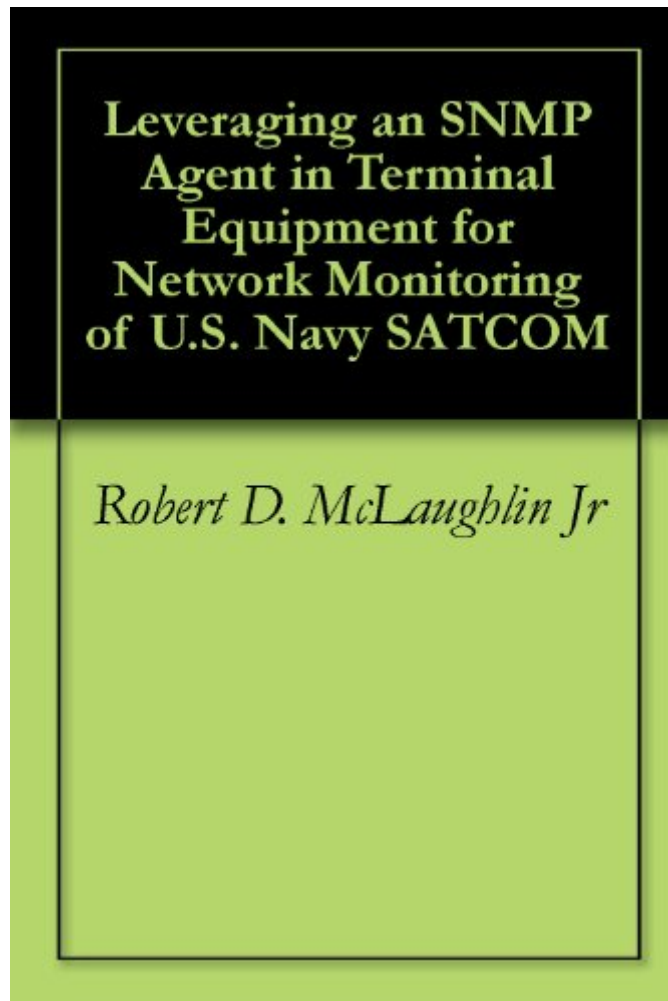


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Leveraging An SNMP Agent In Terminal Equipment For Network Monitoring Of U.S. Navy SATCOM



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 network'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 station'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 network'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 subscriber's SATCOM terminal is monitored for gathering critical performance details.

Book Information

File Size: 5234 KB

Print Length: 103 pages

Simultaneous Device Usage: Unlimited

Publication Date: February 18, 2012

Sold by: Digital Services LLC

Language: English

ASIN: B007B4M0J2

Text-to-Speech: Enabled

X-Ray: Not Enabled

Word Wise: Not Enabled

Lending: Not Enabled

Enhanced Typesetting: Enabled

Best Sellers Rank: #2,881,218 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #40

in Books > Computers & Technology > Networking & Cloud Computing > Networks, Protocols &

APIs > SNMP #1208 in Kindle Store > Kindle eBooks > Engineering & Transportation >

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