

Wired and Wireless LAN Solution Comparison

Explore campus wired and wireless solutions in a side-by-side comparison with Juniper, driven by Mist AI, Cisco, Meraki and Aruba. See the key features to consider when building out your campus network for the AI-Driven Enterprise.

Let's compare* solutions in their breadth and depth of features



Essential Wired Features

Wired Assurance	<p>● ● ● ● ●</p> <ul style="list-style-type: none"> - Measure wired experiences with Service Level Expectations (SLEs). - Switch templates offered within UI; use CLI for corner cases. - Dynamic port config that works with any RADIUS server. - Port profiles with manual or dynamic config based on endpoint type. 	<p>● ○ ○ ○ ○</p> <ul style="list-style-type: none"> - Limited insight into wired experience. - Switch templates are only model specific. - Dynamic port config only works for Meraki APs. - No concept of port profiles; ports must be tagged individually. 	<p>● ○ ○ ○ ○</p> <ul style="list-style-type: none"> - Limited insight into wired experience. - Many features require CLI templates. - Dynamic port config requires Clearpass and Mobility Controller with lock-in architectures. - Port profiles require lots of manual config. 	<p>● ○ ○ ○ ○</p> <ul style="list-style-type: none"> - Requires on-premises DNA Center. - No UI based templates and CLI is switch model and version specific. Expertise required in template builder. - Dynamic port config not supported in greenfield with Cisco only devices and ISE. - No port profiles.
Telemetry	<p>● ● ● ● ●</p> <p>API driven and leverages telemetry data from Juniper EX Series Switches to offer anomaly detection and identify when switch health is trending negatively.</p>	<p>● ● ○ ○ ○</p> <p>Limited telemetry.</p>	<p>● ● ○ ○ ○</p> <p>Telemetry for wireless, but very limited for wired switching.</p>	<p>● ● ● ○ ○</p> <p>Limited telemetry.</p>
Stacking capabilities	<p>● ● ● ● ●</p> <p>10 member stacking with standards DAC and flexible optics of various lengths up to 960Gbps.</p>	<p>● ● ● ○ ○</p> <p>8 member stacking.</p>	<p>● ● ● ○ ○</p> <p>10 member stacking.</p>	<p>● ● ● ● ○</p> <p>8 member Stackwise with proprietary cables and max of 3m length.</p>
High availability for redundancy	<p>● ● ● ● ●</p> <ul style="list-style-type: none"> - Virtual Chassis leads the wiring closet solution with NSSU, GRES, high capacity backplane, etc. - Juniper switches support redundant hot swappable power supplies and fans. - Offers a variety of choices: MC-LAG, ESI-LAG, EVPN-VXLAN. 	<p>● ● ● ○ ○</p> <p>Only stacking.</p>	<p>● ● ● ○ ○</p> <p>Only offers VSX for distribution.</p>	<p>● ● ● ● ○</p> <p>Proprietary SD-Access solution and no interoperability with 3rd parties which also require DNA Center to orchestrate.</p>
Multigigabit	<p>● ● ● ● ●</p> <p>1/2.5/5/10GbE speeds.</p>	<p>● ● ● ● ●</p> <p>1/2.5/5/10GbE speeds.</p>	<p>● ● ● ● ●</p> <p>1/2.5/5/10GbE speeds.</p>	<p>● ● ● ● ●</p> <p>1/2.5/5/10GbE speeds.</p>
Power over Ethernet	<p>● ● ● ● ●</p> <p>UPoE/PoE/PoE+.</p>	<p>● ● ● ● ●</p> <p>UPoE/PoE/PoE+.</p>	<p>● ● ● ● ○</p> <p>Up to 60W.</p>	<p>● ● ● ● ●</p> <p>UPoE/PoE/PoE+.</p>

Essential Wired Features (Cont.)

