

Arista Cognitive Campus Provides Resilient Networks

Why should you care about resilient networks?

Businesses today are facing challenges that they never had to face before; managing a dispersed workforce, keeping up with evolving technologies, and making their network seamless, easy to use, and hacker-proof. As campus networks become the foundation for business-critical applications, the need for highly available wired and wireless networks have never been so important. For example, in healthcare, downtime can be life threatening, in manufacturing, it can result in millions of dollars in losses and in utilities, it can bring a halt to the daily lives of thousands of people.



What is the solution?

Arista builds wired and wireless local area networks (WLANs) on a strong foundation of best-in-class hardware, one consistent operating system, scalable design methodologies and the ability to test and validate design changes without impacting the live network. Arista Cognitive Campus helps network engineers, systems architects and IT executives build an efficient and fast network that simply works.

What is "Cognitive Campus"?

It starts with CloudVision CUE™ (CV-CUE), a cloud or on-premises service designed for zero-touch operations and automates routine network provisioning, configuration and maintenance tasks and reduces manual intervention. This automation improves agility, accelerates time-to-deployment and enhances overall network responsiveness.

In addition to CV-CUE, Arista's Cognitive Campus is composed of:

- A comprehensive series of Wi-Fi APs that feature the most updated wireless technology.
- A range of switch options, from compact and fixed form factor to high-end fixed form factor which provide versatile port densities ranging from 12 to 96 ports and speeds spanning from 1G to 25G.
- CloudVision AGNI, which seamlessly integrates with identity providers, provides robust network access control and ensures a fast and secure deployment process.
- Cognitive capabilities deliver real-time insights into performance, security threats and user behavior enabling proactive monitoring, troubleshooting and optimization to maintain peak network performance and reliability.

How does it work?

The key elements of Arista's effective and efficient network solutions include:

- One operating system across the whole network
- One management console across the entire network
- Software templates that provide validated, scalable designs with:
 - Multi-chassis link aggregation (MLAG)
 - Virtual extensible local area networking (VXLAN)
 - Ethernet virtual private networking (EVPN)
- A distributed Wi-Fi control plane that allows access points (APs) to stay up even if the management plane goes down
- Smart software upgrades with no impact to end users
- The lowest common vulnerabilities and exposures (CVEs) in the industry, which means less unplanned downtime for users
- Arista Cloud Test which uses a digital twin to test and validate changes

Why choose Arista?

In addition to CV-CUE, Arista's Cognitive Campus is composed of:

- Quick proof of concept (PoC) set up time
- High quality solutions
- One centralized tool to troubleshoot switches and access points on both wired and wireless networks
- Hitless upgrades to access points and switches without a noticeable impact

Arista Cognitive Campus is a high performance, worry-free, secure wired or wireless networking solution for any size business that is looking for a truly hands-off experience. Arista delivers positive customer experiences with virtually zero planned or unplanned downtime and built-in security features to proactively counter cyber attacks.

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