



Enterprise Networking

Building networks for the enterprise (e.g. campuses or satellite offices) is difficult due to the complex nature of enterprise environments.

A number of unique challenges make building enterprise networks different from building networks for datacentre or telco environments, such as:

- Complicated building layouts with limited cabling resources
- Large number and variety of network devices
- Providing good and consistent user experience everywhere
- Security and visibility over client devices

Faucet for Enterprise SDN

Faucet is a lightweight, open source SDN controller, developed from the ground up for enterprise networks. Faucet moves the control plane implementation of network features from network hardware to general-purpose compute infrastructure.

Faucet has the following key features to address enterprise network problems:

- Allows operators to build flexible and resilient topologies
- Centrally manages many network devices
- Provides a central view of the network for monitoring
- Allows operators to define and deploy custom network policy

Faucet is a multi-vendor OpenFlow SDN controller for enterprises that enables operators to run their networks in the same way they do server clusters

<https://faucet.nz>

Faucet can provide whitebox vendors a community of users and a test suite to validate OpenFlow hardware implementations

SDN for Low-Cost Devices

Faucet relies on vendor hardware to succeed as enterprise networks require many physical network ports.

For vendors looking to get into the enterprise network space, faucet offers a deployable solution, a community of users and a test suite to validate OpenFlow hardware implementations.

The faucet project has existed since 2015, and in that time we have seen five hardware vendors implement support for faucet on low-cost enterprise switches, mostly from scratch. Vendors have been able to do this and test their implementation works due to the comprehensive integration test suite faucet provides.

Faucet Architecture

