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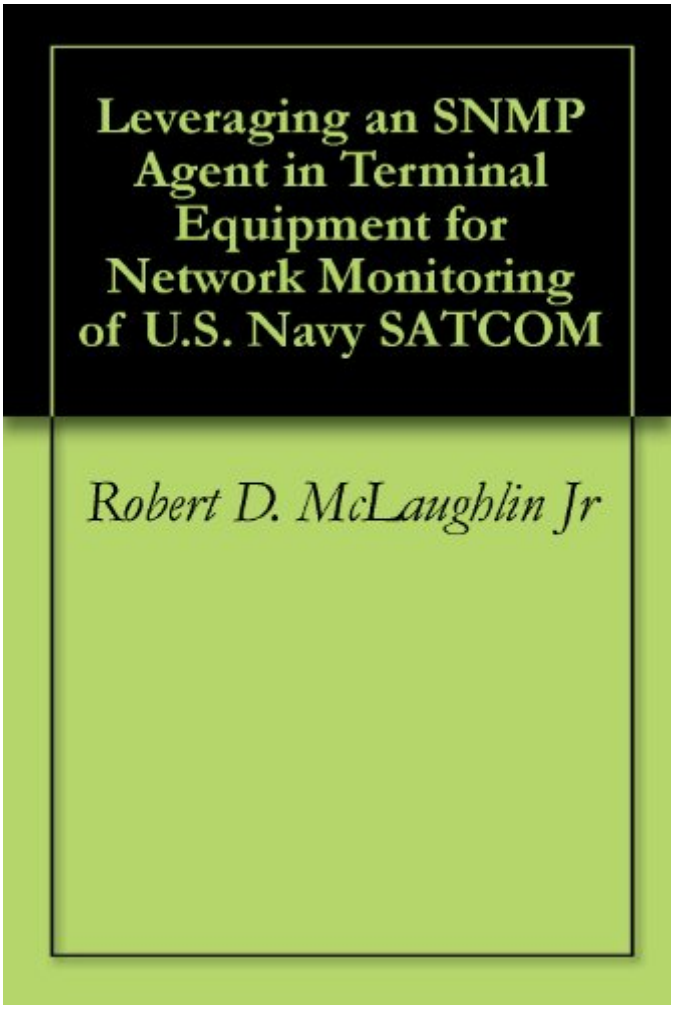

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Synopsis

This research describes and analyzes a United States Navy Satellite Communications (SATCOM) performance monitoring model in providing status information to a network monitoring console to support naval operations. The environment is characterized by potentially adverse conditions that affect satellite performance. Current SATCOM systems are unable to provide performance information to the networkâ ™s performance monitor because they are not Simple Network Management Protocol (SNMP) enabled and not integrated into the routable network. A network monitoring model defined by sense, decide, and act is central to this study. It represents enhanced monitoring by the subscriber stationâ ™s monitor console for naval shipboard operations. This model delivers operational and RF environmental information to the SNMP MIB environment so that commonly used SNMP agents can request and send information for sending proper messages to the networkâ ™s performance monitoring system. The proposed solution is explored through analysis of existing monitoring models together with observations of a tactical networking field experiment, in which equipment at the edge of the network and subscriberâ ™s SATCOM terminal is monitored for gathering critical performance details.

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