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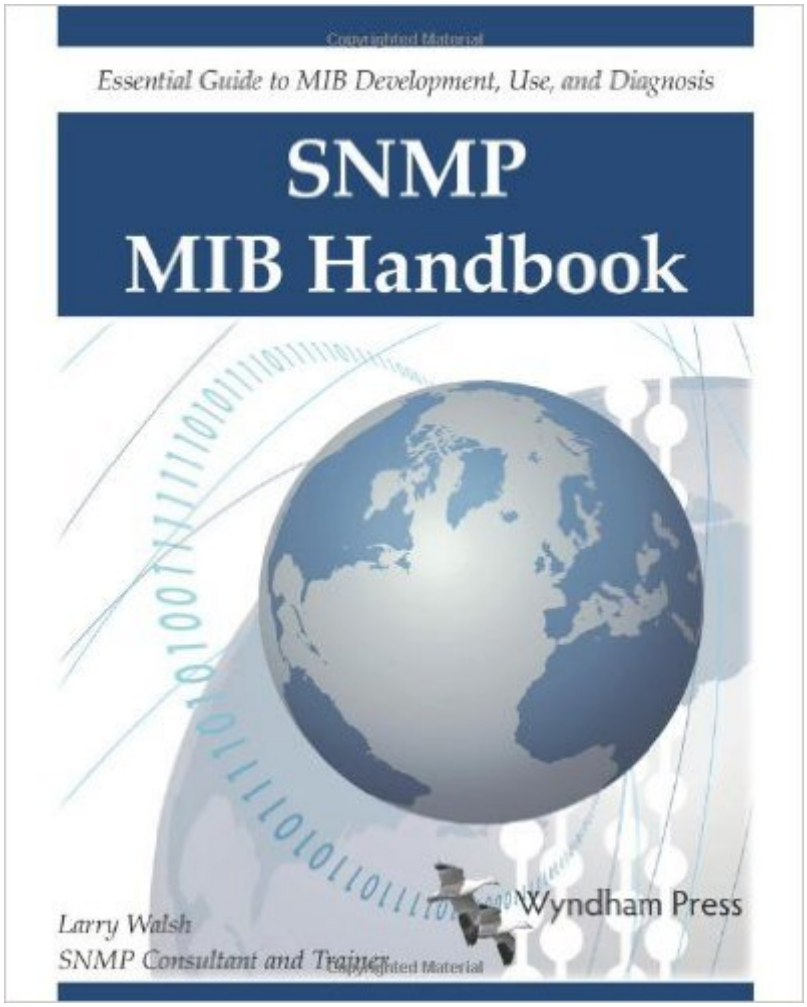
SNMP MIB Handbook



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Synopsis

Essential Guide to SNMP MIB Development, Use, and Diagnosis. The Simple Network Management Protocol (SNMP) allows Managers (software) to communicate with Agents (also software) on network-managed devices, to collect status, for configuration and control, and to receive unsolicited events (traps). A MIB (Management Information Base) is a file containing syntax defining data objects to be managed and traps to be sent. MIB objects and their values are the focus of the protocol. Simplicity of SNMP is the reason for its initial and continued success -- simple MIB objects define information sent using a simple message set. Yet it is flexible and scalable, used to manage small networks as well as large, distributed networks. This handbook is intended for developers (MIB and agent designers) and end-users (network engineers and IT-management specialists). It serves as an instructional manual and as a reference, and contains case descriptions, examples, practical advice, clear descriptions of standards, user exercises and quiz questions. It is an important book for anyone involved with SNMP, suitable for those new to the protocol as well as for experienced practitioners.

Book Information

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Customer Reviews

Let me start simple: I’m neither a book author nor a professional "reviewer".The only reason for this review -- and yes, this is my very first one -- is that I’m truly impressed with "SNMP MIB Handbook". Let me try to explain how did I happen to find it -- and why do I consider it "The Bible of MIB Design".My recent task was (well, still is :)) to design an architecture for Enterprise Infrastructure

Management, where the term "Infrastructure" is broad and a little bit vague (or should I say: "yet to be defined"? :)) -- but at the very least it includes hardware, software and essential business processes. SNMP, by no surprise, is one of several "ways to go" -- so I decided to refresh my SNMP knowledge.After reading some introductory tutorials and not-so-introductory books, it occurred to me that something is missing, while 80% of information is "covered" again and again. Everybody talks about familiar subject: SNMP history, the fact that SNMP is based on UDP -- and how it is encapsulated; differences between SNMPv1, SNMPv2c and SNMPv3, the internal format of different types of SNMP messages, what is MIB, the concept of TRAP (notification), how to configure and use various commercial or freeware SNMP tools, etc.What's missing then? Here is the short answer: nobody tells you how to DESIGN *your* MIB.Let me make an analogy: there are plenty books on English Grammar; there are also quite a few on different reading "techniques". But how many books will teach you writing? Not writing in general, but writing *good prose* or *nice poems*? There you are!Does it matter? Well, as usual, it depends. If your job is to *use* already existing MIBs -- that's one thing. But what if you have to *create* (i.e.

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