

Handling Operational problems

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Site (mis) - configurations



 Site mis-configuration was responsible for most of the problems that occurred during the experiments Data Challenges. Here is a non-complete list of problems:

integrated all common small problems into

1

BIG PROBLEM

- Default user shell environment too big
- Only partly related to middleware complexity

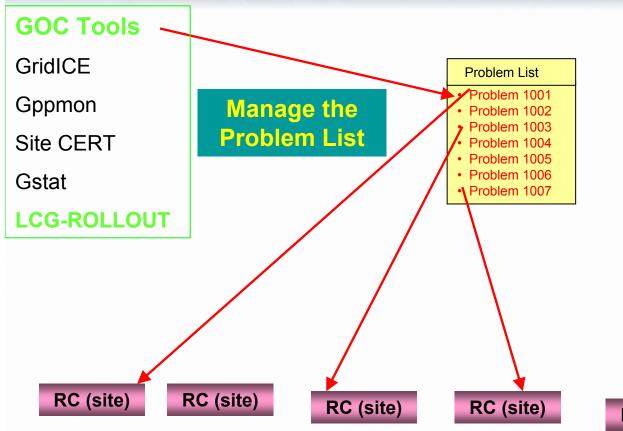


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- Operational problems are currently mainly due to configuration of the sites
 - Either on installation or due to subsequent changes
- Many of them can be seen by the GOC monitoring
 - Seen but not solved
- So this monitoring could drive proactive operations
 - See piotr's talk
- A rough outline of the proposed procedures follows





RC (site)



EGEE – ROC/CIC



- Operations Management Centre
- Core Infrastructure Centre
- Regional Operations Centre



Service activities

- Middleware Integration and Testing Centre
- Middleware Re-engineering Centre
- Quality and Security Centres

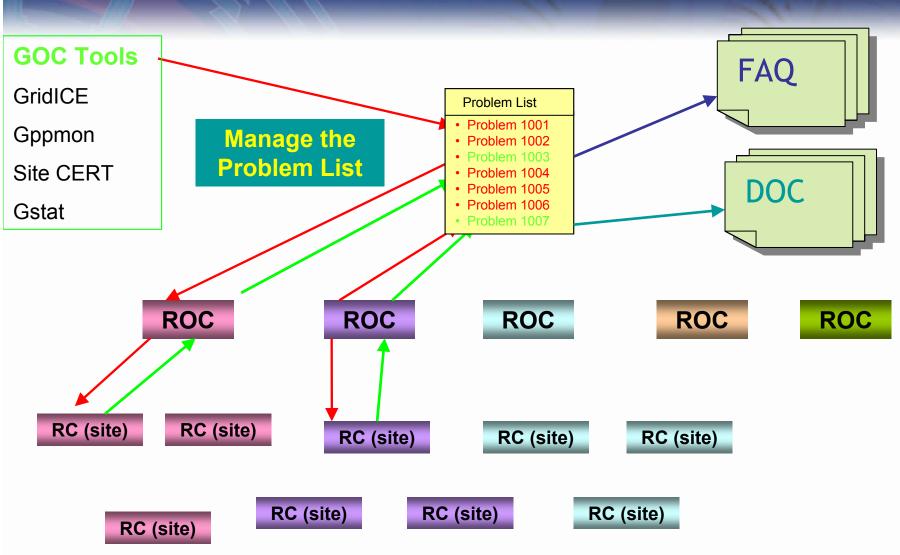
Middleware activities



- Lead Networking Centre
- Pilot Application Centre
- Regional Networking Centre

Networking activities







Short Form

- Problems seen by monitoring tools are logged centrally by GOC (CIC)
- Tickets passed to relevant ROC
- ROC resolves problem with the site
- And reports back to GOC



Details

- One person from each of the 4 CICs (CERN, CNAF, IN2P3, RAL) will manage this procedure for a week at a time
- Savannah will contain the list of tickets
 - Q is this the best tool?
- The weekly GDA meeting will review the current status



Problems

- Raising tickets is a manual procedure
 - Monitoring tools well-placed to raise tickets automatically
- ROCs are alerted by email
 - Which can go to their helpdesk
 - but no return path, have to login
- Other sources of problems
 - users, sites, ROCs
 - produces workflow that has not been fully thought through



Problems (2)

- Some problems are too urgent for a twostep process.
 - also need to contact sites directly
- Resolving problems often leads to new deployment ticket being raised
 - More work for Markus et al.



Future

- All tickets in a single system
 - GGUS?
 - or in a network of fully-integrated helpdesks
 - including user problems
 - managed by a variety of people.
- Problem solutions populate FAQs and documentation
- CIC/ROC could use remote management tools to control services
 - stop/start/restart/reload
 - root access?
 - Middleware requirement
- Mechanism for removing sites to improve stability of Grid.



Scope for discussion during the workshop