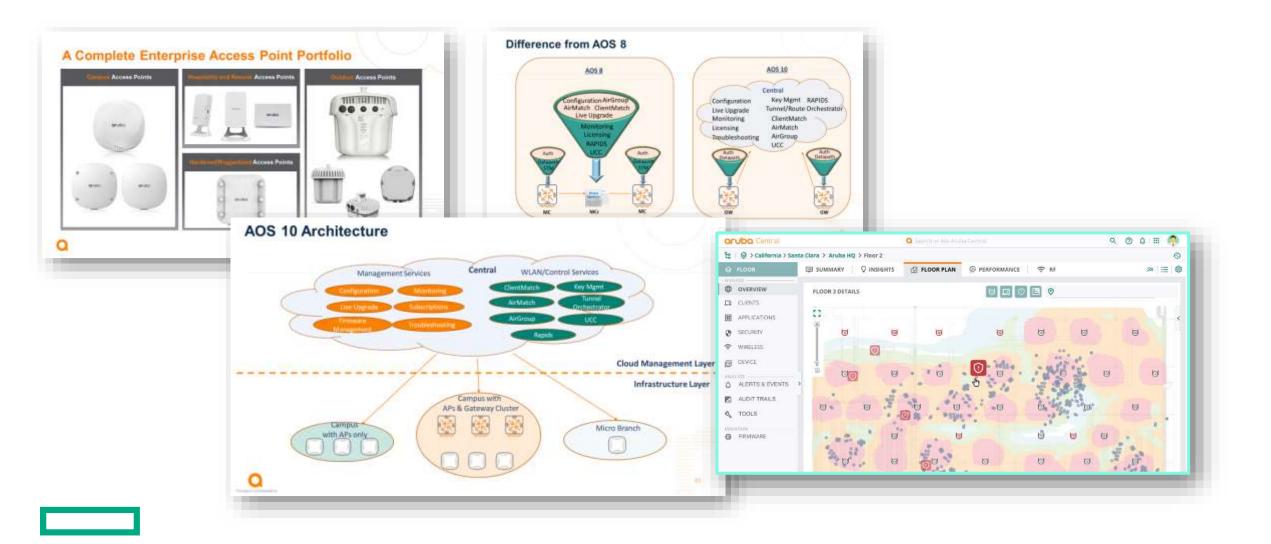
Introducing Central Next Generation

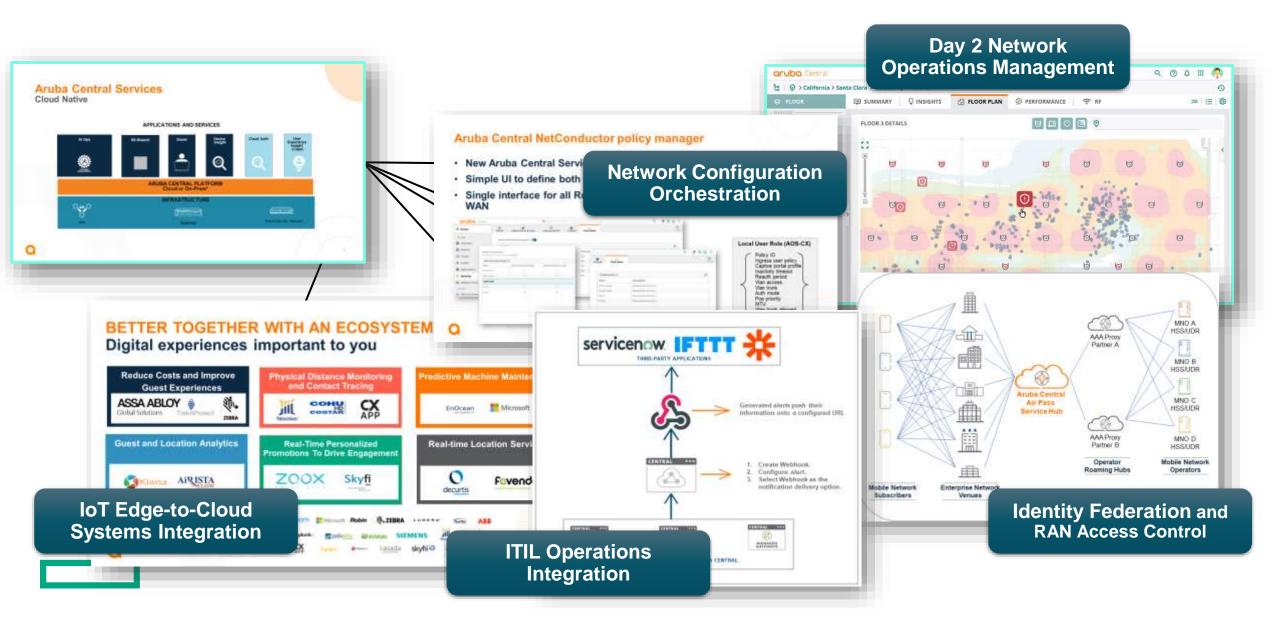
Eric Moore – HPE Aruba Networks SE, Central PA Integra One Con 2024



Most of us think about the Network and Management Systems as Infrastructure...



