

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 Wireless Features

Installation	 Mist Installation App (IOS and Android) Easy to scan QR Code, claim AP and place on site & map can take "top of ladder" pictures that will remain in AP record if there are building changes down the road Auto Provisioning - plug in an AP and automatic Site assignment Dynamic Profile Assignment AP Name Generation Speeds up installation over 5x 	• App just for monitoring, no installation help	• • • Basic App, many clicks hard to use	• • • Basic App, very clunky	ExtremeCloud IQ companion, medium class App with inventory, location, basic visibility and summaries
Essential Wireless Fea	tures Day 1				
Fast AP boot	APs boot under 20 seconds.	– ~1 minute	— Several minutes	– Several minutes	– Several minutes
Automation and optimization	Al for AX to automate and optimize Wi-Fi 6 network settings	 Lack of Al intelligence Manual, static configuration of features Some basic automation usually generating alerts 	 Lack of Al intelligence Manual, static configuration of features All development done in AOS 10 when almost all customers on AOS 8 and the transition is very manual 	 Lack of Al intelligence Manual, static configuration of features 	• No Al for optimization
Inline microsegmentation	• • • • • • • • • • • • • • • • • • •	• • Stateful firewall in AP with device/app - need MX for full functionality	• • • Stateful firewall in controller. IoT classification requires ClearPass \$\$\$	• Requires ISE	• • Combination of several elements from Extreme Networks to provide micro segmentation Needs extra licenses. Need extra equipment and/or software Containers supported on AP











Essential Wireless Features Day 2

Personal WLAN (Private User Groups)	 Self-serve Personal WLAN for segmentation Unique PSK Scalable (5,000) Watch Video 	Shared PSK or requires one SSID per group	 Requires ClearPass \$\$\$ for user/role segmentation Shared PSK (24) 	 Requires ISE \$\$\$ for user/ role segmentation Shared PSK 	 Controller allows user/role segmentation. Limited. Shared PSK PPSK supported, Unable to find maximum supported keys
AI-driven RF optimization (RRM)	 Based on reinforcement learning: Optimizes channel/ power with Al-based reinforcement learning Al continuously maximizes User experience (SLE) and minimizes interference in real-time Adapts dynamically on an ongoing basis while network under load learning from client experience Learns and deprioritized triggered DFS channels to boost network uptime Coverage SLE is an ongoing 'Site Survey' 	 Basic RRM will monitor DFS failure patterns AP's remember their settings through power failures Won't make changes in 'busy hours' 	 ARM - Basic pattern recognition for comparing and optimizing low-level RF settings only across managed sites: Not a true AI solution: doesn't leverage reinforcement learning to improve over time Doesn't adjust RF to maximize user experience Analyzes periodical and static data for daily but not ongoing dynamic updates Requires Controller and Mobility Master for AirMatch RF optimization Requires data collector appliances and NetInsight server 	 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 	Basic RRM. No AI/ML, requires several days of tuning











Essential Wired Features

Wired assurance for provisioning and management	 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 	 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 much be tagged individually 	 Limited insight into wired experience Many features features require CLI templates Dynamic port config requires Clearpass and Mobility Controller with lock-in architectures Port profiles require lots of manual config 	 Requires on-premises DNAC No UI based templates and CLI is switch model and version specific. Expertise required in template builder Dynamic port config not supported, but supported in greenfield with Cisco only devices and ISE No port profiles 	 Limited insight into wired experience. Many features require CLI templates Port profiles very limited configurations No automatic RMA
Telemetry	API driven and leverages telemetry data from Juniper EX Series Switches to offer anomaly detection and identify when switch health is trending negatively	• • Limited telemetry	• • Telemetry for wireless, but very limited for wired switching	• • •	• Telemetry for wireless and limited for wired switching
Stacking capabilities	10 member stacking with standards DAC and flexible optics of various lengths up to 960 Gbps	• • • 8 member stacking	• • • 10 member stacking	8 member Stackwise with proprietary cables and max of 3m length	 B-member stacking high bandwidth. Can support up to 40KM stacking distance. Different Gbps link supported
High availability for redundancy	 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 	• • •	• • • • Only offers VSX for distribution	Proprietary SD-Access solution and no interoperability with 3rd parties; requires DNA center to orchestrate	Yes, virtual chassis SummitStack











Essential Wired Features (Cont.)

