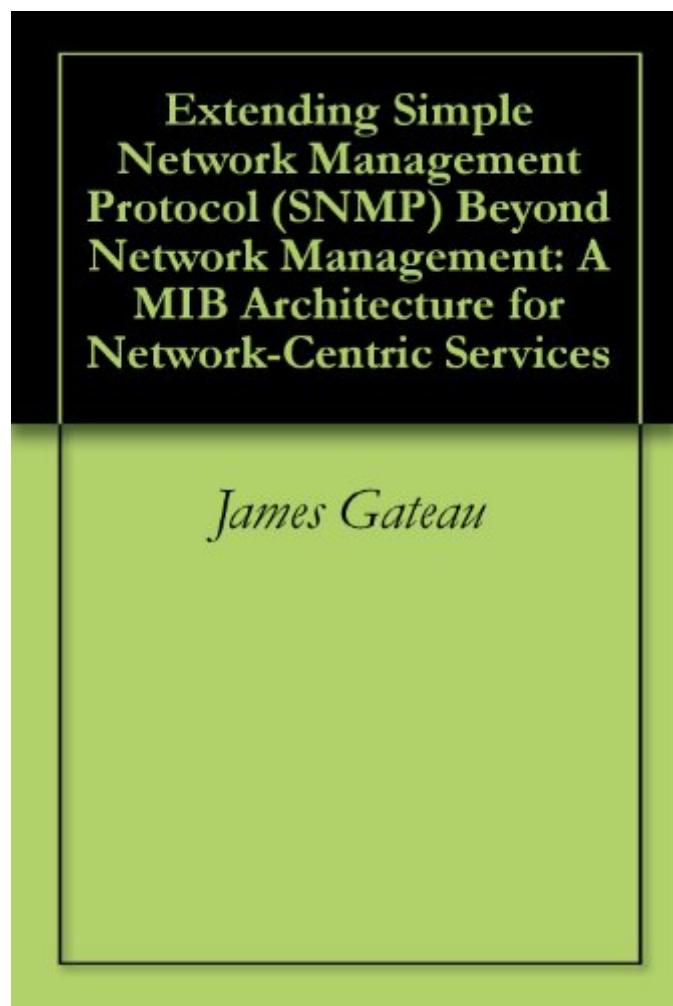


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# **Extending Simple Network Management Protocol (SNMP) Beyond Network Management: A MIB Architecture For Network-Centric Services**



## Synopsis

The promise of the Global Information Grid (GIG) includes connecting sensors, shooters and decision-makers who may not be physically co-located in a manner efficient for combat employment, decision-making and information sharing. Current information architecture strategies, such as Network-Centric Enterprise Services have started down one path, requiring the implementation of a Service Oriented Architecture (SOA) and all the requisite underpinnings thereof. These are, for an organization the size of the DoD, a very large problem set in and of themselves. An additional unfortunate side effect of choosing a conventional SOA as the backdrop for the GIG is that only those devices capable of running an entire web server/database stack are able to participate in the architecture, effectively excluding computationally constrained devices. Additionally, the connectivity requirements in a conventional SOA restrict participation by bandwidth-constrained and intermittently connected entities. This thesis investigates one possible solution, utilizing SNMP as the language and mechanism for sharing data between disparate systems. Specific decision-support MIBs will be developed to allow transmission of decision-specific information in both push (TRAP/SET) and pull (GET) directions.

## Book Information

File Size: 4172 KB

Print Length: 146 pages

Simultaneous Device Usage: Unlimited

Publication Date: April 14, 2012

Sold by: Digital Services LLC

Language: English

ASIN: B007UHGV0E

Text-to-Speech: Enabled

X-Ray: Not Enabled

Word Wise: Not Enabled

Lending: Enabled

Enhanced Typesetting: Enabled

Best Sellers Rank: #1,268,808 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #14 in Books > Computers & Technology > Networking & Cloud Computing > Networks, Protocols & APIs > SNMP #1008 in Books > Computers & Technology > Hardware & DIY > Design & Architecture #1672 in Kindle Store > Kindle eBooks > Computers & Technology > Hardware

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