Establishing and Communicating Trust in GENI

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Trust Issues

- One goal of GENIE O&M is to detect malicious behavior and return infrastructure to trusted state
  - What is this trusted state?
    - Does it include rolling back software

- Clearinghouses
  - Specify criteria for trust (i.e. identity, behavior)
  - Extend trust model beyond authentication and access control
    - Include set of conditions that will enable trustors to evaluate an entity

- Users
  - Everything is programmable; how does a user verify the integrity of the software that is running on a node?
Trusted Computing

Enable

Trustworthy Computing

Communicate

Trusting Computing
Security Communication as Risk Communication
The Current Response to Security Risks...
Communications Challenge

- Map changes in trust levels to risk
- Understand how individuals differentiate between changes in risk levels
- Assist the network, and GENI, in effectively responding to the change in risk