrades by leveraging existing access points, controllers, and switches without performance impact.</p>	<p>Through the integration of custom ASICs, UADP, and <a href="#">access point modularity</a>, Cisco offers support for new innovations.</p>	<p><b>Limited</b></p> <p>No support for modular access points. Switching platforms use a custom ASIC with limited extensibility.</p>	<p><b>Limited</b></p> <p>No current support for modular access points that support location-based analytics and beacons/BLE.</p> <p>Only <a href="#">AP4050DN</a> with some modularity for IoT use cases.</p>

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<b>Agility</b>			
<p><b>Improve experience for Apple users</b></p> <p>Promote a better user experience for business-relevant applications on all Apple devices.</p>	<p><a href="#">Cisco and Apple</a> have worked together to provide better user experiences for Apple device users when connected to a Cisco network.</p>	<p><b>Limited</b></p> <p>Functionality can be supported only through manual QoS prioritization and Wi-Fi standards.</p>	<p><b>Limited</b></p> <p>Functionality can be supported only through manual QoS prioritization.</p>
<p><b>Help ensure user experience during peak times</b></p> <p>Automatically optimize a wireless network during unexpected peak times without adding new access points.</p>	<p><a href="#">Flexible Radio Assignment</a> will automatically optimize your network and improve user experiences during unpredicted times of high density.</p>		<p><b>Limited</b></p> <p>Huawei supports software-based radio configuration in its AP8030, but it does not support dual 5-GHz radios in its access points.</p>
<p><b>Consistent application performance across the network</b></p> <p>Help ensure voice and video experiences across a network automatically, without IT intervention.</p>	<p>Through best practices, the <a href="#">EasyQoS</a> application provides a simplified method of delivering end-to-end QoS.</p>		<p><b>Limited</b></p>
<p><b>Detect and set features to new devices</b></p> <p>When IP phones, cameras, access points, or other devices connect, configurations such as QoS, VLAN, and security are automatically applied.</p>	<p>Through <a href="#">Cisco Auto Smartports</a>, devices are dynamically detected and ports configured based on the device type detected on the port.</p>	<p><b>Limited</b></p> <p>HPE can detect and set characteristics on an access point attaching to an HPE switch, but cannot detect other types of devices.</p>	

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<b>Agility</b>			
<p><b>Power resiliency for IoT and other devices</b></p> <p>Get an always-on environment for IoT and other devices that are powered via PoE, even when the switch reboots.</p>	<p>Cisco offers <a href="#">Persistent PoE</a> and Fast PoE and <a href="#">Universal PoE</a> while providing multiple-level redundancy through <a href="#">StackWise</a>.</p>	<p><b>Limited</b></p> <p>HPE offers basic PoE/PoE+ (30W) support and supplies 1:1 power redundancy via dual power supplies supported in a limited number of switches.</p>	<p>Huawei supports PoE and PoE+ PoH (95W) on a single S5700 platform. Power redundancy is 1:1 PoH (power over HDMI (95W) on a single S5700 platform.</p>
<p><b>Consistent automation across the WAN, WLAN, and wired network</b></p> <p>Using a single pane of glass, deploy a new branch online, or roll out a new application policy within minutes.</p>	<p>Use <a href="#">Cisco Prime Infrastructure</a> to centrally provision WAN path selection with <a href="#">IWAN</a> and security, encryption, to application visibility and control via <a href="#">APIC-EM</a> and <a href="#">Cisco TrustSec</a>.</p>	<p><b>Limited</b></p> <p>HPE uses SDN controllers and AirWave for automated deployment of switches and access points. Missing is the ability to manage WAN devices in AirWave.</p>	

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<b>Security</b>			
<p><b>Threat detection</b></p> <p>Rapidly eliminate threats across the entire network (wired and wireless) from a single place.</p>	<p>Eliminate threats across the network with Cisco's effective security solutions. Products include <a href="#">Stealthwatch</a>, <a href="#">TrustSec</a>, <a href="#">Identity Services Engine</a>, and <a href="#">Rapid Threat Containment</a>.</p>		
<p><b>Identify wireless sources of interference or threats</b></p> <p>Automatically detect and mitigate sources of threats or RF interference in a wireless network without affecting performance.</p>	<p>Cisco Aironet access points use <a href="#">Clean Air</a>, <a href="#">Hyperlocation Module</a>, and <a href="#">Flexible Radio Assignment</a> to scan, locate, and eliminate security threats or RF interference..</p>	<p>HPE uses a software-based solution that lacks efficiency and does not provide continuous scanning on all channels.</p>	
<p><b>Security active-learning</b></p> <p>Prevent new threats to the network before being hacked.</p>	<p>Cisco Talos feeds strengthen defenses and protect against known and emerging threats.</p>	<p>Through the Niara acquisition and integration in ClearPass, HPE can provide machine learning for security concerns.</p>	
<p><b>Intent-based networking for availability, agility, and policy segmentation</b></p> <p>Intent-based networking improves network availability and agility. Streamlines end-to-end network lifecycle management through automated design, implementation, and operation and advanced network assurance. Download <a href="#">Gartner report</a>.</p>	<p>Centralize and automate network design, policy, and provisioning of all wired and wireless networks with Cisco DNA Center.</p>	<p><b>Limited</b> Aruba Tunneled Node is offered as a catch-all solution, but it cannot scale.</p>	

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<b>Apple and Cisco partnership</b>			
Operating system-level optimization for improved roaming of iOS devices			
Operating system-level prioritization of business-critical applications for iOS and MacOS devices			
iOS device view of network performance to improve troubleshooting	