



ADAMS CABLE SERVICE

ADAMS CABLE SERVICE BREAKS FREE FROM VENDOR LOCK-IN WITH OPEN NETWORKING

Revolutionizing Network Infrastructure with IP Infusion, RocNet, and 400G ZR+ for a Future-Proof and Agile Network

Adams Cable Service (Adams CATV), a regional communications provider based in Carbondale, Pennsylvania, delivers digital cable TV, broadband internet, wireless, and digital VoIP phone services. To meet growing customer demands and position itself for future expansion, Adams Cable Service sought a network upgrade that would propel them forward.

Challenges

- **Aging Infrastructure:** Existing 80G DWDM network ring nearing end of life, requiring replacement within 5 years. This posed a significant risk as the aging infrastructure could lead to performance bottlenecks, increased downtime, and difficulty in accommodating new services.

- **Cost Prohibitive Solutions:** Traditional vendor offerings with proprietary hardware and software were too expensive. The high costs associated with these solutions threatened to impede the company’s ability to invest in other critical areas of its business.
- **Extended Lead Times:** Up to 12 months for equipment delivery, risking capacity overload before upgrade completion.
- **Complex Legacy Network:** Reliance on multiple routing protocols (LDP, RSVP, BGP, OSPF, OSPFv3, MPLS) increased operational complexity. This complexity not only increased operational overhead but also made it more difficult to adapt to new technologies and evolving industry standards.

HIGHLIGHTS

Benefits that Adams Cable Service Experienced After Selecting IP Infusion OcNOS:

- **Reduced Lead Times:** from 12 months to weeks.
- **Reduced TCO:** IP Infusion solution significantly reduced both infrastructure and support costs.
- **Future-Proof Architecture:** The open networking solution lays a robust foundation for future network enhancements and the incorporation of advanced features like SR-TE and TI-LFA.
- **Industry-standard CLIs** and auto-completion features simplified the transition for network engineers, reducing training time and operational overhead.
- **Open Optics Support** enabled Adams Cable Service to use their preferred optics supplier, Precision Optics, for 400G ZR+ transceivers.
- **Interoperability:** OcNOS seamlessly integrated with Adams Cable existing network equipment from Cisco, Juniper, and Arista, minimizing migration disruption and protecting investments.

Solution

To address these challenges and lay a foundation for future growth, Adams Cable Service partnered with RocNet Supply to implement a disaggregated open networking solution. This approach, leveraging IP Infusion's OcNOS operating system and UfiSpace hardware, offered a cost-effective and flexible alternative to traditional vendor offerings. The deployment of high-performance UfiSpace Access and Aggregation Routers, powered by OcNOS, addressed immediate capacity concerns enabling Adams Cable to upgrade access network to 100G speeds and offered a scalable platform for future expansion.

The integration of Precision Optics 400G ZR+ optics with UfiSpace's 400G-ready hardware and Adams CATV's existing DWDM infrastructure facilitated a seamless leap from 80G to 400G backhaul, ensuring ample bandwidth for current and future needs. Additionally, IP Infusion's OcNOS provided a familiar, industry-standard command-line interface (CLI), simplifying the transition from legacy equipment and ensuring interoperability with existing Cisco, Juniper, and Arista gear.

While advanced features like SR-TE (Segment Routing Traffic Engineering) and TI-LFA (Topology-Independent Loop-Free Alternate) are not yet implemented, they are part of Adams CATV's long-term network roadmap. These features, combined with the scalable and flexible architecture of the upgraded network, will further enhance network resiliency, performance, and adaptability to future technological advancements.

“Open networking offers numerous significant benefits to our network, including improved time to market and lower costs. By enhancing capacity cost-effectively, we can pass along those savings and benefits to our end users, continuing to drive value as a network provider.”

Deployment

RocNet Supply played a pivotal role in the successful and rapid deployment of Adams Cable Service's new network infrastructure. Their expertise in open networking solutions and pre-validated designs significantly accelerated the rollout, addressing Adam Cable's urgent need for increased capacity.

