1 Table of Contents

1	Table of Contents						
	1.1	Revision History					
2	Sma	rter operations with AI-Powered Search in HPE Aruba Central					
	2.1	Inventory Operations					
	2.2	Devices with Specific Firmware Versions	5				
	2.3	Device Type on the Network					
	2.4	Wireless Client Issues	7				
	2.5	Wireless Troubleshooting	10				
	2.6	Alert Searches	11				
	2.7	Application Performance	14				
	2.8	Configuration Queries	16				

1.1 Revision History

DATE	VERSION	EDITOR	CHANGES
18 Nov 2025	0.1	Ariya Parsamanesh	Initial creation
28 Dec 2025	0.2	Ariya Parsamanesh	Added alert searches and app performance

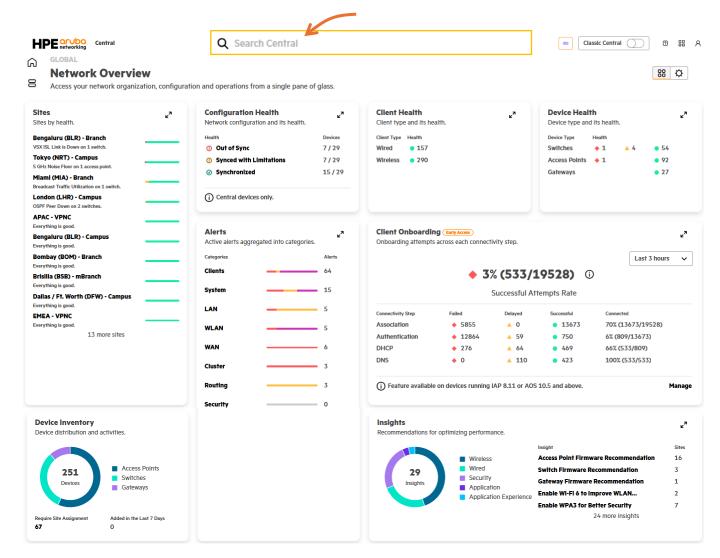
2 Smarter operations with AI-Powered Search in HPE Aruba Central

This technote introduces the AI Search capabilities within HPE Aruba Networking Central, highlighting how Natural Language Processing (NLP) empowers administrators to efficiently locate network clients, devices, alerts, applications, and documentation. By leveraging intuitive search strings, network operators can streamline common tasks such as inventory management, firmware tracking, troubleshooting, and performance monitoring.

Key searches covered in this technote include:

- Inventory Search: Quickly identify device types, locations, and configurations across multiple sites.
- Firmware and Device Status: Find devices running specific firmware versions.
- Client and Apps: Search for specific device type like streaming devices and monitor app experience.
- Troubleshooting Tools: Address wireless client issues, roaming problems, and common RF issues like noise floor with targeted searches.
- Alert and Performance: search for critical alerts, duplex mismatches, and application performance for proactive management.
- Configuration Guidance: search for step-by-step instructions and references for configuration tasks.

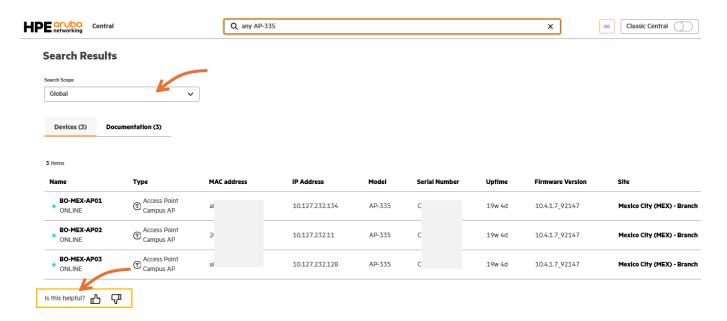
The AI Search is part of the foundational subscription and is designed to accelerate network operations, reduce manual effort, and improve accuracy. User feedback is integrated to continuously enhance search relevance and effectiveness.



2.1 Inventory Operations

I'll start with some classic network operations tasks.

Imagine you're managing a network with over 50 sites and hundreds of access points (APs), switches, and gateways. You need to identify any AP-335 devices, since they are end-of-sale and should be replaced. To do this quickly, simply use the AI search string: "any AP-335". This will instantly show you all AP-335s in your environment, making it easy to plan for their replacement.

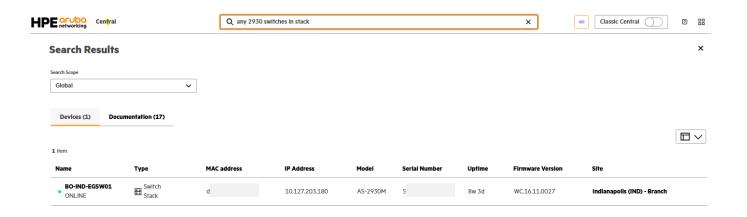


The search results quickly display all three AP-335 devices, which are located in the Mexico City (MEX) branch site. This search was done at the global level, but you can easily adjust the scope to focus on a specific site if needed.