Aruba Central ... is really a Network Services Platform



AIOps For Improved Troubleshooting And Issue Resolution Automation Reduces MTTR, Increases IT Efficiency

POWERFUL FEATURES

Al Search Natural langua	Network Insights Proactive	AI Assist Automated	Client Insight Accurate	s Insights
queries for fa onboarding & troubleshoot	st network anoma	aly Aruba TAC	profiling to capacity plar n security po	nning & performance
Wi-Fi, Wir Planning, Setur	ed, WAN Infrastru	ICTURE: Se otimization Profile	ecurity: es / Behavior	User: Application / Connectivity
		POWERFUL RES	JLTS	
Conception and a second s		Faster MTTR	63	ewer Support Tickets 38
- mminne	anna ann an a	Of surveye	d customers resolve	Of surveyed customers have

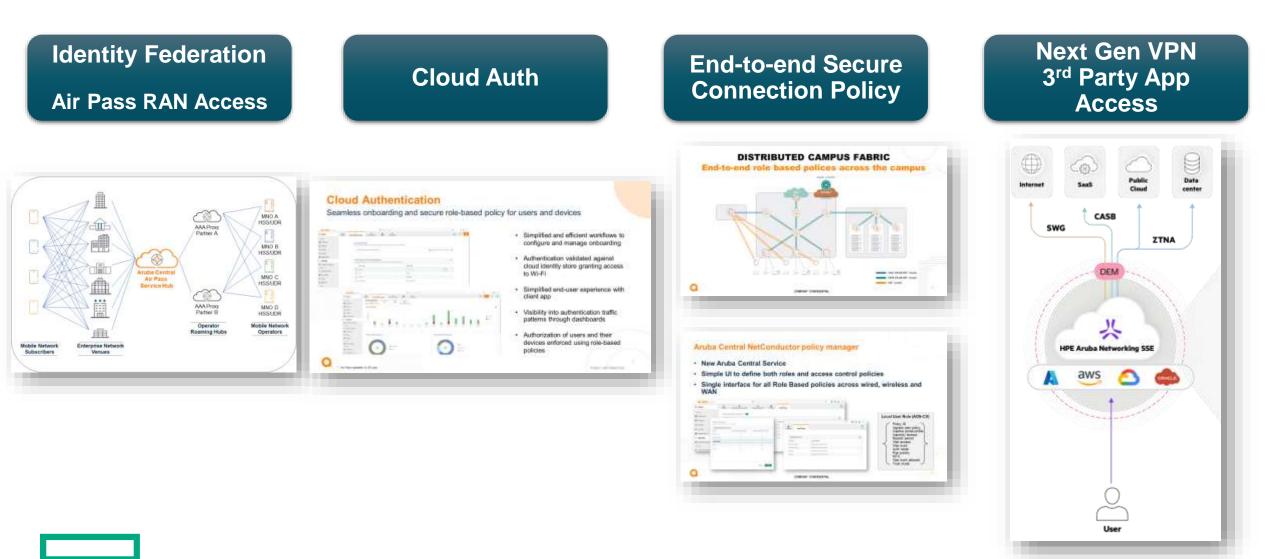
Of surveyed customers resolve

network or user issues at least

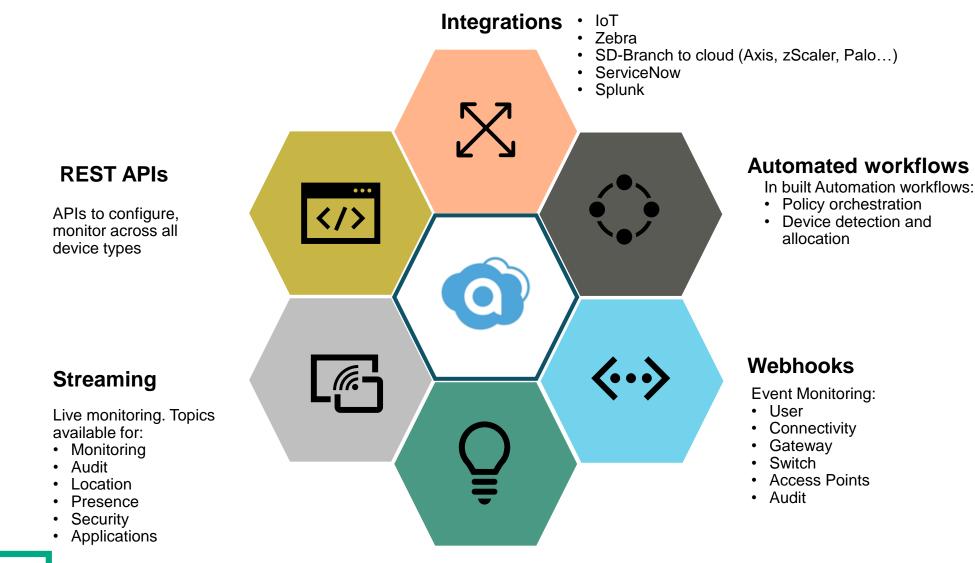
50% faster

Of surveyed customers have reduced IT trouble tickets by at least 50%

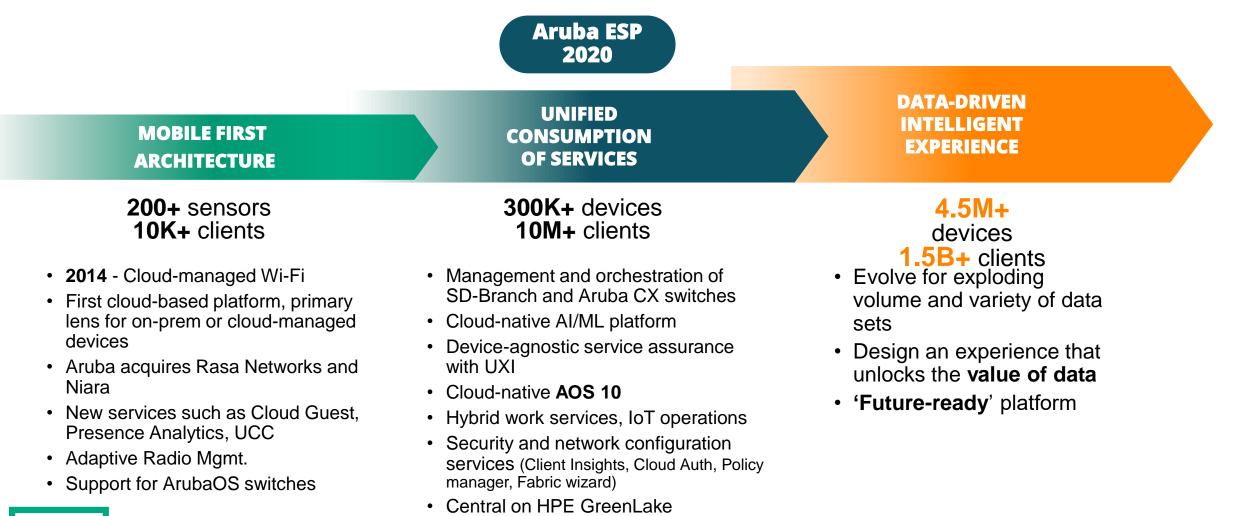
Aruba Central for Secure Network Services



Central Programmability



Evolution Of Central A Decade of Customer-Driven Innovation



Subscription-based licensing

Goals for Next Generation Central

Redefining Aruba Central for the Best Operator Experiences

Monitoring, Reporting & Troubleshooting



Industry-Leading AI Efficacy

(Minimize False positive/negatives)



Streamlined Data Processing

(Unified Telemetry Pipeline)

 \bigcirc

Actionable Insights

(Profiling, Behavioral analysis, Risk Scores, RCA, Assurance metrics/SLA)



Simplified Operator Experience

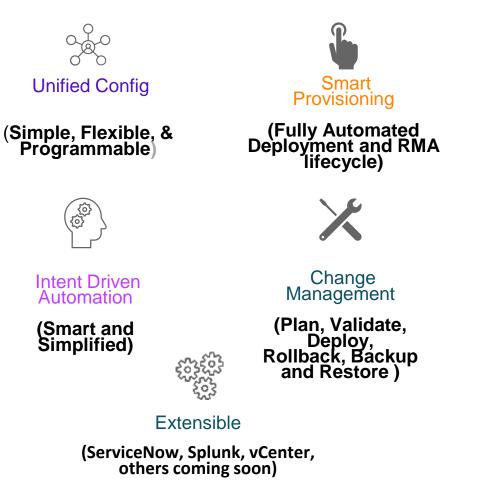
(Proactive Analysis, Simple UI, Time Travel)



Seamless Integrations

