

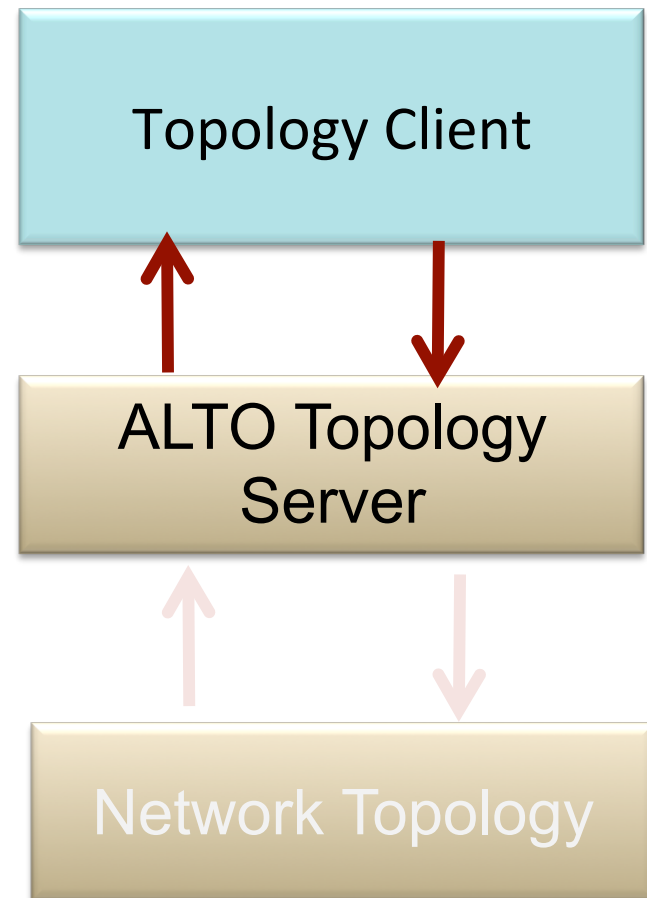
Topology Service in ALTO

IETF 87

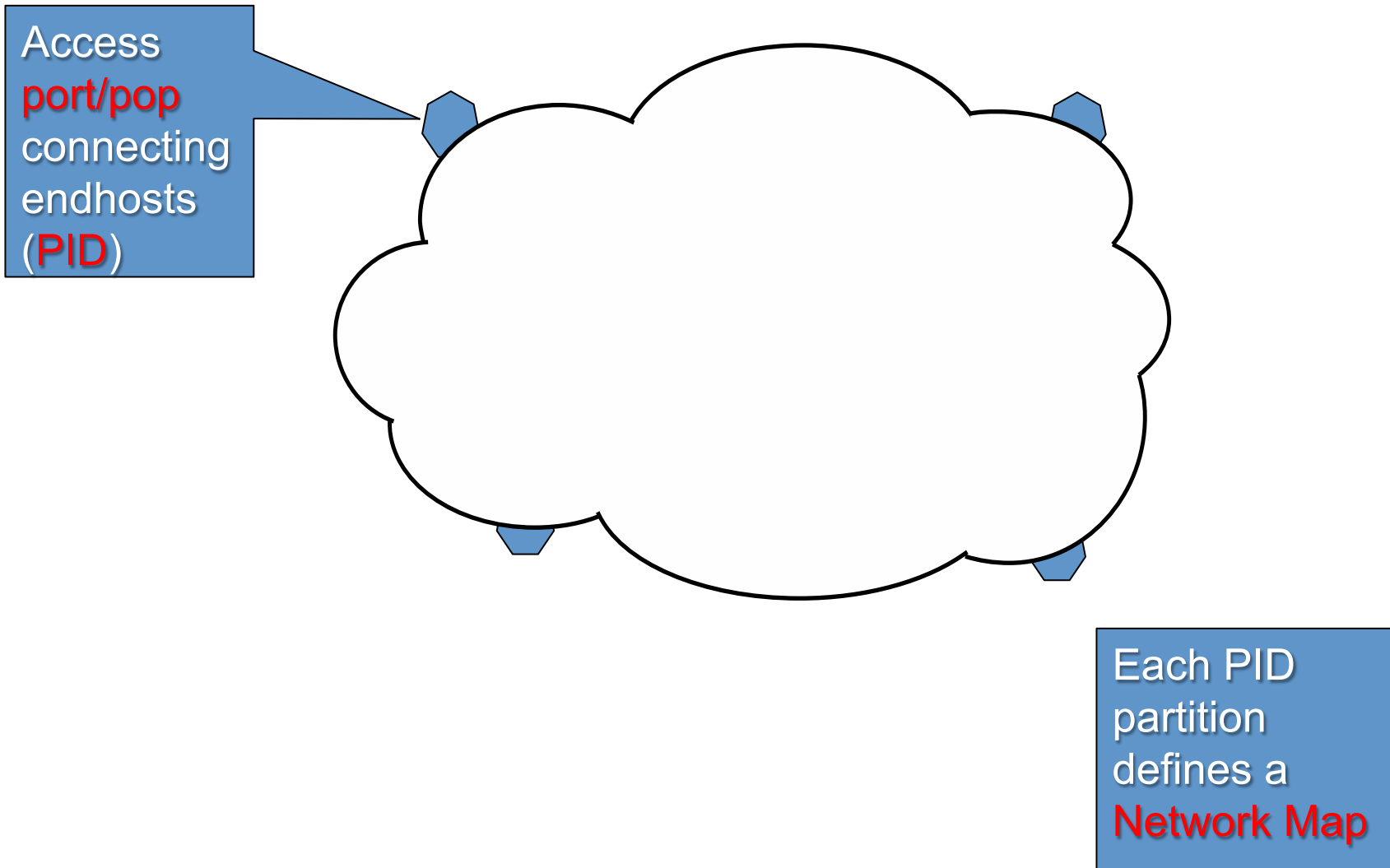
July. 31, 2013

Why Topology Service?

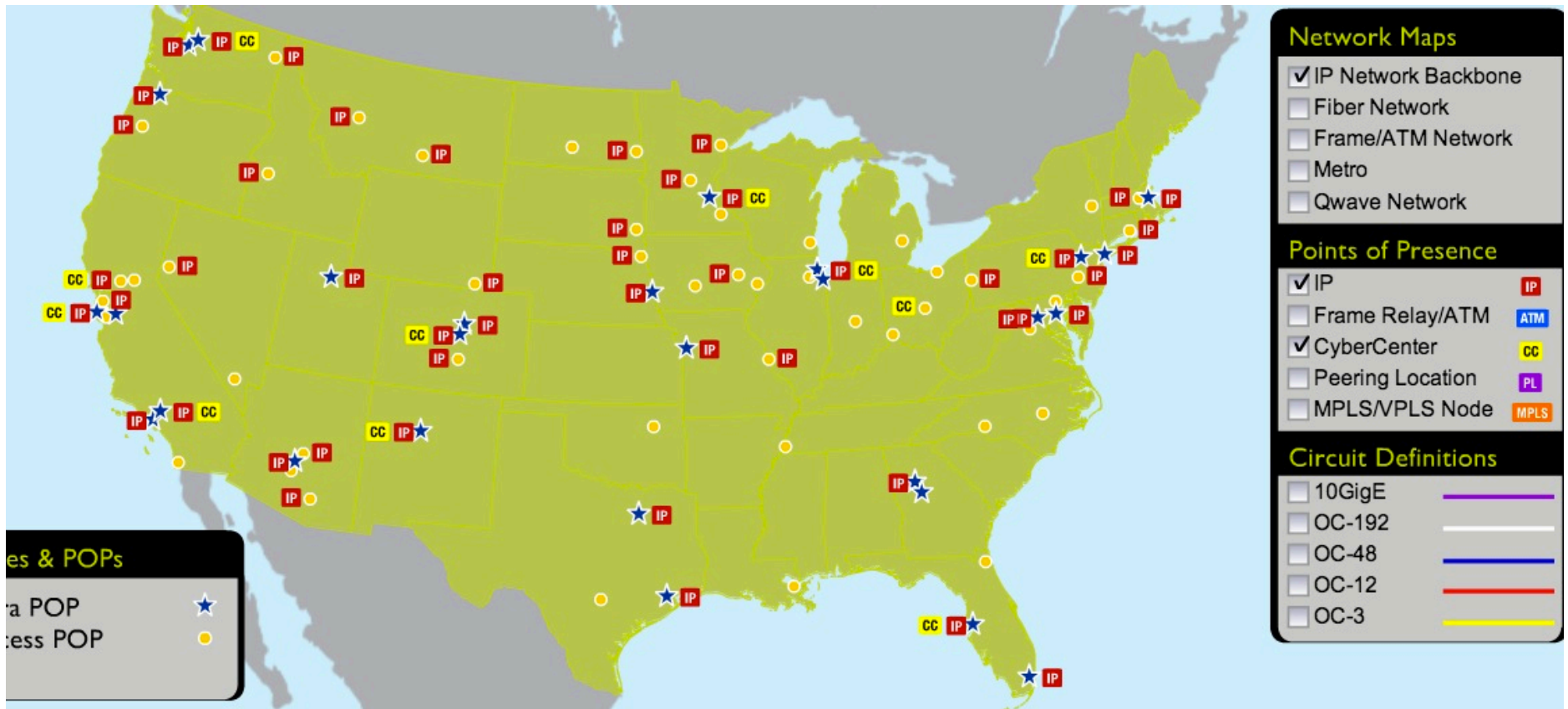
- Same trust domain
 - Provide abstract topology for tools (e.g., network management, traffic engineering) to achieve **modular**, **generic**, **safer programming** and **monitoring**
- Two trust domains
 - Provide abstract topology to applications/customers for information and customer policies



