

# **Executive Director Perspective on OSG Accounting**

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# **We want to come out of this meeting today with a plan that allows us to retire GRATIA database and collector by 12/31/2016**

Given this schedule, we do NOT replace the probes that are deployed today. Rollout of new probes to all sites would take longer than allowed by this schedule.

This does not rule out a second change at the beginning of the new 5 year grant that will also replace the probes. But such a second change is not the topic of this meeting. We talk about it today only if we have time left at the end.

# Schedule boundary conditions

- Have the replacement deployed by 9/30/2016
- Run both new and old for 3 months
  - debug any differences in what the two record.
  - fix whatever needs fixing in the new in time to retire the old.
- Retire the old collector and DB by 12/31/2016

# High Level Requirements (1/2)

- All historical data we have in Gratia must be transferred to the new infrastructure.
  - Archival of detailed information as is in a format that is as technology agnostic as reasonable
  - we may reduce granularity of information kept online to monthly aggregates for anything that is older than 1 year
- The `display.grid.iu.edu` does not change.
- The look and feel of Gratia displays may change at both `gratiaweb` and `myosg`.
  - we will use the 3 month transition time to satisfy internal needs of the project for displaying information.

# Aside on Granularity needed

- There is little to no value in having a granularity of better than an hour.
  - Traceability today in OSG has nothing to do with accounting. This is a big shift since the original Gratia development. We could abandon single job/transfer/... accounting and work only with aggregates.
- Any plot for more than two weeks does not have to be with an hourly granularity
  - to do debugging or any other historic perspective we do not need to use the accounting. See end of this presentation.
  - can switch to daily aggregates for anything older than 2 weeks
- Can switch to monthly aggregates for anything older than 1 year.

# High Level Requirements (2/2)

- Careful attention must be paid to guarantee that the safety of the accounting data is as assured in the future as in the past.
  - Since 2004 we have not had any catastrophic loss of data after it was stored in the DB. This reliability must be maintained.
- We ought to design the new system such that:
  - a transition like we do now is easier in the future.
  - design new system with long term maintenance in mind
    - no more java or alike
    - avoid headaches due to schema evolution
    - ...



# Questions

# Who owns the OSG accounting system in the future?

- who operates OSG accounting?
  - the repository
  - the display(s)
- who is responsible for the code?
  - probes
  - collector
  - DB infrastructure
  - display of information
- who is responsible for archiving?



**Two things on my mind that are out of  
scope for today**

... unless we have time left at the end ...

# Beyond Scope Today (1/2)

- I'd like us to require putting the name, discipline, and institution into the classAd at submit time for all the pilots.
  - we provide a way to easily insert into classAd a mapping from unix userId to person name, institution, project, and science discipline
  - we require this to be installed at all submit points that have access to OSG resources
  - we have a means in the accounting system displays to get stats on these attributes.
- This does not change our delegation of trust model. I.e. we trust the VO to put the correct information in.

## Beyond Scope Today (2/2)

- I'd like us to consider providing “workflow data” on workflows that run on OSG to the wider CS audience.
  - I.e. a “data mining” API for general public that is depersonalized.
  - Both Ewa Deelman and Ilkay Altinas expressed an interest in this kind of information to me recently.
- Allow study of joint of perfSonar, HTCondor, XRootd, gridftp, network transfer statistics, ...
- I think this could be part of the next 5 year proposal.