Context Issues and Challenges for Integrating Mobile And Grid Environments

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Abstract - In this paper we present architecture of a middleware layer that enables users of mobile devices to seamlessly and securely access distributed resources in a grid. It lays the ground work for an application toolkit that addresses issues such as delegation of the job to the grid service, interaction with heterogeneous mobile devices, support for online processing, secure communication between the client and the middleware and presentation of results formatted in accordance with the device specification by outsourcing computationally intensive tasks with high storage and network bandwith demands.