ALTEN CALSOFT LABS
AN ALTEN GROUP COMPANY

CORD Gigabit Passive Optical Network Automation

THE CLIENT

The client is a global leader in network communications equipment and technology solutions.

BUSINESS NEED

The customer wanted ALTEN Calsoft Labs to combine NFV, SDN, and the elasticity of commodity clouds to bring data center economics and cloud agility to the Telco Central Office.

TECHNOLOGY USED

- **OS:** LINUX
- **Languages:** Python, C

SOLUTION DELIVERED

ALTEN Calsoft Labs' testing professionals did the following to ensure customer satisfaction.

- Development of end to end test suite from scratch for CORD framework
- Built extensive understanding of NOS (Service provider SDN) and XOS (cord controller) for integration with CORD-tester
- Developed automation scripts using Python and C (used for DPDK pktgen integration)
- Testing of all the modules involved for CORD tester
- Health-testing of an existing CORD POD (including non-service-impacting and possibly service-impacting tests)
- Developed framework using docker containers consisting ONOS, vSG, vOLT, vRouter, etc.
- Tested different networking protocols (AAA, Routing , DHCP, Multicasting, Flows, etc.)
- Carried out end-to-end functional testing, acceptance testing and regression testing

BUSINESS BENEFITS

- Designed and Developed the complex CORD framework comprising of various open source modules and white box switches from scratch
- End-to-end testing services provided improved test coverage, faster TTM

ABOUT ALTEN CALSOFT LABS

ALTEN Calsoft Labs is a next gen digital transformation, enterprise IT and product engineering services provider. The company enables clients innovate, integrate, and transform their business by leveraging disruptive technologies like mobility, big data, analytics, cloud, IoT and software-defined networking (SDN/NFV). ALTEN Calsoft Labs provides concept to market offerings for industry verticals like education, healthcare, networking & telecom, hi- tech, ISV and retail. Headquartered in Bangalore, India, the company has offices in US, Europe and Singapore. ALTEN Calsoft Labs is a part of ALTEN group, a leader in technology consulting and engineering services.

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