Multigigabit	• • • • • • • • 1/2.5/5/10GbE speed	• • • • • • • 1/2.5/5/10GbE speeds	• • • • • • • • 1/2.5/5/10GbE speeds	• • • • • 1/2.5/5/10GbE speeds	• • • • • • • • 1/2.5/5/10/40GbE speeds
Power over Ethernet	UPoE/PoE+.	UPoE/PoE+	Up to 60W	UPoE/PoE+	UPoE/PoE/PoE+/UPoE+
Integrated network access control	• • • • • • Compatible with 3rd parties such as Forescout, Clearpass, ISE, FreeRadius and other, etc.	• • Only ISE integration	Clearpass is compatible with 3rd parties such as Forescout, ISE, Checkpoint, etc.	● ● ● ISE & DNAC does not work with 3rd party	Supported Unified Policy management
Security	 Juniper Connected Security brings visibility and enforcement to every part of the network SecIntel leverages EX Switches to quarantine compromised devices and Mist APs to monitor signs of compromise in connected devices MACSEC256 on select platforms FedRAMP In-Process 	• • • • - ISE and Stealthwatch - Integration with Open DNS	 Clearpass and Policy Enforcement Firewalls (PEFs) deliver enhanced visibility and policy enforcement Reliance on partners for integrated security FedRAMP(cert) 	 ISE and Stealthwatch Integration with Open DNS 	Radsec. IPSec TrustSec FedRAMP(cert)
Common hardware building blocks	 A single operating system across the Juniper hardware portfolio Common building blocks for WAN, WLAN and wired networks 	• • • One OS but requires complete different set of hardware (MX/MS/MR) from DNA solution - some Catalyst switching	 Convergence of HP and Aruba switches New OS CX runs on specific hardware platforms leading to a mix of operating systems 	 Multiple non-integrated products that each have their own OS Some components can be migrated to the Meraki Cloud (losing features) Hardware dependencies force upgrades to be DNA ready; Meraki requires a completely different set of hardware 	Different depending on the line. New version of white box like Open switch











Essential Wired Features (Cont.)

Fabric architectures	EVPN-VXLAN, GPB, MC- LAG, ESI-LAG, VC supports 10 devices for stacking, microsegmentation	 Lacks scale and full stack support for large enterprise without 100G and modular core offerings some Catalyst switching Does not support 3 tier deployment for bigger deployments 	• • Poor resiliency with limited EVPN-VXLAN capabilities	SDA only has support for EVPN-VXLAN (proprietary using LISP)	• • • • Virtual Chassis for Enterprise Supported BPG-EVPN Not deep enough visibility on CloudExtreme IQ
Multivendor support	Built on open standard technologies like EVPN-VXLAN and NAC	Does not support multi vendor	• • • On-premises AirWave can do multi vendor, but Cloud Central can not	Proprietary protocols	• • Built in with open standards but very limited

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











Essential Access Features

			•	•	•
Cloud Native NAC	 Juniper Mist Access Assurance provides: Automatic scaling Service geo-affinity for optimal latency and service redundancy Periodic hitless feature and security updates happen automatically and do not require downtime Worry-free client scale, redundancy, geographic redundancy, and affinity 	No	Customers need to design, plan, and deploy NAC infrastructure considering: - number of client devices - redundancy requirements - geo-affinity requirements Any feature or security update requires: - downtime planning - manual execution for every server in the cluster	Customers need to design, plan, and deploy NAC infrastructure considering: - number of client devices - redundancy requirements - geo-affinity requirements Any feature or security update requires: - downtime planning - manual execution for every server in the cluster	Customers need to design, plan, and deploy NAC infrastructure considering: - number of client devices - redundancy requirements - geo-affinity requirements Any feature or security update requires: - downtime planning - manual execution for every server in the cluster
Simplified Policy Management	Single page for policy creation and management with unified labels	No	 Multiple pages in the UI to configure various Service Set elements (enforcement profiles, enforcement policies, roles and role mapping policies, service sets, dictionaries, etc.) No unified view to see all the policies Understanding and debugging hierarchy is a pain 	 Multiple pages in the UI to configure various Policy elements (authorization profiles, dictionaries, conditions etc.) No unified view to see all the policies Understanding and debugging hierarchy is a pain 	 Multiple tabs and no unified view to see all the policies Understanding and debugging hierarchy is a pain











Essential Access Features (Cont.)