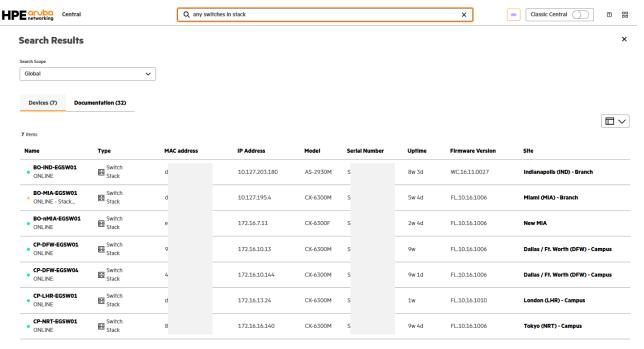
Notice an 'Is this helpful?' prompt with thumbs-up and thumbs-down icons. By clicking one of these icons, you can provide feedback on the accuracy of the search results, helping to improve the AI search experience for everyone.



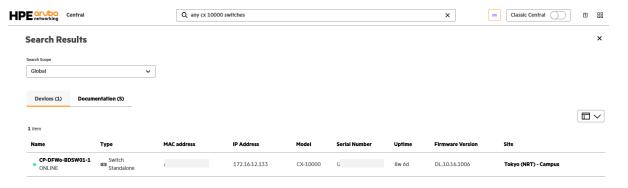
In this scenario, say I am a new member of the network ops team and I want to know if there are any 2930 switches that are configured in VSF stack. So I use this search string "any 2930 switches in stack"



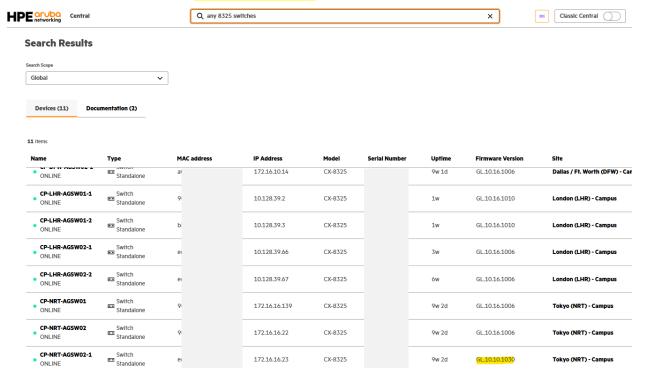
This result is one 2930 switch and it's in IND branch site. Now I want to know if there are any CX switches in VSF stack. So I use this broader search string "any switches in stack", that provides the info I was after.



In another use case, one of the members of the data centre team want to know if they have any HPE Aruba CX 10K switches and if so where are they deployed. So again we use a global AI search with this search string. "any cx 10000 switches"



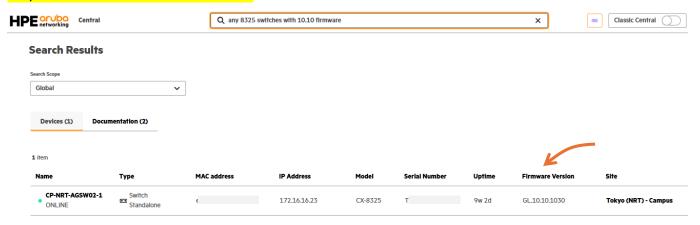
Now a team member if interested in in HPE Aruba 8325s switches as they are connected to their storage units. So the AI search they could use is "any 8325 switches", that list of 11x 8325 switches across our sites.



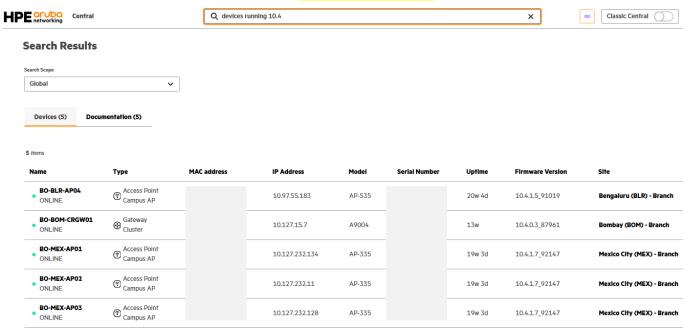
2.2 Devices with Specific Firmware Versions

Now note the firmware version that were listed in the previous search, one of the 8325 switches are running an older firmware version 10.10.x. In this scenario I want to find out which of my 8325 switches are running 10.10 firmware so it can be upgraded.