Integrated network access control	<p>● ● ● ● ●</p> <p>Compatible with 3rd parties such as Forescout, Clearpass, ISE, etc.</p>	<p>● ● ● ○ ○</p> <p>Only ISE integration.</p>	<p>● ● ● ● ●</p> <p>Clearpass is compatible with 3rd parties such as Forescout, ISE, Checkpoint, etc.</p>	<p>● ● ● ○ ○</p> <p>ISE & DNAC does not work with 3rd party.</p>
Security	<p>● ● ● ● ●</p> <ul style="list-style-type: none"> - Juniper Connected Security brings visibility and enforcement to every part of the network. - SecIntel leverages EX Switches to quarantine compromise devices and Mist APs to monitor signs of compromise in connected devices. - MACSEC256 on select platforms. 	<p>● ● ● ● ○</p> <p>ISE and Stealthwatch. Integration with Open DNS.</p>	<p>● ● ● ● ○</p> <ul style="list-style-type: none"> - Clearpass and Policy Enforcement Firewalls (PEFs) deliver enhanced visibility and policy enforcement. - Reliance on partners for integrated security. 	<p>● ● ● ● ○</p> <p>ISE and Stealthwatch. Integration with Open DNS.</p>
Common hardware building blocks	<p>● ● ● ● ●</p> <p>A single operating system across the Juniper hardware portfolio, becoming common building blocks for WAN, WLAN and wired networks.</p>	<p>● ● ● ○ ○</p> <p>One OS but requires a complete different set of hardware (MX/MS/MR) from DNA solution.</p>	<p>● ● ● ○ ○</p> <p>Convergence of HP and Aruba switches, new OS-CX runs on specific hardware platforms leading to a mix of operating systems.</p>	<p>● ● ○ ○ ○</p> <ul style="list-style-type: none"> - Multiple non-integrated products that each have their own OS. - Can't be managed by Meraki Cloud. - Hardware dependencies force upgrades to be DNA ready; Meraki requires a completely different set of hardware.
Fabric architectures	<p>● ● ● ● ●</p> <p>EVPN-VXLAN, MC-LAG, ESI-LAG, VC supports 10 devices for stacking.</p>	<p>● ● ● ○ ○</p> <ul style="list-style-type: none"> - Lacks scale and full stack support for large enterprise without 100G and modular core offerings. - Does not support 3-tier deployment for bigger deployments. 	<p>● ● ○ ○ ○</p> <p>Poor resiliency with limited EVPN-VXLAN capabilities.</p>	<p>● ● ● ● ○</p> <p>SDA only has support for EVPN-VXLAN (proprietary using LISP).</p>
Multivendor support	<p>● ● ● ● ○</p> <p>Built on open standard technologies like EVPN-VXLAN and NAC.</p>	<p>○ ○ ○ ○ ○</p> <p>Does not support multivendor.</p>	<p>● ● ● ○ ○</p> <p>On-premises AirWave can do multivendor, but Cloud Central cannot.</p>	<p>● ● ● ● ○</p> <p>Proprietary protocols.</p>

Essential Wireless Features

Inline microsegmentation	<p>● ● ● ● ○</p> <p>WLAN classifies IoT/headless devices and segments by policy.</p>	<p>● ● ○ ○ ○</p> <p>Stateful firewall in AP with device/app.</p>	<p>● ● ● ○ ○</p> <p>- Stateful firewall in controller. - IoT classification requires ClearPass \$\$\$.</p>	<p>● ○ ○ ○ ○</p> <p>Requires ISE.</p>
Personal WLAN (private user groups)	<p>● ● ● ● ●</p> <p>Self-serve personal WLAN for segmentation. Unique PSK.</p>	<p>● ○ ○ ○ ○</p> <p>Shared PSK or requires one SSID per group.</p>	<p>● ● ○ ○ ○</p> <p>- Requires ClearPass \$\$\$ for user/role segmentation. - Shared PSK.</p>	<p>● ○ ○ ○ ○</p> <p>- Requires ISE \$\$\$ for user/role segmentation. - Shared PSK.</p>
Real-time RF view	<p>● ● ● ● ●</p> <p>Real-time RF glasses show actual Wi-Fi and BLE coverage from both AP and client.</p>	<p>● ○ ○ ○ ○</p> <p>Wi-Fi only; predicted, not actual RF coverage; not real-time.</p>	<p>● ● ○ ○ ○</p> <p>- Wi-Fi only; predicted, not actual RF coverage; not real-time. - Requires AirWave appliance.</p>	<p>● ● ○ ○ ○</p> <p>- Wi-Fi only; predicted, not actual RF coverage; not real-time. - Requires prime appliance.</p>
Fast AP boot	<p>● ● ● ● ●</p> <p>APs boot under 20 seconds.</p>	<p>○ ○ ○ ○ ○</p> <p>~1 minute.</p>	<p>○ ○ ○ ○ ○</p> <p>Several minutes.</p>	<p>○ ○ ○ ○ ○</p> <p>Several minutes.</p>
Automation and Optimization	<p>● ● ● ● ●</p> <p>AI for AX to automate and optimize Wi-Fi 6 network settings.</p>	<p>● ● ○ ○ ○</p> <p>Lack of AI with manual, static configuration of features.</p>	<p>● ● ○ ○ ○</p> <p>Lack of AI with manual, static configuration of features.</p>	<p>● ● ○ ○ ○</p> <p>Lack of AI with manual, static configuration of features.</p>