			•	•	• •
End-to-End Visibility	 Client visibility across wired, wireless, and NAC Complete visibility from onboarding to sequences of events 	No	 No end-to-end client-event visibility No sequence of events across wired, wireless, and NAC When troubleshooting client connectivity experience issues, customers need to look into debug Access Tracker on ClearPass for authentication failures and troubleshoot network separately in a different product (WLC, Central, Airwave, etc.) 	 No end-to-end client-event visibility and no sequence of events across wired, wireless, and NAC. When troubleshooting client connectivity experience issues, customers need to look into debug Live Logs on ISE for authentication failures and troubleshoot network separately in a different product (WLC, DNAC, etc.) 	 Limited end-to-end client- connection experience visibility in case of using Extreme Management Center and Extreme Control Not available inside the Extreme XIQ cloud No visibility into granular client network connectivity experience like DHCP, ARP, DNS
Al-Infused NAC	 Marvis: Validates each and every user networking experience across wired, wireless, WAN, and NAC Automatically identifies issues that could impact network and user experience Highlights persistently failing clients or offenders Allows admins to take action and ignore distracting "noise" Provides easy hierarchical debugging and troubleshooting 	No	 No conversational interface or hierarchical debugging Aruba Central AI Insights is nothing more than legacy alerting with all the noise All troubleshooting processes require manual investigation of per-client logs in different products like ClearPass, DNAC, WLC, etc. 	 No conversational interface or hierarchical debugging All troubleshooting processes require manual investigation of per-client logs in different products like ISE, DNA Center, WLC, etc. 	 No conversational interface or hierarchical debugging All troubleshooting processes require manual investigation of per-client logs in either Extreme Management Center or Extreme XIQ Cloud, with limited visibility provided by these logs Extreme XIQ AI-like features are still in early days and do not provide any substantial benefit









Architecture

		• • •	• •	•	• • •
Core design	 Controller-free modern microservices architecture Service containerization Quick and focused low- risk feature updates Near real-time bug fixing without network disruption 	 Server (Data Center) based cloud Legacy sharded database in hosted database 'cloud' (Containerized) Virtual controller-based - trying to implement shard based Microservices 	 Aruba ESP is the redesign of Aruba Central (updated Airwave) 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 	 Controller-based legacy monolithic software architecture DNA = Lots of hardware & boxes all needing proper versions Confusing cloud solution if managed by Meraki (a new option) 	 Third-generation generation cloud Legacy shared database in hosted database 'cloud' Virtual controller-based Controller-based legacy monolithic software architecture Lack of strong cloud solution Lots of hardware and boxes all needing proper versions
		• •	• •	• • •	• • •
Scalability	 Elastic vertical and horizontal scale No expensive hardware required 	 Complex and non-elastic Virtual controllers (Containers) hosted in colocated data centers Require separate servers to scale (Aruba Clearpass, etc) 	 Non-elastic with more gateways/controllers required Push to Aruba Central 	Non-elastic with more controllers required	 Complex and non-elastic. Virtual controllers hosted in co-located data centers. Require separate servers and controllers to scale. On-site controllers stacked
			• •	•	• • •
User interface	Easy to configure with complete exibility on what is visible and in what order	Good looking dashboard with limited customizability	Aruba Central = Airwave with a new wrapper - Not customizable - Need to "look for things"	Bulky User Interface - Non-intuitive - Basic things are hard to find	Good looking dashboard with limited customizability
			• •	•	• •
Programmability	 100% accessible through APIs Support for complete IT automation, such as ticketing or web alerts 	 Limited set of APIs configuration scale is only available via their APIs 	 Limited set of APIs Main switching portfolio has limited APIs, new ArubaOS- CX based switches with APIs lack features and have minimal customer traction 	Limited set of APIs	 APIs portal under ExtremeCloud IQ. No cost UI not based on APIs Limited set of APIs to input information Very confusing depending of the type of the controller. Swagger availability











