



OMIS WG

System Engineering Report

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GENI working group wiki



Goal

By the end of this WG meeting we should have rough consensus on:

- Operational data sharing (OM)
- Operational security (S)
- Integration strawman (I)

...especially for Spiral 1

We'll also discuss WG deliverables

volunteers appreciated



Outline

- Introduction
- You are here
- Spiral 1 projects relevant to OMIS
- My plans
- Technical Discussion
- Conclusion



Who am I?

- Michael A. Patton
 - Call me MAP or Mike
- Background
 - Over 20 years building and operating many diverse networks (Edu, Mil, Com) from very small to global
 - Worked at MIT, BBN, now a consultant
 - Part time GENI OMIS SE since GEC#1



My role in this working group

- Coordinate integration of project into Clusters
 - Already talking with I2, NLR, Regionals
- Collect & frame issues
 - Several documents in the works
- Collect input from group & revise
- Test for & document consensus (or lack of it)
- Take & distribute notes
- Maintain wiki

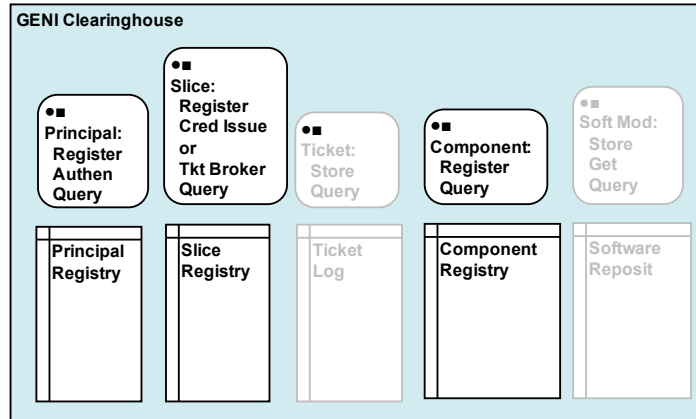


Your role in this working group

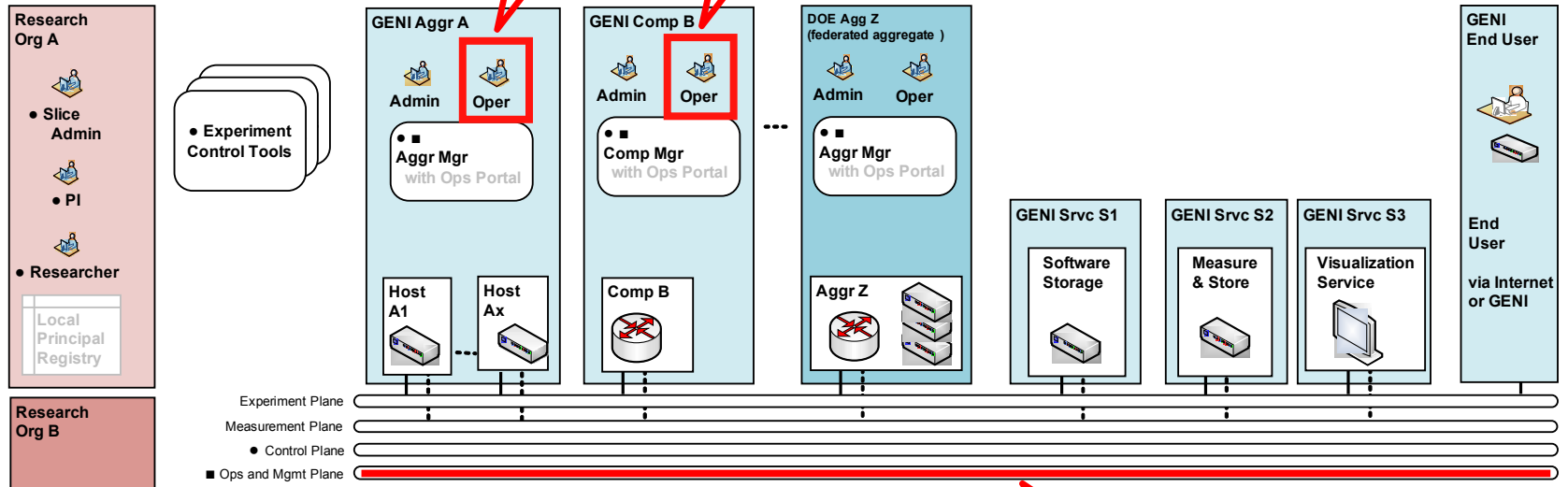
- What do you need for integration?
 - Simple (quick) summary for project wiki page
 - Keep us updated if things change
- Operational and Security lessons
 - What has and has not worked
 - “Requirements”
 - Review and comment on use cases on wiki
- Contribute to WG deliverables
 - Review drafts
 - contribute text



