

Unicenter[®] System Watchdog for OpenVMS I64

Installation Guide

r2.5



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Chapter 1: Introduction

The Unicenter® System Watchdog for OpenVMS I64 (Unicenter SW for OpenVMS) software provides tools that help operations personnel manage computer-related problems that can occur in a data center. Using the software, operators and system managers can monitor multiple system activities from one terminal, identify potential problems, and quickly intervene or correct the problems. Unicenter SW for OpenVMS also provides the ability to automate user-written corrective actions.

Keep this document with your distribution kit. You need it to install the Watchdog Manager on your local OpenVMS system and to install the Watchdog Agent on all OpenVMS nodes that are monitored.

This section contains the following topics:

[Use of This Installation Guide](#) (see page 7)

[Kit Names](#) (see page 8)

Use of This Installation Guide

This guide is for system managers who are installing Unicenter System Watchdog for OpenVMS and for system administrators who are looking for an overview of these products. It contains information about installing and using the product. You should read this guide completely before you begin the installation.

Note: A complete set of Unicenter SW for OpenVMS documentation is available in Adobe's Portable Document Format (PDF) and Hypertext markup language (HTML) on the application DVD-ROM disk, and also online at <http://supportconnect.ca.com> <http://supportconnect.ca.com>.

Kit Names

The kit names incorporate the product name, service pack level, kit date, and version.

The kit names follow this format:

USWXXX-UNI-0000-YYMMDD-V025

USWXXX-UNI

Represents the product name.

0000

Represents the service pack level.

YYMMDD

Represents the year, month, and date.

V02X or V025

Represents the version number.

Chapter 2: Watchdog Agent Installation

This section contains the following topics:

[Watchdog Agent Pre-Installation Preparations](#) (see page 9)

[Install Watchdog Agent](#) (see page 11)

[Post-Installation Tasks](#) (see page 21)

[Watchdog Agent Sample Installation Log](#) (see page 26)

Watchdog Agent Pre-Installation Preparations

The Watchdog Agent installation requires several steps to ensure that your environment is properly prepared for installation. Be sure that all of the requirements described in this section are met before you begin.

Before installing Watchdog Agent, be sure to complete the following procedures:

- Review the hardware and software requirements, privileges, and disk space.
- Check your system privileges for the proper settings.
- Review system parameters and settings.
- Understand the installation account requirements.
- Back up the system disk.

Installation of the Watchdog Agent takes from two to five minutes, depending on your system. This time includes running the Installation Verification Procedure (IVP).

Hardware and Software Requirements

The hardware and software requirements for installing Watchdog Agent are as follows:

- At least 132,000 blocks of available disk space
- OpenVMS I64 operating system running version 8.2-1 or 8.3

- Minimally supported TCP/IP Stacks:
 - HP TCP/IP Services (HP OpenVMS v8.2-1): TCP/IP v5.5
 - HP TCP/IP Services (HP OpenVMS v8.3): TCP/IP v5.6
 - Process Software TCPware v5.7-1 or v5.7-2
 - Process Software MultiNet v5.1 or v5.2

Privileges

Installation of Watchdog Agent requires the standard privileges to run the VMSINSTAL utility. For a list of the required privileges for an OpenVMS installation, see HP's *OpenVMS System Managers* manual.

Important: VMSINSTAL turns off the BYPASS privilege at the start of the installation.

Disk Space Requirements

The following information gives the approximate disk space required to install Watchdog Agent and run it after installation. The disk space required for the installation does not include the disk space required for profiles and log files.

- Blocks During Installation: 125,000
- Blocks After Installation: 11,000

If you need to find the available space on your system disk, use the following command:

```
$ SHOW DEVICE SYS$SYSDEVICE
```

Required System Parameter Values and Watchdog Agent Settings

The Watchdog Agent installation requires certain system parameter settings. You may need higher values for some parameters, depending on the types of programs and applications running at your site. The following system parameters show the minimum required values to install Watchdog Agent:

GBLPAGES

Minimum of 250 available pages

GBLSECTIONS

Minimum of 8 available sections

Installation Account Requirements

When you run the installation procedure, it checks whether you have done the following tasks:

- Logged in to a privileged account
- Determined adequate quotas for the installation
- Found other users logged in on the system
- Set the following minimum account quotas:

Quota	Installation Account	Product Startup Account
ASTLM	24	200
BIOLM	18	150
BYTLM	32768	32768
DIOLM	18	150
ENQLM	30	300
FILLM	20	100
TQELM	2	10
PRCLM	2	10
PGFLQUOTA	10000	100000

If the installation procedure detects a problem during the installation, it notifies you and asks if you want to continue the installation. To stop the installation process, enter NO or press Return. Restart the installation after you have corrected the problem.

