

# **An Intelligent Rule-Oriented Data Management System**

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To maintain consistency between various attributes of objects managed, current distributed data management systems implement a coordinated set of services directly within the software. If the consistency constraints change over time, or if different data grids require additional or modified constraints, the software must be updated. A new approach, based on the dynamic execution of rules (as used in expert systems) to orchestrate the "micro-services" of the data management infrastructure, is discussed. By building upon the experiences gained with the SDSC Storage Resource Broker data grid, a scalable rules-based data management system can be created.