

# Short Update of GENI Federation Scenarios and Requirements

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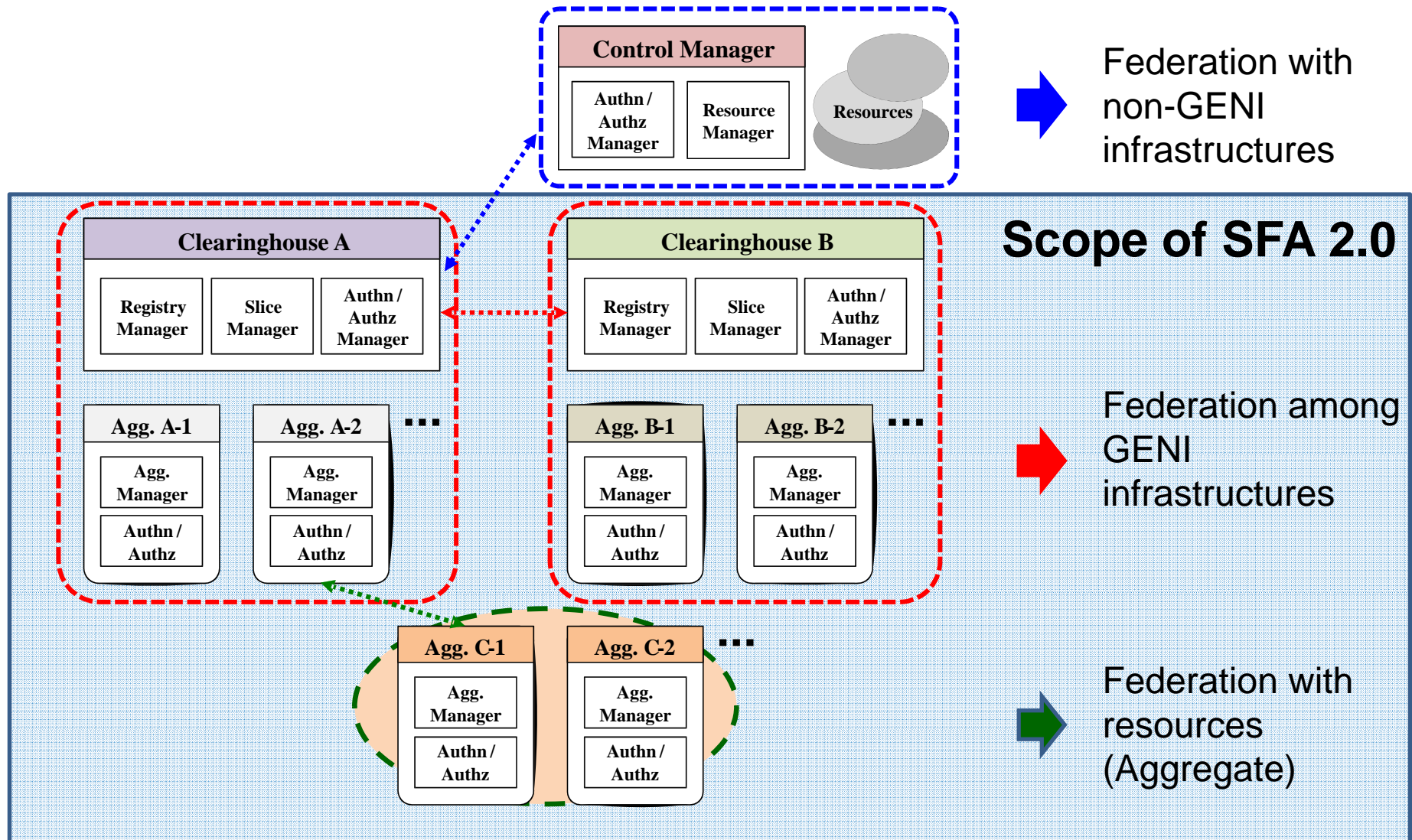
# Objective

- Discuss federation scenarios and problems which will occur during federating multiple heterogeneous testbeds
- Discuss several requirements to mitigate the identified problems

# Document history

- Discussion for initial idea @GEC6
- Updated investigation results @GEC7
  - GENI Federation scenarios
  - Analysis on problem spaces and requirements
- First draft published July '10
  - <http://lists.geni.net/pipermail/control-wg/2010-July/000200.html>
  - Identified requirements for each federation scenario
  - More feedback needed

# GENI federation scenarios



# Problem description

- Classification of federation problems
  - Different identity/authority management
    - Identity allocation/authorization policy/mechanism
    - Ex) GID, ABAC (SFA 2.0)
  - Different control procedures
    - Control flows and interfaces/APIs
    - Ex) GENI AM/CM/Slice APIs
  - Different resources and experiments description
    - Resource description schemes (syntax, context, entity, ...)
    - Description of experiments, services, experimental results
    - Ex) RSpec
- Global standards/adapters

# Next steps

- Status: problem statement document covers various federation scenarios, problems, and requirements
  - Anything missing?
  - More comments?
- WG indicated interest in investigating federation scenarios