System Disk Backup

At the beginning of the installation, the installation process asks if you have backed up your system disk. We recommend that you back up the system disk before installing any software. Use the backup procedures that are established at your site.

Install Watchdog Agent

This section contains all the procedures and information necessary to install the Watchdog Agent.

Online Release Information

Included with the System Unicenter SW for OpenVMS software are the Readme and Release Summary, also referred to as the Release Notes. CA recommends that you read the Readme and the Release Summary before you install the software. You can print these documents from the DVD-ROM before the installation.

After you complete the installation, use the following command to see the release information location:

```
$ HELP SENSE WATCHDOGS Release_Notes
```

The installation always copies the release information to SYS\$HELP by default.

Previous Versions of Watchdog

Before installing components of Unicenter SW for OpenVMS, you should stop any previous version running on your system. After starting the installation, if there are active processes, the installation procedure displays them and asks if you would like to continue. Answering YES lets you continue the installation procedure, while NO stops the installation.

Note: Unicenter SW for OpenVMS was previously known as WatchIT, Unicenter TNG Event Manager, and System Monitor.

Stop the Installation

You can manually stop the installation at any time for any reason. If you stop the installation, all Unicenter SW for OpenVMS Manager files that had been installed to that point are removed. If you want to restart the installation after stopping, you must repeat the entire installation procedure.

To stop the installation, press Ctrl+Y.

How You Install Watchdog Agent

The installation consists of a number of steps designed to check your system, install Watchdog Agent, and then initialize Watchdog Agent. To install Watchdog Agent on your OpenVMS I64 system, you must complete the following tasks in the following order:

1. Mount the distribution media (DVD)
2. Run the installation procedure

3. Specify a temporary directory to unzip the savesets
4. Check your system backup
5. View and accept the License Agreement
6. Start Watchdog Agent after the installation
7. Run the Installation Verification Procedure
8. Purge previous version files
9. Check the resource quotas
10. Specify the name of the OpenVMS cluster
11. Shut down previous versions that are already running
12. Specify the CA Common Services Integration components location
13. Specify the UIC for the CAUNIVMS account
14. Activate the Unicenter Common Services Integration components
15. Choose Products for Automatic Startup After Installation
16. Specify the Unicenter NSM Manager system

Many of the installation steps are optional, but you have to make an entry during the step. For example, when presented with a question during the installation, you have to answer YES or NO to continue the installation.

Note: If the installation stops for any reason, see Error Messages and Recovery (page 21).

Step 1. Mount the Distribution Media

The Unicenter SW for OpenVMS DVD-ROM can be mounted on OpenVMS or on Windows. For OpenVMS, insert the DVD-ROM in the DVD-ROM reader and type the following command:

```
$ mount/over=id device
```

device

This is the name of the DVD-ROM reader device.

For example, if the DVD-ROM reader is DQA0, the command would be:

```
$ mount/over=id dqa0:
```

Step 2. Run the Installation Procedure

Using the SYSTEM account, run the installation procedure on the OpenVMS system by typing the following command:

```
$ run device:[000000]setup_ia64.exe
```

This command launches an installation menu where you can install the components.

Step 3. Specify a Temporary Directory to Unzip the Savesets

The installation procedure allows you to choose the temporary directory used for the savesets and installation files. Choose a device and directory with at least 310,000 free blocks. The following example shows how to select a device and directory:

```
* Enter the device and directory to unzip the save-sets, 310000 blocks of temp  
space needed [sys$common:[CA$SETUP]]:
```

Step 4. Check Your System Backup

You should always back up your system disk before installing any new software. If you need to restore your former system settings, you want the most current information saved. To ensure you have a good backup, the installation asks if you are satisfied with your backup. Select one of the following responses:

YES

If you are satisfied with the backup of your system disk, press Return to accept the default YES.

NO

Type NO and press Return to stop the installation. Back up your system disk, and then restart the installation.

Step 5. View and Accept the License Agreement

You must accept the terms of the license agreement before the installation process begins.

To view and accept the license agreement

1. Type V to view the license agreement.

Note: The license agreement is several pages long.

