Content:
Managing a collaborative production Grid infrastructure means to be able to identify and manage in a timely manner every issue that might arise. The most complex problem to investigate in the current data Grid infrastructure due to its distributed and complex nature is in the context of the data management. The Storage Elements (SE) are the current building block of the Grid data infrastructure; it is composed of a broad range of storage systems and technologies and typically they are under the same administrative domain. To ensure that a problem be resolved quickly, it is fundamental that each site contributes to find solutions by providing any information useful about services running in its administrative domain. In order to be effective, often administrators of Grid sites must collect, organize and examine the scattered event logs produced by every service and system composing the Storage Element. The absence of a complete solution for the management of event logs in a Storage Element leads to long time spent sifting through tons of log messages, often expressed in different format, to troubleshoot a single problem.

This paper addresses the problem of gathering the event logs on a Grid Storage Element and describes the design of a new service, called StoRMon. StoRMon solution will be able to collects, archives, analyze and reports on event logs produced by each service of SE during the execution of its tasks. The data and the processed information will be available to the site administrators by using a single contact-point in order to easy identify security incidents, fraudulent activity, and mainly the operational issues.

The new service is applied to a Grid Storage Element mainly characterized by StoRM, gridFTP and GEMSS, and collects the usage data of StoRM, transfer and hierarchical storage services.

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