

GEC 9

November 2, 2010

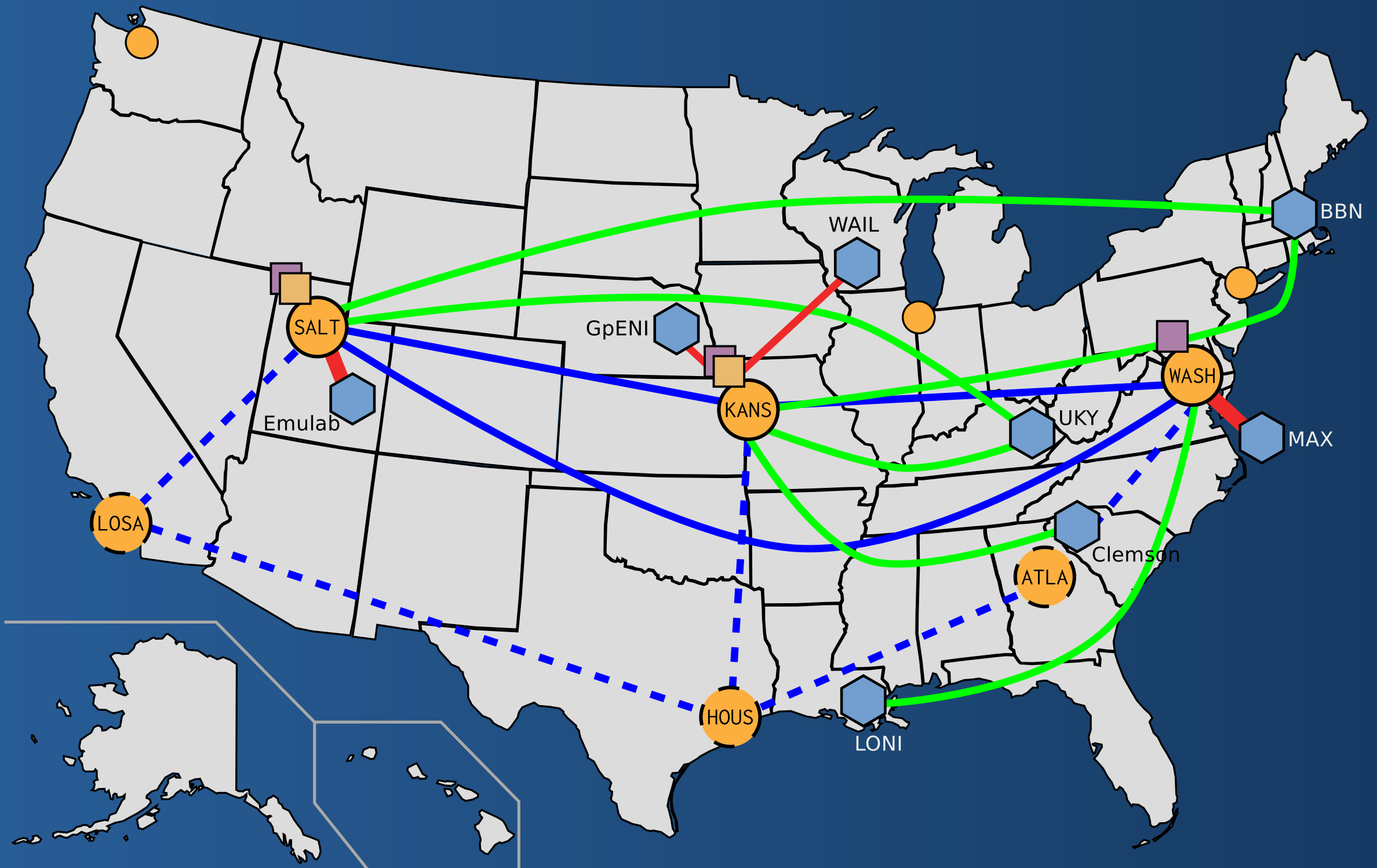
Backbone Status



Backbone Connectivity



- Moved from dedicated 10 Gbps to 1 Gbps over production IP infrastructure
 - Still layer 2
 - We can get pretty close to a full Gbps
- ION connections in each POP (1 Gbps each)
 - Dynamic layer-2 “circuit” service from Internet2
 - In some cases, gets us right onto campuses
 - Several circuits set up by hand for GECg demos
 - Circuits are limited-duration



- Internet2 POP (dashed: planned soon)
- I2 layer-2 1Gbps link
- Future expansion
- Internet2 ION link
- Other links (10 Gbps)
- Other links (1 Gbps)
- SPP node
- ShadowNet node
- Other GENI projects

Future Plans



- Hardware in-hand for 3 more sites
 - Likely to be Houston, Atlanta, Los Angeles
- Support for automated ION circuit creation
- Moving back to 10 Gbps across backbone
 - One interface per POP, not one per-out degree
 - Still shared with production IP infrastructure
- Just announced: Internet2 will provision new waves for use by the research community