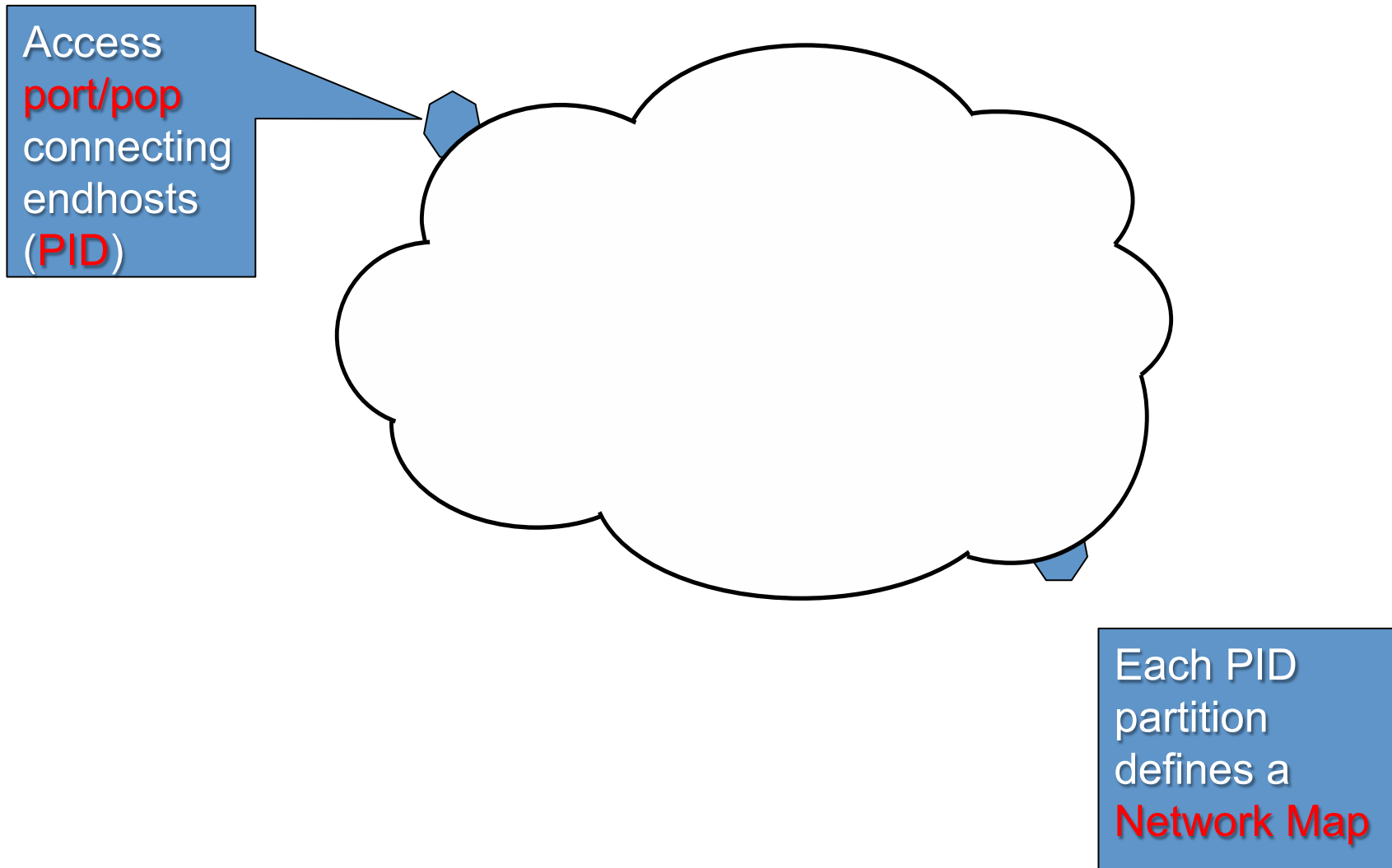
Current ALTO Topology: “Single Switch”