Architecture

Resiliency	 Microservice containerization The failure of one service doesn't impact others Network remains running if not connected to cloud 	 Redundant virtual controllers Microservices implementation is in "infancy" 	 Very complex with more hardware required (controllers, mobility masters) Each piece of hardware needs proper software versions Version compatability matrix is a nightmare 	 Complex with more hardware required Each piece of hardware needs proper software versions Version compatibility matrix a nightmare Licensing on top of licensing 	 On Prem with more hardware required Each piece of hardware needs proper software versions Version compatibility matrix allows some of the controller, not all ExtremeCloud IQ not defined
Agility	 Modern, microservices- based cloud, instead of monolithic code base Rapid updates without network disruption 	 Still building Data Centers Beginning to use Microservices for specific applications such as 'splash pages' 	 Controller Monolithic (brittle) software with poor ability to update for new devices/apps/fixes High risk to update Aruba Central - Not Microservices as they have scheduled downtimes that last for hours Aruba Clearpass - Scale by adding more Clearpass Servers 	 Cisco DNAC Monolithic (brittle) software with poor ability to update for new devices/apps/fixes Multiple servers that all need right code versions High risk to update Steep learning curve 	 Controllers and hypervisors Slow updates Microservices architecture
Deployment flexibility and cloud management	 Scale from the largest to the smallest enterprise businesses for rapid updates Single click activation for streamline rollouts Wired, Wi-Fi and WAN Assurance for full lifecycle management ZTP Configuration across AP, Switch and WAN gateway Template Driven Use Site variables to easily customize as needed 	• • • • Virtual controllers hosted in co-located data centers - are you going to monitor catalyst AP's or change the Catalyst AP persona to Meraki and lose many features, and very difficult to move back to DNA Center persona	 Controller/Gateway for large customers, Aruba Central for small-midsize customers; monolithic architecture No hierarchical configuration Offers on-premises and cloud solutions Offered across different applications Will offer on-prem Cloud option - very \$\$\$\$ 	 On-premises with no cloud offering for SDA Uses a centralized, proprietary controller are you going to use Meraki to monitor your Catalyst AP's? Why did you buy expensive DNAC 	 Microservices co-located data centers Controller/Gateway for large customers, monolithic architecture Offers on-premises and cloud solutions Offered across different applications











Artificial Intelligence

Virtual Network Assistant	 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 WebUI or API Built on 6 years of continuous learning and rich data science toolbox 	- Dashboard - No virtual assistant	- Dashboard - No virtual assistant	 Dashboard. Chatbot rumored but not productized nor available to customers in beta 	 Dashboard and network assistant only on cloud Chatbot called Co-Pilot, very limited, No Al. Allows NLP version 1.0. No query In beta the last 2 years
Anomaly detection	 Proactively identifies anomalies and uses data science tools to determine root cause Leverages both Wired and Wireless SLEs for anomaly detection Third-generation algorithm with ARIMA boosts efficacy Anomaly detection performed across Wi- Fi, LAN, WAN, Security Domains ChatGPT integrated 	 1st generation anomaly detection algorithm Will go through a weeks worth of data to find some basic anomalies 	 Limited set of anomaly detection (DHCP, AAA, RF utilization) Requires NetInsight Data Collector appliance 	 Ist generation anomaly detection algorithm Limited anomalies detected (DHCP, AAA, Association, Throughput) Requires Cisco DNA appliances (3+) 	 Client 360 tracks basic anomalies Pilot and CoPilot supported 1st generation anomaly detection algorithm Limited anomalies detected (Latency, Throughput, airtime)











Artificial Intelligence (Cont.)

