
CONTENTS

PREFACE

Purpose of This Book	xi
Finding GIGAswitch Information	xi
Finding Firmware Information	xi
Organization of This Book	xii
Related Documentation	xiii
Conventions	xvi
Documentation Comments	xvii
How to Order Additional Documentation	xviii

1 HUBwatch for Windows Installation

Overview	1-1
HUBwatch Software References	1-1
Valid Configurations	1-1
Preinstallation Considerations	1-2
Hardware Requirements	1-2
Firmware Requirements	1-3
Software Requirements	1-3
Network Parameters	1-3
Is the Distribution Kit Complete?	1-4
Installing HUBwatch for Windows	1-5
About This Procedure	1-5
Task 1: Starting the Procedure	1-5
Task 2: Selecting the Installation Option	1-6
Task 3: Specifying the Installation Files Location ..	1-8
Task 4: Selecting an Icon	1-9
Task 5: Modifying System Files	1-9
Task 6: Selecting the Drive and System File Path ..	1-10
Task 7: (Optional) Specifying Network Configuration Parameters	1-11

Task 8: (Optional) Specifying the Network Startup	
Command Location	1-14
Task 9: (Optional) Digital ManageWORKS	
Workgroup Administrator	1-14
Task 10: Exiting the Installation Procedure 1-18
Task 11: (Optional) Installing and Using the Online	
Tutorial	1-18
Task 12: Before Starting HUBwatch for Windows ..	1-19
Files Changed and Created During Installation	1-23
Post-Installation Tasks	1-24
Network Files Provided	1-29

2 HUBwatch for OpenVMS Installation

Overview	2-1
HUBwatch Software References	2-1
Valid Configurations	2-2
Preinstallation Requirements	2-3
Installation Time	2-3
Hardware Requirements	2-3
Software Requirements	2-3
Optional Software.....	2-4
Firmware Requirements	2-5
Memory Requirements	2-5
Disk Space Requirements	2-5
Account Privileges and Quotas	2-6
Preinstallation Tasks	2-7
Read the Release Notes	2-7
Is the Distribution Kit Complete?	2-7
Back Up the System Disk	2-8
Install the HUBwatch License	2-8
Set Up DEC TCP/IP Services for OpenVMS VAX .	2-8
VMSINSTAL Overview	2-9
VMSINSTAL Guidelines	2-9
Installing HUBwatch for OpenVMS	2-10
Task 1: Starting the Procedure	2-10
Task 2: Confirming System Disk Backup	2-12
Task 3: Reading the Release Notes	2-12
Task 4: Do You Want To Run the IVP?	2-13
Task 5: Purging Files	2-14
Task 6: Answering HUBwatch-Specific Questions .	2-14

Task 7: Reading Installation Messages	2-17
Task 8: Providing SNMP Information	2-19
Task 9: Running the IVP	2-19
Installation Error Messages	2-22
Post-Installation Tasks	2-24
About the IVP	2-24
Task 1: Running the IVP Separately	2-24
Task 2: Installing HUBwatch Help Files Separately	2-27
Task 3: Editing the System Startup Command Procedure	2-26
Task 4: Modifying DECMCC Version 1.2 Files	2-26
Starting HUBwatch as a Standalone Application	2-28
HUBwatch Logicals	2-28
Command Syntax	2-28
Command Variables	2-29
The First Time You Start HUBwatch	2-29
Starting Subsequent HUBwatch Sessions	2-29
Initial Display	2-30
Steps	2-30
Starting the Poller and the Events Viewer	2-31
Poller Command Syntax	2-31
Events Viewer Command Syntax	2-31

3 HUBwatch for Digital UNIX Installation

Overview	3-1
Valid Configurations	3-1
Preinstallation Requirements	3-2
Installation Time	3-2
Is the Distribution Kit Complete?	3-2
Back Up the System Disk	3-2
Hardware Requirements	3-2
Memory Requirements	3-2
Disk Space Requirements	3-3
Firmware Requirements	3-3
Software Requirements	3-3
Optional Software	3-4
License Requirements	3-4
Reinstalling or Upgrading the HUBwatch for Digital UNIX	
Software	3-5
Deleting Subsets	3-5

Installing HUBwatch for Digital UNIX from the Distribution	
Media	3-6
Steps	3-6
Installing HUBwatch for Digital UNIX from a Remote	
Installation Server	3-12
Steps	3-12
Installation Errors	3-15
Conditions That Cause Installation Problems	3-15
Where to Find Error Message Descriptions	3-15
Post-Installation	3-16
IVP Command	3-16
Starting HUBwatch for Digital UNIX as a Standalone	
Application	3-17
Set the Environment Variables	3-17
Command Variables	3-17
The First Time You Start HUBwatch	3-18
Starting Subsequent HUBwatch Sessions	3-18
Initial Display	3-18
Steps	3-19

4 Preparing for Configuration

Configuration Overview	4-1
Terminology	4-1
SNMP Agents	4-2
Agent Selection Guidelines	4-2
HUBwatch Agent Requirements	4-3
90-Series Agents in a DEChub 900MS	4-4
Standalone Modules and Their Agents	4-4
Configuring Hubs	4-5
Diagram: DEChub 900MS Configuration	4-5
Diagram: DECrepeater 90FS and 90TS Configuration	4-8
Diagram: DECagent 90 Configuration	4-9
Diagram: Standalone Module Configuration	4-10

