Delivering Network Function Virtualisation with Scalable and Global Infrastructure

Cirrus Core Networks is using Epsilon's facilities and high-performance connectivity to deploy its NFV platform to service mobile network operators

Cirrus Core Networks is using Network Function Virtualisation (NFV) to deliver a NFV-based Infrastructure as a Service (IaaS) for the delivery of next-generation mobile services.

It is enabling Mobile Network Operators (MNOs), Mobile Virtual Network Operators (MVNOs) and other service providers to rapidly deploy next-generation mobile services around the world with a fully managed service model. This drives efficiency and enables even the smallest operators to deploy services and build a user base. It also enables machine-to-machine communications (M2M) and the Internet of Things (IoT) to scale efficiently from a few devices to a few million.

Cirrus Core Networks is working with Epsilon to support global deployments and enable it to deploy its services in secure environments with high performance and high availability connectivity. Together they are enabling MNOs and MVNOs to deploy next-

generation mobile services like Voice over LTE (VoLTE), Voice over WiFi (VoWiFi) and all kinds of M2M applications.

Cirrus Core Networks is hosting its platform in Epsilon's colocation facilities and connecting them to customers using Epsilon's Cloud Link Exchange (CloudLX) platform and the Epsilon Intelligent Networking Exchange (eINX). Epsilon combines global reach with guaranteed Quality of Service (QoS) and Experience (QoE) to support the growth of innovative NFV business models around the world.

THE CHALLENGE

Cirrus Core Networks needed an efficient way to distribute its NFV platform to its mobile customers across the globe. As an innovator in NFV, it needed a secure hosting solution for its software platform as well as the network reach to serve a growing customer base.

NFV has strict demands in terms of availability, network performance and the reliability of hosting infrastructure. Cirrus Core Networks needed a solution that could deliver consistent experience for customers with maximum uptime while also delivering flexibility.

Its platform has been designed to support basic mobile deployments with a few thousand subscribers to delivering services for billions of IoT devices. The scalability and agility of its platform needed to be reflected in its hosting infrastructure as well as its connectivity. It could not compromise on scalability while also demanding exceptional performance.

With such a unique business model and infrastructure requirements, it knew that a traditional service provider would not be able to meet its needs. For its customers to benefit fully from its platform, it needed the support of a service provider that understands the requirements of virtualised solutions and can deliver at the highest possible level.

> NFV is changing global communications and we are excited to support unique service providers like Cirrus Core Networks. It is providing a flexible and scalable virtualised infrastructure that will enable new innovation in mobile. Together we are helping to make NFV and IoT a reality around the world

Jerzy Szlosarek, CEO, Epsilon

THE SOLUTION

Epsilon developed a solution for Cirrus Core Networks that seamlessly delivers hosting, cloud connectivity and intelligent networking. It brings together the cloud, colocation infrastructure and global networking to give Cirrus Core Networks global hubs for distributing its NFV platform.

Epsilon's solution simplifies Cirrus Core Networks approach to infrastructure, giving it the right mix of availability, scalability and performance. It is hosting its NFV platform in Epsilon's London and Miami facilities and are using these locations to serve the Americas and Europe. Epsilon has more than a decade of experience in developing and delivering global hubs on five continents.

Cirrus Core Networks will be also able to connect directly to Amazon Web Services, Google Cloud Platform, Microsoft Azure as well as world-leading internet exchanges using Epsilon's CloudLX cloud connectivity platform. CloudLX offers guaranteed Quality of Service (QoS) and Experience (QoE) end-to-end and in 170+ countries. It delivers on demand Ethernet that enables Cirrus Core Networks to provision cloud connectivity at the click of a button from any browser, anywhere.

Epsilon's eINX intelligent networking solution will support interconnectivity of sites and give Cirrus Core Networks global connectivity with guaranteed performance. Epsilon is supporting the growth of NFV platforms with services that are designed to optimise next-generations and ensure their success.

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> Epsilon understands the strict requirements of an NFV platform and was able to develop a solution that helps us to deliver for our customers today and scale up in the future. Its flexible model matches our vision for mobile infrastructure that is fluid and ready to adapt to new scenarios. With its large interconnect base and global network coverage, we are ready to connect our customers and grow our platform around the world
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> Adam Crane, CEO, Cirrus Core Networks

BENEFITS

Global Reach
Cirrus Core Networks can connect its services in 170+ countries worldwide using both Epsilon's intelligent networks and cloud connectivity platform

End-to-End Performance
Epsilon delivers guaranteed QoS and QoE end-to-end from the application to transport layers

Scalability
Epsilon's solutions are designed to support growth in NFV-based IaaS and are ready to scale rapidly to serve new demand

Self-Service Model
CloudLX offers a self-service model where Cirrus Core Networks can provision and manage its connectivity 24/7 and from anywhere in the world

Direct Cloud Connectivity
Through a single connection with Epsilon, Cirrus Core Networks can connect to world leading cloud service providers and internet exchanges

Secure and Flexible Hosting
Epsilon provides a secure hosting environment with maximum uptime and availability

THE FUTURE

MNOs, MVNOs and M2M service providers are increasingly accepting NFV as an efficient solution for developing their networks. They see the efficiency and the scalability of an OPEX-based model and are ready to grow their networks with virtualised solutions.

As Cirrus Core Networks' platform is adopted around the world, Epsilon is ready to scale its services globally. The roll out of global hubs in London and Miami will be followed by the development of hubs in Hong Kong and Singapore.

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