

# OpenLab: Juniper's Global Innovation Center

Accelerate Network Transformation and Services



## Overview

The world's networking landscape is constantly evolving, making it nearly impossible for service providers and enterprises to keep up with the latest technology.

OpenLab—a unique platform to spark and accelerate innovation from Juniper Networks—is the answer.

OpenLab provides an environment and set of resources where customers representing telecommunications, education, government, financial services, and virtually every other vertical market can explore new technologies, all in the spirit of network transformation. By examining SDN/network automation solutions such Network Functions Virtualization (NFV), software-defined WAN (SD-WAN), and others, OpenLab offers a platform for developing and delivering new network-integrated functionality that serves the greater need.

It's no surprise that Juniper Networks pioneered this worldwide "think tank." Since its founding in 1996, Juniper has set the standard for service provider networks, delivering innovative products and solutions to industry leaders worldwide. Today, those solutions include Juniper Networks® Contrail Networking an open cloud network automation platform that uses SDN technology to create highly scalable virtual networks. Contrail has become the de facto standard in open controllers, voted the world's most popular virtualization platform three years running.

## Locations and Engagements

The landmark OpenLab environment, designed specifically to spark ideas and innovation, has been so well received by customers that it has expanded beyond its original New Jersey roots to include six additional locations in London, Amsterdam, Singapore, Tokyo, Sydney, and Silicon Valley. Each site offers options designed to accommodate varied types of engagements across different entities. OpenLab provides access to world-class resources and leading-edge tools and amenities—precisely what one would expect from Juniper.

OpenLab engagements can include both single and multi-party sessions with the goal of facilitating technology and platform learning and accelerating solution development. OpenLab's educational programs – through hands-on technology sessions and SDN/network automation "hackathons" – are aimed at enabling skills transformation across emerging technologies and platforms such as SDN and virtualization to allow our customers to seize the opportunity with crucial network automation expertise.

## OpenLab Resources

Juniper's OpenLab resources include:

- Seven facilities around the world, conveniently located near global telecom "centers of gravity"
- Access to Juniper's virtual and physical networking products (routing, switching, and security) as well as Juniper's SDN and automation platforms – Contrail, Contrail Service Orchestration (CSO), and NorthStar



*"OpenLab allows us to open new doors and look into the future...these resources are what allow Atrion to stand above the rest."*

*- Donna Ostrom,  
Network Engineer,  
Atrion Communications*

- Access to additional complementary resources including servers to support varied virtual machines for application development/hosting, storage systems and traffic generation tools
- Technology consultation to assist in utilizing the platforms/tools to build and test new solutions

## Programs

### Educational Sessions

OpenLab directly offers hands-on educational programs at each of its global locations. Programs are focused on emerging SDN and network automation technologies or platforms such that 3rd parties can take aim at bolstering expertise in the midst of industry technology shifts to new SDN and virtual networking architectures. Introductory technology sessions are designed to highlight market drivers, technology/platforms features and functionality, use cases, and demonstrations or exercises. University "Throwdowns" (SDN/Network Automation Workshops and Competitions) represent unique week-long educational experiences that tap into student networking and programming expertise to tackle a real-world SDN application challenge. Students are introduced to SDN technology and market insights and compete as teams to win prizes.



### Solution Incubation Program

The OpenLab Solutions Incubation Program focuses on assisting qualified independent software vendors (ISVs) and start-ups in the development of new interoperable SDN and network automation solutions. Through this four-month program, OpenLab provides software-focused companies with resources to build, test, and promote solutions that leverage Juniper's SDN and programmable networking assets.

### Other Programs

OpenLab also serves as a resource available to participants in Juniper's Technology Alliance Partner (TAP) Program and in the Juniper Academic Alliance (JNA) Program. Respective participants in these programs may need access to a defined set of lab assets in order to build or test application interoperability with the Juniper platforms or to complement training offerings or conduct mutually agreed upon research work.

*"A four-day immersion at OpenLab helped XON better understand the benefits of network virtualization, including key benefits of SDN, Contrail, and NorthStar. My team and I felt the four days invested at OpenLab gave us at least a three month head start on several network deployments in Africa."*

- Thomas Lee,  
XONCloud Services GM.6

### Programs Technology Training

- Technology/Platform Training – Automation, Contrail, Others
- University Automation Throwdowns
- Third Party Solutions Incubation

### Globally Accessible Software-Centric Lab

- Application Development
- Platform 'Sandboxes' for Exploratory and Educational Purposes
- Solution Demonstrations

### World-Class Facilities

- Customer Briefing/Meeting Rooms
- Collaboration Rooms
- Visitor Co-working Space

OpenLab





*“With its lab assets and technical consulting expertise, OpenLab served as a valuable resource to help us quickly build a customer self-service portal for our service provider SDN Cloud CPE offerings.”*

**- Andrew Hill,**  
Chief Operating Officer, OneConfig

## About Juniper Networks

Juniper Networks challenges the status quo with products, solutions and services that transform the economics of networking. Our team co-innovates with customers and partners to deliver automated, scalable and secure networks with agility, performance and value. Additional information can be found at [Juniper Networks](#) or connect with Juniper on [Twitter](#) and [Facebook](#).

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