

# Enterprise SONiC Distribution by Dell Technologies

Open Source networking innovation with enterprise-grade features and global support

To meet the challenges of modernizing the data center to support digital transformation, today's network needs to be open to change. Digital transformation is driving the adoption of emerging technologies and data growth that puts new demands on rigid legacy networks that struggle to perform under the strain. Closed, proprietary solutions of yesterday have trouble adapting to the demands of today's enterprise, creating management complexity, stalling the pace of innovation, and hampering organizations' ability to shift and meet new business objectives at a time when network modernization plays a pivotal role in competitive advantage.

## Benefits of Open Networking

- Greater flexibility and choice
- Cost savings
- Investment protection
- Ease of management
- Improved time to value
- Reduced time to innovation

## The Open Networking Evolution

By decoupling network software from the underlying hardware, open networking provides the ability to quickly add features and applications for a network that delivers maximum – and measurable – business value. Open networking frees enterprises from proprietary and costly networking solutions, resulting in a seamless and simplified path to future innovation.

## SONiC - Open Source NOS for the Cloud

Built around a containerized architecture, Software for Open Networking in the Cloud (SONiC) uses standards-based APIs to simplify integration and provide the flexibility to adapt applications to your specific environment —running only what's required. Proven at scale in the world's largest cloud networks, SONiC enables containerized applications, linking them quickly across the network using a common language to deploy network applications on any hardware. The resulting containerized architecture can be easily managed and upgraded to support a variety of services. A large community of more than 850 members, including major cloud providers and network hardware OEMs and ODMs, is constantly evolving and improving SONiC with the development of new features, functionality and application support.

Replacing vendor switch network operating systems with SONiC has been beneficial in improving the resilience of datacenter switches, boosting the survival likelihood of switches in datacenters by 1% by eliminating switch failures caused by software bugs.

## Use Cases

- Bringing cloud networking to the enterprise
- Scalable L3 fabric underlay for the data center
- Network fabric underlay for SDN deployments
- Multi-tenancy with VXLAN EVPN
- Routing to host

## Enterprise SONiC Distribution by Dell Technologies

Enterprise SONiC Distribution by Dell Technologies is the first commercial version of open source SONiC to provide enterprise-ready features and global support for largescale environments. Capitalizing on the innovation and scalability of open source SONiC, and the trusted enterprise expertise of Dell Technologies, we've added enterprise-level capabilities, hardened it with extensive testing and validation across the Dell EMC PowerSwitch portfolio, and integrated with an ever expanding ecosystem of partners and tools.

With Dell Technologies, you gain the advantages of a highly scalable, cloud-ready data center network fabric that leverages real-world tested SONiC OS and adds enterprise-level support from a global organization that aligns with the unique needs of your data center environment. As a leader in Open Networking, Enterprise SONiC Distribution by Dell Technologies integrates Linux-based, open source SONiC with full life-cycle service and support of the OS, and a focused roadmap of features and enhancements, to meet the needs of tier 2 cloud and large-scale enterprise networking environments.

## Innovative open source NOS for the cloud



### Innovative open source

Incorporates a modular/micro services containerized architecture



### Highly scalable

Being used in hyper-scale networking by some of the largest tech companies



### Open & extensible

Based on open-source Debian Linux distribution

## Gain Flexibility with Open Source Innovation from Dell Technologies

Enterprise SONiC Distribution by Dell Technologies is purpose-built for enterprise, cloud-level large-scale data center network environments that require advanced scalability, manageability and global support from the leader in Open Networking.

Learn more about Enterprise SONiC Distribution by Dell Technologies by visiting [DellTechnologies.com/EnterpriseSONiC](https://DellTechnologies.com/EnterpriseSONiC)