FY07 Plan for **Grid/Security**
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Relevant Strategic Plans - Grid Strategic Plan

Security.Goal -

- Provide OSG Security Officer , who oversees the security tasks in the OSG and does many of them.
- Provide appropriate security environment for the Fermilab OSE.
- Increase ability to reason about grid security issues in the staff.
- Investigate tools to assess the overall security status of the OSG, building on FNAL expertise in these tools.

Security.Strategy – sufficient to increase the usability grid infrastructure usable to the FNAL mission… Special attention to the special needs of the DOE environment, …success in designated roles … OSG Security Officer. … evolving the (Fermilab) organization to build acumen in grid (security) techniques.

Grid/Security

Objectives for FY08

1. Provide OSG security office
    a. Oversight of the OSG security at the Executive Board level.
    b. Provide OSG core security in the context of risk analysis and controls
    c. Provide grid level security services.
2. Plan and coordinate Fermilab OSE security
3. Build overall acumen in Open Science security sufficient for integrated security management within FNAL.
4. Build a system which can be queried to assess the overall security state of the OSG.

Grid/Security/OSGSecurity Office/Oversight

- Activity type: * Ongoing
- Timescale: 4 Q 2008
- Milestones:
- Metrics Acknowledged traction of OSG-lead items in the broader community, for example the OSG vision of VO accountability.

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Grid/Security/OSGSecurity Office/Core

- Activity type: * Ongoing
- Timescale: 4 Q 2008
- Milestones: OSG core controls implemented bi 1/1/08

Metrics Complete ST&E of security controls.

Grid/Security/OSGSecurity Office/Grid Security Services

- Activity type: * Ongoing
- Timescale: 4 Q 2008
- Milestones: Useful grid auditing Tool by 3/15/2008
  Metrics implements use cases in design document.

Grid/Security/OSE

- Activity type: * Ongoing
- Timescale: 4 Q 2008
- Milestones: OSE-side controls implemented by 11/1/07
- Metrics: Complete ST&E for the OSE.

Grid/Security/Acumen

- Activity type: * Ongoing
- Timescale: 4 Q 2008
- Milestones:
- Metrics
- A) Security Controls suggestions incorporated into relevant documents.
- B) Heard in the CSExec meeting
- C) Grid oriented security materials prepared and presented in training fora.

Grid/Security/Auditing

- Activity type: * Ongoing
- Timescale: 4 Q 2008
- Milestones: working prototype Q2 2008
- Metrics
- A) Integration with some accounting system
- B) Deployment plan for >4 OSG site.

Priorities: The most important objectives are: Implement sound planning such that we avoid disruptions to production in the OSE (including compliance based disruptions) , and to maintain the influence gained by filling the role of OSG security office, this includes maintaining the perception that the work is well done within the OSG. If we are short of time or resources we will de-scope each activity with these important objectives kept in mind.

Staffing: We will bring the new hire for OSG security up to speed. The responsibilities proposed for the Fermilab OSE plans will require liaison with the site plan, and additional analytical and skills and effort, of approximately one FTE.

Change control:
Change control within the OSG project, for OSG matters; all other change items are within the CD's purview, with guidance from the CSexec and quadrant head.

Risk Assessment:

1. Provide OSG security office : The amount of effort is scoped as it is because Grid software does not currently have a threat community. There have been no hostile incidents involving grid service-based access to sites. An aggressive grid threat community will be able to out-think the existing security staff.
2. Plan and coordinate the Fermilab OSE Security: The perception of poor security compliance or performance by DOE will likely affect the scientific computing program in an adverse ways, including but not limited to stand downs, and imposed controls that limit performance or interoperability.
3. Build acumen… Systems administrators are fundamentally responsible for the systems they operate. This include grid middleware layers, and some extent grid activities. This is a body of knowledge that is distinct and different from Unix systems administration. Since we practice integrated security management, we cannot secure our systems with appropriate knowledge in front line system administrators, and cannot assess and evolve our process without informed input from this group of people
4. OSG security auditing …. The proper role and function of a grid security team is not well established by prior practice. The tool will incur the risks of a prototype that is used to acquire domain knowledge.