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Grid Messaging Systems in the WLCG monitoring context

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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.

Monitoring of Grid services consists of multiple different software components, from probing service status and performance to visualisation and summarization tools. VO specific Dashboards, SAM, Gridview and Fabric Monitoring tools like Nagios are examples of systems that are in use and can benefit from exchanging common information.

Moreover, by using MSG, any other user interested in the monitoring information made available may subscribe it in a simple, flexible way, either by using provided python tools, or using its own JMS/Stomp compliant solution. Besides its flexibility, reliability is achieved through highly configurable brokers, which may easily provide a network of brokers schema, master-slave redundancy and data persistency.

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 MSG has been set up in a testbed to test cross Grid interoperability; receiving Resource Service Validation results (RSV) from OSG into SAM for reporting within WLCG project. A bridge to MSG, using the standard provided tools, has been in stable operation since January 08.

Another testbed is in place for Gridview, breaking away from an Webservice approach, and sending GridFTP log parsing records through MSG, again with very reliable operation. Even in the event of failure on either the information publishers or consumers, no messages were lost. Concurrently, a test consumer was put in place to verify the ease of hooking additional systems.

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).

The MSG (Messaging System for the Grid) is a set of tools that make a Message Oriented platform available for communication between grid monitoring components. It has been designed specifically to work with the EGEE operational tools and acts as an integration platform to improve the reliability and scalability of the existing operational services.

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