TECH BRIEF
CLOUD DATA PRIVACY AND PROTECTION
Aruba Central

ARUBA AND PRIVACY
Aruba, a Hewlett Packard Enterprise company, respects the privacy of customers, employees, partners and other stakeholders. Ensuring privacy is a core value of Aruba and is integral to the way we do business. We are committed to accountability and seek to maintain a robust privacy program globally.

With investments in cloud-based networking increasing throughout the 2020s1, data protection and data privacy are increasingly important when designing and deploying network architecture. Aruba Central and the network infrastructure it manages are engineered to facilitate strict compliance with the requirements of international and industry standards bodies.

WHAT IS ARUBA CENTRAL?
Aruba Central, the single pane of glass for Aruba’s Edge Services Platform (Aruba ESP), is an AI-powered network management, operations, analytics, and security command center for Aruba’s cloud-based networking solutions. Performance, diagnostics, and analytics are enhanced using a modern, microservices-based cloud architecture designed with scalability and resiliency in mind.

Geographic Availability, Scalability, and Resiliency
Aruba Central maintains points of presence (POPs) worldwide, enabling the segmentation of customer information based on region.

KEY FEATURES
• Role-based access control (RBAC)
• Native Aruba hardware authentication
• Ethical Hacking by Aruba Threat Labs
• Deployed in AWS and private clusters
• FedRAMP authorization in process

ARUBA SECURE INFRASTRUCTURE
In order to protect user data, Aruba Central and managed network infrastructure like access points, switches, gateways, and sensors are designed with advanced security protections to provide role-based access control, device impersonation prevention, intrusion prevention and more.

Role-based Access Control
Aruba Central management consoles can be federated with identity provider (IDP) solutions for SSO. This allows customers to use standard authentication and password policies to enforce requirements for users. Aruba Central then enforce role-based management privileges based on each users’ permissions.

Security Audits
Access to Aruba Central by your IT administrators is logged, including CLI sessions, saved changes, login and logout events. This usage data can then be exported and used in support of internal audit processes.

Data Encryption
All data in transit to and from Aruba Central is encrypted end-to-end using at least TLS 1.2. This includes connectivity to Aruba Central, on-premises network devices, and management interfaces accessed by Aruba employees (e.g. support services). Persistent AWS data stores are encrypted using at least AES-256.

Native Aruba Hardware Authentication
Network devices can be automatically added to Aruba Central management using Aruba Activate. Aruba Activate correlates network devices with shipment orders, Point of Sale (POS) orders, customer name, and manufacturing records to place devices into a customer’s Aruba Central console. Additionally, Trusted Platform Module (TPM) technology is used by Aruba Activate to validate the secure boot of an onsite device identity before allowing the device on the network.

Aruba Activate provides:
• Zero-touch provisioning (ZTP) for all Aruba network devices (APs, switches, and gateways)
• Device and firmware inventory
• Device ownership management
• Correlation for network devices with shipment orders, Point of Sale (POS) orders, customer name, and manufacturing records to place devices into a customer’s Aruba Central console

Learn more about Aruba Activate here: https://support.arubanetworks.com/Documentation/tabid/77/DMXModule/512/EntryId/10838/Default.aspx

COMPLIANCE PROGRAMS
Privacy, data protection and security are core to Aruba. As a data processor and as a data controller, Aruba commits to process personal data in compliance with its privacy policies, applicable laws, and contractual terms.

GDPR, CCPA and Other Privacy Laws
Aruba has established a global privacy compliance program led by the HPE Chief Privacy Officer. The privacy compliance program includes privacy impact and compliance assessment, records of processing activities, a data subject rights management process, and a robust security incident response process. Aruba’s data processing activities are regularly assessed to ensure compliance with applicable privacy laws, including the requirements of the GDPR and CCPA. Aruba transfers personal data internationally on the basis of Binding Corporate Rules for Controllers and Processors. Learn more about Aruba’s data privacy compliance for details.

