

GENI Security Architecture Overview of Authorization Session

**GENI Engineering Conference 12
Kansas City, MO**

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2 Nov 2011**

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- **Security Architecture Properties enabled through a principled approach:**
 - **Support for Authorization “At-scale”**
 - decentralized, multiple distinct roots-of-trust, etc.
 - **Reasoning about Security Policies**
 - predictable impact of changes
 - **Auditing**
 - forensics: why was an action permitted?
 - confidence building: GENI community has the means to answer these questions if and when the need arises
 - **GENI Resource Contributors retain control**
 - enables local policies over who access what
 - support sub-communities that need to share resources

- **Ted Faber: ABAC Vocabulary:**
 - **ABAC Introduction/Review and Proposal for a Common Vocabulary for use in GENI ABAC Policies**
- **Jeff Chase: Accountability and Authorization:**
 - **Review of ORCA status using ABAC**
 - **Rationale for how ABAC should be used for Accountability in GENI**
- **David Cheperdak: GENI Cloud/PlanetLab ABAC Integration**
 - **Design for incorporating ABAC into PlanetLab software to support GENI Cloud**
- **Ben Warren: IF-MAP, a security driven pub-sub protocol**
 - **Security Use Cases informed by recent I&M efforts**