

SRM v2.2 Deployment Workshop, Edinburgh - UK 13,14 November 2007

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Organization of Storage Management Support



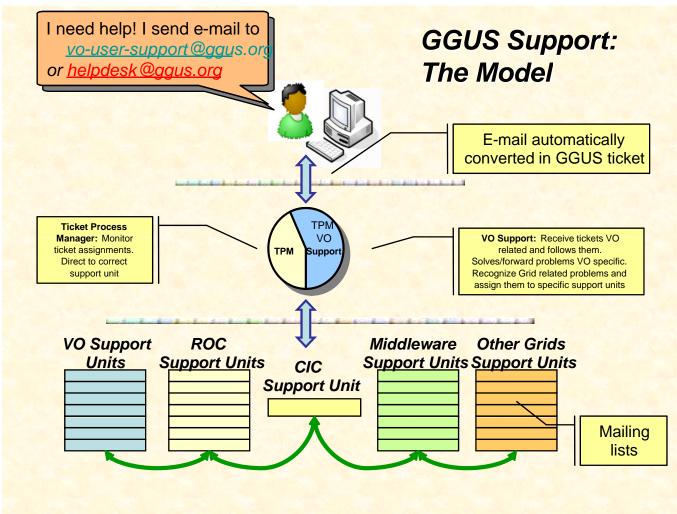
Goal



- Collect ideas on how to organize support
- Definition of the support bodies
- Define the support channels
- Define the procedures to be followed

Some background





CIC-on-Duty

They use GGUS for their daily operations. GGUS support (TPM) only informed and not active.

Who are the supporters and what do they need to do?



- <u>TPM</u>: first level support general Grid experts who analyze the problems reported and find a solution or forward the problem to a more specialized second level support unit
- <u>TPM VO</u>: VO first level support VO general experts who solve VO specific problems
- VO Support: VO second level support VO specialists who solve VO/Grid related problems
- **Specialized Support**: middleware second and third level support
 - specialist of Grid middleware
- <u>ROC, ENOC</u>: operations second and third level support Regional and network Grid specialists for deployment problems

id Storage

TPM

Support

Conclusions of the last GSSD



- Several different types of problems reported:
 - Problems reported by users and understood by the sites (solved at ROC level)
 - Problems reported by site admins
 - Problems reported by Tier-1s
- It was agreed that issues that fall in 1) are the ones GGUS can address. However, 2) and 3) are better addressed via other means
 - <u>Site-admins forums</u> (already existing for most of the storage services available)
 - Well <u>defined channels to developers support</u> infrastructures
- It is important to build a second level support specialized in storage service
 - A group of expert site-admins or users who can help non-expert Tier-2s sort out common problems
 - Such a group of expert could also be a formal GGUS group. In this way problems reported by site-admins can be traced, if GGUS tickets are open.
 - It looks like we have enough experts around and they are willing to provide support.
 Candidates are in UK, Italy, Spain
 - Second level support will be discussed during the Tier-1/Tier-2 storage workshop at Edinburgh
 - It was agree to also create a channel between the EU and the US second level support so that knowledge can be built in a broad way

Conclusions of the last GSSD



- It was stressed that support for storage is very important and cannot come for free
 - Funding is needed in order to build such a group of dedicated experts
- How should VOs report problems during data challenges or production activities?
 - As of now VOs contact directly Tier-1s. This should not change.
 - At the same time a GGUS ticket should be open for traceability
- For what concerns Tier-1s, the site-admins forum can be used but also a direct channel with the developers should be established.
 - GGUS tickets should be created for traceability
 - A feed should be created so that GGUS TPM can assign problems to the developers
- GSSD will organize the support for Storage in coordination with GGUS/ESC.

What is missing?



- 1. We need to identify second and third level support for Storage
- 2. Second level: experience site admins available to help others resolving problems related to a specific storage solution.
- 3. Third level: identify a set of developers who looks after GGUS tickets assigned to the specific storage support unit
- 4. What about site-admins forums for storage problem discussions? Is the LCG-ROLLOUT list enough?
- 5. How should experiments report problems?

 Do we need to establish privileged channels with developers?



A proposal



- 1. <u>Identify second and third level support</u> for Storage in GGUS. GGUS tickets submitted by second level support to third level support with high priority should be given the necessary attention. Some committment needed.
- 2. <u>Create or publicize existent user/site admin forums</u> for storage problem discussions
- 3. Create an initial second level support team (at CERN ?) specialized in dCache and DPM.
 - The team will follow the discussions in the user/site admins forums and open and follow/solve GGUS tickets accordantly.
 - The team will be part of GGUS Storage second level support
 - The team will have privileged channels with the developers
 - Do we need a second level for CASTOR ?



A proposal



- 4. Organize <u>specialized storage support for the experiments</u>.
 - This team will follow closely experiments activities such as data challenges (Mx, CCRC08, etc) and production activities
 - It will work closely (or be part) of the second level support team
 - It will have privileged channels with the developers
 - It will filter experiments problem reporting to Tier-1s and storage developers
- 5. <u>Establish</u> well defined channels for <u>second/third level support with</u> <u>GGUS</u> for all storage systems



And



