

# JINR experience in development of Grid monitoring and accounting systems

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Different monitoring systems are now extensively used to keep an eye on real time state of each service of distributed grid infrastructures and jobs running on the Grid. Tracking current services' state as well as the history of state changes allows rapid error fixing, planning future massive productions, revealing regularities of Grid operation and many other things. Along with monitoring, accounting is also an area which shows how the Grid is used. The data considered are statistics on Grid sites' resources utilization by virtual organizations and single users. Here we describe our longstanding experience in successful development and design of Grid monitoring and accounting systems for global grid segments and for local national grid projects in Russia. The main points of the developments always were satisfying real needs of VO and resource managers and administrators, as well as making interoperable and portable solutions which are used in several grid projects. Provided solutions work with different Grid middleware like LCG2, gLite, Condor-G, UNICORE.

## Summary

Grid monitoring and accounting systems developed in Russia for global grid segments and for local national grid projects were satisfying real needs of VO and resource managers and administrators, as well as making interoperable and portable solutions which are used in several grid projects (different Grid middleware like LCG2, gLite, Condor-G, UNICORE).

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2

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