You are here.



The OMIS working group focuses on Operations, Management, Integration and Security





Relevant Projects

- All projects have relevance, in part
 - Everything needs to be managed and secure
- Special relevance:
 - 1604 GENI Meta Operations
 - 1632 Security Architecture
 - 1610 GENI at 4yr colleges

Are these the right projects? Are there others?



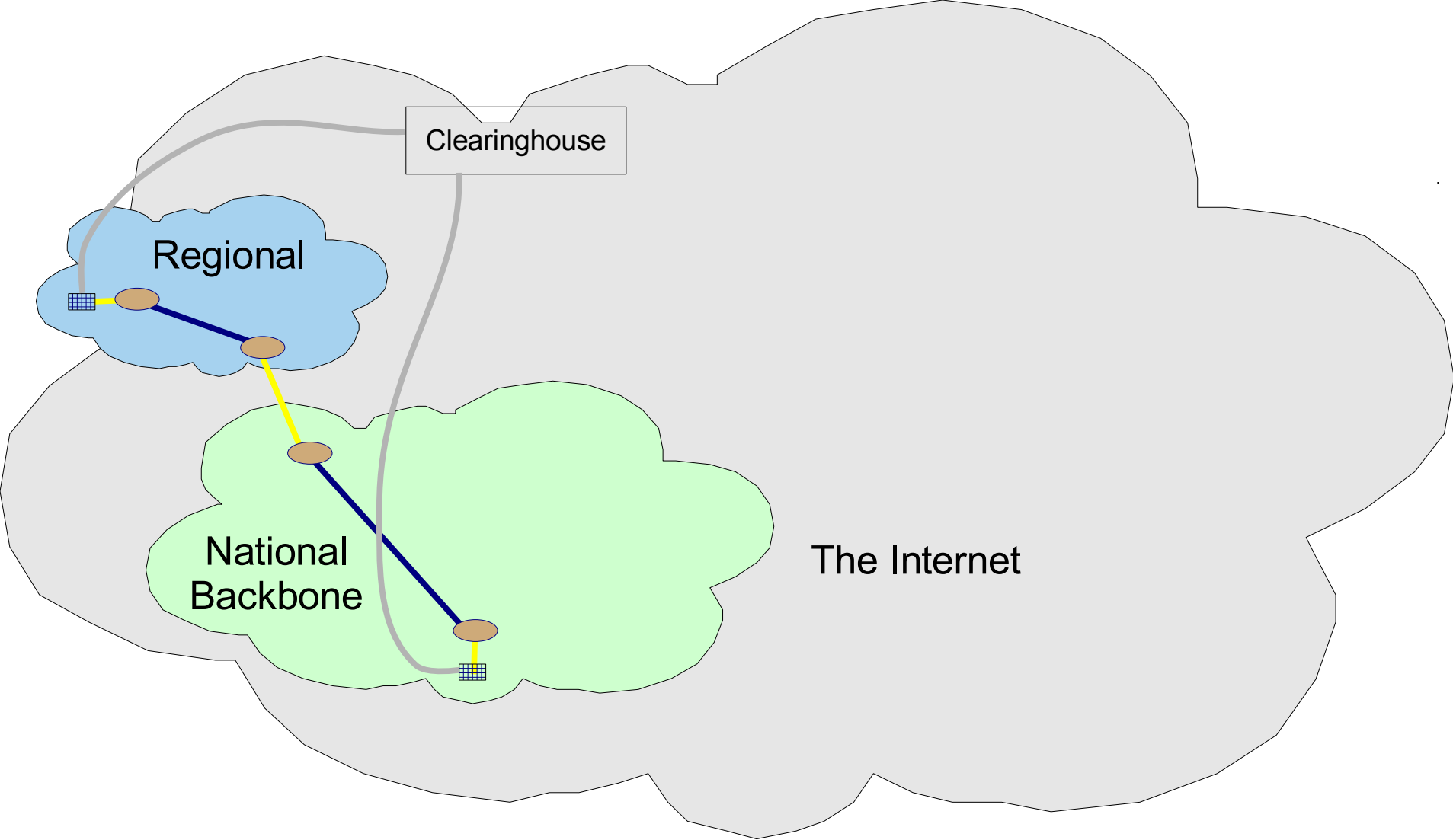
Plans

- OMIS deliverables web page
<http://www.geni.net/wg/omis-wg.html>
- Operations Framework
 - Near term Jan 2009, Long Term Sep 2009
- Tech survey
 - Data collection through December
 - Collected document Jan 2009
- Security Policy Recommendations – ongoing
- ConOps
 - First draft Feb 2009 – Revision Sep 2009
- Management Interface Requirements Feb 2009








Technical Discussion

- How do Spiral 1 projects connect at Layer 2?
 - Needed to support non-IP experiments
- Following diagrams explore ideas
 - Explanatory text is in the works
 - This is a “work in progress”
 - Probably errors, omissions, and oversights
 - Still fairly abstract
 - More details should appear (when we learn them)
 - Multiple options for some parts
 - While based on real projects, this is fiction
 - Think you recognize your project?
 - Feel flattered
 - Don't obsess over whether the details are right

