



ADARA and CALIENT Advance SDN Transport Packet Optical Integration at Open Networking Summit 2016

Production-ready solution delivers full layer 0-7 performance-based SDN-TPOI across telco wide area networks comprising multiple vendors and network domains, and legacy networks

San Jose, Calif. — March 10, 2016 — ADARA Networks, a global software company in the cloud computing and SDN market, and CALIENT Technologies, the global leader in pure photonic Optical Circuit Switching (OCS), today announced multiple demonstrations and awards of their converged solution at Open Networking Summit 2016, to be held at the Santa Clara Convention Center in Santa Clara, Calif., March 14-17, 2016.

ADARA, CALIENT and ON.Lab, which leads the open source SDN ONOS (Open Network Operating System) initiative, will present multiple live demonstrations of a multi-vendor, multi-domain SDN-TPOI (Transport Packet Optical Integration) solution. The demonstrations will take place in Booth 17 and also at the ONS SDN Solutions Showcase. Network operators C-Spire, Centeris and China Unicom support the use case of the demonstrations.

Additionally, on March 17, ADARA and CALIENT technologists have been selected to present at the ONS Speaking Sessions, and will discuss advances in SDN-TPOI, which delivers flexible, predictable and cost-effective telecom network deployments that provide increased security and performance.

CALIENT ADARA SDN-TPOI SOLUTION

Launched in January 2016, the CALIENT ADARA SDN-TPOI solution combines SDN with advanced packet and optical networking technologies to build a real-time cloud computing and networking solution combining a low-latency, high-speed optical overlay network with existing layer 3 routed/IP-MPLS networks.

SDN-TPOI allows real-time data flows to bypass the traditional packet-based layer 2/3 network for very low latency transport. Combining the CALIENT S-Series optical circuit switches and ADARA Axis switches deployed on the edges of wide area networks under the control of ADARA's CloudFabric Cloud Management Platform and SKY Controller, the CALIENT ADARA SDN-TPOI solution delivers flexible, predictable and cost-effective SDN deployments that provide increased security and performance.

The production-ready solution can be deployed across real-world telco wide area networks consisting of multiple vendors and network domains (metro, regional, long haul) and legacy networks. Layer 2/3 driving layer 0/1 optimization results in unparalleled multi-layer agility for service providers via intelligent automated service creation, provisioning and configuration. Customer experience is improved exponentially, as customers can self-provision services through portals and take advantage of greater optical bandwidth in the data center, wide area network and optical fiber to customer premises. Tier 1 carriers have estimated 37% to 50% savings in core router network CAPEX and even higher OPEX savings by allowing IP in SDN-TPOI to drive the optimization of optical transport networks.

For more information on the CALIENT ADARA SDN-TPOI solution and to meet CALIENT and ADARA executives and engineers, please visit ONS Booth #17.

LIVE PRODUCT DEMONSTRATIONS

SDN & NFV Solutions Showcase (S3) @ ONS2016: The ADARA, CALIENT and ONOS solution will be hosted in S3, a dedicated space on the ONS expo floor featuring select demonstrations of collaborative multi-organization solutions at the cutting edge of open source SDN / NFV. The S3 demonstrations showcase real advancement of SDN / NFV for a particular use case in a specific industry vertical, such as ADARA's Path Computation App for Event and Performance-based Networking via ONOS Controller with CALIENT S-Series optical circuit switches.

Participants: ADARA, CALIENT and ON.Lab. C-Spire, Centeris and China Unicom support the use case of the demonstration.

PRESENTATION

Title: Multi-Layer Performance Based Path Computation Engine Enhancements to ONOS Controller for SD-WAN Packet Optical

Date & Time:

Thursday, March 17

2:25pm - 2:45pm

Grand Ballroom E

Speakers:

David Altstaetter, Senior Director of Product Management, CALIENT

Raghu Gangi, Principal Engineer, ADARA

Description: Cloud computing increasingly needs to incorporate performance. Developers currently rely on legacy protocols for topology discovery and forwarding. Such protocols are agnostic to performance. The ONOS Controller, with the ADARA Controller and Path Compute Engine (PCE) leverage the CALIENT OCS to solve these industry issues via implementation of performance-based, automated multi-layer path computation and SDN-Transport Packet

Optical Integration (SDN-TPOI). ADARA's PCE is based on performance and dynamic network state, as opposed to nonperformance-based static parameters and statistics. ADARA, CALIENT and ONOS enable dynamic multi-layer performance as methodology for data center interconnection, performance-based service choreography and infrastructure orchestration, service reachability, workload placement, load balancing, infrastructure configuration, reliability and multi-layer network virtualization with SDN-TPOI. This represents an industry first and a significant advance in state-of-the-art SDN.

About ADARA Networks

ADARA Networks is an industry leading developer of production-ready and vendor-neutral SDN, virtual computing and networking solutions. ADARA SDN is a complete end-to-end solution including NFV, WAN optimization, network monitoring, management and configuration, security, services/infrastructure choreography and network orchestration. By enabling more flexible, secure and high performing IT infrastructure environments, ADARA SDN empowers enterprise customers to develop new revenue streams, increase bottom line and net profits and return on investment (ROI). For more information, please visit www.adaranetworks.com.

About CALIENT Technologies, Inc.

CALIENT Technologies is the global leader in pure photonic Optical Circuit Switching with systems that enable dynamic optical layer optimization in next generation data centers and software defined networks. CALIENT's 3D MEMS switches allow data center operators to dramatically improve utilization rates of expensive compute resources, which typically account for 75 to 90% of investment. Data center operators and metro service providers also deploy CALIENT switches at the edges of their networks to facilitate multi-layer network optimization for maximum efficiency and flexibility. In this application the optical circuit switches support network-wide implementation of SDN regardless of the vendor or vintage of the optical transport system. The company designs and manufactures its systems using the state of art MEMS fabrication equipment at its corporate headquarters in Santa Barbara California.

For more information, visit CALIENT at <http://www.calient.net>, on [Twitter](#) and [LinkedIn](#), or contact us at: <mailto:marketing@calient.net>.

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