2. Select one of the following responses to accept or reject the terms and conditions of the agreement:

YES

The installation continues.

NO

The installation stops.

Step 6. Start Watchdog Agent After the Installation

During the installation process you can choose to start or not start Watchdog Agent after the installation completes.

Note: If you choose not to start Watchdog Agent after installing it, but you run the Installation Verification Procedure (IVP), the IVP starts Watchdog Agent before it can run.

If this is the first time you are installing Watchdog Agent on your system, you are asked if you want the software to start right after the installation. Select one of the following responses:

YES

Watchdog Agent is started after the installation.

NO

Watchdog Agent is not started after the installation.

If this installation is an upgrade from a previous version, you are presented with information that the installation detected a previous version, and that the version you are installing is newer than the already installed version. The installation asks if you want to continue. Select one of the following responses:

YES

The installation continues.

NO

The installation terminates.

Step 7. Run the Installation Verification Procedure

After the installation, the Installation Verification Procedure (IVP) checks to ensure that the installation was successful. It starts the Watchdog Agent and performs function tests. We recommend that you run the IVP, so the installation gives you the opportunity by asking if you want to run it after completing the installation. Select one of the following responses:

YES

The IVP runs after the installation completes.

NO

The IVP does not run after the installation completes.

Note: If you choose not to run the IVP during the installation, you can run it at any time after the installation completes by entering the following command:

```
$ @SYS$TEST:USW$MANAGER$IVP.COM
```

Step 8. Purge Previous Version Files

You can purge files from previous versions of the product that are superseded by this installation. We recommend that you purge your old files; however, if you need to keep files from a previous version you can choose to not purge your files. The installation asks if you want to purge files replaced by this installation. Select one of the following responses:

YES

The files related to earlier versions of the product are purged after the installation completes.

NO

The files related to earlier versions of the product are left on the system after the installation completes.

Step 9. Check Resource Quotas

The installation also checks various resource quotas that are granted to the user process running the installation. If any are found to be below the required minimum, you receive messages stating the issues encountered and you are asked if you want to continue anyway.

YES

The installation continues.

NO

The installation terminates.

The following is an example of how the installation might notify you of low resource quotas:

```
BIOLM value 100 is too low for the account doing the startup.  
The required value for BIOLM is 150.  
DIOLM value 100 is too low for the account doing the startup.  
The required value for DIOLM is 150.  
TQELM value 2 is too low for the account doing the startup.  
The required value for TQELM is 10.
```

Note: If you receive quota messages like the previous examples, Unicenter SW for OpenVMS will not start at end of the installation procedure regardless if you chose to do so in [Step 6](#) (see page 15).

If the installation found quotas below the required minimum use the OpenVMS AUTHORIZE utility to increase the applicable resource quotas before you start either component.

Step 10. Specify the Name of the OpenVMS Cluster

If your system is a member of an OpenVMS cluster, the installation might display the following information and question:

```
This node is an OpenVMS Cluster member, though the SYS$CLUSTER_NODE logical name  
is not defined. For Watchdog Manager Cluster events consolidation purposes, you  
should specify an alias for this Cluster.
```

```
Watchdog Manager may use the SNS$CLUSTER_NAME logical name translation as an  
alternative to SYS$CLUSTER_NODE, if defined at startup time.
```

```
The SNS$CLUSTER_NAME logical name definition will be inserted in the product  
startup procedure...
```

```
* Enter a name for this cluster (<Return> for none)
```

Enter a value for the cluster name. You should use this same value when installing the Watchdog Agent on other members of the same cluster. If you press Return without specifying a name, no name is assigned to the cluster.

Step 11. Shut Down a Previous Version

If you have a previous version of Watchdog Agent that is currently running, the installation states that the processes are still active, must be stopped, and asks if you want to stop them. Select one of the following responses:

YES

The installation process stops the previous version of Watchdog Agent.

NO

The installation stops.

Note: You receive a comment and question for each older version or component that is currently active on your system, so you might have to repeat this step more than once. The installation continues after all processes are stopped.

Step 12. Specify the Unicenter Common Services Integration Components Location

If the Unicenter Common Services Integration components are not already installed, the installation prompts you to specify where to install them by displaying the following note and prompt:

**** NOTE ****

If you are installing on a cluster that has mixed versions, mixed architectures, or uses different IP stacks in the cluster, you **MUST** install on SYS\$SPECIFIC. Otherwise, you may use the default of SYS\$COMMON.