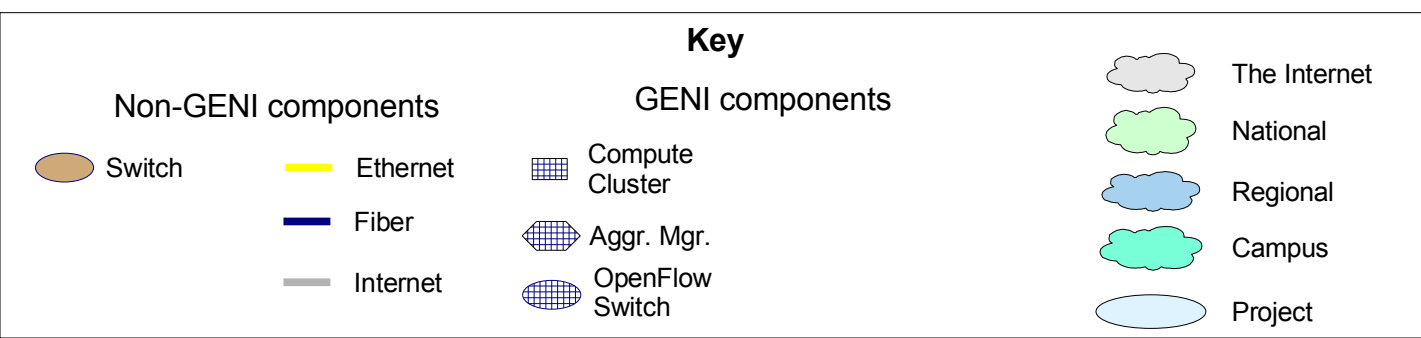