(100% API Support)

Onboarding, Provisioning & Configuration



Network operations Center dashboard

Powerful command center view to direct operator attention

Network Overview				
Network and connectivity informat	ion about the net	twork.		Custantize 35
Sites Sites by Inial Its,	2	Device Inventory Device dut-Button	Licenses Status of the licenses for the managed directors	Applications Status of the step for the resoluted applications.
Acres Store		1233 Divier	Presidentian Adversered	Applications Design Balant G Georgia
Geographic Inc. DICP assure to allower LA Cafe 1 descent of Plane. Hotel Version 1 Litters Marchine as represented		Project 10% Aurgement Aurge in Pol. Lat? 7 Tays 13 21	Accept Autor	4 Slack 8 73 8 10) B. Amasan 8 8 8 4
San José Maseum - Higi san will ethilisean phoneil San José Warehouse -	2			
EL Orient have have expensive Vermeent Cafe - Scheren have are recentance Loss Angeles Office - Fern dring a guidt New Jorkey Office - Chardning a guidt	_	WAN Status of the sites flar insum carritors. Carrier Vertices ATAT Wear ATAT Wear ATAT Ses ATAT Ses	User Activities User boyns and colloputation changes over the last 1 days. Among 19 configuration changes node by 11 users. 20 Inspection Changes and by 11 users.	Reports Substance Upcoming and latest generating reports. Immunol to the last T Day 30 6 Income 6
New York Office			U 10 1-	Wireless Coverage, 12 heurs ago Scheidure Iveentory at 3:00 AM Duest at 9:00 PM

- Unified view of the network for quick assessment of site health, application experience, device inventory, and more
- Optimizing the *to-do* list of a network operator
- Blended indicators highlight issues requiring **immediate attention**