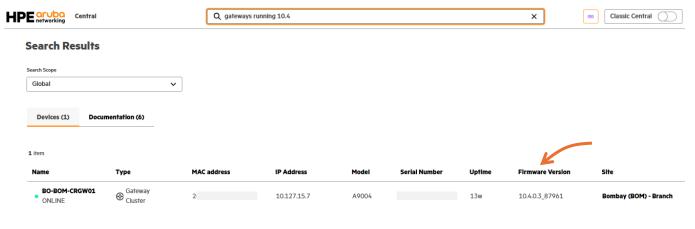
Sure, Al Insights feature also provides that info but here I want to quickly search for it. So my Al search string is "any 8325 switches with 10.10 firmware"



Continuing with this scenario, I also want to find out if there are any APs or gateways that are running AOS 10.4.x firmware. This is the AI search string that I'll use. "devices running 10.4"

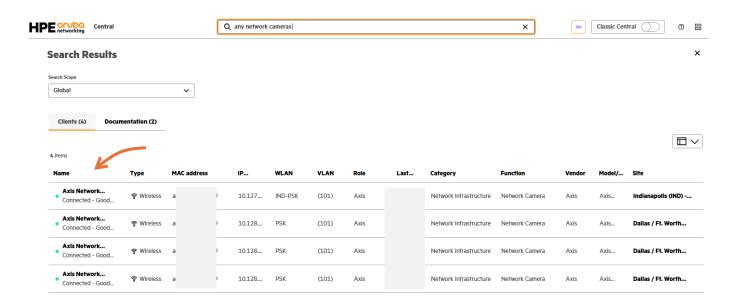


If I wanted to search specifically for gateways running 10.4.x firmware, I could use "gateways running 10.4" that would give me the following result.

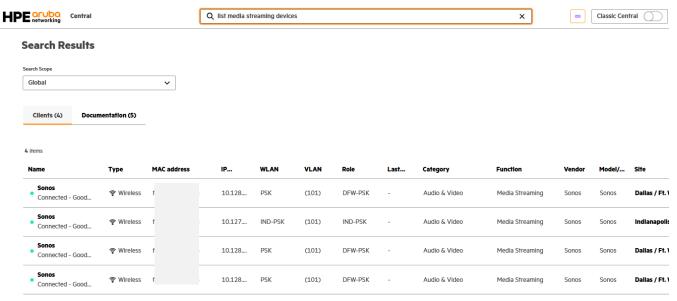


2.3 Device Type on the Network

Here I'll focus on searching for specific category of devices. The scenario here is that there has been a security alert and you need to find out if there are any cameras on your network. Here we'll use the AI search and search for "any network cameras" and we get a list of 4x Axis network cameras.



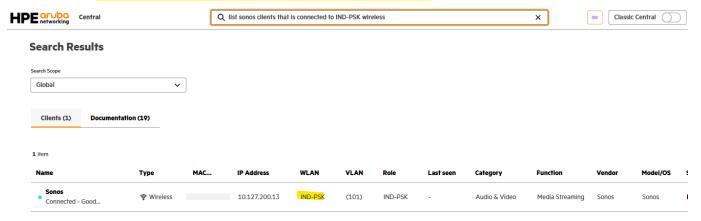
Next, I want to search for media streaming devices that are on the network. So I use this search string "list media streaming devices"



I could also use this search string "any media streaming devices that are offline?" to look for any specific devices that are offline.

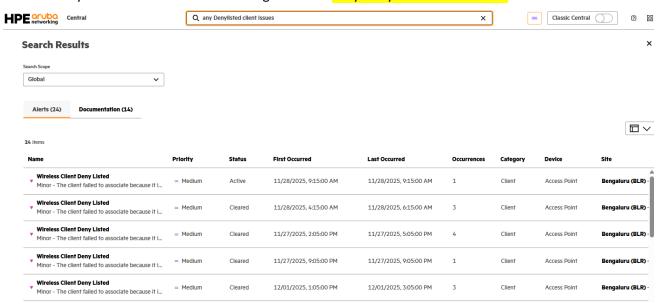


If the scenario calls for troubleshooting a Sonos device that connected to a specific WLAN, then you can change your search to "list sonos clients that is connected to IND-PSK wireless".