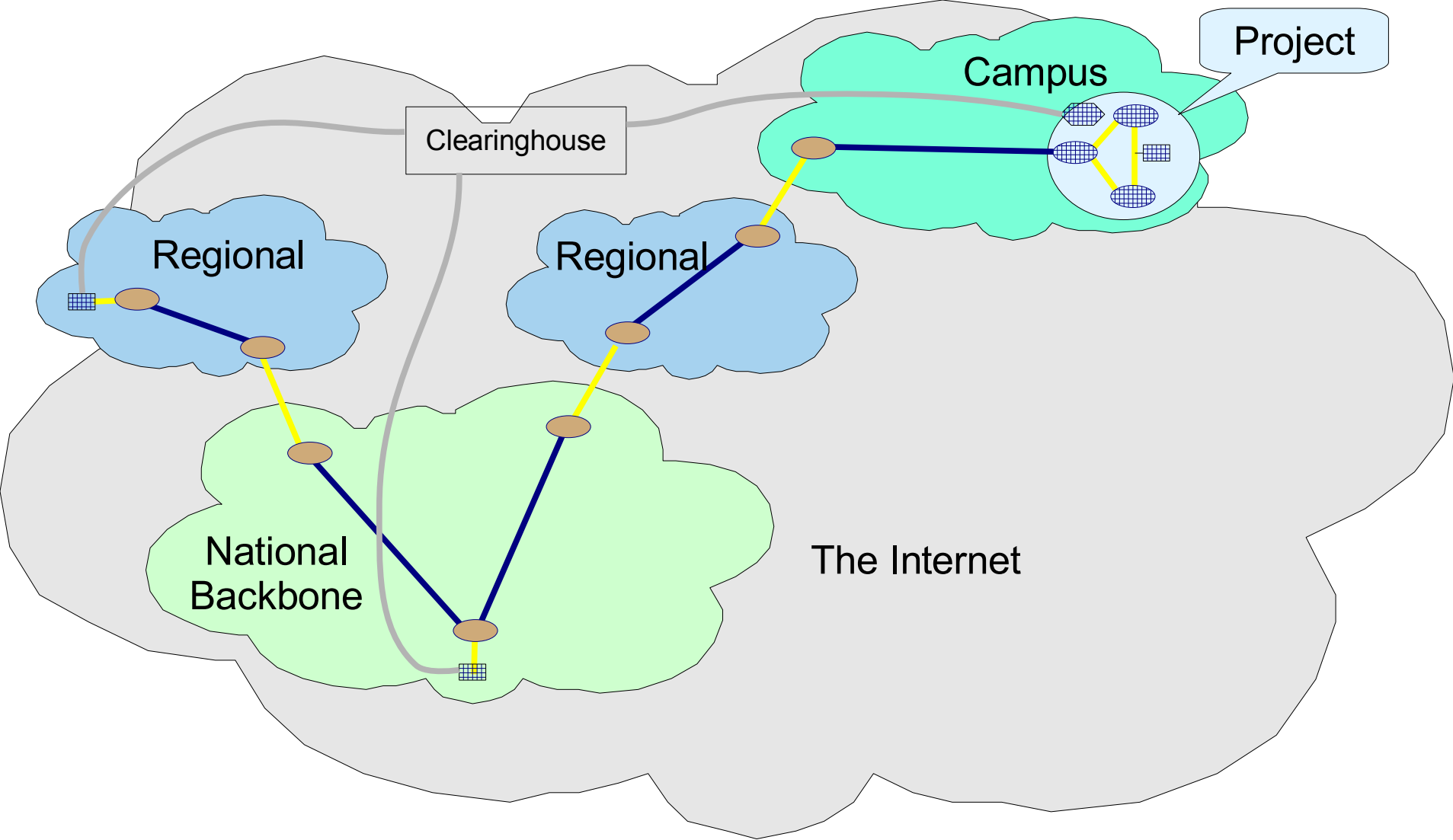