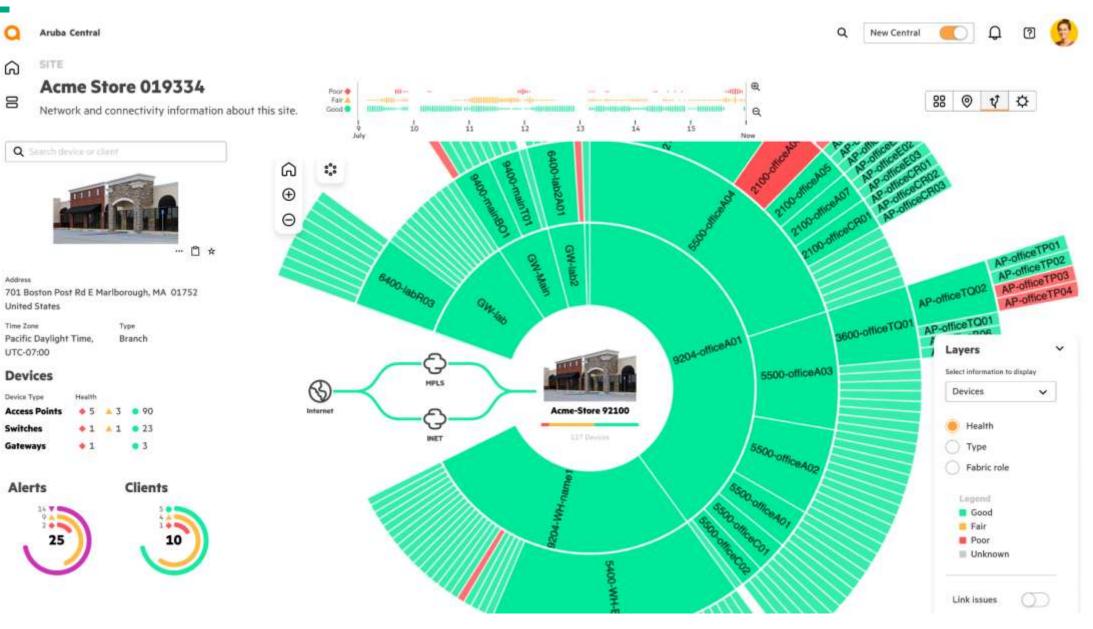
Entity-centric Solar System view

Reduce navigation clicks and minimize manual correlation

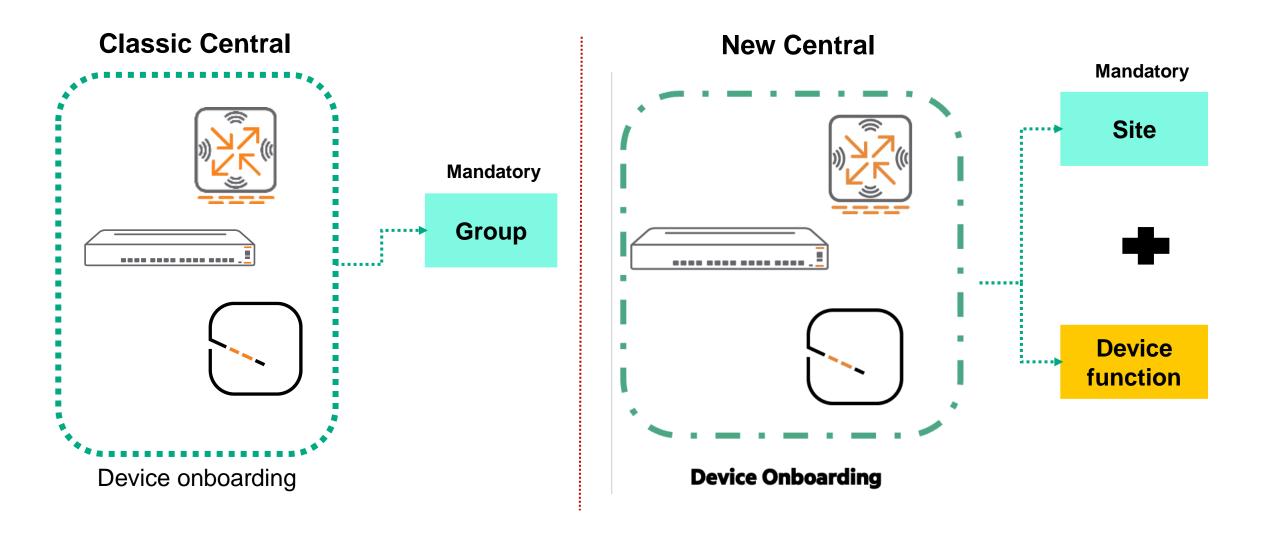
ශ ප	Acme Store 019334 Network and connectivity information about this site		Poor Fail Groot Offare 1	
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	Network	Any	(14)	Access Points
	13 msices	۹	Stern	
	Clients	34 itei	10	
	(, 10)	Nan	ne -	
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2000	Applications			-Desktop scred - Speed/di
Rói?ő Rocklar Lestttown, N	Y 11756.		Tim- Descr	MacBook ption
Linites States			Rach Descr	el-Samsung
Ľ		•	Bob- Descri	blackberry
	Alerts	•	JoeP Descr	
	25			