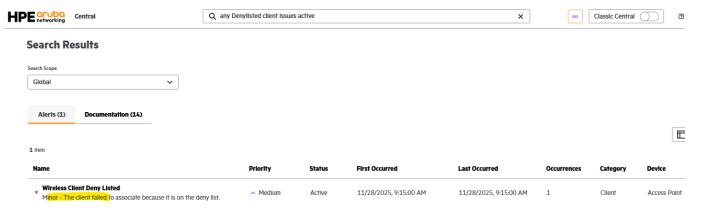


2.4 Wireless Client Issues

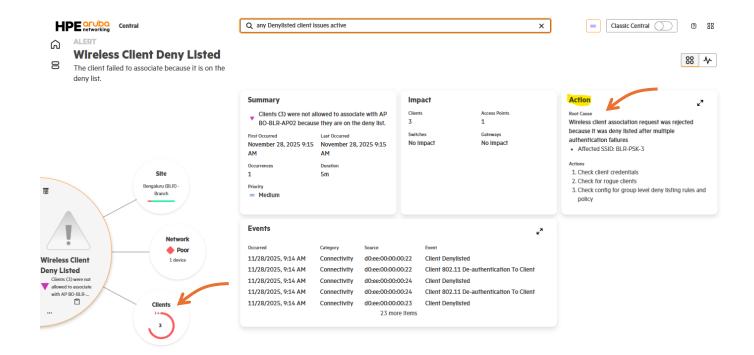
Here I'll cover AI search string related to wireless client issues by starting with searching if there are any clients that are deny listed. Here is the search string that I use "any Denylisted client issues".



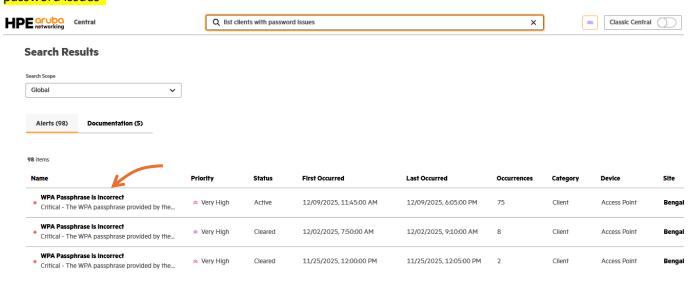
Now I want to refine it and search for only active deny listed clients, here is my search string "any Denylisted client issues active".



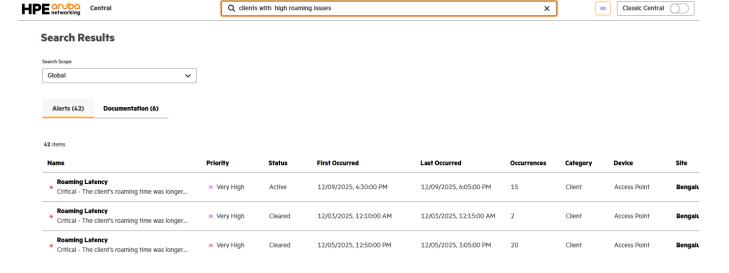
And clicking on the alert I get the following where it states that there are 3x clients on the deny list and provides a root cause and a number of a remediation actions.



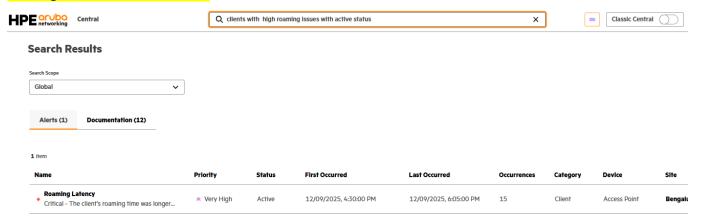
Another common issue is incorrect passwords for PSK WLANs. And here is my search string "list clients with password issues"



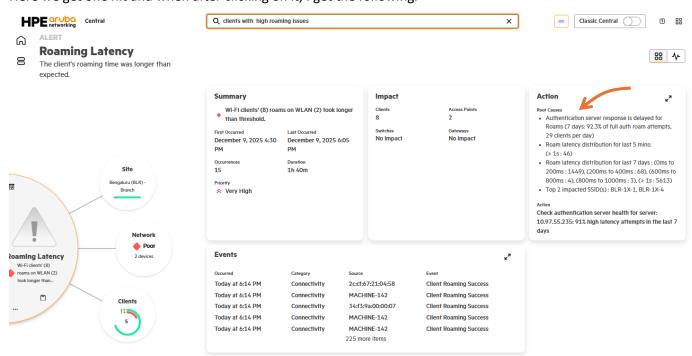
Now I want to find out client roaming issues with this search string "clients with high roaming issues". Note that there are 42 alerts for it.



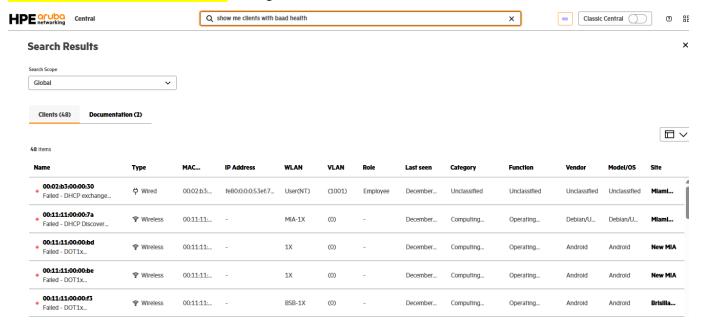
I want to refine the previous search to only the one that are active with this search string "clients with high roaming issues with active status".



