AL2S: What's New / What's Coming

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AL2S: What Is It?

- "**A**dvanced **L**ayer **2 S**ervice" -- nation-wide OpenFlow 1.0 substrate

- OESS: OpenFlow-switched virtual circuit service

    - point-to-point VLANs

    - multipoint VLANs ("static MAC routing", flooding)

- Network Virtualization Service

    - OpenFlow 1.0 interface

    - Sliced on VLAN tag (managed tag mode for single-tag apps)

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AL2S Topology: New Sites
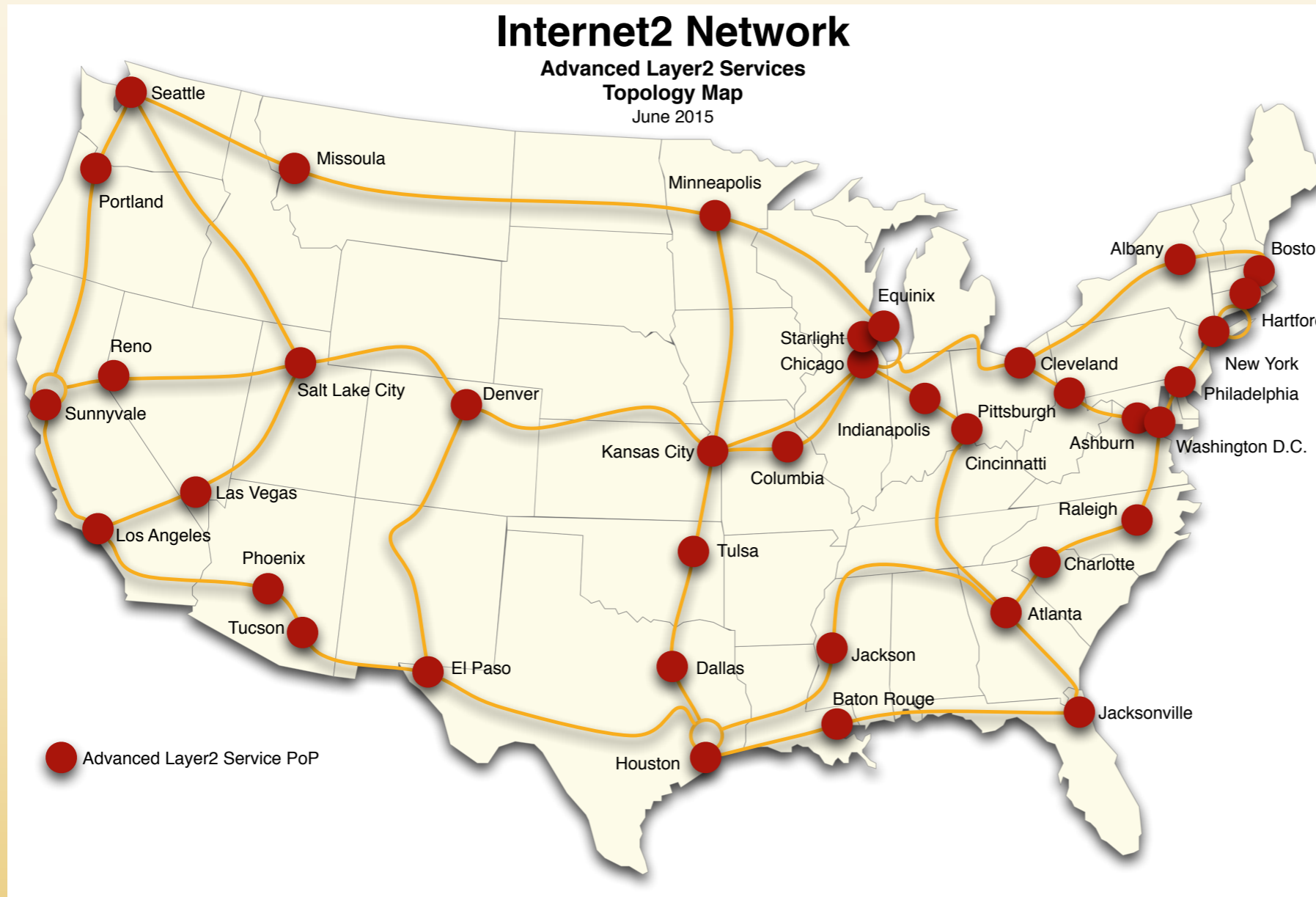
AL2S Software Updates

- OESS 1.1.6:

  - "Layer 2 Trace"

  - various features targeted at admins, operations, efficiency/scalability

- FlowSpace Firewall 1.0.5

  - various small features/bug fixes to support slices we've been working with on lab testing/deployment

- GENI AL2S AM with Speaks For support (Thanks to Aaron Helsinger!)

ONOS + SDN-IP

How Do I Get My Slice of AL2S?

- Start by contacting the Internet2 NOC <noc@net.internet2.edu>

- NOC will send you a questionnaire:

  - OpenFlow matches/actions, how many flow table entries, number of expected packet in/out, etc.

  - NOC will match your answers with capabilities of AL2S hardware

  - Lab testing/validation in "mini-AL2S" environment

  - Deployment onto live network

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