Data sheet



HPE Aruba Networking ClearPass Policy Manager

Key features

— Role-based, unified network access enforcement across multivendor wireless, wired, and VPN networks

— Intuitive policy configuration templates and visibility troubleshooting tools

— Supports multiple authentication/ authorization sources (AD, LDAP, SQL)

— Self-service device onboarding with built-in certificate authority (CA) for bring your own device (BYOD)

— Guest access with extensive customization, branding, and sponsor-based approvals

— Integration with key UEM solutions for in-depth device assessments

— Comprehensive integration with the HPE Aruba Networking 360 Security Exchange program

— Single sign-on (SSO) support works with Ping, Okta, and other identity management tools to improve user experience with SAML 2.0-based applications

— FIPS 140-2 and CC certified

HPE Aruba Networking ClearPass Policy Manager, part of the HPE Aruba Networking 360 Secure Fabric, provides role- and device-based secure network access control for Internet of Things (IoT), BYOD, corporate devices, as well as employees, contractors, and guests across any multivendor wired, wireless and VPN infrastructure.

With a built-in context-based policy engine, Remote Authentication Dial-In User Service (RADIUS), TACACS+, non-RADIUS enforcement using HPE Aruba Networking ClearPass OnConnect, device profiling, posture assessment, onboarding, and guest access options, HPE Aruba Networking ClearPass is unrivaled as a foundation for network security for organizations of any size.

For comprehensive integrated security coverage and response using firewalls, unified endpoint management (UEM), and other existing solutions, HPE Aruba Networking ClearPass supports the HPE Aruba Networking 360 Security Exchange program. This allows for automated threat detection and response workflows that integrate with third-party security vendors and IT systems previously requiring manual IT intervention.

In addition, HPE Aruba Networking ClearPass supports secure self-service capabilities, making it easier for end users trying to access the network. Users can securely configure their own devices for enterprise use or internet access based on admin policy controls.

The result is detailed visibility of all wired and wireless devices connecting to the enterprise, increased control through simplified and automated authentication or authorization of devices, and faster, better incident analysis and response through the integration and orchestration with third-party security solutions. This is achieved with a comprehensive and scalable policy management platform that goes beyond traditional AAA solutions to deliver extensive enforcement capabilities for IT-owned and BYOD security requirements.

The HPE Aruba Networking ClearPass difference

HPE Aruba Networking ClearPass is the only policy platform that centrally enforces all aspects of enterprise-grade access security for any industry. Granular policy enforcement is based on a user's role, device type and role, authentication method, UEM attributes, device health, traffic patterns, location, and time of day.

Deployment scalability supports tens of thousands of devices and authentications which surpasses the capabilities offered by legacy AAA solutions. Options exist for small to large organizations, from centralized to distributed environments.

Advanced policy management

Enforcement and visibility for wired and wireless

With HPE Aruba Networking ClearPass, organizations can deploy wired or wireless using standards-based 802.1X enforcement for secure authentication. HPE Aruba Networking ClearPass also supports MAC address authentication for IoT and headless devices that may lack support for 802.1X. For wired environments where RADIUS-based authentication cannot be deployed, HPE Aruba Networking ClearPass OnConnect offers an alternative using Simple Network Management Protocol (SNMP)-based enforcement.

HPE Aruba Networking ClearPass Device Insight provides next-generation profiling capabilities to HPE Aruba Networking ClearPass Policy Manager through a cloud-based machine learning algorithm that also leverages deep packet inspection support.

Authentication methods can be used to concurrently support a variety of use cases. It also includes support for multifactor authentication based on login times, posture checks, and other contexts such as new user, new device, and more.

Attributes from multiple identity stores such as Microsoft Active Directory, LDAP-compliant directories, ODBC-compliant SQL databases, token servers, and internal databases across domains can be used within a single policy for fine-grained control.

Contextual data from these profiled devices allows IT to define what devices can access either the wired, VPN, or wireless network. Device profile changes are dynamically used to modify authorization privileges. For example, if a Windows laptop appears as a printer, HPE Aruba Networking ClearPass policies can automatically deny access.

Secure device configuration of personal devices

HPE Aruba Networking ClearPass Onboard provides automated provisioning of any Windows, macOS, iOS, Android™, Chromebook™, and Ubuntu devices through a user-driven self-guided portal. Network details, security settings, and unique device identity certificates are automatically configured on authorized devices. Cloud identity services such as Microsoft Azure Active Directory, Google™ G Suite, and Okta can also be leveraged as identity providers with HPE Aruba Networking ClearPass Onboard for secure certificate enrollment.