* Enter the full pathname for the Unicenter Common Services root directory [SYS\$COMMON:[UNIVMS]]:

Enter the location and press Enter.

The messages you see should look similar to the following example.

```
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
SYS$COMMON:[UNIVMS].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory CAPOLY$BIN.
%VMSINSTAL-I-SYSDIR, This product creates system disk directory CAPOLY$TMP.
%VMSINSTAL-I-SYSDIR, This product creates system disk directory CAPOLY$DATA.
%VMSINSTAL-I-SYSDIR, This product creates system disk directory CAPOLY$LOGS.
COMMON install complete
```

Step 13. Specify the UIC for the CAUNIVMS Account

The CAUNIVMS account is needed to support the remote commands from the Unicenter Management station. If the Unicenter Common Services Integration components are not already installed, the installation prompts you to specify the User Identification Code (UIC) for the CAUNIVMS account.

Enter the UIC and press Enter.

Step 14. Activate the Unicenter Common Services Integration Components

The installation asks if you want to activate the Unicenter Common Services Integration components. Select one of the following responses:

Yes

The Integration components are activated. The installation prompts you for the name of the Unicenter Management station.

No

The Integration components are not activated.

Activate Unicenter Common Services Integration at a Later Date

If you entered NO for Step 14 but need to activate Unicenter Integration at some future time, use the following procedure after the installation completes:

To activate Unicenter Common Services Integration

1. Run the following command:

```
@sys$manager:capoly$set_startup_params
```

Ensure that the following values are set:

- The product that you are installing is set to YES.
- Unicenter Common Services OpenVMS Gateway is set to YES.
- The name of the Unicenter NSM Manager system is identified.

2. Run @sys\$startup:capoly\$shutdown.
3. Run @sys\$startup:capoly\$startup.
4. Run the Unicenter Common Services Integration IVP by executing the following command:

```
@sys$test:TNG$LINKS$IVP
```

Step 15. Choose Products for Automatic Startup After Installation

The installation displays the Product Startup Selection menu, which lists all of the products that you can choose to start automatically after installation. In a clustered environment, you may not have licenses for all components on all nodes. This menu enables you to select components separately for each node. After the list, the installation asks if you are satisfied with the displayed choices, as shown in the following example:

```
Unicenter for OpenVMS - product startup selection
```

```
-----
```

```
1 Unicenter Job Management ..... NO
2 Unicenter Job Management Agent ..... NO
3 Unicenter Universal Job Management Agent ..... NO
4 Unicenter NSM Workload Management Jobflow Support . NO
5 Unicenter Job Management NSM/UCS Integration ..... NO
```

```
6 Unicenter Console Management ..... NO
7 Unicenter System Watchdog ..... YES
8 Unicenter System Watchdog NSM/UCS Integration ..... NO
9 Unicenter Performance Management Agent ..... NO
10 Unicenter NSM Performance Trend Cube ..... NO
11 Unicenter Common Services OpenVMS Gateway ..... YES
Are you satisfied with the product selection Y/[N] ? y
```

Y

Uses the displayed settings and continues with the installation.

N

Prompts you for the product number for which you wish to change the setting.

You can customize the startup list by using the following command procedure while logged on to each node:

```
@sys$manager:CAPOLY$SET_STARTUP_PARAMS.COM
```

Step 16. Specify the Unicenter NSM Manager System

To complete integration with a Unicenter Management Station, its IP address or node name is required. The installation prompts you to specify the node name or IP address of the system where Unicenter NSM Manager is running.

Enter the node name or IP address and press Enter.

Change the System Name

After the installation completes, use the following command procedure if you want to change the system names or IP addresses later:

```
@sys$manager:CAPOLY$SET_STARTUP_PARAMS.COM
```

Error Messages and Recovery

This section explains the messages you could encounter while installing Watchdog Agent.

If the installation stops or there is an error with the IVP, the installation displays a message with a format similar to the following example:

```
%VMSINSTAL-E-INSFAIL, The installation of USWAGT-UNI-0000-YYMMDD-V V2.5 has failed.
```

Refer to the errors to determine if the problem can be corrected and then repeat the installation procedure from the beginning:

Error Message:	Recovery Solution:
Insufficient free global sections.	Follow the guidelines in the section Check System Parameter Values and Watchdog Agent Settings (" Required System Parameter Values and Watchdog Agent Settings " page 10), to increase the number of global sections on the system.
Insufficient free global pages.	Follow the guidelines in Check System Parameter Values and Watchdog Agent Settings (" Required System Parameter Values and Watchdog Agent Settings " page 10), to increase the number of global sections on the system.
The Watchdog Agent requires OpenVMS 8.2-1 or 8.3.	Install OpenVMS 8.2-1 or 8.3.
The system disk does not contain enough free blocks to install the Watchdog Agent. At least 125,000 free blocks are required for OpenVMS I64.	Increase free space on the system disk by purging files or deleting unneeded files.