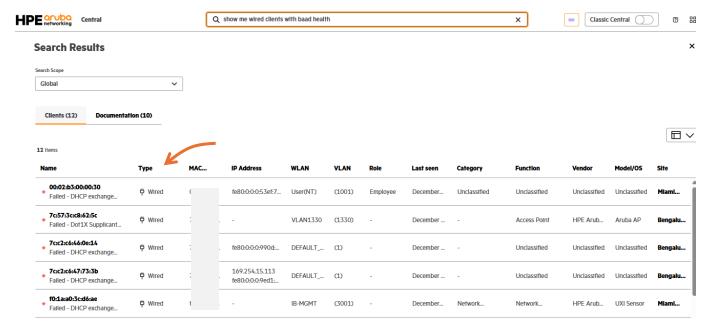
Here we get one hit and when after clicking on it, I get the following.



Next let's search for client health with the following search string examples. Note the deliberate spelling mistake. "show me clients with baad health". And it generates 48 results.

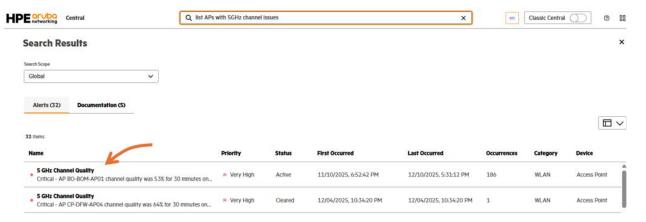


Next I'll refine it to just wired clients with "show me wired clients with baad health". This time I get 12 clients that are wired connected.

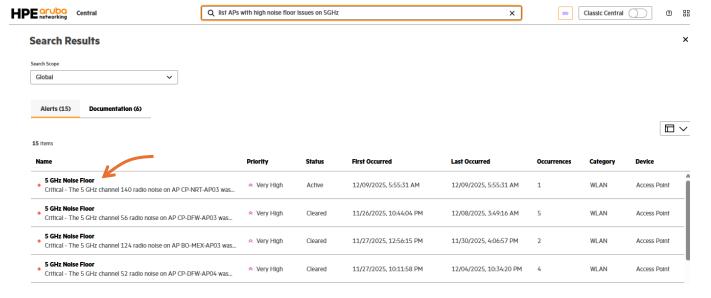


2.5 Wireless Troubleshooting

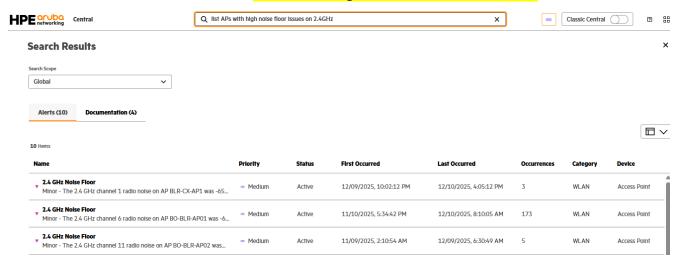
Moving to cover a couple of search string that I use for wireless troubleshooting. First I want to find APs with 5GHz channel problems. So I'll use this search string "list APs with 5GHz channel issues"



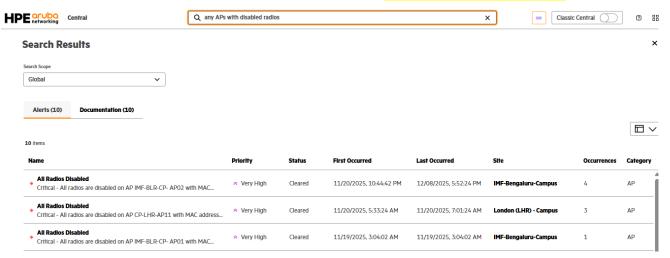
Next, I want to investigate RF noise floor for the APs with this string "list APs with high noise floor issues on 5GHz"



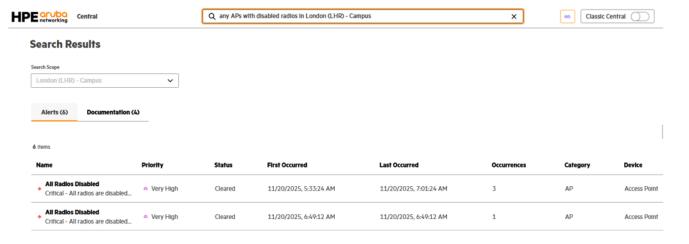
You can also search for 2.4GHz with this. "list APs with high noise floor issues on 2.4GHz"



