

Security Policies for Interoperable Grids

David Kelsey

ISGC 2008, Taipei

9 Apr 2008

Overview

- The Joint Security Policy Group
- Interoperable policies
- Current security policy set
- Recent work
- Plans for the future
- Scaling problems with VOs and Grids
- Final thoughts

JSPG: what is it?

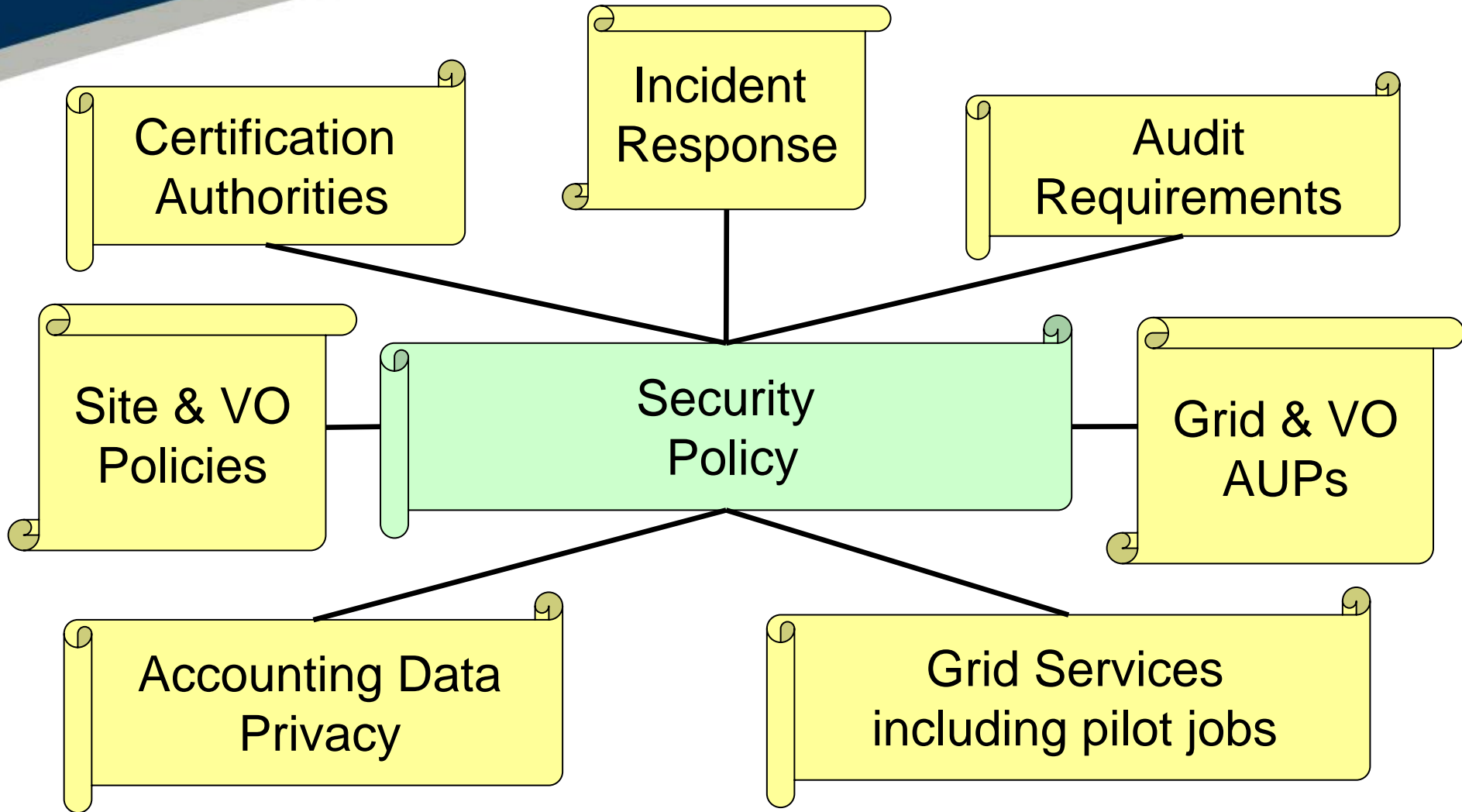
- Joint Security Policy Group
- Jointly owned by, makes recommendations to WLCG and EGEE
 - Policy prepared for WLCG is designed to be applied to all of its Grid infrastructures in so far as this relates to WLCG activities
 - In addition to EGEE, this means OSG, NDGF and other national Grids and/or individual Grid sites which participate in the WLCG collaboration.
- Membership includes:
 - Application representatives, VO managers, Grid/Site Security Officers, Site/Resource Managers/Security Contacts, Security middleware experts/developers, Grid deployment experts...
- Other EU Infrastructure projects (may) use our policies
 - BalticGrid, DEISA, EELA, EUMedGrid, EUChinaGrid, SEE-Grid ...