For more information about errors and solutions, refer to HP's *OpenVMS System Managers manual*.

Post-Installation Tasks

This section provides the post-installation requirements and instructions for Watchdog Agent software.

How You Complete the Installation

The post-installation consists of a number of steps designed to verify your installation and finalize your system settings. To complete the post-installation of Watchdog Agent on your OpenVMS I64 system, you must complete the following tasks in the following order:

1. Run the Installation Verification Procedure.
2. Set Up the Watchdog Agent on Other OpenVMS cluster Nodes.
3. Install the Watchdog Agent on Multiple System Disks.
4. Edit the System Files.
5. Determine User Account Privileges.
6. (Optional) Restrict Access to Watchdog Agents.

Step 1. Run the IVP

The IVP verifies that the Watchdog Agent component was installed correctly. If you did not choose to auto-run the IVP during the installation procedure, you can manually run it with the following command:

```
$ @SYS$TEST:USW$AGENT$IVP
```

You can run the IVP at any time if you want to verify that the Watchdog Agent software is properly installed.

Step 2: Set Up the Watchdog Agent on Other OpenVMS Cluster Nodes

After installing Watchdog Agent on an OpenVMS cluster system with one system disk, you must set up the Watchdog Agent software on each of the other nodes in the OpenVMS cluster.

To set up Watchdog Agent on each node

1. Review the System Parameters and Settings in the Watchdog Agent Pre-Installation Preparations (page 9) to ensure that sufficient global pages and sections exist.
2. Install the new DCL command table on other nodes in the OpenVMS cluster by entering the following commands on each of the nodes:

```
$ INSTALL
INSTALL> REPLACE SYS$LIBRARY:DCLTABLES
INSTALL> EXIT
```

Important! If your OpenVMS or OpenVMS cluster system configuration deviates from the standard use of DCLTABLES, modify the previous commands as needed.

3. Log out and back in to access the new SENSE WATCHDOGS command.

Step 3. Install the Watchdog Agent on Multiple System Disks

You can install the Watchdog Agent on clusters with multiple system disks or on local area OpenVMS cluster systems with multiple boot members. When you use multiple system disks or boot members in a cluster, you must change the installation procedure.

Run the installation procedure once for each system disk or boot member. If multiple nodes share a system disk, run the installation procedure on only one of the nodes that share that system disk.

Note: See Error Messages and Recovery if an error occurs during the installation.

Step 4. Edit the System Files

Depending on what you installed on your system, you need to complete one of the following actions:

- If you activated the Unicenter Common Services Integration, you need to add the following statement to your system startup file:

```
@SYS$STARTUP:CAPOLY$STARTUP
```

CAPOLY\$STARTUP checks for the presence of each component, and starts those items that are installed.

- If you did not activate the Unicenter Common Services Integration software, the Watchdog Agent kit contains a startup procedure that defines pointers to system directories. You need to add the following command line to the system startup file:

```
$ @SYS$STARTUP:USW$AGENT$STARTUP
```

You must place either of these command lines *after* the line that invokes the network startup command procedure.

Step 5. Determining User Account Privileges

Each user account must have the correct privileges to use Watchdog Agent. Use the OpenVMS AUTHORIZE utility to determine if users have the correct privileges.

The following command requires specific privileges:

- The ADD MESSAGE and DELETE MESSAGE commands require OPER, SYSPRV, or SETPRV privileges.

Step 6. (Optional) Restricting Access to Watchdog Agents

As a security measure, you can provide selective access to agent processes running on nodes in your data center.

If you do not restrict access, network users can do the following actions:

- Monitor nodes by adding the node names to their profiles
- Delete event messages for built-in events that are removable (with privileges)
- Add or delete external messages (with privileges)

You can limit access to a Watchdog Agent by using identifiers for the node or OpenVMS cluster rather than for individual accounts. The process works as follows:

- When a Watchdog Agent process starts, it reads the system rights list database and loads all identifier names that start with SNS\$FROM_.
- The agent then examines each display process that is attempting to connect against the rights list database and grants access to any node that matches a node defined in the list.

