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A Grid storage accounting system based on DGAS and HLRmon

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The accounting activity in a production computing Grid is of paramount importance in order to understand the utilization of the available resources. While several CPU accounting systems are deployed within the European Grid Infrastructure (EGI), storage accounting systems, that are stable enough to be adopted on a production environment, are not yet available. A growing interest is being put on the storage accounting and work is being carried out in the Open Grid Forum (OGF) to write a standard Usage Record (UR) definition suitable for this kind of resources.

In this paper we present a storage accounting system which is composed of three parts: a sensors layer, a data repository and transport layer (Distributed Grid Accounting System - DGAS)

and a web portal that generates graphical and tabular reports (HLRmon).

The sensors layer is responsible for the creation of URs according to the schema that will be presented in the paper and that is being discussed in OGF.

DGAS is one of the CPU accounting systems used in EGI, by the Italian Grid Infrastructure (IGI) and other National Grid Initiatives (NGIs) and other projects that relies on the Grid .

DGAS is evolving towards an architecture that allows the collection of URs for different resources. Those features allows DGAS to be used as data repository and transport layer of the accounting system we depicted.

HLRmon is the web interface for DGAS. It has been further developed to retrieve storage accounting data from the repository and create reports in an easy to access fashion in order to be useful to the Grid stakeholders.

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