“ Only you can prevent network fire drills before they happen. Use AI to unlock your creative powers to reduce OpEx. ”

Architecture

<p>Core design</p>	<p>● ● ● ● ●</p> <ul style="list-style-type: none"> - Controller-free modern microservices architecture. - Service containerization. - Quick and low-risk feature updates. - Near real-time bug fixing without network disruption. 	<p>● ● ● ○ ○</p> <ul style="list-style-type: none"> - 1st generation cloud. - Legacy shared database in hosted database 'cloud'. - Virtual controller-based. 	<p>● ● ○ ○ ○</p> <ul style="list-style-type: none"> - Aruba ESP is the redesign of Aruba Central with Management. - The controller-based architecture has four different clouds. - Users must upgrade, maintain and integrate all of the software. - Monolithic code bases are expensive to scale and difficult to manage - Limited API support. 	<p>● ○ ○ ○ ○</p> <ul style="list-style-type: none"> - Controller-based legacy monolithic software architecture. - Lack of strong cloud solution, limited to SMB. - Lots of hardware and boxes all needing proper versions. - Multiple non-integrated products and OS (10+).
<p>Scalability</p>	<p>● ● ● ● ●</p> <p>Elastic vertical and horizontal scale without requiring expensive hardware.</p>	<p>● ● ○ ○ ○</p> <ul style="list-style-type: none"> - Complex and non-elastic. - Virtual controllers hosted in co-located data centers. - Require separate servers to scale. 	<p>● ● ● ○ ○</p> <p>Non-elastic with more gateways/controllers required.</p>	<p>● ● ● ○ ○</p> <p>Non-elastic with more controllers required.</p>
<p>Programmability</p>	<p>● ● ● ● ●</p> <ul style="list-style-type: none"> - 100% accessible through APIs. - Support for complete IT automation, such as ticketing or web alerts. 	<p>● ● ○ ○ ○</p> <p>Limited set of 'bolt-on' APIs.</p>	<p>● ● ○ ○ ○</p> <ul style="list-style-type: none"> - Limited set of APIs. - Main switching portfolio has limited APIs, new ArubaOS-CX based switches with APIs lack features and have minimal customer traction. 	<p>● ○ ○ ○ ○</p> <p>Limited set of APIs.</p>
<p>Resiliency</p>	<p>● ● ● ● ●</p> <ul style="list-style-type: none"> - Microservice containerization. - The failure of one service doesn't impact others. 	<p>● ● ● ● ○</p> <p>Redundant virtual controllers.</p>	<p>● ● ● ● ○</p> <ul style="list-style-type: none"> - Very complex with more hardware required (controllers, mobility masters). - Each piece of hardware needs proper software versions. - Version compatability matrix is a nightmare. 	<p>● ● ● ○ ○</p> <ul style="list-style-type: none"> - Complex with more hardware required. - Each piece of hardware needs proper software versions. - Version compatability matrix is a nightmare.
<p>Agility</p>	<p>● ● ● ● ●</p> <ul style="list-style-type: none"> - Modern, microservices-based cloud, instead of monolithic code base. - Rapid updates without network disruption. 	<p>● ● ○ ○ ○</p> <ul style="list-style-type: none"> - 1st generation cloud with VMs and hypervisors. - Slow updates due to the lack of modern microservices architecture. 	<p>● ○ ○ ○ ○</p> <ul style="list-style-type: none"> - Monolithic (brittle) software with poor ability to update for new devices/apps/fixes. - High risk to update. 	<p>● ○ ○ ○ ○</p> <ul style="list-style-type: none"> - Monolithic (brittle) software with poor ability to update for new devices/apps/fixes. - High risk to update.
<p>Deployment flexibility and cloud management</p>	<p>● ● ● ● ●</p> <ul style="list-style-type: none"> - Scale from the largest to the smallest enterprise businesses for rapid updates. - Single click activation for streamline rollouts. - Wired and Wi-Fi Assurance for full lifecycle management. 	<p>● ● ● ○ ○</p> <p>Virtual controllers hosted in co-located data centers.</p>	<p>● ● ● ○ ○</p> <ul style="list-style-type: none"> - Controller/Gateway for large customers, Aruba Central for small-midsize customers; monolithic architecture. - Offers on-premises and cloud solutions. - Offered across different applications. 	<p>● ○ ○ ○ ○</p> <ul style="list-style-type: none"> - On-premises with no cloud offering for SDA. - Uses a centralized, proprietary controller.

