



Contribution ID: 54

Type: Demo

Intra-VO and individual user level accounting in EGEE

Tuesday 23 September 2008 16:09 (1 minute)

Describe the activity, tool or service using or enhancing the EGEE infrastructure or results. A high-level description is needed here (Neither a detailed specialist report nor a list of references is required).

A new level of detail is now possible in the usage accounting in EGEE. The collection of encrypted individual user DN information and User Fully Qualified Attribute Name (userFQAN) is now possible in the EGEE accounting infrastructure.

With this new information, for example, VOs can analyse how their production is done between the different groups and roles that they have defined and any user can see the distribution of his/her jobs between ROCs and sites and the CPU,... in each site/ROC.

Report on the impact of the activity, tool or service. This should include a description of how grid technology enabled or enhanced the result, or how you have enabled or enhanced the infrastructure for other users.

The new views make more versatile the Accounting Portal, providing dynamic statistics about individual users. VOs can analyse how their production is done between the different groups and roles that they have defined.

The VO manager view allows to see the Top 10 User ordered by #jobs, CPU,.. and displayed at the global level or at the ROC level.

The VO Member view allows to have an overview of the status of the VO at a lower level of detail than the global view grouping by users VOMS roles and groups so allowing a VO to analyse the usage of the groups and roles that it has defined.

The site Admin View shows the contribution of each of the Top 10 Users that executed jobs in the site and the average WCT for all jobs belonging to each User,...

The User View allows any user to see the distribution of his/her jobs between ROCs and sites and the CPU, WCT, normalized CPU time consumed in each site/ROC.

These views have greatly improved the management of sites, VOs, and individual users work.

Abstracts for online demonstrations must provide a summary of the demo content. Places for demos are limited and this summary will be used as part of the selection procedure. Please include the visual impact of the demo and highlight any specific requirements (e.g. network connection). In general, a successful demo is expected to have some supporting material (poster) and be capable of running on a single screen or projector.

In the demo we will show the new views to VO managers, VO users and site admins. Each of them will be able to see how the new functionalities can help them to improve their productivity in their particular tasks. For example, VO managers will be able to see the Top 10 users ordered by #jobs, CPU,... and they will also be able to analyse the usage of the different groups and roles of their VO.

We will give the opportunity to the users to interact with these new views of the Accounting Portal and test them. Also, they will see their personal accounting data if they load their user certificate on the browser.

The new views allows to dynamically generate visual statistics using many different types of plots, including Gantt charts, all of them with a high visual impact.

A demo is a good opportunity to show our work to the users. They could test the usefulness of the new views and give us their opinions and suggestions for making more useful, usable and adjustable to the users these views.

Describe the added value of the grid for your activity, or the value your tool or service adds for other grid users. This should include the scale of the activity and of the potential user community, and the relevance for other scientific or business applications.

Using the user DN it is possible to create statistics about the accounting at the individual user level. To access the accounting per user statistics pages a user needs to authenticate using a X.509 certificate signed by an IGTF approved CA. Once the user is authenticated, the authorization could be granted according to the following roles: VO Resource Manager, VO Member, Site Administrator, User and GOC Developer. Each role has associated a different view in the EGEE Accounting Portal.

In the site local database this information is kept in clear text. However, the R-GMA network supports Authentication so anyone with a certificate issued by an IGTF approved CA can access the data. To protect the users identity and maintain confidentiality, APEL performs on-the-fly encryption before streaming the data into R-GMA and storing it into the central APEL Accounting Repository.

To achieve the intra-VO level, it is necessary to get the UserFQAN, which contains the VOMS role and group information.

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