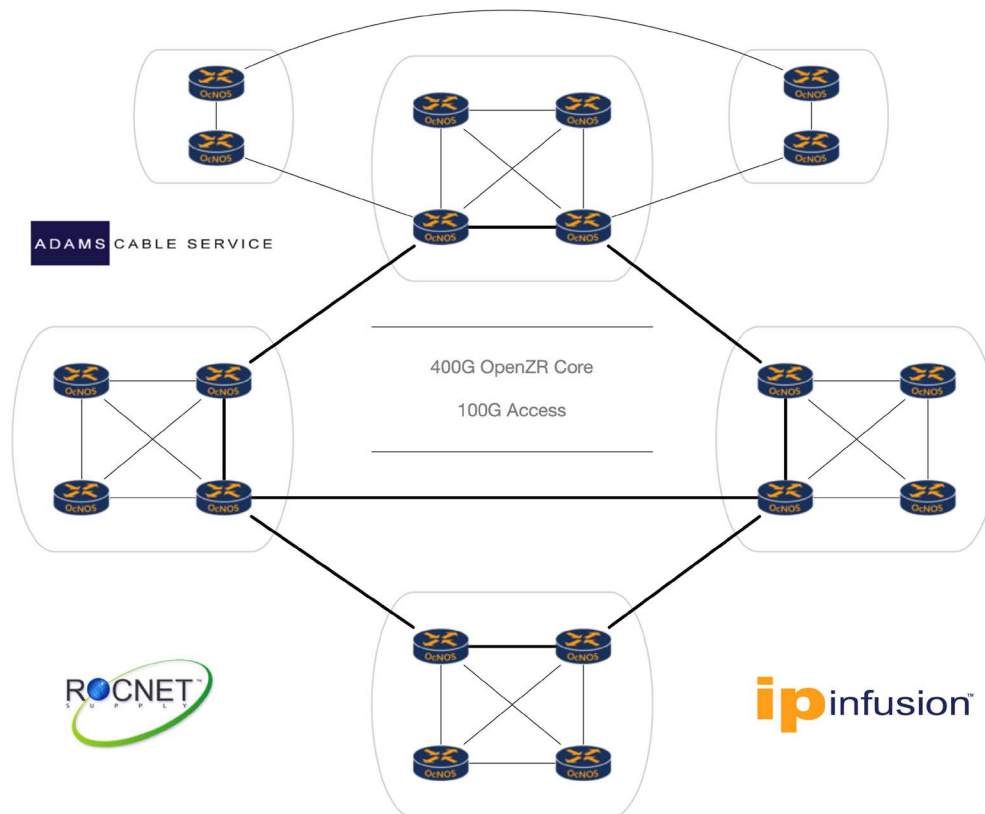
- **Crucial Testing:** RocNet Supply's lab environment allowed Adams Cable Service to thoroughly test OcNOS on UfiSpace hardware with Precision Optics 400G ZR+ transceivers before committing. This hands-on evaluation, combined with pre-validated designs, ensured a seamless transition and minimized any potential deployment delays.
- **Speed, Collaboration, and Support:** In stark contrast to the lengthy lead times quoted by traditional vendors, RocNet Supply delivered the necessary hardware within weeks. This rapid turnaround, along with their ongoing support for the OcNOS software, UfiSpace hardware, and Precision Optics, empowers Adams Cable Service to confidently manage and maintain their new network infrastructure.

SOFTWARE PRODUCTS

- IP Infusion OcNOS-SP-MPLS-4800
- IP Infusion OcNOS-SP-MPLS-2400
- IP Infusion OcNOS-SP-MPLS-800

HARDWARE PRODUCTS

- UfiSpace S9600-72XC-RB5B
- UfiSpace S9600-56DX-BB1B
- UfiSpace S9510-28DC-BR2B
- Precision Optics 400G ZR+ Transceivers



Summary

Partnering with RocNet Supply, IP Infusion, and UfiSpace, Adams Cable Service strategically embraced open networking to transform their infrastructure. This approach enabled the deployment of a highly scalable and cost-effective 100G access and 400G backhaul network built on IP Infusion's OcNOS software, UfiSpace hardware, and Precision's optics.

Adams Cable Service now has the flexibility to tailor their network, enjoy streamlined operations, and pass cost savings onto their customers. This forward-thinking investment ensures they can consistently deliver exceptional value and remain a leader in customer-focused connectivity.

“Deployments such as the one for Adams Cable really hits a sweet spot in terms of upgrade value. Open networking can really change the user relationship to their networking equipment. Every customer can have a custom fit solution, delivered quickly.”

– Allen Licata, Executive Vice President of Network Solutions for RocNet Supply

“Our partnership with RocNet Supply and IP Infusion has been instrumental in our network transformation. RocNet's expertise, pre-validated designs, and rapid deployment capabilities were crucial in addressing our urgent capacity needs. IP Infusion's OcNOS proved to be a robust and reliable platform from the start, exceeding our expectations during lab testing and seamlessly transitioning into our production environment. Their combined support for the entire solution has been invaluable in ensuring our new network's smooth operation and our ability to exceed customer expectations.”

– Wendy Hartman, General Manager, Adams Cable Service

Contact for More Information:

For more information on the OcNOS software, please contact sales@ipinfusion.com.

ABOUT IP INFUSION

IP Infusion is a leading provider of open network software and solutions for carriers, service providers and data center operators. Our solutions enable network operators to disaggregate their networks to accelerate innovation, streamline operations, and reduce Total Cost of Ownership (TCO). Network OEMs may also disaggregate network devices to expedite time to market, offer comprehensive services, and achieve carrier grade robustness. IP Infusion network software platforms have a proven track record in carrier-grade open networking with over 500 customers and over 10,000 deployments. IP Infusion is headquartered in Santa Clara, Calif., and is a wholly owned and independently operated subsidiary of ACCESS CO., LTD. Additional information can be found at <http://www.ipinfusion.com>

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