Artificial Intelligence

	Juniper	Cisco Meraki	Aruba	Cisco
Virtual Network Assistant	<p>● ● ● ● ○</p> <ul style="list-style-type: none"> - A conversational interface that leverages NLP for better interactions with Mist AI. - Continuous learning through supervised machine learning. - Performs root cause analysis for most detected network issues. - Supports wireless, wired and WAN at a site level. - Troubleshoot issues instead of pulling logs. - Can be accessed through Web UI or API. - Built on 6+ years of continuous learning and rich data science toolbox. 	<p>○ ○ ○ ○ ○</p> <ul style="list-style-type: none"> - Dashboard. - No virtual assistant. 	<p>○ ○ ○ ○ ○</p> <ul style="list-style-type: none"> - Dashboard. - No virtual assistant. 	<p>● ○ ○ ○ ○</p> <ul style="list-style-type: none"> - Dashboard. - Chatbot rumoured but not productized nor available to customers in beta.
Anomaly detection	<p>● ● ● ● ○</p> <ul style="list-style-type: none"> - Proactively identifies anomalies and uses data science tools to determine root cause. - Leverages both wired and wireless SLEs for anomaly detection. - 3rd generation algorithm with ARIMA boosts efficacy. - Anomaly detection performed across Wi-Fi, LAN, WAN, security domains. 	<p>● ○ ○ ○ ○</p> <ul style="list-style-type: none"> - 1st generation anomaly detection algorithm. - Requires data collector appliance. 	<p>● ● ○ ○ ○</p> <ul style="list-style-type: none"> - Limited set of anomaly detection (DHCP, AAA, RF utilization). - Requires NetInsight data collector appliance. 	<p>● ● ○ ○ ○</p> <ul style="list-style-type: none"> - 1st generation anomaly detection algorithm. - Limited anomalies detected (DHCP, AAA, Association, Throughput). - Requires Cisco DNA appliances (3+).
Self-driving capabilities	<p>● ● ● ● ○</p> <ul style="list-style-type: none"> - Marvis Actions framework for self-driving or driver-assist mode (e.g. RF optimization, proactive RMA, unhealthy APs, missing VLANs, bad cables, etc.). - Closed loop feedback validated by Mist AI. 	<p>○ ○ ○ ○ ○</p> <ul style="list-style-type: none"> - Dashboards. - No self-driving capabilities. 	<p>● ○ ○ ○ ○</p> <ul style="list-style-type: none"> - Dashboards. - Lacks self-driving, only having "driver-assist" capabilities where it provides recommendations to IT. - Very basic driver-assist capabilities (identifies channel utilization issues and poor DHCP/AAA performance for IT to manually investigate). 	<p>○ ○ ○ ○ ○</p> <ul style="list-style-type: none"> - Dashboards. - No self-driving capabilities.