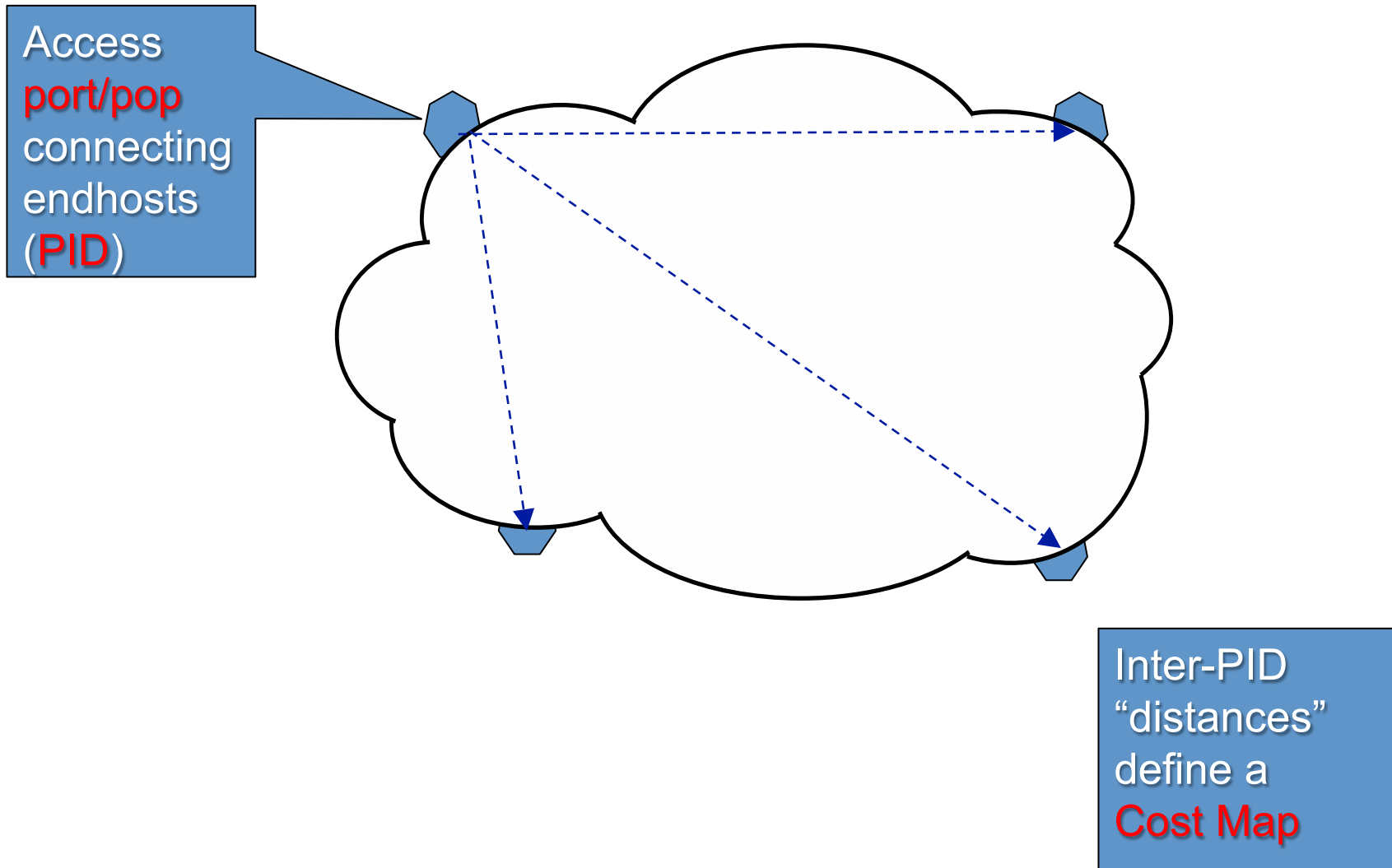
Network Map



