

### **OSG Troubleshooting: A User-Centric Perspective**

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June 16, 2008









# **OSG Troubleshooting**

Provide troubleshooting support for OSG production and integration infrastructure

- Troubleshoot end-to-end operational and performance problems
- Help VOs identify, diagnose, and resolve problems







# **Troubleshooting Team**

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## **Online Resources**

### Twiki pages

- https://twiki.grid.iu.edu/twiki/bin/view/Trouble shooting/
- Troubleshooting Guide and Tips
  - Troubleshooting/TroubleshootingGuide
- Troubleshooting FAQ for users
  - Troubleshooting/TroubleshootingFAQ
- Problems resolved indexed by symptoms
  - Troubleshooting/SymptomIndex









### Feedbacks

- Which resources do you find most useful?
  - How can we improve it?
- What additional resources you would like in future?









# Identifying and Resolving OSG Usability Problems

- Goal: Identify problems, foster discussions and implement solutions that would improve the usability of the OSG infrastructure
  - Our troubleshooting experiences gives us an unique perspective
  - https://twiki.grid.iu.edu/twiki/bin/view/Trouble shooting/TroubleshootingVOProblems









### Examples

- How to publish extra site-specific constraints?
  - e.g. No support for remote\_initialdir parameter
- Monitoring and site verification
  - Users are unclear of what sites will be capable of accepting their jobs









# **Publishing Application Info**

### grid3-location.txt

- VOs can publish application info installed at a site
- Picked up by GIP
- Matchmaking can be done with ReSS
- Problem
  - World writable
    - Shared among all VOs
  - A single inexperienced user can cause havoc
  - Adopted only by few VOs (might be a good thing), but with a fix should be widely used







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# **OSG Storage Models**

Does the present OSG storage model meet your needs?

- https://twiki.grid.iu.edu/twiki/bin/view/ReleaseDoc umentation/StorageModels
- \$OSG\_DATA need not be shared file systems
  - How would a change by sites impact your apps?
- Data are supposed to be copied to WN\_TMP before use

Is this unsuitable for your application?

How can users find what the storage model a site is using?







## **OSG Resource Status**

- Lack of an unified, reliable view
- What should a green dot on VORS (or other monitoring systems) mean?
  - Identify critical components and exercise them
- Reliable tests
  - Eliminate repeated tests from each VO
  - VOs and resource providers need to be on the same page









## Discussion

Persistent problems you have experienced?

Comments