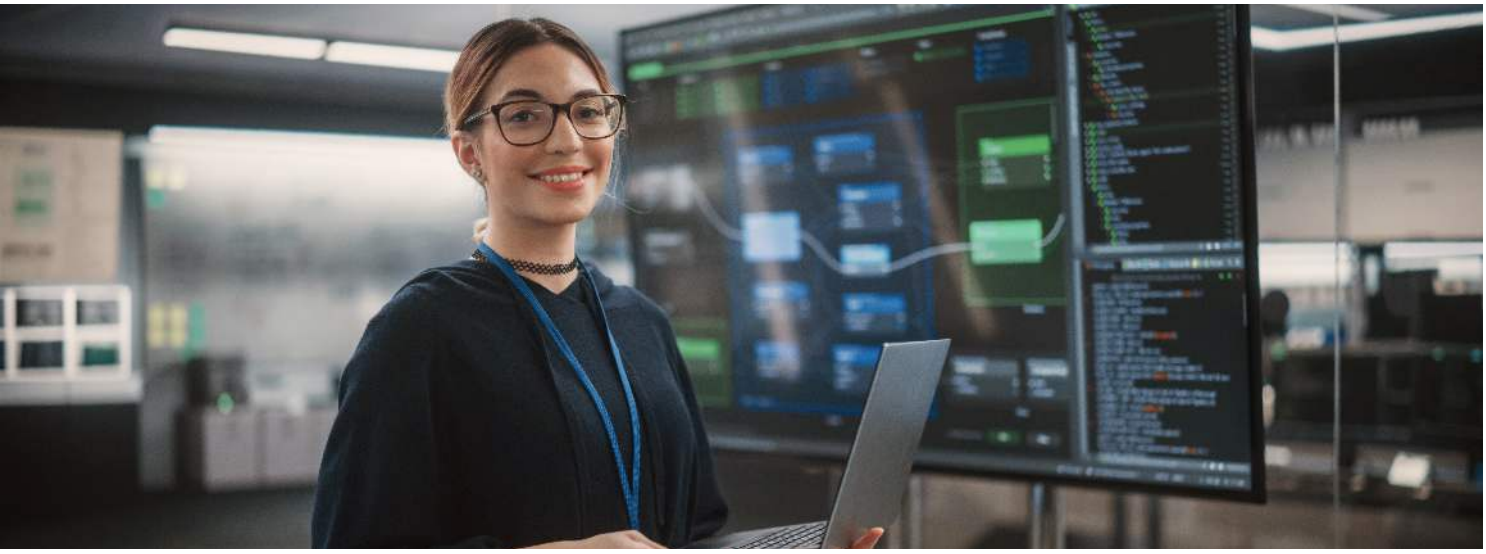
Device health checks

HPE Aruba Networking ClearPass OnGuard delivers endpoint posture assessments over wireless, wired, and VPN connections. HPE Aruba Networking ClearPass OnGuard health check capabilities help ensure endpoints meet security and compliance policies before they connect to the network. HPE Aruba Networking ClearPass OnGuard offers a variety of flexible deployment options including agentless, dissolvable agents, and agent-based configuration.

Customizable visitor management

HPE Aruba Networking ClearPass Guest simplifies visitor workflow processes to enable employees, receptionists, and other non-IT staff to create temporary guest accounts for secure wireless and wired access. Highly customizable, mobile-friendly portals provide easy-to-use login processes that include self-registration, sponsor approval, and bulk credential creation support for any visitor needs—enterprise, retail, education, large public venue. Credentials can be delivered by SMS, email, printed badges, or input directly through cloud identity providers such as Facebook or Twitter.

Built-in support for commercial-oriented guest Wi-Fi hotspots with credit card billing and third-party advertising-driven workflows make it simple to integrate into a wide variety of environments.



HPE Aruba Networking 360 Security Exchange program

Integrate with security and workflow systems

Support for the HPE Aruba Networking 360 Security Exchange program is an integrated component of HPE Aruba Networking ClearPass. Using features such as REST-based application programming interfaces (APIs), RADIUS accounting proxy, and Syslog ingestion help facilitate workflows with UEM, security information and event management (SIEM), firewalls, help desk systems, and more. Context is shared between each component for end-to-end policy enforcement and visibility.