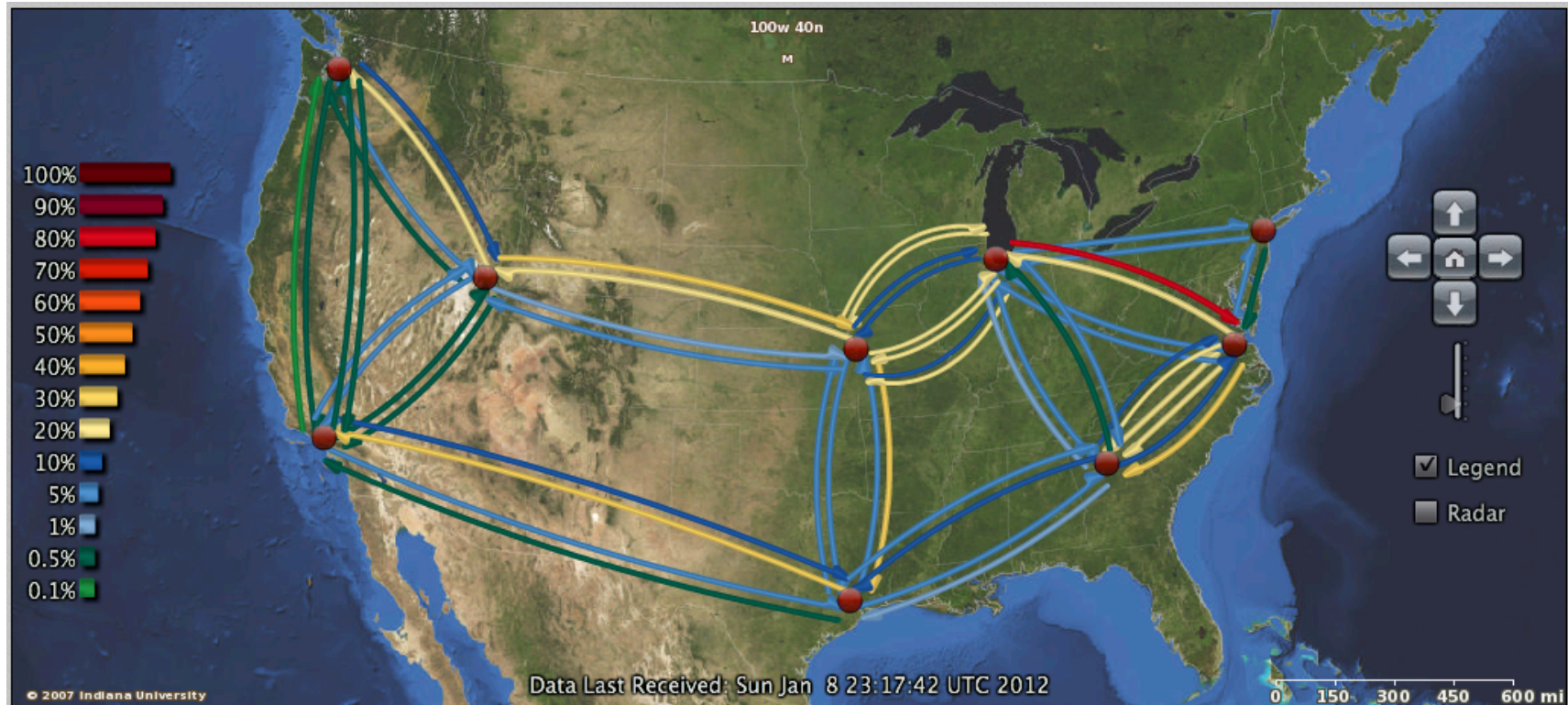
Current ALTO Topology: “Single Switch”