Artificial Intelligence (Cont.)

<p>AI-driven location</p>	<p>● ● ● ● ●</p> <p>Creation of probability surfaces in the cloud and ongoing unsupervised machine learning to constantly update the model.</p>	<p>● ○ ○ ○ ○</p> <ul style="list-style-type: none"> - Triangulation dependent on accurate map placement. - Errors introduced by variance in BLE clients. 	<p>● ● ● ○ ○</p> <ul style="list-style-type: none"> - Triangulation dependent on accurate map placement. - Errors introduced by variance in BLE clients. 	<p>● ○ ○ ○ ○</p> <ul style="list-style-type: none"> - Requires CMX appliance onsite (even for DNA Spaces). - Requires 3rd party BLE integration. - Triangulation dependent on accurate map placement. Errors introduced by variance in BLE clients.
<p>AI-driven RF optimization</p>	<p>● ● ● ● ●</p> <ul style="list-style-type: none"> - Based on reinforcement learning. - Optimizes channel/power based on user experience (SLE) and interference graph. - Adapts dynamically on an ongoing basis while network under load. - Deprioritizes triggered DFS channels to boost network uptime. 	<p>○ ○ ○ ○ ○</p> <p>Best effort - No coordinated RF optimization nor use of AI/ML.</p>	<p>● ● ○ ○ ○</p> <ul style="list-style-type: none"> - Basic pattern recognition for comparing and optimizing low-level RF settings only across managed sites. - No use of AI for channel/power optimization. - Requires controller and mobility master for AirMatch RF optimization. - Requires data collector appliances and NetInsight server. 	<p>● ○ ○ ○ ○</p> <ul style="list-style-type: none"> - 15-year old algorithm. - Based on how APs hear each other. - Optimizes channel/power based solely on AP interference graph. - RRM is performed on a static, periodic basis when the load is low.
<p>AI-driven support</p>	<p>● ● ● ● ●</p> <ul style="list-style-type: none"> - Support utilizes Marvis to troubleshoot issues. - Marvis efficacy is continuously evaluated and when support issues arise where data or answer is not available, we train Marvis or add the missing data collection. - When Marvis detects a hardware failure in an AP, it can perform an automatic RMA minimizing the "burden of proof" on IT teams to escalate issues with vendor. - As AP deployments have grown at a rapid pace, yet support tickets remain flat because of Mist AI. 	<p>○ ○ ○ ○ ○</p> <p>Dashboards - No use of AI to automate support or support operations.</p>	<p>○ ○ ○ ○ ○</p> <ul style="list-style-type: none"> - Dashboards. - Lacks automated support capabilities driven by AI. - Aruba AI Assist is a basic manual button to gather logs and email them to Aruba Support for manual analysis. 	<p>○ ○ ○ ○ ○</p> <p>Dashboards - No use of AI to automate support nor support operations.</p>

