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**MIB DESIGN TOOL IN XML-BASED NETWORK  
MANAGEMENT SYSTEM**

**Prachyarat Rodmanee**

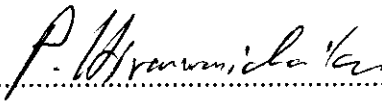
**A Thesis Submitted in Partial  
Fulfillment of the Requirements for the Degree of  
Master of Science (Computer Science)  
School of Applied Statistics  
National Institute of Development Administration**

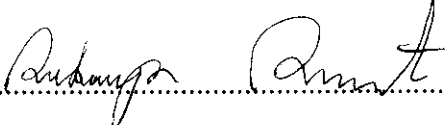
**2007**

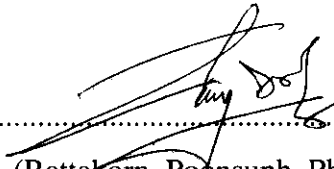
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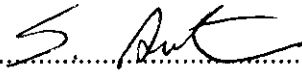
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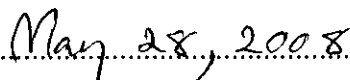
The Examining Committee Approved This Thesis Submitted in Partial  
Fulfillment of the Requirements for the Degree of Master of Science (Computer  
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Associate Professor.......... Committee Chairman  
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## ABSTRACT

<b>Title of Thesis</b>	MIB Design Tool in XML-Based Network Management System
<b>Author</b>	Miss Prachyarat Rodmanee
<b>Degree</b>	Master of Science (Computer Science)
<b>Year</b>	2007

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This research is aimed to create the application tool for designing Management Information Bases (MIBs) in the XML-based network management system. Furthermore, an XML schema which defines the structure of management information for the XML MIBs is also introduced. The proposed XML schema is conformed to SMI v2 (Structure of Management Information version 2) to ensure the necessary standards are covered. Additionally, The XML MIBs aid designing tool is also proposed. The tool represents underlying MIBs document in a tree view and helps user design MIBs structure with the graphical user interface interaction, besides, the MIBs document can be validated and automatically generated according to the design.

With the tool, many parts of design process could be automated; the tool decreases the design time, ease the design task, and further more the accurate MIBs document could be automatically generated with the validation during design phase.

## **ACKNOWLEDGEMENTS**

The author would like to express sincere thanks to my major advisor, Dr.Pipat Hiranvanichakorn, for his valuable suggestion, continuous, support, encouragement and guidance in making this thesis a successful one. Besides my advisors, I would like to thank the rest of my thesis committee, Dr.Sukanya Suranauwarat and Dr.Rattakorn Poonsuph, for their thoughtful comments and suggestions.

Prachyarat Rodmanee

May 2008