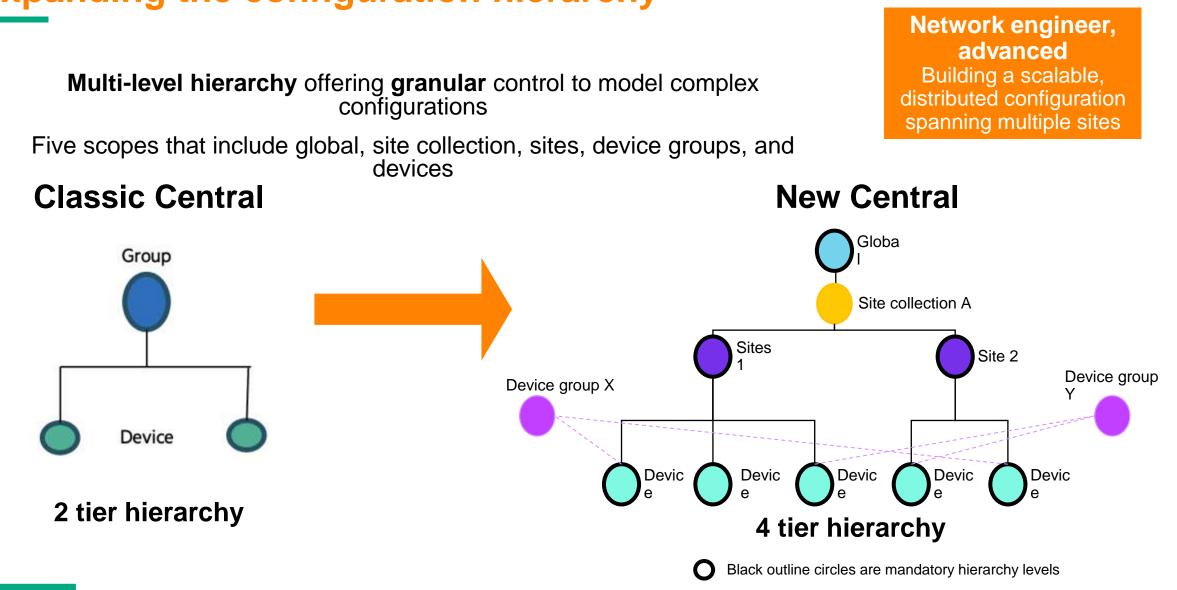
- Promotes **quicker discovery** without navigating across several screens and tables
- **Proactive summarization** with *blended* indicators
- Seamless switching between site, network devices, clients, applications, etc.
- Access to unified network device and client lists

Visualize Large Complex Networks



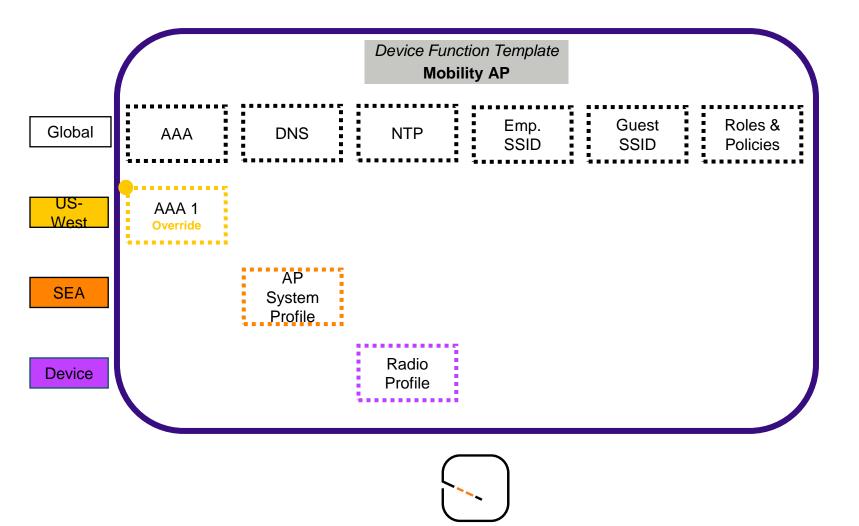
Classic Central vs. new Central constructs





Expanding the configuration hierarchy

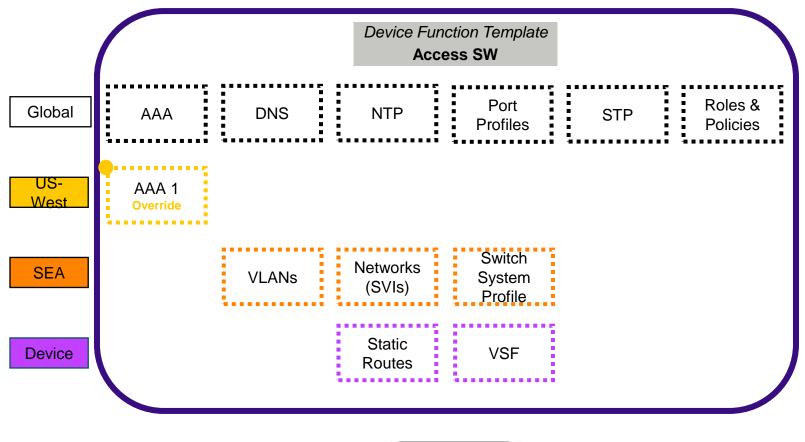
Building Device Config with Scopes and Device Function



AP-xx01

- User builds a hierarchical config template for each device function in a deployment
- We support the parent- child inheritance and overrides
- Config Priority is Device > Device Group > Site > Site Collection >Global

