



AI for Networks
Networks for AI



Celestica



SONiC

Celestica & Aviz Networks: Certified Community SONiC

Solution Brief



Unlocking the Power of Open Networking with certified community SONiC

As data centers evolve to accommodate AI, cloud, and edge workloads, network infrastructures must be flexible, scalable, and cost-effective. The partnership between Celestica and Aviz Networks delivers optimized, enterprise, solutions, combining Celestica's high-performance switches with Aviz's enterprise-grade SONiC support and a complete orchestration/ automation stack to manage fabrics. This joint solution enables enterprises to embrace open networking with confidence, lower TCO, leverage cloud economics, while ensuring seamless deployment, visibility, and lifecycle support for SONiC-based networks.

Solution Overview and Customer Benefits

De-risk Your Network: Celestica Switches + Aviz SONiC Support

Aviz Networks enhances Celestica's switch portfolio by providing comprehensive support for SONiC, ensuring reliability and enterprise-grade performance. By leveraging Aviz's ONES platform, organizations gain access to an integrated orchestration, visibility, AI Fabric, and assurance suite tailored for multi-vendor SONiC environments.

About Aviz Networks

Aviz Networks is a leader in AI-driven, open networking solutions. The company specializes in SONiC-based networking

software, enabling enterprises and cloud providers to transition from traditional networking models to an open networking approach. With extensive contributions to the open-source community and a dedicated SONiC support framework, Aviz empowers customers to achieve:

- **Multi-vendor** interoperability through ONES' orchestration, visibility features, and AI Fabric for AI/ML workloads.
- **Enterprise-grade SONiC support** from Level 1 to Level 3, including bug fixes, patch releases, and security updates.
- **Optimized network performance** with real-time telemetry, assurance, and troubleshooting, specifically designed for high-performance AI and GPU-driven environments.

About Celestica platform solutions:

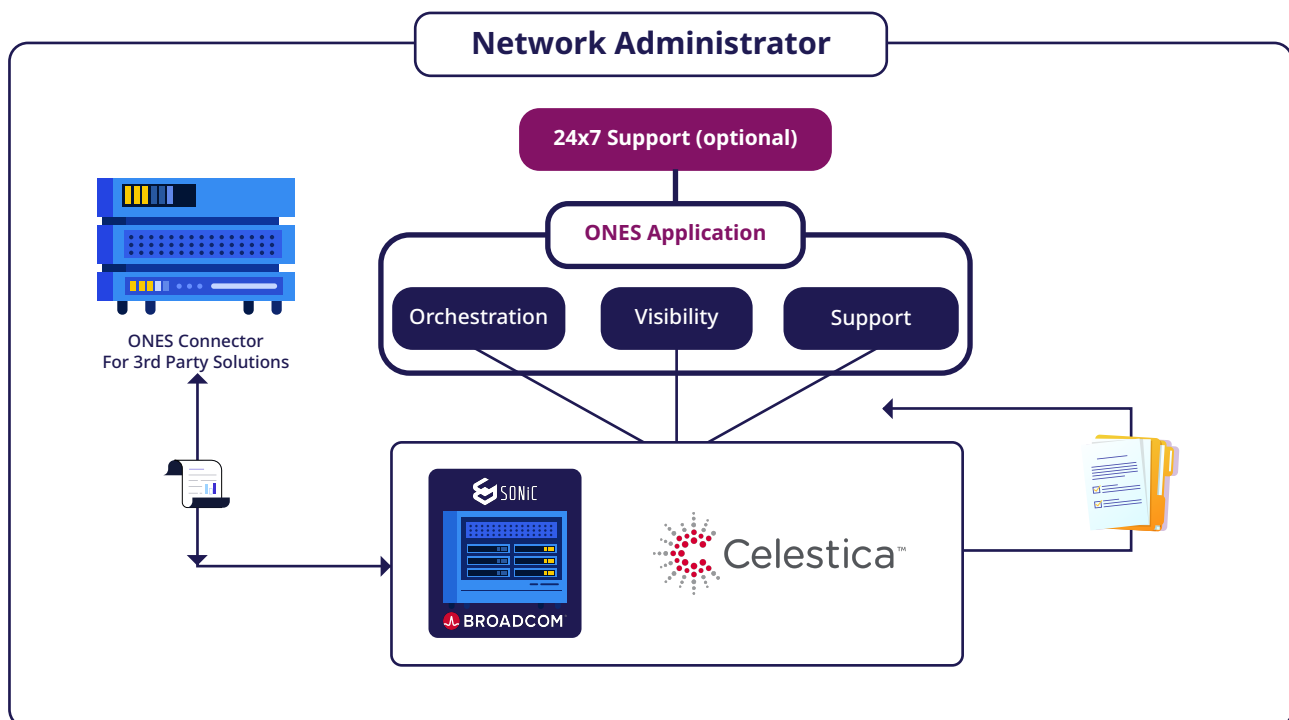
Celestica delivers proven, ready, open, enterprise-class networking solutions that leverage cloud economics to boost performance and reduce overall costs from the data center to the edge. These solutions consistently incorporate new AI/ML and HPC features and provide the ideal path to open networking.

