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Future Grid Deployment Strategy

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The paper reflects on the experience gained from the deployment of the gLite middleware on the EGEE infrastructure and describes the changes required to meet the demanding requirements over the next few years. In particular, focus is given to the changes required in YAIM, the grid middleware configuration, to address the required granularity of releases, the changes that are necessary for a modular approach and how a smooth transition between can be achieved. In addition, most computing centers are upgrading hardware from 32 bit CPUs to 64 bit. The additional problems this creates is discussed along with the possible solutions so that full support can be given and the resulting affect on YAIM and grid middleware in general is described. An additional requirement is the need to support multiple platforms and migrating to newer versions of the OS. The middleware evolution also contains similar transitions such as upgrading VDT, which is at the core of the middleware. This paper contains information that will be of use to system administrators of computing centers who run grid services.

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