Self-driving capabilities	 Marvis Actions Framework for self-driving or driver- assist mode (e.g. RF optimization, proactive RMA, unhealthy APs, missing VLANs, bad cables, switch config errors, etc.) Validated by Mist Customer Service to solve or help train system Closed loop feedback providing actionable intel to administrators "bottoms up" 	- Dashboards - No self-driving capabilities - Will offer "suggestions" - Top down - digging	 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) Top down digging for next generation log files 	 Dashboards No self-driving capabilities Top down Need to 'nominate' troubled user to begin any active monitoring 	 Dashboards generated by basic math. Lacks self-driving, only having "drive-assist" capabilities where it provides recommendations to IT Limited self-driving capabilities (Latency, Throughput, Airtime).
AI-driven location	Creation of probability surfaces in the cloud and ongoing unsupervised machine learning to constantly update the model.	 Triangulation dependent on accurate map placement Errors introduced by variance in BLE clients 	 Triangulation dependent on accurate map placement Errors introduced by variance in BLE clients Meridian sidelined 	 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 	No











Artificial Intelligence (Cont.)

Al-driven support	 Mist 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 rather than escalating issues with a vendor As AP deployments have grown at a rapid pace, support tickets have remained flat due to the use 	 Dashboards No use of AI to automate support or support operations 	 Dashboards Lacks automated support capabilities driven by Al Aruba Al Assist is a basic manual button to gather logs to email to Aruba Support for manual analysis 	 Dashboards No use of AI to automate support or support or support operations 	- Dashboards. - Lacks automated support capabilities driven by AI
	support fickets have remained flat due to the use of Mist Al				









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Al Ops					
Service level monitoring	 Throughput, Time to Connect, Roaming, Coverage, Capacity, AP Uptime, Switch Health User/Site/Device level monitoring 150+ states monitored Reduce "Mean time to innocence" Zoom Insights, Microsoft Teams integration 	 Meraki health basic log collector will provide basic Time and Latency information 	 Dashboards - Basic non- real time event log monitoring Requires NetInsight appliances and subscription \$ 	 Dashboards - Basic non- real time event log monitoring Requires DNA appliances \$\$\$ 	• • • • • • • • • • • • • • • • • • •
Virtual assistant to accelerate help desk	 Simple queries with integrated helpdesk based on Mist Al continuous learning and evolution Watch Video 	Not available	Not available	Not available	No
Root cause identification	 Automated event correlation using machine learning across wireless/wired/ device domains. Provide real actionable intelligence. 	• • • Basic root cause analysis (suggestions) based on event logs	 Basic RCA for a few wireless senario's and feature- deficient ArubaOS-CX based switches which have a small installed base Log based suggestions are very basic 	 Limited RCA Requires DNA appliances \$\$\$ 	• • • - Yes, can detect root cause. Fair with false positives some of them not correlate











Al Ops (Cont.)

Dynamic packet capture	 Proactively captures packets when an error event occurs in real-time Eliminates need to reproduce issues as every failure has a PCAP starting before the failure and playing though it No more sending out tech folks with sniffers *after* the problem has happened 	Manual	 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 	 Intelligent Packet Capture first a client needs to file a ticket then the client will be tagged to collect data going forward not at all automatic 	No
Baselining and anomaly detection	Proactive device/OS baselining and anomaly detection by Mist Al Watch Video ►	• • •	• • Limited anomaly detection for a few states (DHCP, DNS, Assoc, Auth)	 Limited anomaly detection Requires DNA appliances \$\$\$ 	 Anomaly detection by Pilot and CoPilot
Network analytics	Deep end user data, Freemium & Subscription (Premium Analytics) offering	• • • Full stack, very basic implementation	 Wi-Fi only Requires additional appliance (ALE) 	 Wi-Fi only Requires additional appliance (DNAC) 	Requires additional software, licenses and support