Building Device Config with Scopes and Device Function

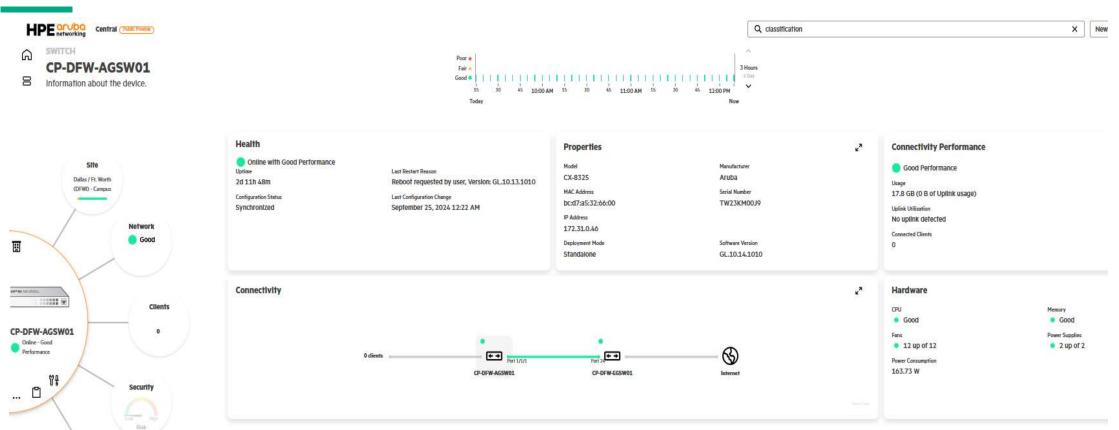


- - Access Switch xx01

- User builds a hierarchical config template for each device function in a deployment
- We support the parent- child inheritance and overrides
- Config Priority is Device > Device Group > Site > Site Collection >Global

Device Details Page

Alerts 0



Easy to See Endpoint Client Status

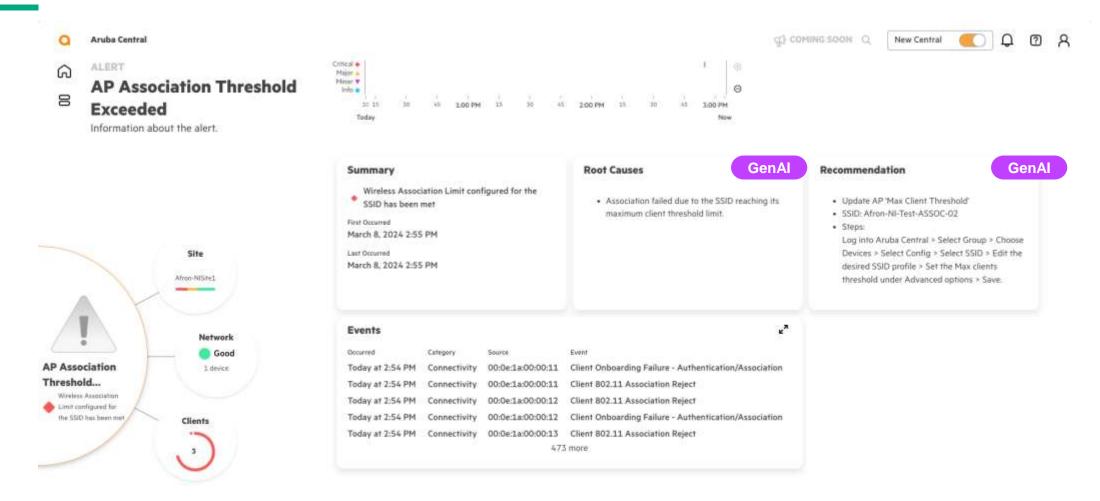
HPE orubo networking Central (Hase Hunne)						Q	New Central	٥
ACCESS POINT CP-DFW-AP11 Information about the device.	Poer + Feir a Good = 50 10:00 AM 35 30 45 Today	1100 AM 15 10	45 12:05 PM 15	1 Horn			88 (0)	v
Site	Clients							IF
Dullas / Ft. Worth (DFWD) - Campus	Any (5) Connected (5) Failed (0)	Connecting (0) D	isconnected (0) Blocked	(0) Any (5)	Wireless (5) Wired (0)	Remote (0)		
Network	Q Search	Y				c	reate Tag Standard 🗸	/
	S items	Туре	MAC Address	IP	WLAN	VLAN	Connected To	
Clients	ANYCORP\bstephenson Connected - High retransmission rate	🕈 Wireless	78.8cb5:9c42.b8	10.129.38.2 fe80:0:0:0:1	AnyCorpinc-DFW-1x	1	CP-DFW-AP11	
P-DFW-AP11	ANYCORP\griffith Connected - High retransmission rate	🕈 Wireless	50.91x3a7b2:9f	10.129.38.2 fe80:0:0:0:c	AnyCorplnc-DFW-1x	1	CP-DFW-AP11	
Performance	ANYCORP\amoran Cannected - Experience is Good	😤 Wireless	50.91#3:a7.9c1c	10.129.38.1 fe80.0:0:a	AnyCorplnc-DFW-1x	1	CP-DFW-AP11	
	ANYCORP\gyoung Connected - Experience is Good	🕈 Wireless	78:8c:b5:11:b4:73	10.129.38.39 fe80:0:0:0:8	AnyCorplac-DFW-1x	1	CP-DFW-AP11	
Alerts	ANYCORP\hcalhoun	🕈 Wireless	5c:62:8b:ed:8e:1d	10.129.38.1	AnyCorpInc-DFW-1x	i.	CP-DFW-AP11	

Industry-first network *Time Travel* Helping IT teams answer *What changed? When? Why?*

