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AssessGrid - Advanced Risk Assessment and Management for Trustable Grids

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Grid technologies have reached a high level of development, but adopters underline
core shortcomings related to security, trustiness, and dependability of the Grid for
commercial applications and services. Service Level Agreements (SLAs) should be used
to define the quality of service for a job execution. However, providers are still
cautious on adoption as agreeing on SLAs including penalty fees is a business risk:
system failure, operator unavailability etc. can lead to an SLA violation. AssessGrid
will address the risk awareness and consideration in SLA negotiation, self-organising
fault-tolerant actions, and capacity planning. Risk assessment methods will serve
providers as decision support for accepting/rejecting SLAs, for price/penalty
negotiation, for activating fault-tolerance actions, and for capacity and service
planning. A confidence service will be developed in AssessGrid for supporting
customers in the estimation of provider's reliability. The AssessGrid results will support all Grid actors by increasing the transparency,
reliability, and trustworthiness as well as providing an objective foundation for
planning and management of Grid activities.

Summary

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