Current ALTO Topology: “Single Switch”

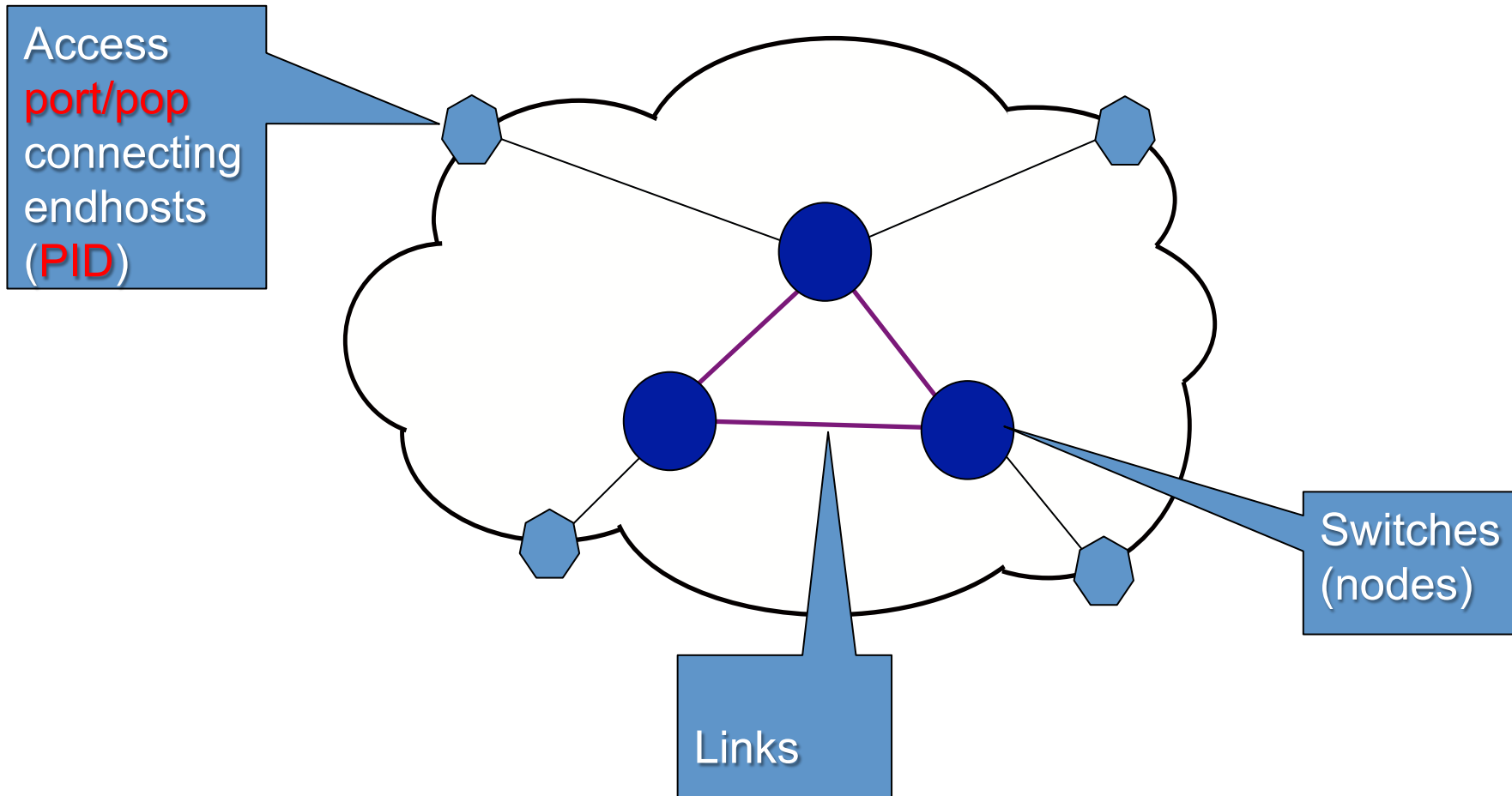


Using ALTO for Traffic Engineering/SDN



- http://atlas.grnoc.iu.edu/atlas.cgi?map_name=Internet2%20IP%20Layer

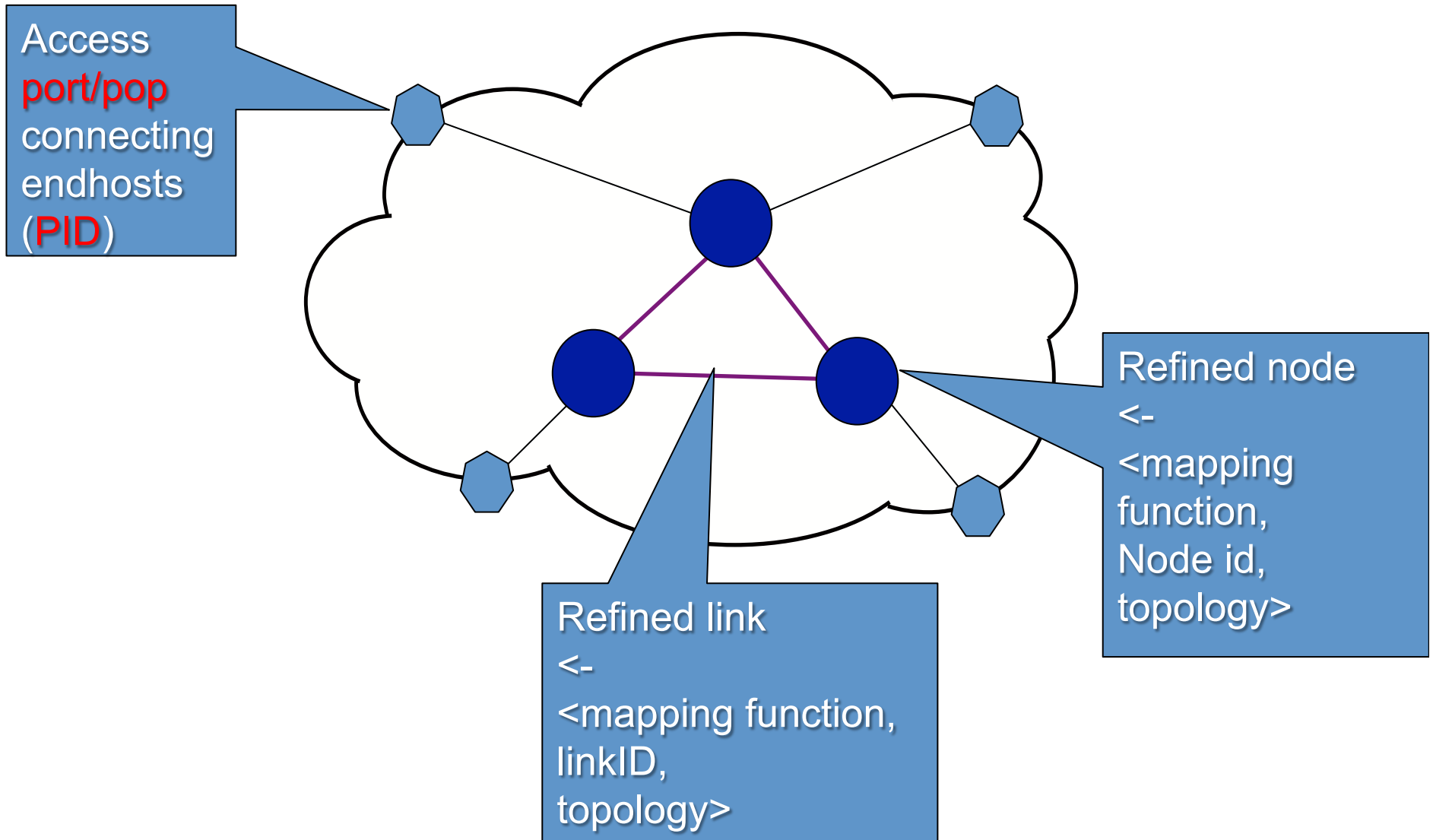
ALTO Topology: Multiple Switches



Underlying Topology



ALTO Topology: Recursive Views



Status

- More details on drafts and email messages
- Multiple participants with interests
 - Greg Bernstein
 - Young Lee
 - Andi Voellmy
 - Qin Wu
 - Richard Yang