5 Network Module Configuration

Overview	5-1
Configuration Considerations	5-2
Modules Not Directly Manageable In This	
HUBwatch Version	5-2
When You Configure a Network Module.....	5-2
References	5-2
Configuring SNMP Agents	5-3
DEChub 900MS Hub Manager Requirements	5-3
Procedure: DEChub 900MS Hub Manager	
Configuration	5-4
Procedure: 900-Series Module Configuration	5-6
Procedure: DECagent 90 Agent Configuration	5-8
Procedure: DECbrouter 90T1, 90T2, or 90T2A	
Configuration	5-11
Procedure: DECrepeater 90FS and DECrepeater 90TS	
Configuration	5-13
Procedure: DECserver 90TL, 90M, 900TM, or	
900GM Configuration	5-16
After You Configure SNMP Agents	5-18
Adding Agent Information	5-19
When to Use	5-19
Which Windows to Use	5-19
Community Table Window	5-20
Add Agent Window	5-21
Steps: Adding Agent Information	5-22
More Information	5-23
Adding Module Information	5-24
What to Use	5-24
Add Module Window	5-24
Special Conditions	5-26
Steps: Adding Module Information	5-26
More Information	5-27
Configuring 900-Series Modules	5-28
References	5-28
Steps: 900-Series Module Configuration	5-29
Steps: DECserver 900TM Configuration	5-30
Configuring a DECagent 90	5-31
References	5-31
DECagent 90 Configuration	5-32
Configuring 90-Series DECbridges.....	5-33
Remote Repeaters Require a DECbridge	5-33

References	5-33
Steps: DECbridge 90 and 90FL Configuration	5-33
Configuring 90-Series DECbrouters	5-36
References	5-37
Steps: DECbrouter 90T1, 90T2, and 90T2A	
Configuration	5-37
Configuring 90-Series DECrepeaters	5-39
References	5-39
Steps: DECrepeaters 90C, 90FA, 90FL, 90T,	
90T-16, 90T+ Configuration	5-40
Steps: DECrepeater 90FS and 90TS Configuration ..	5-42
Configuring 90-Series Access Servers	5-43
References	5-43
Steps: DECServers 90L and 90L+ Configuration ..	5-43
Steps: DECservers 90TL and 90M Configuration ..	5-46

A HUBwatch as an Add-On Application

Overview	A-1
Launching HUBwatch for OpenVMS from POLYCENTER ..	A-2
Compatible DECmcc Versions	A-2
Steps: POLYCENTER Launch	A-2
Launching HUBwatch for Windows from HP OpenView	A-4
Launching HUBwatch for Windows from Novell NMS	A-5
Launching HUBwatch for Digital UNIX from	
POLYCENTER NetView	A-6
HUBwatch as Add-on Alarms and Events	A-7

B HUBwatch for Windows and SLIP Protocol

Overview	B-1
All SLIP Connections	B-2
Steps: All SLIP Configurations	B-2
Using a SLIP Connection Through an Access Server	B-3
Steps: Connecting Through an Access Server	B-3
Steps: Exiting the SLIP Session	B-5
Using a SLIP Connection to a DECAgent 90	B-7
Steps: Connecting with SLIP to a DECAgent 90	B-7
Steps: Exiting the SLIP Session	B-8
Using a SLIP Connection to a DEChub 900MS OBM Port ..	B-9

Steps: Connecting with SLIP to a DEChub 900MS	
OBM Port	B-9
Steps: Exiting the SLIP Session	B-10

C HUBwatch for Windows with a PATHWORKS Network

Overview	C-1
Using HUBwatch with PATHWORKS	C-2
Setting Up Your TCP/IP Network with	
PATHWORKS	C-2
Steps: Setting Up Your DECnet Version 5.x Network	
with HUBwatch TCP/IP Stack	C-2
Steps: Setting Up Your DECnet Version 4.x Network	
with HUBwatch TCP/IP Stack	C-3
Setting Up PATHWORKS for a SETHOST/TELNET Console	
Session	C-4

D HUBwatch for Windows Installation Troubleshooting

Overview	D-1
Checking the Network Connection to the Hub or Module	D-2
Steps	D-2
Checking the HUBwatch Installation	D-4
Steps	D-4
Checking the NDIS Network Installation	D-7
Steps	D-7
Checking the SLIP Network Installation	D-13
Steps	D-13
Checking Other Network Interface Card Setup	D-15
Steps	D-15
PROTOCOL.INI File Description	D-15
PROTOCOL.INI File Guidelines	D-16
PROTOCOL.INI Example	D-16
Checking the HP OpenView Setup	D-17
HUBwatch Does Not Launch From HP OpenView ..	D-17

E Modules that HUBwatch Manages

Manageable Modules	E-1
Modules That HUBwatch Manages	E-1
Modules Managed Through Other Applications	
Launched by HUBwatch	E-2

Index