The HPE Aruba Networking ClearPass Ingress Event Engine provides third-party systems with the means to share information in real time using Syslog. This enables HPE Aruba Networking ClearPass to respond to changing threats for users and devices after they have authenticated to the network.

By utilizing an open dictionary approach, anyone can write a parsing ruleset without the need for costly add-ons or locked in third-party ecosystems.

Advanced reporting and alerting

HPE Aruba Networking ClearPass Device Insight provides advanced reporting capabilities through customizable reports. Information about authentication trends, profiled devices, guest data, onboarded devices, and endpoint health can also be viewed in an easy-to-use dashboard. HPE Aruba Networking ClearPass Device Insight also has support for granular alerts and a watchlist to monitor specific authentication failures.

HPE Aruba Networking Central NetConductor

For networks managed by HPE Aruba Networking Central, HPE Aruba Networking Central NetConductor offers cloud-native security services that enable global policy management and network configuration with simple business logic interfaces and workflows. HPE Aruba Networking Central NetConductor uses a distributed EVPN/VXLAN network overlay to facilitate inline policy enforcement across large, globally dispersed networks.

Networks that use HPE Aruba Networking Central NetConductor for policy orchestration can choose either HPE Aruba Networking Client Insights or HPE Aruba Networking ClearPass for authentication and role assignment.

Technical specifications

Appliances

HPE Aruba Networking ClearPass is available as hardware or as a virtual appliance. Virtual appliances are supported on VMware vSphere® Hypervisor (VMware ESXi™), Microsoft Hyper-V, CentOS KVM, Amazon EC2, and Microsoft Azure.

— VMware ESXi up to 8.0
— Microsoft Hyper-V 2016/2019 R2/2019
— KVM on CentOS 7.7, Ubuntu 18.04 and Ubuntu 20.04
— Amazon AWS (EC2)
— Microsoft Azure

Platform

— Deployment templates for any network type, identity store, and endpoint
— 802.1X, MAC authentication, and captive portal support
— HPE Aruba Networking ClearPass OnConnect for SNMP-based enforcement on wired switches
— Advanced reporting, analytics, and troubleshooting tools
— Interactive policy simulation and monitor mode utilities
— Multiple device registration portals—Guest, HPE Aruba Networking AirGroup, BYOD, and unmanaged devices
— Admin/operator access security through CAC and TLS certificates

Framework and protocol support

— RADIUS, RADIUS dynamic authorization, TACACS+, web authentication, SAML v2.0
— RadSec (TLS encoded RADIUS)
— 802.1X-2010, 802.1X-2020

— Tunneled EAP (TEAP)
— EAP-FAST (EAP-MSCHAPv2, EAP-GTC, EAP-TLS)
— PEAP (EAP-MSCHAPv2, EAP-GTC, EAP-TLS, EAP-PEAP-Public, EAP-PWD)
— TTLS (EAP-MSCHAPv2, EAP-GTC, EAP- TLS, EAP-MD5, PAP, CHAP)
— EAP-TLS
— PAP, CHAP, MSCHAPv1, MSCHAPv2, EAP-MD5
— OAuth2.0
— WPA3
— Windows machine authentication
— SMB v2/v3
— Online Certificate Status Protocol (OCSP)
— SNMP generic MIB, SNMP private MIB
— Common Event Format (CEF), Log Event Extended Format (LEEF), and RFC5424

Supported identity stores

— Microsoft Active Directory
— RADIUS
— Any LDAP-compliant directory
— MySQL, Microsoft SQL, PostgreSQL, and Oracle® 11g ODBC-compliant SQL Server
— Token servers
— Built-in SQL store, static hosts list
— Kerberos
— Microsoft Azure Active Directory
— Google G Suite

RFC standards

2246, 2248, 2407, 2408, 2409, 2548, 2759, 2865, 2866, 2869, 2882, 3079, 3579, 3580, 3748, 3779, 4017, 4137, 4301, 4302, 4303, 4308, 4346, 4514, 4518, 4809, 4849, 4851, 4945, 5176, 5216, 5246, 5280, 5281, 5282, 5424, 5755, 5759, 6614, 6818, 6960, 7030, 7170, 7296, 7321, 7468, 7748, 7815, 8031, 8032, 8247, 8446, 8709, 8894, 8908