FedRAMP Authorization in Process
Aruba Central is currently in process for FedRAMP authorization to enable U.S. federal agencies to deploy Aruba Central for their Aruba infrastructure. Certification is expected to be completed in 2021, joining ClearPass’s Common Criteria certification in adhering to stringent federal security requirements. For more information about FedRAMP, please visit https://www.arubanetworks.com/solutions/government/

PCI, HIPAA and Other Regulations
In order to help enterprises secure IT applications and infrastructure to meet functional and regulatory requirements, Aruba networks can be architected with multiple levels of protection. Learn more about how Aruba Central and other solutions can be designed to support retail, healthcare and government requirements: https://www.arubanetworks.com/regulatory-compliance/
SECURITY OPERATIONS (CLOUDOPS/SECOPS)

In addition to being hosted on one of the most secure cloud platforms available on the market, Aruba Central is continuously monitored and tested for security threats, using automated tools and people resources from the Aruba SecOps team and independent third parties. SecOps runs in-house tools, defines procedures, and performs monitoring of Aruba Central. SecOps works closely with the HPE Cyber Defense Center (CDC) and the Aruba Threat Labs to perform advanced threat detection.

Security Framework

Aruba Central’s security framework has been developed using policies and procedures promulgated by HPE Cyber Security Governance, which is based on industry standards such as NIST 800.53 and ISO 2700. Controls are implemented in various categories such as access control, change management, infrastructure security, communication security, vulnerability management, patch management, backups, personnel security, and physical security.

Access to Management Functions

An Aruba employee’s access to management interfaces is managed using single sign-on (SSO) with two-factor authentication (2FA). Access is granted on a “least privileged principle” and only as needed to perform job duties. In addition, all Aruba employees undergo background checks and sign Non-Disclosure Agreements (NDAs) before being granted access to the environment. Actions performed on management interfaces are logged and the logs are regularly reviewed.

Independent Vulnerability Assessments

Third party penetration tests are performed to identify and close any potential vulnerabilities. Third party assessments are also performed for security compliance attestations.

Additional Testing and Ethical Hacking

Aruba Threat Labs, part of Aruba's CTO office, exists to find and eliminate security vulnerabilities in Aruba products. This includes a talented group of information security professionals who conduct additional hardware, software, and cloud security assessments, perform red team operations, exercise applied security research, promote and drive security into the software development lifecycle (SDLC) of our solutions, manage a bug bounty program, and coordinate with Aruba Security Incident Response Team (Aruba-SIRT) and HPE’s Fusion Center.

PROVEN CLOUD HOSTING PROVIDERS

AWS, as one of Aruba Central’s cloud hosting providers, participates in extensive audit and certification programs to help maintain security and compliance in the data center. AWS provides Aruba with SOC2 Type 2 audit reports and extensive information on other compliance activities. These materials are also available directly to other AWS customers. Aruba reviews these certifications on a regular basis to confirm that any identified vulnerabilities are resolved.

These cloud providers are available globally and can be segmented by governments, industry, geographic region and more.

AWS Compliance and Security Programs

The AWS Compliance Program provides Aruba with validation for the robust controls in place at AWS.
https://aws.amazon.com/compliance/programs/

The AWS Security team provides Aruba with information on AWS’s security posture. https://aws.amazon.com/security/

RESOURCES

Please see below for additional information about Aruba’s privacy policy, compliance, and terms and conditions:

· Aruba Data Privacy Overview and Commitments: https://www.arubanetworks.com/dataprivacy/
• Aruba Retail, Healthcare, and Federal Compliance:
  https://www.arubanetworks.com/regulatory-compliance/
• Aruba PCI Compliance White Paper:
  https://www.arubanetworks.com/assets/wp/WP_PCIDSS.pdf
• Aruba Central Terms and Conditions:
  https://www.arubanetworks.com/products/networking/management/central/terms-conditions/
• HPE Privacy Policy:
• NIST Computer Security Incident Handling Guide:
  https://nvlpubs.nist.gov/nistpubs/SpecialPublications/NIST.SP.800-61r2.pdf
• Cloud Security Alliance Registry:
  https://cloudsecurityalliance.org/star/registry/aruba-a-hpe-company/