Operations, Management, Integration and Security (OMIS) Working Group Meeting

GENI Engineering Conference 4
Newcomer's Meeting
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Operations Transition Points

Q: What are the "transition points" in GENI development that cause us as a group to need to do operations differently?

We'd like the group in the room to brainstorm this today.

Here a few we've talked about in OMIS so far:

1. Projects use resources not at their local site (exception: existing IP connections) (just starting now)

2. Researchers outside GENI development teams start using GENI resources (Spiral 1)

3. Network incidents (particularly security) (Spiral 1?)

4. Data sharing between clearinghouses happens regularly (Spiral 1 or 2)

5. Opt-in users join GENI experiments (Spiral 2)

6. Popular mobile "handsets" in GENI

7. Storage clusters in GENI

8. Federation with non-GENI groups starts (e.g. international groups)

9. Legal action

What else?

- **O&M Tech Survey—what and why?**
  - We want to avoid spending time on solved problems
  - We want to avoid solutions that we already know don't work
  - We want to "extend" solutions that work or almost work
  - http://groups.geni.net/geni/wiki/OperationsIssues failed
  - How should OMIS get this information?
- **Does the OMIS working group charter need revision?**

Recommended Use Policy–everyone

- http://groups.geni.net/geni/wiki/RUP
- Local policies exist and combine with GENI policies
- Nothing illegal on GENI

"GENI Use Overview
The suite of GENI facilities coordinated by the GENI Project Office (GPO) is meant to support network science and engineering experiments, and to provide a collaborative environment in which participants can evaluate prototypes and gain a better understanding of the behavior and utility of various design alternatives. In addition to sponsored development projects, the GENI facilities suite may include resources contributed by research and commercial organizations and individuals. These resources are governed by their local policies, as well as by GENI guidelines. GENI facilities should be used only for research and education purposes.   GENI does not allow illegal activities."

Recommended Use Policy—researchers and infrastructure providers

- **Don't violate local AUPs (how do you know about them?)**
- **Debug software and hardware before deploying on GENI (where?)**
- **Don't hurt other infrastructure (everything outside your slice? or your local infrastructure?)**
- **Do ensure your experiment, prototype or donated infrastructure can't be hijacked**
- **If there's a problem, participant must investigate and address**

"Guidelines
... GENI participants should not knowingly violate local AUPs... GENI work should not adversely affect those [local host] organizations... adhere to widely-accepted standards of network etiquette. Software and hardware should be debugged....the participant will be expected to investigate and address [a reported] issue...GENI participants are responsible for ensuring that their experiments, prototypes, or contributed infrastructure cannot be hijacked and used to attack or spam other infrastructure or users."

- **Researchers are responsible for opt-in users following GENI policy**

- **There are no GENI privacy or reliability guarantees (how do end users know?)**

"Guidelines
Researchers who sponsor services that include these [opt-in] users are responsible for ensuring that their users do not violate the GENI infrastructure recommended use policy... GENI offers no privacy guarantees on data sent to and from the GPO-coordinated GENI suite of infrastructure. GENI participants should assume data will be monitored and logged, for example to investigate abuse. GENI also offers no reliability guarantees."

- **Operations will try to contact participants, but may take immediate action when necessary (who is operations in Spiral 1, 2, 3...?)**

"Consequences
"...some violations may require immediate action...Violation of this Recommended Use Policy may result in any of the following:
   * disabling experiments, systems, or users access to GPO-coordinated GENI infrastructure
   * removing sites or resources from the GPO-coordinated GENI infrastructure
   * Informing the participant's administrative organization of the violation
   * Informing the GENI community, including the National Science Foundation, of the violation"

- **RUP has been published on wiki and distributed to mailing lists**

- **If the working group approves, the policy will be posted to mailing lists for a final comment period, and then may be published as "final"**

- **If the working group doesn't approve (or if issues arise during final comment period), the policy will be revised and discussed again**

- **Is there rough consensus in the room about what to do next? (revise, reject, approve?)**