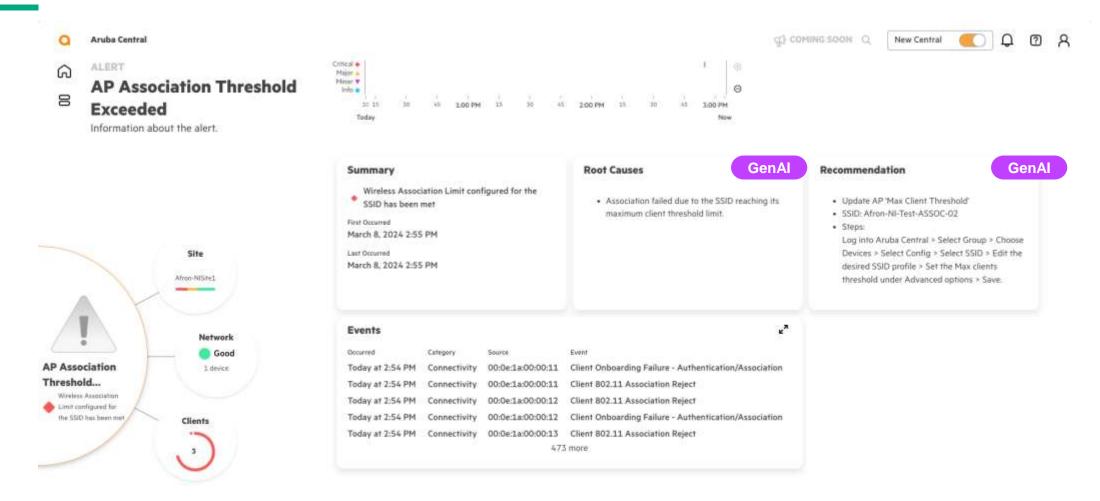


- Holistic **point in time** network snapshot to troubleshoot difficult issues
- Deep correlation that goes beyond manual analysis of event logs and packet captures
- Move back in time for up to seven days, with granularity of one minute
- On selecting a timestamp, all dashboard views reflect what the network looked like at that point

GenAl Powered Root Cause & Recommendation

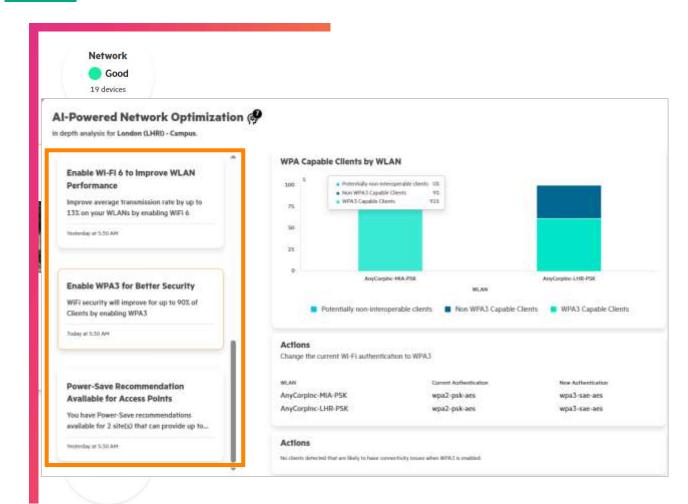


GenAl Powered Root Cause & Recommendation



Al-powered recommendations

Free up valuable IT cycles and reduce risk with proactive optimization insights



- **Custom, actionable recommendations** at a global/per-site basis
- AI/ML models trained and re-trained weekly on data from anonymized peer groups with similar environments

• Examples

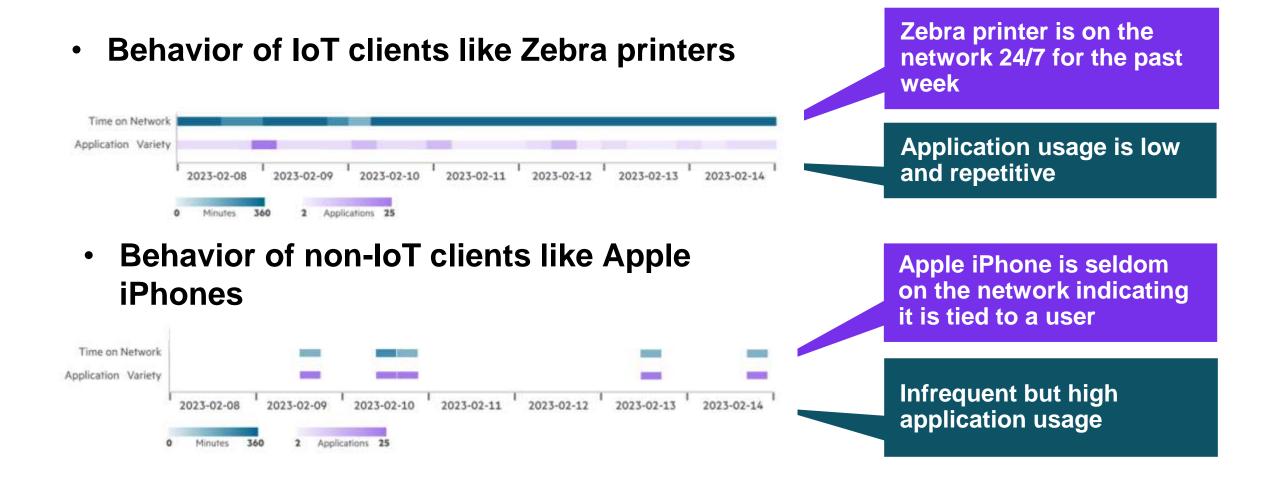
- Firmware Recommendations
- Enable Wi-Fi 6 to Improve Wi-Fi Experience
- Enable WPA3 for Better Security
- IoT Policy Optimization
- Large Data Upload/Download
- New Country Upload Detected
- Client Connection Times
- Save Power Using AP Power Save
- Improve Wi-Fi Performance using 6GHz
- Probe Threshold Recommendation | 32