Internet drafts

Protected EAP Versions 0 and 1, Microsoft CHAP extensions, dynamic provisioning using EAP-FAST

Profiling methods

— Active: Network Mapper (Nmap), Windows Management Instrumentation (WMI), Secure Shell (SSH), SNMP
— Passive: MAC OUI, DHCP, TCP, NetFlow v5/v10, IPFIX, sFlow®, SPAN Port, HTTP User-Agent, IF-MAP
— HPE Aruba Networking ClearPass Device Insight
— Integrated and third party: HPE Aruba Networking ClearPass Onboard, HPE Aruba Networking ClearPass OnGuard, HPE Aruba Networking Operating System, enterprise mobility management (EMM) / mobile device management (MDM), Cisco device sensor

IPv6 support

— RADIUS and RadSec
— TACACS+
— Clustering (intranode communication)
— Web and CLI-based management
— IPv6 addressed authentication and authorization servers
— IPv6 RADIUS proxy
— IPv6 addressed endpoint context servers
— Syslog, domain name system (DNS), Network Time Protocol (NTP), IPSec IPv6 targets
— IPv6 virtual IP for high availability
— HTTP Proxy
— Ingress Event Engine Syslog sources
— HPE Aruba Networking ClearPass Onboard, HPE Aruba Networking ClearPass OnGuard

Certifications

— FIPS 140-2 level 1 certificate 4473 (6.11)
— Common Criteria NDcPPv2.2e (6.11)
— NIAP Common Criteria NDcPPv2.1+AUTHSVR 1.0 VID 11324 (6.11)
— IPv6 Ready (including USGv6 r-1)
— FIPS (6.14 - in-process)

Technical specifications

	N3000 Appliance (S3N66A)	N3001 Appliance (S3N65A)	N1000 Appliance (S3N67A)
Appliance specifications			
Hardware model	HPE ProLiant DL325 Gen11 Server	HPE ProLiant DL325 Gen11 Server	Advantech FWA-2012
CPU	AMD EPYC 9124 with 16 cores (32 threads)	AMD EPYC 9124 with 16 cores (32 threads)	Intel Atom® C3758R with 8 cores (8 threads)
Memory	128 GB	128 GB	16 GB
Hard drive storage	(3) SSD (960 GB SATA) RAID-5 controller	(3) SSD (960 GB SATA) RAID-5 controller	(1) SSD (1 TB) M.2
Out-of-band management	HPE iLO Advanced	HPE iLO Advanced	n/a
Network interfaces	4 x 1GbE	4 x 10/25GbE SPF28	4 x 1GbE
Serial port	Yes (DB-9)	Yes (DB-9)	Yes (RJ-45)*
Performance and scale	Refer to the HPE Aruba Networking ClearPass scaling and ordering guide		
Minimum software version	HPE Aruba Networking ClearPass Policy Manager 6.11	HPE Aruba Networking ClearPass Policy Manager 6.11	HPE Aruba Networking ClearPass Policy Manager 6.11
Form factor			
Rackmount	Included	Included	Included (mounting ears)
Dimensions (WxHxD)	17.1" x 1.7" x 25.6"	17.1" x 1.7" x 25.6"	19" x 1.7" x 12.6"
Weight (maximum configuration)	Up to 34.5 lb	Up to 34.5 lb	Up to 14.5 lb
Power			
Power supply	(2) HPE 1000W Flex Slot Titanium hot plug power supply	(2) HPE 1000W Flex Slot Titanium hot plug power supply	(1) 150W
Power cord	(2) C13-C14 WW 250V 10A jumper cord	(2) C13-C14 WW 250V 10A jumper cord	(1) C13-C14 WW 250V 10A jumper cord
Power redundancy	Included	Included	n/a
AC input voltage	100/240 VAC auto-selecting		
AC input frequency	50/60 Hz auto-selecting		
Environmental			
Operating temperature	10° to 35°C (50° to 95°F)	10° to 35°C (50° to 95°F)	10° to 35°C (50° to 95°F)
Operating vibration	Random vibration at 0.000075 G/Hz, 10 Hz to 300 Hz (0.15 G's nominal)	Random vibration at 0.000075 G/Hz, 10 Hz to 300 Hz (0.15 G's nominal)	0.5 Grms, 5-500 Hz, 1 hr/axis
Operating shock	2 G's	2 G's	1.5 G's
Operating altitude	3050 m (10,000 ft)	3050 m (10,000 ft)	3050 m (10,000 ft)

* **Note:** Transceivers not included. The N1000 does not include integrated video, only serial interface is supported.