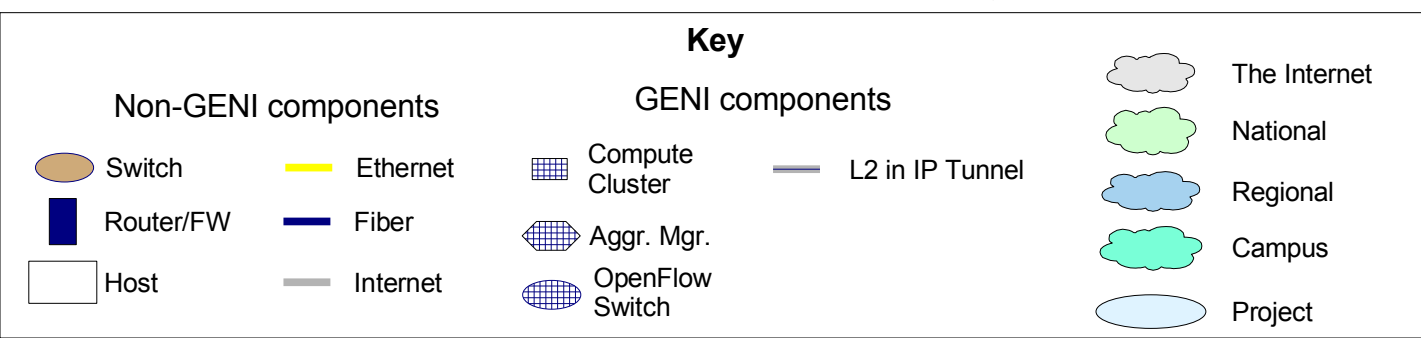
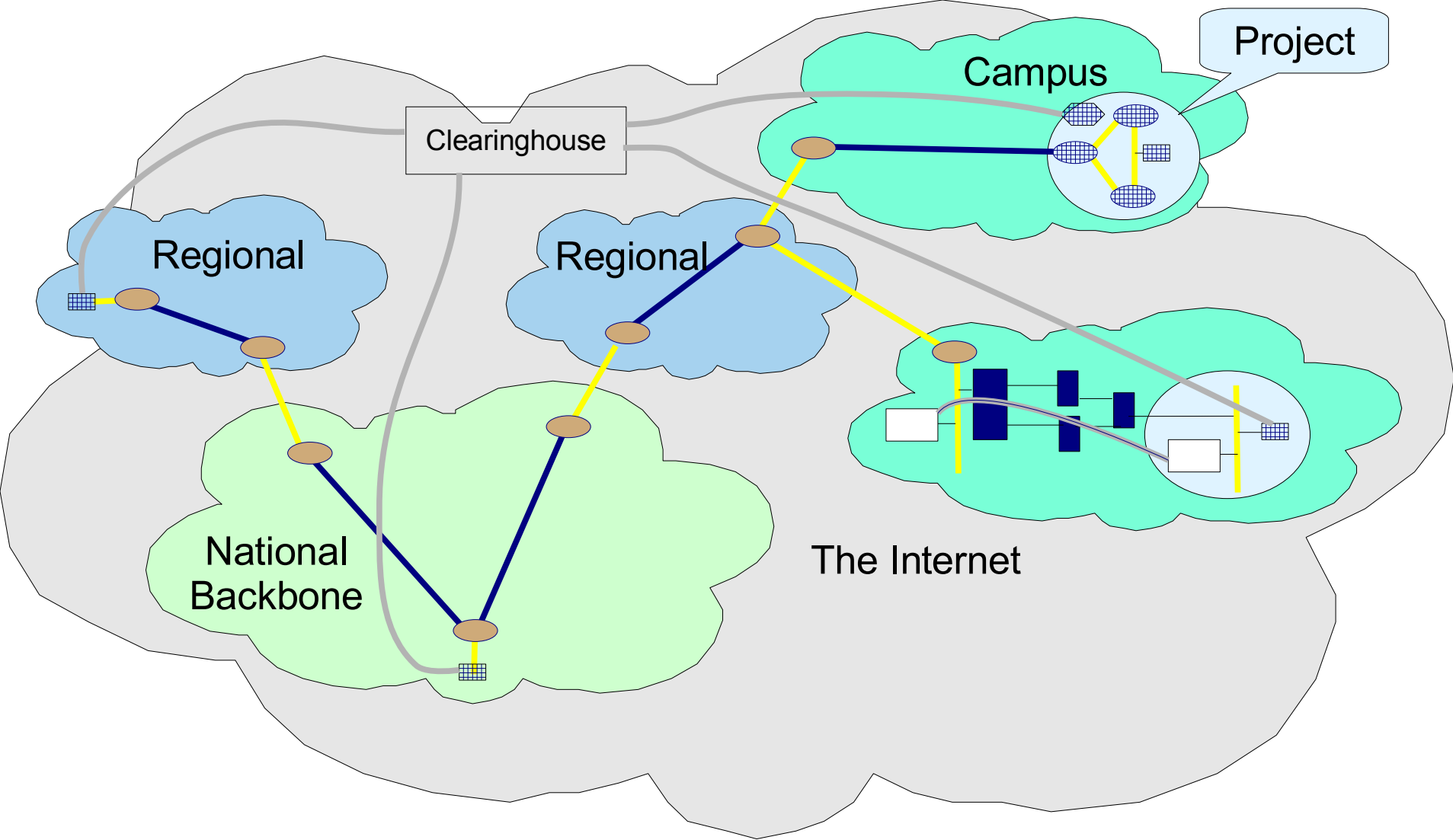
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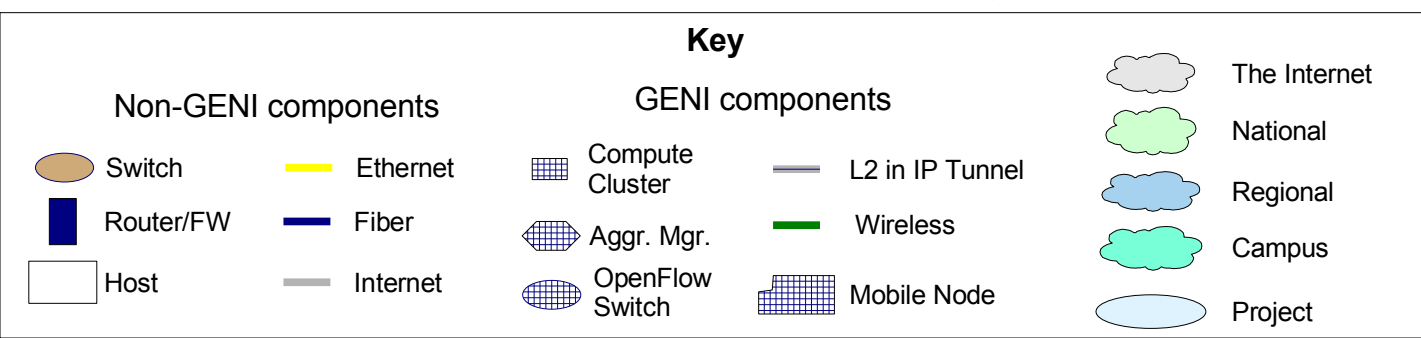
