Contribution ID: **348**   Type: **poster**

LCG and ARC middleware interoperability

Wednesday 15 February 2006 09:00 (20 minutes)

LCG and ARC are two of the major production-ready Grid middleware solutions being used by hundreds of HEP researchers every day. Even though the middlewares are based on same technology, there are substantial architectural and implementational divergencies. An ordinary user faces difficulties trying to cross the boundaries of the two systems: ARC clients so far have not been capable accessing LCG resources and vice versa. After presenting the similarities and differences of the LCG and ARC middlewares, we will focus on the strategies implementing interoperable layers over the two middlewares. The most important areas are the job submission and management and information system components. The basic requirement for the interoperability layer implementation is capability of transparent cross Grid job submission both from ARC and LCG.

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Session Classification: Poster

Track Classification: Grid middleware and e-Infrastructure operation