## **OpenFlow Demo**

## IEEE 802.1ag Ethernet OAM SCInet Research Sandbox

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This demo shows how OpenFlow can be used by end-users to easily add new network protocols to OpenFlow switches. SARA implemented the IEEE 802.1ag standard, which is a protocol for Ethernet OAM (Operations, Administration, and Maintenance). The code was added to the NOX OpenFlow controller so that every OpenFlow switch can now support 802.1ag. The detection of link failures with this setup is demonstrated in a multi-domain Ethernet network with sites

in Amsterdam, Chicago, Ottawa and Seattle. The 802.1ag implementation is

available as open source (BSD license) at http://nrq.sara.nl/dot1aq-utils.



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