Location Engagement and Insight

BLE antenna in APs	Patented 16-element BLE antenna array enables dynamic beam-forming See Product	 Single integrated omni- directional BLE antenna Additional 3rd party battery- powered BLE beacons required for coverage 	 Single integrated omni- directional BLE antenna that has poor accuracy Additional Aruba battery- powered BLE beacons required for coverage 	 Single integrated omni- directional BLE antenna Additional 3rd party battery- powered BLE beacons required for coverage 	 Single integrated omni- directional BLE antenna
Virtual beacons	● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	No virtual beacons	No virtual beacons	No virtual beacons	No
Site calibration (unsupervised machine learning)	 Unsupervised machine learning Site and device calibration without administrator input 	 Requires 3rd party integration, not native Does not adapt/learn radio performance for new devices 	 Requires accurate BLE coverage planning and manual beacon placement with mobile app during installation Does not adapt/learn radio performance for new devices Meridian deprioritized 	 Requires 3rd party BLE integration Does not adapt/learn radio performance for new devices 	 Wi-Fi/AP BLE and BLE beacon for integration. Does not adapt/learn or auto calibrate. GPS location
Location algorithm	 Unsupervised machine learning Triangulates and adapts to varying BLE clients and changing RF 	 Triangulation dependent on accurate map placement Errors introduced by variance in BLE clients 	 AOS8-AOS10 is a complete rebuild Have to enter all your configuration from scratch No concept of sites, all devices in one group No site variables to simplify configuration Controllers become Gateway's No use for Mobility Masters eWaste Process usually done by partners with "weeks of work" All new feature development is done in AOS10 while customer base is on AOS 8 and doesn't want to upgrade 	 Requires 3rd party BLE integration Triangulation dependent on accurate map placement Errors introduced by variance in BLE clients 	 Triangulation dependent on accurate map placement Errors introduced by variance in BLE clients GPS location Support Micro Location











Location Engagement and Insight (Cont.)

Location analytics	 BLE & Wi-Fi Freemium and subscription services available API-first for ease of data sharing Watch Video > 	• Wi-Fi only	 Wi-Fi only Requires additional appliance (ALE) Wi-Fi based proximity tracing that has no BLE antenna array, no ML and poor accuracy 	 Wi-Fi only Requires additional appliance (DNAC) Requires Cisco DNA Spaces 	 Wi-Fi and BLE beacons Wi-Fi based proximity tracing that has no BLE antenna array, no ML, and poor accuracy Support real time and historical analytics
Asset tracking	Tracking of 3rd party BLE asset tags	No asset tracking	 Tracking of Aruba BLE asset tags Requires Aruba 3xx model APs with integrated BLE beacon or overlay deployment of Aruba AS- 100 wireless sensors 	 Wi-Fi RFID tags only Requires additional appliance (DNAC operational visibility) 	 Wi-Fi, BLE, 802.15.4 Requires additional software and third-party integration
BLE overlay for existing Wi-Fi deployments	• • • • • • • vBLE APs available	No BLE overlay solution	 Requires many wall-plug battery-powered Aruba AS- 100 wireless Sensors 	No BLE overlay solution	• • Yes, BLE beacons Requires licenses, software and support
Open standards economics	Interoperability, vendor neutral, efficient use of existing resources	• • Mulitiple solution offering	Mulitiple Solutions w/ proprietary limitations	• • Mulitiple solution offering	• • RESTful APIs
Comprehensive built-in applications	Best of breed solution via partnerships	• • Mulitiple solution offering	Single vendor with proprietary limitations (mapping)	 Workflow Asset visibility rules engine 	• • Presence, zone tracking and asset visibility rules engine
Technology versatility	 Native: Wi-Fi, vBLE 3rd party integration: BLE, UWB LiDAR, Wi-Fi RADAR 	 Native: Wi-Fi 3rd party integration: BLE, UWB 	• • • Wi-Fi, BLE, UWB	 Native: Wi-Fi Third-party integration: BLE, UWB 	• • • • - Wi-Fi, BLE, Thread - 802.15.4











Future Proofing

Microservices based - always upgrading	 AUSS-AOS10 is a complete rebuild Have to enter all your configuration from scratch No concept of sites, all devices in one group No site variables to simplify configuration Controllers become Gateway's No use for Mobility Masters eWaste Process usually done by partners with "weeks of work" All new feature development is done in AOS10 while customer base is on AOS 8 and doesn't want to upgrade 	 Monolithic upgrades to the DNAC appliances Option now to have Meraki monitor your AP's Option now to change your Catalyst AP 'persona' to Meraki (and lose a bunch of features) 	 Extreme tries to release a cloud update every 30 days, although this has been inconsistent Past feature releases are very hard to find
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