Finally covering the case where there was a new AP deployment and for some reason the radios are disabled perhaps due to PoE issues. This is the AI search string that I use. "any APs with disabled radios"

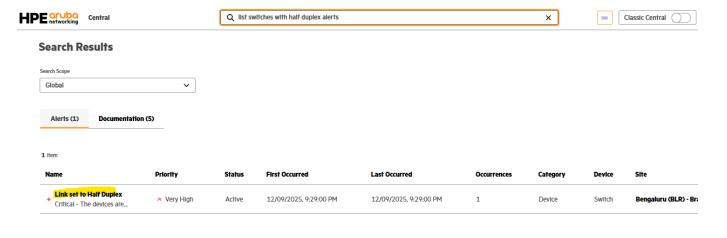


And then I refine it to a specific site, here is an example. "any APs with disabled radios in London (LHR) – Campus"

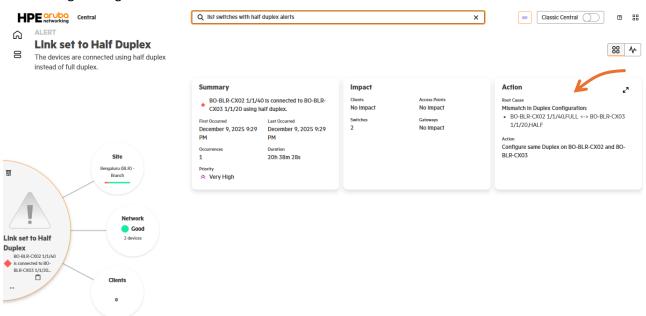


2.6 Alert Searches

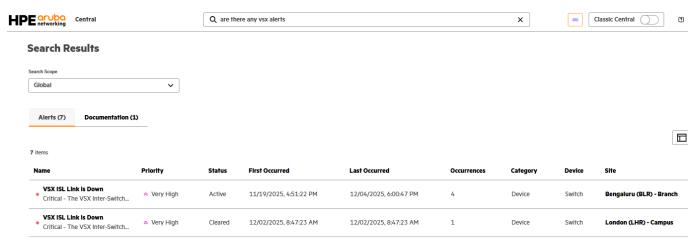
In this section, I'll walk through a few scenarios where you need to locate very specific info like finding a needle in a haystack. Imagine managing hundreds of switches and needing to identify ports running in half duplex mode. To do this efficiently, you can use the AI search string: "list switches with half duplex alerts".



And clicking on it I get the information I wanted.

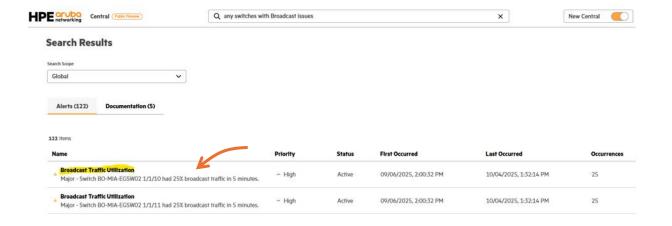


Next, I'll focus on core switches and in particular core switches that are configured for VSX. Aruba VSX (Virtual Switching Extension) is a feature that allows two core/aggregation switches to operate as a single, virtualised switch to improve network redundancy. I am keen to know if there are any VSX related issues with this search string "are there any vsx alerts"

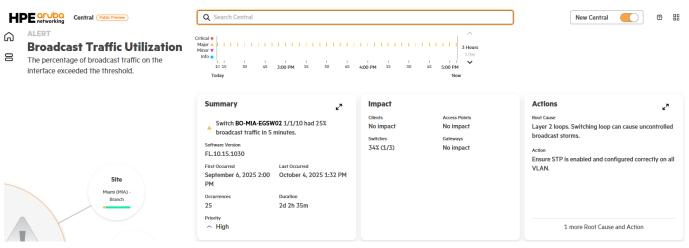


Note that searching for VSX alerts include almost all of the VSX alert such as, if there are any software mismatches or if there are out of sync peers, just to mention a few.