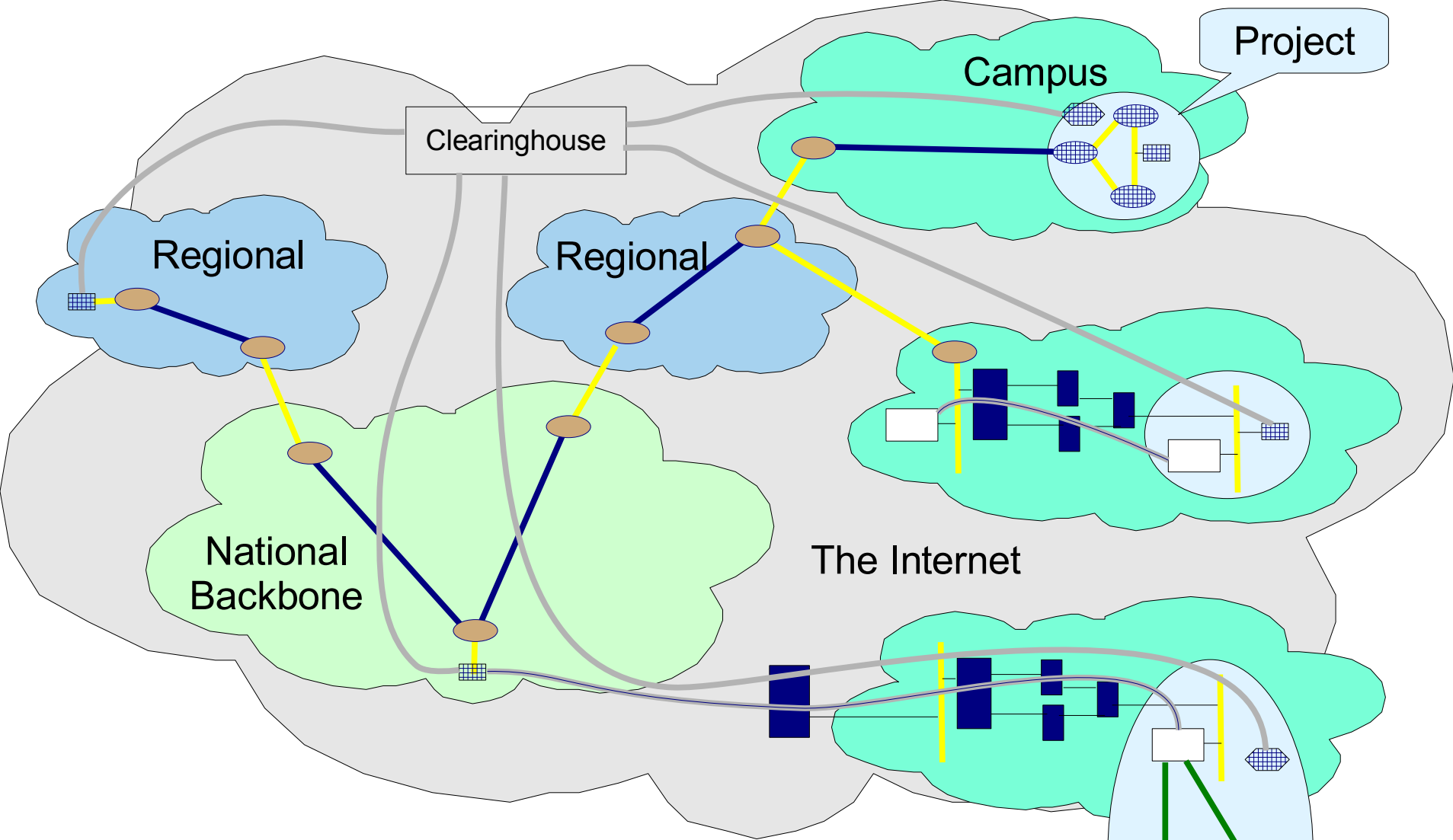
Non-GENI components

-  Switch
-  Ethernet
-  Fiber
-  Internet
-  Compute Cluster

-  The Internet
-  National
-  Regional









Follow-up

- Notes, slides, actions, etc will be sent to the working group mail list and posted on the wiki page:

<http://groups.geni.net/geni/wiki/GeniOmis>