

IMPLEMENTATION OF AN AUTOMATED APPLICATION FOR MANAGING AND MONITORING STORAGE ARRAYS OF A LAN-BASED NETWORK

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ABSTRACT

The project is aims to specifically develop an intelligent system that is able to make diverse, distributed LAN networks (regardless of operating systems or hardware) more interoperable, manageable, and adaptable. In other words, the proposed system provides a greater level of task automation throughout the storage network, eliminating the need for costly and time-consuming manual intervention, and predicting/ preventing events that may interfere with data availability and productive operations. By utilizing the latest Sun Microsystems' Java and Jiro technologies, the system has the potential of performing basic management functions such as fault notification, scheduling, distributed logging, disk space monitoring, and transactions rollback. In addition, the system provides intelligent network connectivity, such as enterprise-wide discovery and lookup, which enable devices to resources to other devices and management tools. To further enhance the system, it will also be capable of collecting file system statistics, evaluating usage trends, and predicting future capacity requirements. Sun Microsystems' Jiro technology makes it easier to solve the problems of configuring, monitoring, diagnosing, and troubleshooting today's sophisticated storage networks