If there are no identifiers starting with SNS\$FROM_ in the rights list database, there is no access protection. The Watchdog Agent answers all requests from all nodes without restriction.

Important! You must add all identifiers before starting the Watchdog Agent.

Restrict Access to Individual Nodes

Use the following commands to add identifiers to nodes that are authorized to access the Watchdog Agent process from another node:

```
$ RUN SYS$SYSTEM:AUTHORIZE ! Entered on node DELTA
UAF> ADD/IDENTIFIER SNS$FROM_ALPHA
UAF> ADD/IDENTIFIER SNS$FROM_BRAVO
```

delta

Specifies the Watchdog Agent node.

alpha, bravo

Specifies the nodes authorized access to the Watchdog Agent node.

Grant Access to Members of the OpenVMS Cluster Alias

Use the following commands to enable access to all nodes that are members of a specific OpenVMS cluster:

```
$ RUN SYS$SYSTEM:AUTHORIZE ! Entered on node DELTA
UAF> ADD/IDENTIFIER SNS$FROM_ZEBRA
```

delta

Specifies the Watchdog Agent node.

zebra

Specifies the OpenVMS cluster.

Continuing the previous example, you should also enter the following command on any member of the ZEBRA OpenVMS cluster running consolidators that poll the Watchdog Agent node DELTA:

```
$ RUN SYS$SYSTEM:NCP
NCP> DEFINE OBJECT SNS$WATCHDOG ALIAS OUTGOING ENABLE
NCP> SET OBJECT SNS$WATCHDOG ALL
NCP> EXIT
```

If all of the commands in Step 6 are used, the Watchdog Agent running on node DELTA accepts requests from any consolidator or external message process that can add and delete external messages, and is running on nodes ALPHA, BRAVO, or on any other member of the ZEBRA OpenVMS cluster. The agent rejects all other requests.

Note: Whenever you add additional identifiers to the system rights database, you need to restart Watchdog Agent.

Shut Down Watchdog Agent

If you are shutting down your system, you should shut down the Watchdog Agent process. Depending on if you activated the Unicenter Common Services Integration software or not, use one of the following procedures:

- If you activated the Integration software, add the following statement to your system shutdown file:

```
@SYS$STARTUP:CAPOLY$SHUTDOWN
```

CAPOLY\$SHUTDOWN checks for each installed component and shuts them down.

- If you did not activate the Unicenter Common Services Integration software, before performing an orderly system shutdown, execute the following command file to stop the Watchdog Agent process:

```
$ @SYS$STARTUP:USW$AGENT$SHUTDOWN
```

Uninstallation

Uninstallation scripts enable you to remove Watchdog Agent from your system. The following script uninstalls Watchdog Agent:

```
USW$AGENT$DEINSTALL.COM
```

This script removes both the base product and the Unicenter Common Services Integration components associated with it. If the Watchdog Manager is not installed, it will remove the components that are shared with the Watchdog Manager.

If the agent you are removing is on an OpenVMS cluster, you are asked if you want to remove the SNS\$WATCHDOG account. If your cluster has a shared authorization file and rights list, you should only answer YES to this question if this is the last instance of Watchdog Agent or Watchdog Manager to be removed on the cluster.

The command file to execute the script is located in the SYS\$UPDATE directory.

Note: A component is not removed if your registry includes multiple dependencies for it.