Celestica:

1. Enables SMBs, enterprises, and cloud providers to embrace an open networking approach.
2. Delivers reliable, secure, and high-performing networking across its portfolio.
3. Embraces an open ecosystem of technology partners and software solutions.

Technical Overview of the Solution

Aviz Software Stack on Celestica Switches



Aviz’s ONES platform fully supports Celestica switches running SONiC. The key capabilities include:

Function	Aviz ONES on Celestica Switches
Deployment Quality	Certified SONiC builds for Celestica hardware
Orchestration	Fabric Manager for BGP, MC-LAG, VXLAN
Visibility (Telemetry)	200+ streaming telemetry points
NetOps APIs	Multi-NOS interoperability and migration support
Support	24/7 enterprise-grade support with end-to-end SLAs

Use Cases

Data Center Networks

- High-scale, multi-vendor SONiC/Celestica fabric with centralized management.
- Deployment of BGP-based Routing on Host (RoH) for Layer 3 scalability.
- End-to-end network visibility with real-time performance analytics.

Edge Use Case

- SONiC-enabled Celestica switches for distributed AI edge deployments.
- Integration with Kubernetes-based networking for containerized workloads.

GPU Networks

- AI Fabric for high-performance computing (HPC) with congestion management.
- Advanced telemetry and latency monitoring for RoCEv2-based AI workloads.





Integration and Implementation

Step-by-Step Deployment Guide

Aviz provides a structured approach to deploying SONiC on Celestica switches with the ONES platform, ensuring seamless integration into existing data center environments. Key steps include:

- **SONiC Readiness Assessment** – Analyze current network infrastructure for SONiC compatibility.
- **Deployment Planning** – Define network architecture, fabric design, and hardware requirements.
- **Installation & Configuration** – Implement ONES for orchestration, visibility, and assurance.
- **Validation & Optimization** – Conduct performance testing and fine-tune configurations.
- **Operational Support** – Utilize Aviz’s 24/7 support for ongoing network management.

Celestica Hardware and Aviz SONiC Stack Compatibility

Category	Procurement Channels	Port speed	Port Config	SKU
 Celestica™	Celestica	1GbE	48x1GbE + 4x10GbE	DS1000
 Celestica™	Celestica	25GbE	48x25GbE	DS2000
 Celestica™	Celestica	100GbE	32x100GbE	DS3000
 Celestica™	Celestica	400GbE	32x400GbE	DS4000

Support and Resources

Customers deploying Celestica switches with Aviz SONiC support benefit from:

- **24x7 support** with Level 1-3 coverage.
- **Security patches, bug fixes, and feature enhancements** for enterprise SONiC.
- **Training and professional services** for seamless network transformation.

TCO Summary

- **40% reduction in Total Cost of Ownership (TCO)** compared to traditional network vendors .
- **Enterprise-grade SONiC reliability** with continuous qualification and performance tuning.
- **Accelerated deployment timelines** with certified SONiC builds for prequalified topologies

Support and Services

Aviz provides a single point of contact for all service and support needs, streamlining issue resolution across multi-vendor environments. We coordinate directly with Celestica through a ensuring a seamless and efficient support experience for customers.



2024 Market Share Leader in AI High Speed Networks

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For more information on how Aviz Networks
and Celestica can transform your network, contact:

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