

CHAPTER 1: BOOT CAMP.....	1
WHAT IS WMI?	1
HOW DOES HARDWARE INVENTORY WORK?	3
WHAT ARE MOF FILES?.....	6
CHAPTER SUMMARY	9
CHAPTER 2: INTRODUCING THE SMS_DEF.MOF	11
THE MENU TO HARDWARE INVENTORY	11
A LOOK INSIDE THE SMS_DEF.MOF.....	13
DECLARATIONS.....	13
CLASS LEVEL REPORTING PROPERTIES	14
FIELD LEVEL REPORTING PROPERTIES.....	14
SPECIAL ORDERS	16
CHAPTER SUMMARY	21
CHAPTER 3: SMS_DEF.MOF SYNTAX	23
COMPILING WITH MOFCOMP	23
COMMENTS	25
DEFINITIONS	27
NAMESPACES	27
DATA CLASSES	28
REPORTING CLASSES	29
INSTANCES	29
PROVIDERS	30
SMS_DEF.MOF STRUCTURE RECAP	30
BASIC MOF MODIFICATION STEPS	31
CHAPTER SUMMARY	36
CHAPTER 4: INTRODUCTION TO WMI MANIPULATION	37
THE BASIC STRUCTURE OF WMI	37
WMI DATA CLASSES.....	39
KEY FIELDS	40
USING TOOLS TO ACCESS WMI.....	41
WBEMTEST.....	41
CIM STUDIO	46
SCRIPTOMATIC VERSION 2.....	47
WMI CODE CREATOR VERSION 1	50
WMI MANIPULATION METHODS	52
CHAPTER SUMMARY	55
CHAPTER 5: REPORTING ON AN EXISTING CLASS.....	56
STRUCTURE OF A REPORTING CLASS	58
CHAPTER SUMMARY	68
CHAPTER 6: REGISTRY PROPERTY PROVIDER	70
WHEN TO USE THE REGISTRY PROPERTY PROVIDER	70
CHAPTER SUMMARY	79
CHAPTER 7: THE REGISTRY INSTANCE PROVIDER.....	80
WHEN TO USE THE REGISTRY INSTANCE PROVIDER	80

CHAPTER SUMMARY	87
CHAPTER 8: USING THE VIEW PROVIDER.....	88
ACCESSING NAMESPACES OTHER THAN <i>ROOT\CIMV2</i>	88
USING WQL QUERIES TO FILTER WMI INFORMATION	95
CHAPTER SUMMARY	96
CHAPTER 9: STATIC HARDWARE INVENTORY EXTENSIONS	97
STATIC MOF FILES	97
NOIDMIF AND IDMIF FILES IN GENERAL	99
NOIDMIF FILES	101
IDMIF FILES	104
CHAPTER SUMMARY	106
CHAPTER 10: SCRIPTED HARDWARE INVENTORY EXTENSIONS	107
STATIC FILE SCRIPTED EXTENSIONS	107
SCRIPTS THAT WRITE DIRECTLY TO WMI	117
CHAPTER SUMMARY	119
CHAPTER 11: IT'S BETTER TO TEST NOW THAN BE TESTY LATER	120
VERIFY THE MOF SYNTAX WITH MOFCOMP	122
COMPILE THE MOF ON A TEST MACHINE	125
USE WBEMTEST TO CHECK FOR THE CLASS	126
INITIATE A HARDWARE INVENTORY	128
VERIFY THE HARDWARE INVENTORY PROCESS	129
VERIFY THE DATA ON THE SMS SITE SERVER	130
CHAPTER SUMMARY	132
CHAPTER 12: PULLING THE TRIGGER.....	133
BACK UP THE ORIGINAL SMS_DEF.MOF	133
REPLACE THE ORIGINAL SMS_DEF.MOF ON THE SITE SERVER	133
UPDATE THE SITE HIERARCHY	133
SMS_DEF.MOF UPDATES: BEHIND THE SCENES	134
SMS_DEF.MOF BACK UPS: GOOD AND BAD	135
USING A MINI-MOF	136
CHAPTER SUMMARY	137
CHAPTER 13: CLEANING UP	138
CLEAN UP THE SMS_DEF.MOF ON THE SITE SERVER	139
REMOVE THE UNNECESSARY WMI CLASSES FROM YOUR CLIENTS	139
REMOVE THE CLASS DATA FROM THE DATABASE	141
DELGRP	141
SMS EXPERT'S SITE SWEEPER UTILITY	146
CHAPTER SUMMARY	149
CHAPTER 14: TROUBLESHOOTING AND TIPS.....	150
LOG TAG	150
MOF EDITING ERRORS	155
MOFCOMP ERRORS	157
SQL DATABASE ERRORS	158
TROUBLESHOOTING WMI	159

WMI DIAG	162
SOME TIPS AND OTHER SILLY MOF TRICKS.....	162
CREATE CUSTOM REMINDERS	162
BE #PRAGMATIC.....	163
BYPASS MOFCOMP	164
THE MIN MONSTERMOF.....	165
MORE TIPS AND TRICKS.....	166
CHAPTER SUMMARY	168
CHAPTER 15: MOF EDITING IN 15 MINUTES.....	170
INTRODUCING THE SMS_DEF.MOF.....	170
WINDOWS MANAGEMENT INSTRUMENTATION	171
HARDWARE INVENTORY PROCESS	172
MODIFYING THE MOF	173
REPORTING ON AN EXISTING DATA CLASS	174
REGISTRY PROVIDERS.....	175
THE VIEW PROVIDER	178
STATIC HARDWARE INVENTORY EXTENSIONS.....	179
SCRIPTED HARDWARE INVENTORY EXTENSIONS	181
COMMENTS	182
COMPILING THE MOF.....	183
DISTRIBUTING MOF UPDATES.....	184
CHAPTER SUMMARY	185