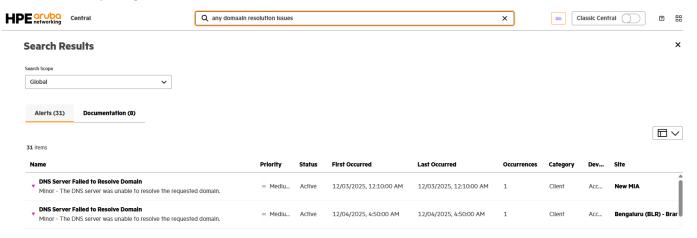
Ok next I want to know if there are any network broadcast issues, and I use this search string "any switches with Broadcast issues"



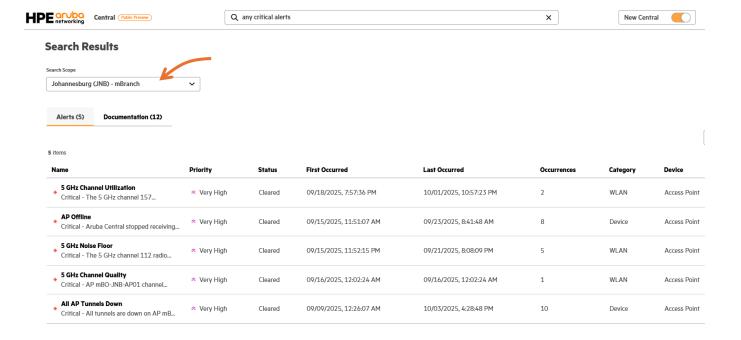
See how precise it is, by listing the exact interfaces and just to show that AI search is not making things up, I'll click on the first entry.



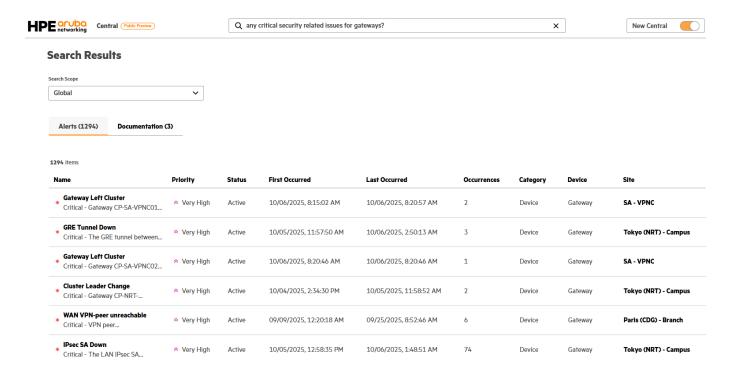
Another search string that I use is "any domaain resolution issues" to find out if there are DNS problems. (note the intentional spelling mistake)



Now I want to check if there are any critical alert specific to Johannesburg (JNB) site. Notice I have changed the search scope to include only this site.

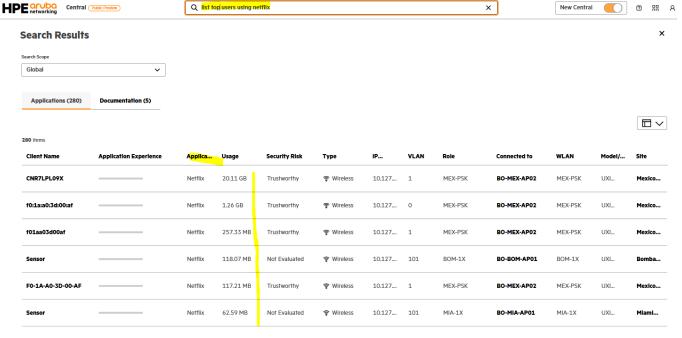


Lastly I want to know about the security issues for gateways and here is the search string that I use. "any critical security related issues for gateways?"



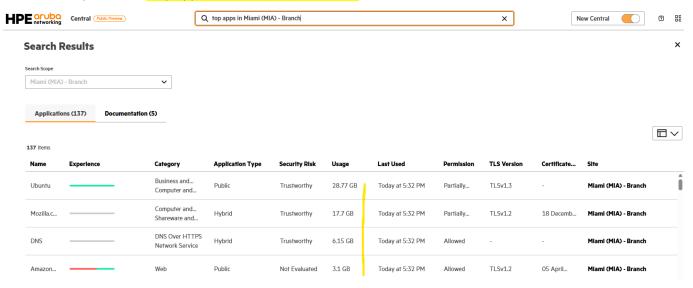
2.7 Application Performance

Application performance is one of the important KPIs for any organisation and here I'll show some of the AI searches that you can perform. To start with, I want to "List the top users for Netflix".

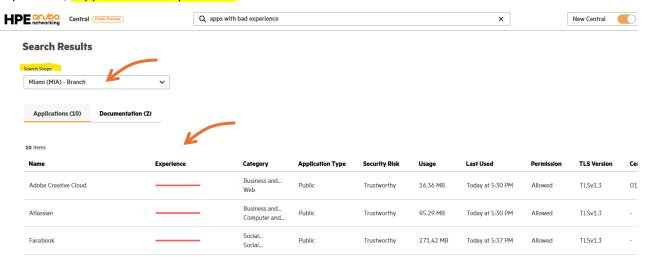


Note that the above result is already sorted based on utilisation.