Ordering guidance

Refer to the HPE Aruba Networking ClearPass Policy Manager scaling and ordering guide for detailed information on appropriate sizing and required licensing to deploy HPE Aruba Networking ClearPass. More information can be found on the HPE Networking support portal.

HPE Aruba Networking ClearPass ordering information

Part number	Description
Hardware appliances	
S3N65A	HPE Aruba Networking ClearPass N3001 10G SFP+ hardware appliance
S3N66A	HPE Aruba Networking ClearPass N3000 1G hardware appliance
S3N67A	HPE Aruba Networking ClearPass N1000 1G hardware appliance
Virtual appliances	
JZ399AAE	HPE Aruba Networking ClearPass Cx000V VM-based appliance E-LTU
Accessories	
S3N61A	HPE Aruba Networking ClearPass N3000x warm spare SSD
S3N62A	HPE Aruba Networking ClearPass N1000 cold spare SSD
Warranty information	
Hardware warranty	One-year parts*
Software warranty	90 days*
Perpetual software license warranty	90 days*
Perpetual licenses	
JZ400AAE	HPE Aruba Networking ClearPass Access License 100 Concurrent Endpoints E-LTU
JZ401AAE	HPE Aruba Networking ClearPass Access License 500 Concurrent Endpoints E-LTU
JZ402AAE	HPE Aruba Networking ClearPass Access License 1K Concurrent Endpoints E-LTU
JZ403AAE	HPE Aruba Networking ClearPass Access License 2500 Concurrent Endpoints E-LTU
JZ404AAE	HPE Aruba Networking ClearPass Access License 5K Concurrent Endpoints E-LTU
JZ405AAE	HPE Aruba Networking ClearPass Access License 10K Concurrent Endpoints E-LTU
JZ406AAE	HPE Aruba Networking ClearPass Access License 25K Concurrent Endpoints E-LTU
JZ407AAE	HPE Aruba Networking ClearPass Access License 50K Concurrent Endpoints E-LTU
JZ408AAE	HPE Aruba Networking ClearPass Access License 100K Concurrent Endpoints E-LTU
R1U35AAE	HPE Aruba Networking ClearPass Entry License 100 Concurrent Endpoints E-LTU
R1U36AAE	HPE Aruba Networking ClearPass Entry License 500 Concurrent Endpoints E-LTU
R1U37AAE	HPE Aruba Networking ClearPass Entry License 1K Concurrent Endpoints E-LTU
R1U38AAE	HPE Aruba Networking ClearPass Entry License 2500 Concurrent Endpoints E-LTU
R1U39AAE	HPE Aruba Networking ClearPass Entry License 5K Concurrent Endpoints E-LTU
R1U40AAE	HPE Aruba Networking ClearPass Entry License 10K Concurrent Endpoints E-LTU
R1U41AAE	HPE Aruba Networking ClearPass Entry License 25K Concurrent Endpoints E-LTU
R1U42AAE	HPE Aruba Networking ClearPass Entry License 50K Concurrent Endpoints E-LTU
R1U43AAE	HPE Aruba Networking ClearPass Entry License 100K Concurrent Endpoints E-LTU
R1U44AAE	HPE Aruba Networking ClearPass Access Upgrade License 100 Concurrent Endpoints E-LTU

* Extended with support contract

HPE Aruba Networking ClearPass ordering information (continued)