AI Ops

<p>Service level monitoring</p>	<p>● ● ● ● ●</p> <ul style="list-style-type: none"> - Realtime and inline SLEs for wired and wireless including: Throughput, Time to Connect, Roaming, Coverage, Capacity, AP Uptime, Switch Health. - User/site/device level monitoring. - 100+ states monitored. 	<p>● ○ ○ ○ ○</p> <p>Basic non-real-time event log monitoring (future).</p>	<p>● ● ○ ○ ○</p> <ul style="list-style-type: none"> - Dashboards - Basic non-real-time event log monitoring. - Requires NetInsight appliances and subscription \$. 	<p>● ○ ○ ○ ○</p> <ul style="list-style-type: none"> - Dashboards - Basic non-real-time event log monitoring. - Requires DNA appliances \$\$\$.
<p>Virtual assistant to accelerate help desk</p>	<p>● ● ● ● ○</p> <p>Natural language queries with integrated helpdesk based on Mist AI.</p>	<p>○ ○ ○ ○ ○</p> <p>Not available.</p>	<p>○ ○ ○ ○ ○</p> <p>Not available.</p>	<p>○ ○ ○ ○ ○</p> <p>Not available.</p>
<p>Root cause identification</p>	<p>● ● ● ● ●</p> <p>Automated event correlation using machine learning across wireless/wired/device domains.</p>	<p>● ○ ○ ○ ○</p> <p>Only event logs.</p>	<p>● ○ ○ ○ ○</p> <p>Only available for the recent and feature-deficient Aruba OS-CX based switches which have a small install base.</p>	<p>● ○ ○ ○ ○</p> <p>Limited RCA. Requires DNA appliances \$\$\$.</p>
<p>Dynamic packet capture</p>	<p>● ● ● ● ●</p> <ul style="list-style-type: none"> - Proactively captures packets when an error event occurs in real-time. - Eliminates need to reproduce issues. 	<p>○ ○ ○ ○ ○</p> <p>Manual.</p>	<p>● ○ ○ ○ ○</p> <ul style="list-style-type: none"> - Primarily manual. - Limited auto capture on authentication failure events. - Requires an additional, separate cloud dashboard for troubleshooting and analysis (Cape Networks). - Requires overlay network of Aruba UXI wireless sensor hardware. 	<p>○ ○ ○ ○ ○</p> <p>Manual.</p>
<p>Baselining and anomaly detection</p>	<p>● ● ● ● ●</p> <p>Proactive device/OS baselining and anomaly detection by Mist AI.</p>	<p>● ○ ○ ○ ○</p> <p>Basic anomaly detection.</p>	<p>● ● ○ ○ ○</p> <p>Limited anomaly detection for a few states (DHCP, DNS, Assoc, Auth).</p>	<p>● ● ○ ○ ○</p> <ul style="list-style-type: none"> - Limited anomaly detection. - Requires DNA appliances \$\$\$.
<p>Network analytics</p>	<p>● ● ● ● ○</p> <p>Deep end user data, Freemium and subscription offering.</p>	<p>● ● ● ○ ○</p> <p>Wi-Fi only.</p>	<p>● ● ● ● ○</p> <ul style="list-style-type: none"> - Wi-Fi only. - Requires additional appliance (ALE). 	<p>● ● ● ○ ○</p> <ul style="list-style-type: none"> - Wi-Fi only. - Requires additional appliance (CMX).

Location Engagement and Insight

BLE antenna in APs	<p>● ● ● ● ●</p> <p>Patented 16-element BLE antenna array enables dynamic beam-forming.</p>	<p>● ○ ○ ○ ○</p> <ul style="list-style-type: none"> - Single integrated omni-directional BLE antenna. - Additional 3rd party battery-powered BLE beacons required for coverage. 	<p>● ○ ○ ○ ○</p> <ul style="list-style-type: none"> - Single integrated omni-directional BLE antenna that has poor accuracy. - Additional Aruba battery-powered BLE beacons required for coverage. 	<p>● ○ ○ ○ ○</p> <ul style="list-style-type: none"> - Single integrated omni-directional BLE antenna. - Additional 3rd party battery-powered BLE beacons required for coverage. Only available with Cisco 4800 AP.
Virtual beacons	<p>● ● ● ● ●</p> <p>Unlimited virtual beacons per AP.</p>	<p>○ ○ ○ ○ ○</p> <p>No virtual beacons.</p>	<p>○ ○ ○ ○ ○</p> <p>No virtual beacons.</p>	<p>○ ○ ○ ○ ○</p> <p>No virtual beacons.</p>
Site calibration (unsupervised machine learning)	<p>● ● ● ● ●</p> <p>Unsupervised machine learning calibrates the site and devices without administrator input.</p>	<p>● ○ ○ ○ ○</p> <ul style="list-style-type: none"> - Requires 3rd party integration, not native. - Does not adapt/learn radio performance for new devices. 	<p>● ● ● ○ ○</p> <ul style="list-style-type: none"> - Requires accurate BLE coverage planning and manual beacon placement with mobile app during installation. - Does not adapt/learn radio performance for new devices. 	<p>● ○ ○ ○ ○</p> <ul style="list-style-type: none"> - Requires 3rd party BLE integration. - Does not adapt/learn radio performance for new devices.
Location algorithm	<p>● ● ● ● ●</p> <ul style="list-style-type: none"> - Unsupervised machine learning in the cloud triangulates and adapts to varying BLE clients and changing RF. 	<p>● ○ ○ ○ ○</p> <ul style="list-style-type: none"> - Triangulation dependent on accurate map placement. - Errors introduced by variance in BLE clients. 	<p>● ● ● ○ ○</p> <ul style="list-style-type: none"> - Triangulation dependent on accurate map placement. - Errors introduced by variance in BLE clients. 	<p>● ○ ○ ○ ○</p> <ul style="list-style-type: none"> - Requires 3rd party BLE integration. Triangulation dependent on accurate map placement. - Errors introduced by variance in BLE clients.
Location analytics	<p>● ● ● ● ●</p> <ul style="list-style-type: none"> - BLE & Wi-Fi. - Freemium and subscription services available. - API, first for ease of data sharing. 	<p>● ○ ○ ○ ○</p> <p>Wi-Fi only.</p>	<p>● ○ ○ ○ ○</p> <ul style="list-style-type: none"> - Wi-Fi only. - Requires additional appliance (ALE). - Wi-Fi based proximity tracing that has no BLE antenna array, no ML, and poor accuracy. 	<p>● ○ ○ ○ ○</p> <ul style="list-style-type: none"> - Wi-Fi only. - Require additional appliances (CMX). - Requires Cisco DNA Spaces.

