

# Control Framework WG

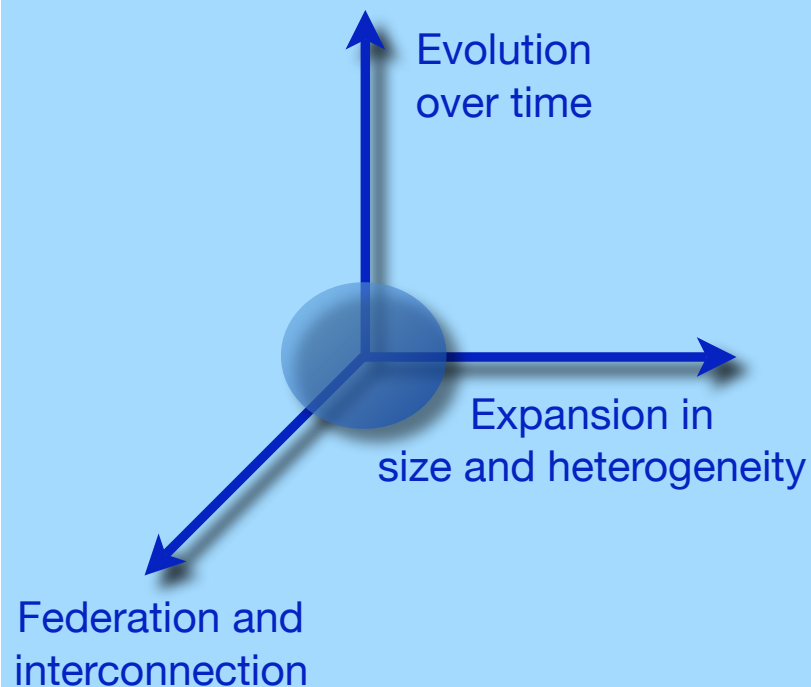
GEC Meeting - March 2008

## Agenda

- ▶ Overview: scope and current topics
- ▶ Resource description task
  - ▶ “RSpec” presentation
  - ▶ Discussion

# WG Mission

## GENI Development Path



Core control framework -  
“narrow waist”

Key “fixed points” in the  
design

Structural underpinnings to  
support

- ▶ Basic functions
- ▶ Evolution over time
- ▶ Expansion and scaling
- ▶ Federation with similar facilities

# Cross-group topics 1

- ▶ *Authentication and authorization*
  - ▶ basic models and flow....
  - ▶ ...but not specific policies, etc.
- ▶ *Resource description*
  - ▶ Capabilities and syntax...
  - ▶ ...but not description of particular resources

# Cross-group topics 2

- ▶ Resource *discovery*
  - ▶ Basic model - 2 phase discovery:
    - ▶ Resources *push* preliminary descriptions to external registries, databases, search engines
    - ▶ Potential customers *may pull* additional description directly from resource
      - ▶ To obtain additional *detail*
      - ▶ To obtain *short-timescale* data
  - ▶ ...but not details of registry, search mechanisms, etc.

# Cross-group topics 3

- ▶ Resource *allocation*
  - ▶ Basic *request-promise-ticket* primitives for allocating individual resources...
  - ▶ ...but not
    - ▶ coordination mechanisms
    - ▶ higher level embedding services
    - ▶ resource selection services
    - ▶ etc.

# General path forward (?)

- ▶ short “vertical slice” documents to define starting point for discussion
- ▶ GEC or interim (WebEx..) meetings to introduce and frame topic
- ▶ cross-group “design teams” to
  - ▶ continue the work
  - ▶ coordinate across WGs

# Today

## Resource Description

- ▶ Key glue function that ties together
  - ▶ substrate (components)
  - ▶ control framework
  - ▶ facility services
- ▶ Basis for resource discovery, request, allocation - *many* steps in the use case
- ▶ Starting point: “RSpec”
- ▶ Today: presentation, questions, discussion
- ▶ On mailing list - followup, design team