Part number	Description
Perpetual licenses	
R1U45AAE	HPE Aruba Networking ClearPass Access Upgrade License 500 Concurrent Endpoints E-LTU
R1U46AAE	HPE Aruba Networking ClearPass Access Upgrade License 1K Concurrent Endpoints E-LTU
R1U47AAE	HPE Aruba Networking ClearPass Access Upgrade License 2500 Concurrent Endpoints E-LTU
R1U48AAE	HPE Aruba Networking ClearPass Access Upgrade License 5K Concurrent Endpoints E-LTU
R1U49AAE	HPE Aruba Networking ClearPass Access Upgrade License 10K Concurrent Endpoints E-LTU
R1U50AAE	HPE Aruba Networking ClearPass Access Upgrade License 25K Concurrent Endpoints E-LTU
R1U51AAE	HPE Aruba Networking ClearPass Access Upgrade License 50K Concurrent Endpoints E-LTU
R1U52AAE	HPE Aruba Networking ClearPass Access Upgrade License 100K Concurrent Endpoints E-LTU
Subscription licenses (one year)	
JZ409AAE	HPE Aruba Networking ClearPass Access License 100 Concurrent Endpoints 1-year subscription E-STU
JZ410AAE	HPE Aruba Networking ClearPass Access License 500 Concurrent Endpoints 1-year subscription E-STU
JZ411AAE	HPE Aruba Networking ClearPass Access License 1K Concurrent Endpoints 1-year subscription E-STU
JZ412AAE	HPE Aruba Networking ClearPass Access License 2500 Concurrent Endpoints 1-year subscription E-STU
JZ413AAE	HPE Aruba Networking ClearPass Access License 5K Concurrent Endpoints 1-year subscription E-STU
JZ414AAE	HPE Aruba Networking ClearPass Access License 10K Concurrent Endpoints 1-year subscription E-STU
JZ415AAE	HPE Aruba Networking ClearPass Access License 25K Concurrent Endpoints 1-year subscription E-STU
JZ416AAE	HPE Aruba Networking ClearPass Access License 50K Concurrent Endpoints 1-year subscription E-STU
JZ417AAE	HPE Aruba Networking ClearPass Access License 100K Concurrent Endpoints 1-year subscription E-STU
Subscription licenses (three years)	
JZ418AAE	HPE Aruba Networking ClearPass Access License 100 Concurrent Endpoints 3-year subscription E-STU
JZ419AAE	HPE Aruba Networking ClearPass Access License 500 Concurrent Endpoints 3-year subscription E-STU
JZ420AAE	HPE Aruba Networking ClearPass Access License 1K Concurrent Endpoints 3-year subscription E-STU
JZ421AAE	HPE Aruba Networking ClearPass Access License 2500 Concurrent Endpoints 3-year subscription E-STU
JZ422AAE	HPE Aruba Networking ClearPass Access License 5K Concurrent Endpoints 3-year subscription E-STU
JZ423AAE	HPE Aruba Networking ClearPass Access License 10K Concurrent Endpoints 3-year subscription E-STU
JZ424AAE	HPE Aruba Networking ClearPass Access License 25K Concurrent Endpoints 3-year subscription E-STU
JZ425AAE	HPE Aruba Networking ClearPass Access License 50K Concurrent Endpoints 3-year subscription E-STU
JZ426AAE	HPE Aruba Networking ClearPass Access License 100K Concurrent Endpoints 3-year subscription E-STU
Subscription licenses (five years)	
JZ427AAE	HPE Aruba Networking ClearPass Access License 100 Concurrent Endpoints 5-year subscription E-STU
JZ428AAE	HPE Aruba Networking ClearPass Access License 500 Concurrent Endpoints 5-year subscription E-STU
JZ429AAE	HPE Aruba Networking ClearPass Access License 1K Concurrent Endpoints 5-year subscription E-STU
JZ430AAE	HPE Aruba Networking ClearPass Access License 2500 Concurrent Endpoints 5-year subscription E-STU
JZ431AAE	HPE Aruba Networking ClearPass Access License 5K Concurrent Endpoints 5-year subscription E-STU
JZ432AAE	HPE Aruba Networking ClearPass Access License 10K Concurrent Endpoints 5-year subscription E-STU
JZ433AAE	HPE Aruba Networking ClearPass Access License 25K Concurrent Endpoints 5-year subscription E-STU
JZ434AAE	HPE Aruba Networking ClearPass Access License 50K Concurrent Endpoints 5-year subscription E-STU
JZ435AAE	HPE Aruba Networking ClearPass Access License 100K Concurrent Endpoints 5-year subscription E-STU

HPE Aruba Networking ClearPass ordering information (continued)

Part number	Description
Customized guest portal	
H3OSYA1	HPE Aruba Networking ClearPass Guest Custom Skin E-LTU
Expandable application software	
HPE Aruba Networking ClearPass Onboard—device configuration and certificate management	Refer to the HPE Aruba Networking ClearPass Onboard data sheet
HPE Aruba Networking ClearPass OnGuard—endpoint device health	Refer to the HPE Aruba Networking ClearPass OnGuard data sheet

Learn more at

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