Location Engagement and Insight (Cont.)

Asset tracking	<p>● ● ● ● ●</p> <p>Tracking of 3rd party BLE asset tags.</p>	<p>○ ○ ○ ○ ○</p> <p>No asset tracking.</p>	<p>● ● ● ● ○</p> <p>- Tracking of Aruba BLE asset tags. - Requires Aruba 3xx model APs with integrated BLE beacon or overlay deployment of Aruba AS-100 wireless Sensors.</p>	<p>● ○ ○ ○ ○</p> <p>- Wi-Fi RFID tags only. - Requires additional appliance (CMX Operational Visibility).</p>
BLE overlay for existing Wi-Fi deployments	<p>● ● ● ● ●</p> <p>vBLE APs available.</p>	<p>○ ○ ○ ○ ○</p> <p>No BLE overlay solution.</p>	<p>● ● ○ ○ ○</p> <p>Requires many wall-plug battery-powered Aruba AS-100 wireless Sensors.</p>	<p>○ ○ ○ ○ ○</p> <p>No BLE overlay solution.</p>
Open standards economics	<p>● ● ● ● ○</p> <p>Interoperability, vendor neutral, efficient use of existing resources.</p>	<p>● ● ○ ○ ○</p> <p>Multiple solution offering.</p>	<p>● ● ● ○ ○</p> <p>Multiple Solutions w/ proprietary limitations.</p>	<p>● ● ○ ○ ○</p> <p>Multiple solution offering.</p>
Comprehensive built-in applications	<p>● ● ● ● ○</p> <p>Best of breed solution via partnerships.</p>	<p>● ● ○ ○ ○</p> <p>Multiple solution offering.</p>	<p>● ● ● ● ○</p> <p>Single vendor with proprietary limitations (mapping).</p>	<p>● ● ● ○ ○</p> <p>Workflow, asset visibility rules engine.</p>
Technology versatility	<p>● ● ● ● ○</p> <p>- Native: Wi-Fi, vBLE. - 3rd party integration: BLE, UWB LiDAR, Wi-Fi RADAR.</p>	<p>● ● ○ ○ ○</p> <p>- Native: Wi-Fi. - 3rd party integration: BLE, UWB.</p>	<p>● ● ● ○ ○</p> <p>Wi-Fi, BLE, UWB.</p>	<p>● ● ● ● ○</p> <p>- Native: Wi-Fi. - 3rd party integration: BLE, UWB.</p>





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