

OIF AND ONF JOIN FORCES TO TEST TRANSPORT SDN

Interoperability Demo Hosted By Global Telecom Carriers

Fremont, Calif. – August 26, 2014 – The [Optical Internetworking Forum \(OIF\)](#) and the [Open Networking Foundation \(ONF\)](#) are working together to test Transport Software Defined Networking (SDN) in several global carrier lab environments. Participating carriers include China Mobile, China Telecom, TELUS and Verizon. Consulting carriers and research institutions participating in the demonstration include KDDI R&D Laboratories, Orange and China Academy of Telecommunications Research.

The testing, which begins this month, leverages the OIF's knowledge of transport networks and worldwide interoperability testing experience for optical equipment, along with ONF's leadership role for the OpenFlow™ protocol and SDN architecture. OpenFlow extensions for optical transport developed in the ONF Optical Transport Working Group are being prototyped in the demo along with Service Request and Topology APIs from application to controller. The framework of the demo is application-based bandwidth-on-demand between data center sites, also referred to as cloud-bursting. This real-world use case will illustrate prototype deployment of Transport SDN technology, common interfaces required, needs for interoperability and any operational challenges.

"As a major carrier, China Mobile has been keeping intense interest in applying the SDN technology to transport network applications, and participated in the OIF/ONF joint test. Through this SDN test, China mobile wishes to further promote the migration of network towards management centralization and resource virtualization, eventually enabling traffic-aware and end-to-end dynamic coordination, as well as realizing multi-layer, multi-domain and multi-technology optimizations." *Li Han, deputy director, China Mobile Research Institute, China Mobile.*

"China Telecom has recognized the potential value of SDN technology and wants better understandings of its deployment and influence to carrier networks. China Telecom is excited to participate in this OIF/ONF joint effort. We believe our collaborative efforts with global partners will help the industry to recognize the benefits and problems of SDN technology better, and also accelerate the development of SDN technology, especially in transport network area." *Li Dou, vice president, Beijing Research Institute, China Telecom*

"TELUS is excited to participate in the OIF demonstration with our international peers to explore opportunities in software control, an exciting new area of SDN that has the potential to develop more dynamic, flexible and customer-friendly networks around the world. As the only the Canadian carrier participating, we look forward to exploring the industry's latest innovations in order to bring Canadians the best

network experience.” *Ibrahim Gedeon, CTO, TELUS*

“Verizon has been involved with SDN from its genesis and, as this technology evolves, we look forward to a better understanding of its deployment and operation. As one of the carriers involved in the trial and a hosting lab, Verizon fully supports the OIF and ONF and their collaborative efforts to advance the industry development in this area to achieve the expected benefits of SDN, such as increased network programmability, application aware networking and simplified service development.” *Chris Emmons, director, Network Systems, Implementation and Planning, Verizon.*

2014 Global Transport SDN Demonstration

SDN, in tandem with Network Functions Virtualization (NFV), will shape the future of telecommunications by improving the network’s ability to dynamically adapt to the needs of applications and services. Participating OIF and ONF member companies will unite to showcase how carriers can deploy SDN technology in their networks. The demonstration testing will take place in carrier labs located in North America, Europe and Asia and will leverage technology work from the forums’ technical committees and the support of OIF and ONF carrier members. The two groups seek to accelerate adoption of OpenFlow and Transport SDN technologies that enable increased network programmability to support a new era of dynamic services.

Regional demonstration read-out events will take place in October of this year and a whitepaper will be available to the public. Additional information can be found at http://www.oiforum.com/public/Global_Transport_SDN_Demo_2014.html.

About the OIF

Launched in 1998, the OIF is the first industry group to unite representatives from data and optical networking disciplines, including many of the world's leading carriers, component manufacturers and system vendors. The OIF promotes the development and deployment of interoperable networking solutions and services through the creation of Implementation Agreements (IAs) for optical, interconnect, network processing, component and networking systems technologies. The OIF actively supports and extends the work of standards bodies and industry forums with the goal of promoting worldwide compatibility of optical internetworking products. Information on the OIF can be found at <http://www.oiforum.com>.

About ONF

Launched in 2011 by Deutsche Telekom, Facebook, Google, Microsoft, Verizon, and Yahoo!, the Open Networking Foundation (ONF) is a growing nonprofit organization with more than 140 members whose mission is to accelerate the adoption of open SDN. ONF promotes open SDN and OpenFlow technologies and standards while fostering a vibrant market of products, services, applications, customers, and users. For further details visit the ONF website at: <http://www.opennetworking.org>.

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