IP Infusion Insights
August 2016

ipinfusion™

SK Telecom Selects OcNOS

Korea's largest telecommunications company, SK Telecom, will use the OcNOS network operating system as part of their open networking strategy to deliver enterprise and carrier-grade solutions, which will allow them to reduce network costs, increase flexibility, and to deploy new features and services quickly. In addition to integrating OcNOS as the network operating system for their own networks, SK Telecom will provide its networking solution combined with OcNOS to networking customers.

SK Telecom is creating a converged network appliance (i.e. T-CAP), based on open networking architecture combining a high performance server and a data center scale switch together, as part of their strategy to build modular data center solutions for services at the edge to serve VNF and mobile computing needs. With this approach, the carrier can move service intelligence distributed and closer to the edge of the network, enabling improved service scalability with the same or lower power footprint, data protection and end-to-end encryption. SK Telecom and IP Infusion will also collaborate on creating a virtual/physical solution with SK Telecom's server-switch appliance that takes advantage of OcNOS to allow them to have one operating system to manage both physical and virtual requirements.

Read the press release for details>>

OcNOS Release 1.2 Now Available

Release 1.2 of OcNOS™, the industry's first carrier-grade network operating system for open networking is now available for network operators, service providers and enterprises. OcNOS is a full-featured network operating system which includes advanced capabilities, such as extensive switching and routing protocol support, MPLS (Multiprotocol Label Switching) and SDN. Based on the widely-deployed and time-tested ZebOS® network platform, OcNOS offers seamless transition from traditional networks to open networks while providing investment protection.

OcNOS Release 1.2 features the advanced L2/L3 technology network operators need to re-design their data centers, whether it's for a large enterprise or growing small enterprises.

Read the press release for details>>

IP Infusion Announces OcNOS Now Available for Open Network Switches of Edgecore Networks

The new release of OcNOS, the first, full-featured network operating system for telecom, data center and enterprise networking, now supports open network switches from Edgecore Networks, the leading contributor of network designs to the Open Compute Project. With the release of OcNOS 1.2, OcNOS is now available on the Edgecore AS5812-54X, a 10GbE/40GbE switch based on Broadcom StrataXGS Trident II+ switch silicon and on the Edgecore AS7712-32X, a 25GbE/100GbE switch based on Broadcom StrataXGS Tomahawk switch silicon.

"Today's new approaches in open networking, SDN, and NFV are enabling cloud service providers, telecom service providers and enterprises to exploit next-generation data center designs that deliver more services, at lower costs, in faster timeframes," said George Tchaparian, CEO, Edgecore Networks. "Edgecore is pleased to be collaborating with IP Infusion to offer customers the new OcNOS network operating system on Edgecore's open networking switches, as a robust, high function NOS for these new cloud and telecom infrastructures."

Read the press release for details>>

Edge-core®
NETWORKS

The Path to White-box Networking – Part 1:

White-box networking is gaining interest not just from hyper cloud networks but also from a host of other organizations whose business logic demand a dynamic, programmable and scalable network. Let's examine some considerations behind adopting a white-box based architecture.

Bare-metal, white-box and brite-box switches:

Bare-metal switches decouple hardware from software and allow third-party software to be used on the switch instead of a tightly coupled, pre-loaded proprietary software platform the traditional vendor-based ASIC switch offering comes with.

Bare-metal hardware and white-box switches are essentially one and the same. Increased commoditization in networking, especially at scale, is giving organizations the ability to drive down costs by purchasing generic hardware. This hardware is typically based upon x86 processors and chipsets from silicon manufactures. These bare-metal switches may be purchased directly from the original equipment manufacturer (OEM), usually in large quantity for mass deployment.

A white-box switch can be considered a bare-metal switch with a software stack deployed over the top, either by an OEM or the end user. The Open Network Install Environment (ONIE) aims to bring standardization to bare-metal switching to ease the process of loading the software. ONIE provides a framework that allows the administrator to deploy different network operating systems (NOS) in the same way that x86 servers can be loaded with a variety of conventional operating systems.

Read the rest of the first of a two-part blog post here>>

ip infusion