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SNL / CA Site Update



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Only challenge has been inability to install cellular-capable equipment in our data center for out-of-band connectivity.

Other Initiatives of Note

Finally upgraded our ESnet connection to 100gbps.

Nearly finished with our core upgrade

- Replacing a bunch of 6500s with Arista 7500s
- Replaced old netscreens with SRX
- Heavy use of VRFs → fewer physical boxes, more flexibility

Successfully tested / preparing to deploy Arista 100gbps MACsec-over-VXLAN for unclassified intersite communications between Livermore and Albuquerque.

Successfully tested / preparing to deploy Arista's new 720XP edge switches

- PoE
- 802.1x/mac-auth-bypass

Upcoming: redundant cores

New Datacenter Under Construction!

We're going to move out of our 50+ year-old basement data center...

- Organic growth mixed in with office space
- No dedicated power
- No structured cabling
- Legacy 3-tier network design
- A data center switch is just another campus switch

New green-field data center network

- Independent power and cooling
- Structured cabling
- Redesigned outside plant fiber
- Spine-leaf data center network
- Layer-3 fabric – DCI with SNL/NM and other partners

(Photo February 12, 2020)