JSPG: what are its aims?

- Prepare and maintain security policies for EGEE and WLCG
- Provide advice on any security matter, including policy issues, procedures or technical concerns
- Aim to prepare simple and general policies of use to other Grids
 - Common policies eases the problems of interoperability
- The membership of JSPG and its mailing list is by agreement
 - volunteers wishing to work in this area are encouraged
 - members from other Grids, e.g. NGLs, are particularly welcome
- JSPG does not formally approve or adopt policies or advice
 - This is the responsibility of the stakeholder management bodies

Interoperable policies

- Allow VOs/applications to easily use resources in multiple Grids
- The simplest approach
 - Common Policies (and to some extent procedures)
 - Security Policy
 - User AUP
 - Site Operations
 - VO Operations
 - Operational procedures and other policies
- If not common then at least not conflicting
 - To augment local site and network security policy
- We contribute to the EU eInfrastructure Reflection Group (eIRG)
 - Common approach at highest level



Recently updated

- Grid Security Policy
- Grid Site Operations Policy
- VO Operations Policy
- Multi User Pilot Jobs
- Approval of CAs
- Grid Security Traceability and Logging Policy

Current work

- Grid Policy on the handling of Accounting Data
- VO Registration Policy
- VO Membership Management Policy
- Grid Portals Security Policy

Plans for the future

- During EGEE-III (May 2008 to Apr 2010)
 - Move towards EGI and many NGIs
- Revise all policies yet again
 - Make even more simple and general
- Grids may have their own policies
- The JSPG policies will be needed
 - For Grids to interoperate
 - For VOs who wish to use many Grids

Scaling problems VOs and Grids

- During last 8 years
 - Users register once per VO
 - Sites decide which VOs to support (“trust”)
- But there are/will be
 - Too many VOs (~200 in EGEE & growing)
 - Too many Grids (will be > 30 in EGI)
- Establishing trust VO \leftrightarrow Grids is hard

A possible solution...

- IGTF (EU Grid PMA) is considering
 - setting standards
 - for VO membership services and Attribute Authorities (VOMS)
 - Accreditation will have to be performed a distributed body
 - The existing IGTF PMAs would not manage the load
- One method for solving the scaling problem
 - Each VO has a “home” Grid
 - VO accreditation is done by the home Grid
- The IGTF accreditation then eases the establishment of trust between the VO and other Grids

Links

- JSPG Meetings - Agenda, presentations, minutes etc
<http://agenda.cern.ch/displayLevel.php?fid=68>
- JSPG Web site
<http://proj-lcg-security.web.cern.ch/>
- Policy documents at
<http://cern.ch/proj-lcg-security/documents.html>
- IGTF at
<http://www.gridpma.org/>

Final words

- Much progress over last two years
 - Simplified and more general policies
 - Several new policies developed
- But much more still to do
 - To manage the VO and Grid scaling
 - Build International Trust
 - To make policies even simpler and useable by many more Grids
- Volunteers are very welcome!

