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SNMP Over Wi-Fi Wireless Networks



Synopsis

This is a NAVAL POSTGRADUATE SCHOOL MONTEREY CA report procured by the Pentagon and made available for public release. It has been reproduced in the best form available to the Pentagon. It is not spiral-bound, but rather assembled with Velobinding in a soft, white linen cover. The Storming Media report number is A470514. The abstract provided by the Pentagon follows: Simple Network Management Protocol (SNMP) allows users of network equipment (i.e. Network Administrators) to remotely query the state of any device being tested for system load utilization and configuration. Windows NT windows 2000 and Windows XP Processional are all equipped with SNMP service so that an SNMP manager can communicate with an SNMP agent running on a wireless 802.11b client. However the rest of Windows operating systems including Windows CE and a Pocket PC have to run third party proxy SNMP agents in order to be recognized by an SNMP management application. This thesis describes an implementation of a Pocket PC SNMP agent for two Pocket PC mobile devices accessing a wired network via an 802.11b wireless link. As a result of the implementation performed in this thesis an SNMP manager can wirelessly communicate with a Pocket PC client. However other results found that only some of the commercially available SNMP managers are able to access the mobile SNMP client and its management information base due to incompatible implementations of the server and client software.

Book Information

Spiral-bound: 108 pages

Publisher: Storming Media (2003)

Language: English

ISBN-10: 1423503287

ISBN-13: 978-1423503286

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