Al-powered client insights in Central

- Profiles over 200M endpoints
- Accurate up to 99% with
 <5% rate of unknowns
- **New** behavior analysis for IoT profiling and segmentation
- Included with Central licenses for immediate ROI

		Tag	Clie +	Category	Clie +	SSID	Clients
		Giamon		Nerve 1	300 H	Engineering	233
		Hodical Martin Karts	10	Norma 1	100	Lab	124
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		Corporate Assets	205	Name 1	110 M		
		Pacentaliers	300	Norme 1		VLAN	Clients
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						17	115
						122	76
Function	Cin., 1	Vendor	Clie +	Hedel/05	Clie +	7	23
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E Server		Apple	775.00	Fedora	215 M	Role	Clients
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				1			
					117		

Al-driven behavior analysis



Gen Al-powered search

Enhanced with enterprise-grade LLMs for improved operator experience

How do I create a	Port Profile on AOS-CX using Arul	oa Central?				×
ummary:						
Configuring Po	rt Profiles on AOS-CX using A	ruba Central				
allows you to ma interfaces, wild car	le group level configuration of inte nage these profiles - create, apply ds, MCLAG, split, sub-interface, and o an interface. The new profile will	, clone, modify, and I management interfa	delete. They can be conf ces. Please note, the confi	figured on interface	e ranges, list o	E
Creating a Port F	Profile					
1. Launch the Aru	ba Central app, and set the filter to	a group that contains	at least one switch.			
2. Navigate to Dev	vices > Switches under the Manag	e section.				
3. Click on the Co	nfig icon to access the switch config	uration dashboard.				
4. Navigate to Int	erfaces > Port Profiles. Here you'll	see a list of existing po	ort profiles.			
5. Click on the + s	ign in the Port Profiles table to creat	e a new profile.				
6. Provide a Nam	e and a Description for your profile	i i i i i i i i i i i i i i i i i i i				
7. Configure in	Aruba Central		Q. devices run	ning 10.4		
8. Click Save to			C. Management	0.00000		
Important Co	Search Results					
 The parent p 	General Grape					
 Overlapping 	Catania 🗸					
 When creati 						
 Before assig 	Devices Documentation					
 Post applica 						
low more	2 (1074)					
	Name	Туре	MAC address	IP Address	Model	Serial Numbe
	GW-Catania-02-MB	Custer	204c03d51140	9.9.9.1	A9004	CNMHKLB03
	ONLINE:					

- Trained and tuned on multiple proprietary LLMs, purpose-built for networking
- Pre-conditioned with three million network questions for improved performance and accuracy
- Sub-second summarization of latest 30k pages of VRDs and tech pub documents
- Uncompromised security with no external API interfaces, and no PII/CII shared beyond customer instance

Enhanced Floorplan Manager

HPE or Ubo Intensional Intelligent Edge I Across Store Location Information about this si	Poor 6 Feb 2 Good 6 International International Internatio	
FLOOR ← First Floor	9	Layers ×
Buckling Hoor Number Head Office 0 Curking Height 2.5 meters Measured Devices Device Type Numb Access Points 0 1 0 1 0 1 Switches Geteways 0 1 0 1 0 1 Clients		Heatmap Heatma
Actions		Ngsat Brength

Troubleshooting tools: Framework



- Tests
- Sequence New
- Remote console
- History New
- Visual New and CLI representation of test r
- Entry points into the workflow
 - Site Sun
 - Device Sun (and Side panel)
 - Clients
 - Alerts New



Results

-----Ping Test success-----

1.1.1.1 is alive, iteration 3, time

round-trip (ms) min/avg/max = 1/3/8

1.1.1.1 is alive, iteration 1, time = 2 ms 1.1.1.1 is alive, iteration 2, time = 2 ms

1.1.1.1 is alive, iteration 4, time = 1 ms 1.1.1.1 is alive, iteration 5, time = 8 ms 5 packets transmitted, 5 packets received, 0% pac

ping 1.1.1.1 repetitions 5

	Acme Store						C ²	
ħ	sts Se	equence Remote Console	History					
Q,	Same k		V					
	ns ID	Initial Context	Start Time	End Time	Username	Туре	Test Results	
		Initial Context AP-Aruba 123	Start Time 2023-12-17, 14:30:09	End Time	Username tim@hpe.com	Type Tests	Test Results 7 • 2	
9 ite	ID							* 3

= 2 ms

	A Tracerour	te ioday at 13:40:50.
et loss	Source AP-Name ABC VLAN: 4000 (Employees)	Destination 192.168.10.5
	Maximum Hops 30	
	# Hop 1 • AP-Name	Latency ABC 0.435 ms
	2 Sw-Access	
	3 SW-Core-9 4 172.16.12	
	5 🔶 Request ti	me out -
	6 • 192.168.1	0.5 43 ms
	7 😐 172.16.12	.1 71 ms

0 🖸

Thank You