GlobalNOC Global Research Network Operations Center

Indiana University
OpenFlow Campus Trials
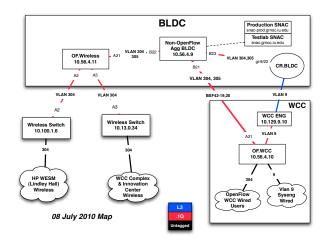
Focus Areas

The Indiana University OpenFlow Campus Trials focuses on three areas:

- Operations
- Inter-campus networking
- Distributed Monitoring

Operations

We are leveraging the experience at the Indiana University GlobalNOC in operating campus, regional, national and international networks to integrate OpenFlow enabled equipment into network operations. We are deploying test and production OpenFlow switches integrated into the software tools used by the GlobalNOC
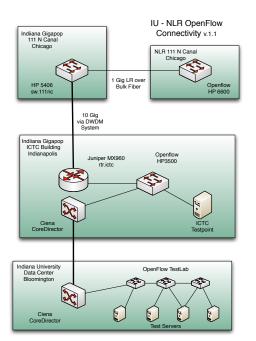
Connectivity

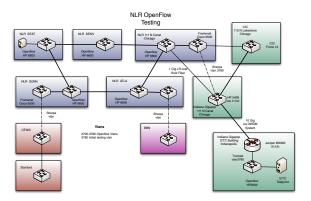We have deployed equipment in 2 geographically separated campuses and connected to the NLR OpenFlow backbone network.

Bloomington Network

GEC8 Demo

Our demonstration shows how multiple GENi projects can be integrated together. We showcase the integration of components from:

- OpenFlow – Bakbone and Campuses
- GMOC - visualization
- LAMP - PerfSonar throughput test
- Planetlab – Test endpoints
- GpENI – Test endpoints

We have constructed OpenFlow connectivity between the campus and backbone networks and visualize the topology and traffic with the IU WorldView system.