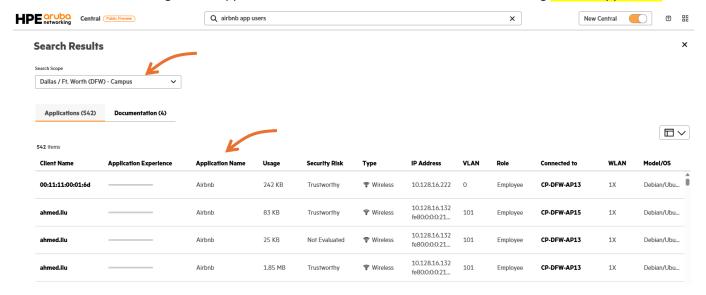
You can also do searches for a specific site, so here I want to see the most used application in in Miami (MIA) – Branch. So my search is "top apps in Miami (MIA) – Branch"



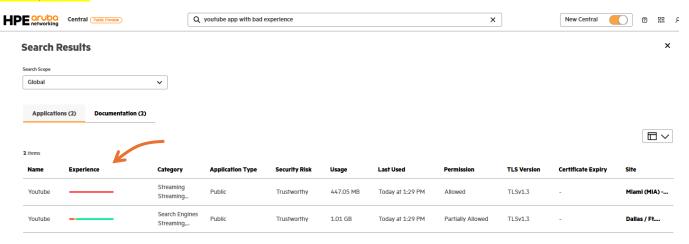
One can also change the search scope to be site specific, here is an example where I also want to check the app experience, "apps with bad experience"



Another interesting search is if you want to get a list of clients using a particular application. For example here I want to know who is using Airbnb app in Dallas site. So I use this AI Search with this string "airbnb app users"

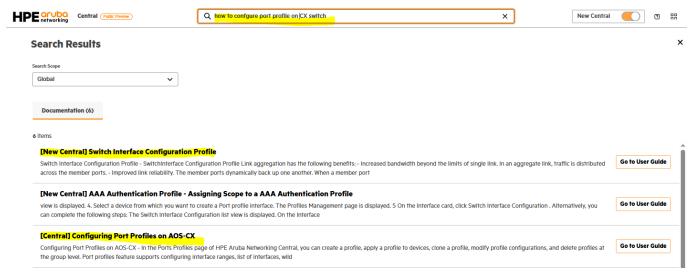


You can also experiment with the following search string where I added application experience "youtube app with bad experience"



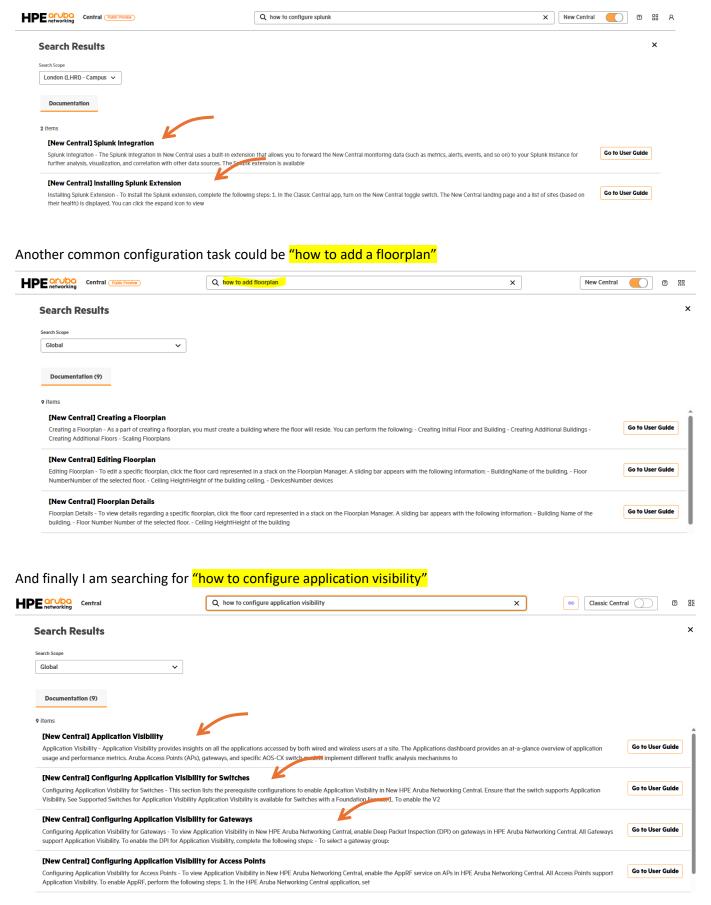
2.8 Configuration Queries

Lastly I'll cover a few use cases for configuration queries, starting with "how to configure port profiles on CX switches".



As shown above it provides with references to user guide for that specific configuration task.

Next, I want to know "how to configure splunk" integration.



Note that the result covers all the devices that can be used for App visibility like APs, switches and gateways.