



SDN CONTROLLER APPLICATIONS & NETWORK INTEGRATION

The Client offers software defined networking and packet-optical transport platforms that drive transformation of networks globally.



OVERVIEW

ALLEN Calsoft Labs developed SDN controller applications and device adapters for integration of multiple third party routing/switching products with the controller. We were also instrumental in enhancing the features of SDN platform capable of managing real-world carrier networks comprising Ethernet,SONET/SDH,OTN and DWDM technologies.



BUSINESS NEED

The client wanted to develop controls and applications for their software-defined network solution spanning across multiple vendor devices supporting OpenFlow and non OpenFlow protocol in a quick time.



TECHNOLOGY USED

ALLEN Calsoft Labs' extensive experience in SDN Application development, SDN Controller Orchestration, Device Adapter Development and Testing for various scenarios was leveraged for providing the solution.

- OS: Linux and Windows
- Scripting Language: Python
- Management Protocols: SNMP, CLI, TL1, OpenFlow
- Team size: 35



BUSINESS BENEFITS

ALLEN Calsoft Labs helped the client -

- Provide multi-vendor control and visibility to network operators
- Reduced CAPEX cost
- Greater operational efficiency, lower costs, and better customer experience.
- Software driven infrastructure



SOLUTION DELIVERED

ALLEN Calsoft Labs had the experience of designing and implementing large scale enterprise-grade management systems supporting heterogeneous devices for various clients. Leveraging this knowhow, ALLEN Calsoft Labs' engineers developed various device controllers and applications for client's software-defined network platform.

Some of the key features developed included device management support (discovery, configuration and monitoring) and SDN applications. SDN applications targeted network service provider centric use cases such as Cross-connect (multiplexing and demultiplexing) support and Service Creation Apps (like P2P and multipoint (MP) services).

ALLEN Calsoft Labs' contributions to the project included:

- Development of new "device adapters" for multiple 3rd party routing/switching products
- SDN application maintenance and new application development over client's controller platform viz., Network Provisioning, Topology management, Load Balancing, QoS management, etc.
- Test planning and scenario-based testing in a multi-vendor environment, Bug fixing and Release management
- Test automation development

ABOUT ALLEN CALSOFT LABS

ALLEN 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). ALLEN 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. ALLEN Calsoft Labs is a part of ALLEN group, a leader in technology consulting and engineering services.

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