SONiC New Members Support
By SONiCApril 29, 2024No Comments
SONiC New Members Supporting Quotes
Member support:

Asterfusion Data Technologies

s openness, flexibility, and scalability. Throughout the past 7
years, Asterfusionre on a mission to make the power of SONiC
accessible to even more network users,Edgecore Networks has been
working with SONIC community for years providing open hardware
and software solutions, we welcome new members to the community
strengthening and accelerating the innovation of open networking
solutions,**A growing SONiC community brings new expertise and
open solution options to address advanced networking use cases in
AI/ML, Data Center and Enterprises.**We are deeply honored and
thrilled to become a member of the SONiC Foundation, as it
provides an exceptional platform for micas to facilitate the
transition of global data centers towards open networking,Over
the past two years, with the rapid advancement of fields such as
AI/ML and supercomputing, our SONiC-based open networking
products and solutionshave increasingly gained recognition from
satisfied clients. As both beneficiaries and builders of open
networking, we look forward to collaborating closely with the
SONiC Foundation in the future to jointly explore the path
forward for open networks.Joining the SONiC ecosystem presents an
unparalleled opportunity for Netweb and to revolutionize the
networking landscape. By integrating with SONiC, we are poised to
deliver cutting-edge solutions that seamlessly blend innovation,
reliability, and scalability, empowering businesses to thrive in
the digital era. Our commitment to SONiC underscores our
dedication to driving transformative change and exceeding the
evolving needs of our customers worldwide,PalC Networks is proud
to announce our membership in the SONiC foundation community,
reinforcing our dedication to the advancement of disaggregated
networking solutions. With over five years of specialized
experience in SONiC application development and a robust 24/7
technical support infrastructure, we are committed to making
substantial contributions to the community. This partnership is a
testament to our ongoing pursuit of technological innovation and
our commitment to shaping the future of open networking on a
global scale,QualitySoft develops and operates Kubernetes
clusters using SONiC and white box switches. SONiC and other OSS
and their communities accelerate the cloud-native transformation
of society. By developing and operating Kubernetes clusters, we

show our commitment to the SONiC Foundation and contribute to the OSS community,Asterfusion is fortunate to collaborate with the SONiC Foundation community in spreading the open network to a wider audience. By doing so, more network users will have the opportunity to experience the benefits of SONiCs commitment has always been to deliver the best Enterprise SONiC Distribution and the most outstanding SONiC-based open network switches. This achievement is accomplished through close collaboration with the SONiC foundation within the community. Together, we **said Andrew HU, vice president of marketing at Asterfusion Data Technologies.**

Edgecore Networks

said Nanda Ravindran, VP of product management at Edgecore Networks Corporation.

Micas Networks

said Grant Lai, CTO at Micas Networks. characterized by high performance, reliability, compatibility, scalability, and flexible customization

Netweb Technologies

said Sanjay Lodha, CEO at Netweb Technologies.

PalC Networks

said Krishnamurthy Mayya, director of marketing and product management at PalC Networks.

QualitySoft Corporation

said Hinato Uema, Development Guild Team at QualitySoft.

Driving Innovation: Alibaba and Cisco Co-dev SRv6 SONiC Router By Pablo Camarillo, Eddie Ruan, Clarence Filsfils, Ahmed Abdelsalam, Dennis Cai, Yuanchao SuOctober 27, 2023No Comments

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In the world of networking, collaboration between industry leaders is crucial to drive innovation and develop cutting-edge solutions to resolve critical biz problems. This blog post highlights the industry collaboration between Alibaba Cloud and Cisco in developing and deploying an SRv6 SONiC whitebox router to support Alibaba CloudPredictable NetworkPredictable Networks future growth.

SRv6 is a novel architecture that provides a unified dataplane across all network domains (WAN, Metro, DC, Cloud, Host, Container), SRv6 uSID resolves the IPv6 header overhead issue by compressing the header very effectively. With proper IPv6 address schema planning, SRv6 eliminates the need for gateways at domain boundaries, simplifying operations and removing bottlenecks from the network. SRv6 uSID also offers less MTU overhead compared to alternatives, alongside with feature richness.

Built on top of IPv6, it benefits from IP summarization —thanks to IP longest prefix match- and load balancing —with the IPv6 Flow Label-. SRv6 uSID complements it enabling the creation of the various services, such as VPNs, Traffic Engineering, Network Slicing, and NFV policies, in a stateless and scalable manner. Alibaba has chosen SRv6 uSID for their Predictable Network design.

Alibaba Cloud is also willing to contribute SRv6 innovation to open source community. The appeal of an open-source network OS lies in its ability to be enhanced by the community and shared across different network equipment manufacturers, simplifying operations.

The SRv6 SONiC collaboration started in 2021 and quickly achieved the first milestone of an updated SAI header for SRv6. This joint effort introduced many SRv6 uSID features. The community development collaboration gained momentum, with major updates upstreamed by Alibaba Cloud and Cisco in the Nov 2022 releases of SONiC, which is largely deployed in Alibaba Clouds network. The current implementation of FRR and SONiC supports an SRv6 uSID-based fabric with BGP services. However, the collaboration doesns

footprint, and development efforts in SAI, SONiC, and FRR continue. Notably, contributions have been made to enhance the routing capabilities(SONiC Routing WG is initiated by Alibaba Cloud), performance monitoring in the fabric including Path Tracing (Sept 2023 release of SAI). These efforts aim to drive further deployments of SONiC devices with SRv6 uSID worldwide.

In conclusion, the collaboration between Alibaba Cloud and Cisco has led to the development of an innovative SRv6 uSID whitebox router with SONiC. This unified protocol offers a powerful and efficient solution for network optimization and simplification across various domains. The full-stack solution, including SAI, SONiC, and FRR, enables seamless deployment and operation of SRv6 uSID. Alibaba Cloud has successfully deployed this solution in their production network and plans to expand the footprint of SONiC-based devices. The authors of this blog acknowledge and thank all the members of the SAI, SONiC, and FRR communities for their contributions in achieving this significant milestone.