

Arista Validated Design and Greenfield Deployment (AVD-DEPLOY) Service Highlights

Consulting Expertise:

- Network Engineering Consulting Practice
- Project Management Practice

Network Design:

- High-Level and Low Level-Designs (HLD/LLD)
- CloudVision® Deployment

Network Deployment and Integration:

- Greenfield DC fabric deployment and testing
- Network Integration planning and execution

Handoff to Operations:

- Knowledge transfer workshop

Overview

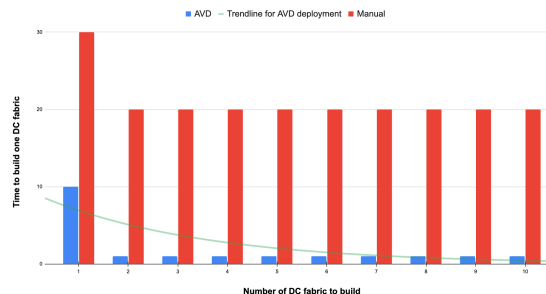
The Arista Validated Design and Greenfield Deployment (AVD-DEPLOY) service is specifically designed for customers who need expert assistance for designing and deploying their Arista network in a greenfield environment, including Data Centers, Campuses, and Wide Area Networks. Arista pro-services will fully automate the network deployment solution using AVD and integrate the automation into their environment.

Solution

AVD is a transformational solution that will modernize how customers build, deploy, upgrade, document, and validate their networks using open-source automation. It utilizes Ansible collections and the programmability of EOS and CloudVision to deliver a fully automated solution. The power of AVD is its ability to easily create repeatable and reusable solutions for Arista networks.

This is a departure from repetitive traditional network operations requiring significant human resources. Manually operated network infrastructure increases the likelihood of mistakes, decreases services velocity, and is difficult to operate.

The below chart illustrates the time savings using AVD automation versus manual to build data center fabrics:



AVD automation provides the following benefits:

- **Zero Touch Provisioning:** Automate DHCP-Server setup and configuration to fully onboard new EOS switches into CloudVision without human interaction.
- **Build:** Describe network infrastructure and services with powerful data models that minimize input and maximize configuration generation. Build automation fully renders the network's configurations and can be reviewed before network changes.
- **Deploy:** Programs Arista's CloudVision using REST APIs to provision network and service configurations. Deployment automation can be as closed loop as the customer desires.
- **Validate:** Dynamically creates Network Ready For Use (NRFU) test cases to verify network health and the success of network changes. NRFU test cases produce a detailed report with actionable information to help troubleshoot issues.
- **Software Upgrade:** Programs Arista's CloudVision using REST APIs to create image bundles then uses image bundles to upgrade a switch's EOS software.
- **Document:** Self-documenting solution maintains up-to-date design documentation after each network change. Documentation is in Markdown format, which can integrate with any Source Control Management (SCM) tool.

Arista Professional Services provide the following expertise for deploying an AVD solution:

- **Network Consulting:** Extensive review of customer network requirements. Collaboration with customers on standardizing

the network design for a repeatable solution at all sites. This avoids one-off solutions that are difficult to manage.

- **Software Consulting:** Works with customers, wherever they are in their automation journey, to implement the right AVD solution for their environment. Advises customers on best practices for implementing the solution using Infrastructure as Code (IaC) methodologies.

Delivers AVD solution that is representative of the network design. Collaborates with network consultancy on planning and deployment of network with AVD.

Prepares customers for managing the solution. At the end of the engagement, customers will be comfortable creating new sites and making changes to the network using AVD.

- **Project Management:** Creates a project plan for the customer and PS teams and manages roles and responsibilities between groups. Delivers an on-time project when the customer needs it.
- **Support:** Additional support SKU available for long-term aTAC support.

Services Deliverables

This engagement model envisages set project deliverables and artifacts for a successful solution deployment with minimum risks to the customer. A dedicated project delivery team, consisting of a lead technical consultant and a project delivery lead/project manager, will be assigned to the service, with reach back to the larger Arista Professional Services practice and Arista Engineering teams for increased confidence in the solution being delivered.

- **Customer Requirements Document (CRD):** Arista will work with customers to collect and document customer's business requirements as a baseline for building the subsequent deliverables.
- **High-Level Design (HLD) Document:** Based on the CRD and detailed information collected through the requirements review process,

Service Description Data Sheet

Arista PS creates High-Level Design (HLD) Document.

- **Low-Level Design (LLD) Document:** Based on the CRD and HLD documents, Arista will create a Low-Level Design (LLD) document describing AVD configurations and configuration changes to optimize the AVD transition.
- **CloudVision Deployment:** CloudVision will be deployed to facilitate the Day 1 rollout of the Arista devices and allow for Day 2 telemetry and monitoring capabilities of the Arista products and devices to occur.
- **Integration Plan & Execution Support:** The service will plan and execute the services required for integrating AVD into their IT infrastructure to fully automate their network.
- **Knowledge Transfer Workshop ("KTW"):** Arista PS will provide up to two (2) KTW interactive sessions with an expected duration of up to four (4) hours each session, covering the following topics:
 - Customer's network architecture as per PS engagement
 - Security/CVE scans & reporting reviews best practice
 - Streaming telemetry best practices
 - Dashboards best practices
 - Installation, upgrade, and maintenance of AVD
 - Configuring AVD to support network deployment, network changes, and service delivery.
 - CloudVision and AVD best practices
 - AVD self-documentation
 - Running NRFU test cases and reviewing test reports
 - EOS[®] upgrades through AVD best practices
 - Being active in the AVD open-source community

Services Assumptions

- 100% remotely delivered service.
- Physical equipment rack and stack, cabling, and power up services are excluded.

Service Description Data Sheet

demonstrate platform capabilities and features intended for the deployment

- Migration planning and execution services are excluded and can be custom scoped separately upon request.
- Services are limited to out-of-the-box Arista product capabilities only. Customizations are excluded.
- Design and configuration services of non-Arista devices are excluded.
- Arista products and licenses are to be acquired separately.
- CloudVision® is a requirement for the delivery of this service
- A Proof Of Concept (POC) was completed during the pre-sales phase to

About Arista Professional Services

Arista Professional Services, using CloudVision capabilities, can help customers and partners elevate the value of the IT and Network Infrastructure teams within their organizations using a proven methodology to successfully deploy, operate, and monetize their cloud infrastructure with reduced OPEX.

Ordering Information

Product Number	Product Description
SVE-EOS-AVD-DEPLOY	Packaged Service - Arista Validated Design (AVD) and Greenfield Deployment Service SKU
SVE-EOS-AVD-MIGRATE	OPTIONAL - This is an optional migration from legacy service SKU add-on service to AVD-DEPLOY SKU. Custom scoping is required for this SKU.

Headquarters

5453 Great America Parkway
Santa Clara, California 95054
408-547-5500

Support

support@arista.com
408-547-5502
866-476-0000

Sales

sales@arista.com
408-547-5501
866-497-0000

Copyright 2023 Arista Networks, Inc. The information contained herein is subject to change without notice. Arista, the Arista logo and EOS are trademarks of Arista Networks. Other product or service names may be trademarks or service marks of others.

www.arista.com

ARISTA