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	Cisco	HPE	Huawei	Arista
Innovations				
Track user location via BLE or Wi-Fi	<p>Cisco CMX, with Virtual BLE Beacon and Hyperlocation, supports tracking of BLE and Wi-Fi devices with location accuracy up to 1-2m.</p>	<p>Limited HPE has limited support with Bluetooth in the access points but lacks precise Wi-Fi-based location.</p>		
Engage with customers on location	<p>The Cisco CMX 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 applications for wayfinding and customer engagement.</p>		
Monitoring by endpoint type	<p>Cisco can use analytics to monitor behavior with Stealthwatch and Flexible NetFlow, and classify traffic on the edge and the inside the network with TrustSec.</p>	<p>Limited Aruba switches support sFlow technology but are prone to false alarms, blurred analysis, and missed packets.</p>	<p>Limited iPCA is offered as an option, but provides limited platform support and visibility.</p>	
Support new capabilities without major upgrades	<p>Through the integration of custom ASICs, UADP, and Access Point Modularity, Cisco offers support for new innovations.</p>	<p>Limited No support for modular APs. Switching platforms use a custom AISC with limited extensibility.</p>	<p>No current support for modular access points or switches.</p>	<p>No wireless platforms, and switching platforms are based on off-the-shelf chip components.</p>













	Cisco	HPE	Huawei	Arista
Network and Infrastructure Agility				
Unified policy deployment	 <p>Across wired, wireless, and WAN.</p>	 <p>HPE has a different interface for management.</p>	 <p>Limited</p>	
Actionable data	 <p>Across wired, wireless, and WAN.</p>	 <p>Limited</p>	 <p>Limited</p>	
Machine learning				
Better experience for Apple users	 <p>Cisco and Apple have joined efforts to provide a better user experience for Apple device users connected to a Cisco network.</p>	 <p>Limited Functionality can only be supported through manual QoS prioritization and Wi-Fi standards.</p>	 <p>Limited Functionality can only be supported through manual quality-of-service prioritization.</p>	
Optimize wireless during peak usage	 <p>Flexible Radio Assignment automatically optimizes the network, improving user experiences during unpredicted times of high density.</p>		 <p>Limited Huawei supports software-based radio configuration in its AP8030 but it does not support dual 5-GHz radios in its access points.</p>	

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Network and Infrastructure Agility				
Consistent app performance across network	 <p>The EasyQoS application provides a simplified way to deliver end-to-end quality of service.</p>			
Detect and set features to new devices	 <p>Cisco Auto Smartports dynamically detects devices and configure ports based on device type.</p>	 <p>Limited HPE can detect and set characteristics on an access point attaching to an HPE switch, but it cannot detect other types of devices.</p>		
Power resiliency for infrastructure	 <p>Cisco offers Persistent PoE and Fast PoE and Universal PoE and provides multiple-level redundancy through StackWise.</p>	 <p>HPE offers basic PoE/PoE+ (30W) support. A limited number of switches support dual power supplies for 1:1 power redundancy.</p>	 <p>Huawei supports PoE and PoE+ Power over HDMI (PoH; 95W) on a single S5700 platform. Power redundancy is 1:1 PoH (95W) on a single S5700 platform.</p>	 <p>Arista platforms offer no PoE support.</p>
Automation across WAN, WLAN, wired	 <p>Prime Infrastructure supports wired and wireless and can centrally provision WAN path selection with IWAN. Get security, encryption, app visibility, and control with APIC-EM and TrustSec.</p>	 <p>Limited HPE uses SDN controllers and AirWave for automated deployment of switches and APs. Missing is the ability to manage WAN devices in AirWave.</p>		

	Cisco	HPE	Huawei	Arista
Network and Infrastructure Agility				
Power over Ethernet		 <p>Limited HPE has some UPOE-capable switches but does not support advanced PoE capabilities simultaneously. UPOE, Perpetual PoE, and Fast PoE must be managed in separate instances.</p>	 <p>Limited Huawei has some UPOE-capable switches but does not support advanced PoE capabilities simultaneously. UPOE, Perpetual PoE, and Fast PoE must be managed in separate instances.</p>	 <p>Limited Arista has some UPOE-capable switches but does not support advanced PoE capabilities simultaneously. UPOE, Perpetual PoE, and Fast PoE must be managed in separate instances.</p>
Policy-defined segmentation				
Device profiling for granular policy				
Software-based patching				
mGig across 48 ports				
Audio Video Bridging				

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Security				
Group users and devices for policy compliance	 <p>Software-Defined Access creates logical/virtual groups that allow security policy to move with the user.</p>	 <p>VLAN based.</p>		
User and application segmentation	 <p>Software-Defined Access uses software-based segmentation to keep different traffic types separate.</p>	 <p>Exception based.</p>		
Encrypted-traffic threat detection	 <p>With Cisco infrastructure and Stealthwatch, organizations can analyze metadata and apply AI to provide real-time security insights for encrypted traffic with 99.993% accuracy.</p>			
Encrypted-traffic threat and malware detection	 <p>Cisco security solutions—including Stealthwatch, TrustSec, Identity Services Engine, and Rapid Threat Containment—eliminate threats across the network.</p>	 <p>Limited HPE requires network off-load.</p>		

	Cisco	HPE	Huawei	Arista
Security				
Identify wireless interference or threats	 <p>Cisco Aironet access points use CleanAir, Hyperlocation Module, and Flexible Radio Assignment to locate and eliminate security threats and RF interference.</p>	 <p>HPE's software-based solution lacks efficiency and does not provide continuous scanning on all channels.</p>		
Security active learning	 <p>Talos intelligence feeds strengthen defenses against known and emerging threats.</p>	 <p>Through the Niara acquisition and integration in ClearPass, HPE can provide machine learning for security concerns.</p>		
Trustworthy systems	 <p>Secure development lifecycle is published and verifiable. Products have trust anchors, secure boot, and runtime prevention. Software is digitally signed.</p>	 <p>Limited</p>		
Distributed security anomaly detection				
Incident-response work flow optimization				

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Programmability				
On-box analytics				
ASICs support programmable pipeline			 Limited Huawei's ENP2 is in limited parts of its portfolio and has not been proven to enable features in the future.	
Model-based programming capabilities		 Limited		

Updated on October 11, 2017, based on public information.