Watchdog Agent Sample Installation Log

All of your answers for the the installation questions and steps are recorded in the installation log. This gives you a tool to reference information about how you completed your Watchdog Agent installation. The following is an example of a complete Watchdog Agent installation log:

```
$ run $1$DQA0:[000000]setup_ia64.exe
UnZipSFX 5.20 of 30 April 1996, by Info-ZIP (Zip-Bugs@wkuvx1.wku.edu).
  inflating: ca$setup.com
  inflating: installhelp.hlp
  inflating: product.key
  inflating: usw$readme.txt
Setup location: $1$DQA0:[000000]
    Unicenter System Watchdog for OpenVMS

    Copyright (c) 2007 CA. All Rights Reserved.

-----
PRODUCT

1      Watchdog Agent Install
2      Watchdog Manager Install
```

```
I    Unicenter Integration Help
P    Product Readme
H    Install Help
E    Exit
```

```
      Please Enter the Number of the Product you wish to
      install >>>> 1
```

```
%DCL-S-SPAWNED, process SYSTEM_41659 spawned
```

```
%DCL-S-ATTACHED, terminal now attached to process SYSTEM_41659
```

```
UnZipSFX 5.20 of 30 April 1996, by Info-ZIP (Zip-Bugs@wkuvx1.wku.edu).
```

```
  inflating: ca$setup.com
```

```
  inflating: ca$setup.ini
```

```
Platform type : IA64
```

```
OS version   : V8.3
```

```
Setup location: $1$DQA0:[000000.ENU.OPENVMS.WATCHDOG_AGT]
```

```
Product Kit   : $1$DQA0:[000000.ENU.OPENVMS.WATCHDOG_AGT]USWAGT_UNI_0000_07mdd_V025.ZIP;1
```

```
* Enter the device and directory to unzip the save-sets, 110000 blocks of
temp space needed [sys$common:[CA$SETUP]]:
```

```
UNZIP location: $1$DQA0:[000000.ENU.OPENVMS.WATCHDOG_AGT]UNZIP_IA64.EXE;8
```

```
Unzipping installation media ... Please be patient ...
```

```
      OpenVMS Software Product Installation Procedure V8.3
```

```
It is 28-FEB-2007 at 17:15.
```

```
Enter a question mark (?) at any time for help.
```

```
%VMSINSTAL-W-ACTIVE, The following processes are still active:
```

```
  TCPIP$FTP_1
```

```
  TCPIP$SNMP_1
```

```
  TCPIP$HR_MIB
```

```
  TCPIP$OS_MIBS
```

```
* Do you want to continue anyway [NO]? y
```

```
* Are you satisfied with the backup of your system disk [YES]?
```

```
The following products will be processed:
```

```
  USWAGT_UNI_0000_07mdd_V V2.5
```

```
      Beginning installation of USWAGT_UNI_0000_07mdd_V V2.5 at 17:15
```

```
%VMSINSTAL-I-RESTORE, Restoring product save set A ...
```

```
%VMSINSTAL-I-RESTORE, Restoring product save set Y ...
```

```
      Copyright (c) 2007 CA. All rights reserved.
```

* DO YOU ACCEPT THE TERMS AND CONDITIONS OF THIS AGREEMENT AS SET FORTH
IN THE LICENSE AGREEMENT (YES (Y) / NO (N) / VIEW (V)) [N]: y

%VMSINSTAL-I-SYSDIR, This product creates system disk directory
SYS\$COMMON:[CAI\$REGISTRY].

- * Do you want this software to start right after the installation [YES]?
- * Do you want to run the IVP after the installation [YES]?
- * Do you want to purge files replaced by this installation [YES]?

The TCP/IP stack TCPIP Services is up and running...

The TCP/IP stack TCPIP Services is up and running...

DECnet/OSI is installed and active...

%USWAGT_UNI_0000_07mdd2_V-I-CHECKDNET5RIGHTS, Checking for NET\$MANAGE rights
identifier presence in your process rights list

This node is an OpenVMS Cluster member, though the SYS\$CLUSTER_NODE
logical name is not defined. For Watchdog Manager cluster events
consolidation purposes, you should specify an alias for this
cluster.

Watchdog Manager may use the SNS\$CLUSTER_NAME logical name translation,
as an alternative to SYS\$CLUSTER_NODE, if defined at startup time.

The SNS\$CLUSTER_NAME logical name definition will be inserted
in the product startup procedure...

* Enter a name for this cluster (<Return> for none) :

To ensure that the System Watchdog Agent runs with the proper quotas, this
installation procedure creates an account for the server named
SNS\$WATCHDOG. This account has no special privileges, and is set up
for network operations only.

The installation procedure selected the free UIC [376,202]
for the SNS\$WATCHDOG account...

%VMSINSTAL-I-SYSDIR, This product creates system disk directory
SYS\$SYSDEVICE:[SNS\$WATCHDOG].

%VMSINSTAL-I-SYSDIR, This product creates system disk directory
SYS\$COMMON:[SYSHLP.EXAMPLES.SNS].

**** NOTE ****

If you are installing on a cluster that has mixed versions, mixed architectures, or uses different IP stacks in the cluster, you MUST install on SYS\$SPECIFIC. Otherwise, you may use the default of SYS\$COMMON.

* Enter the full pathname for the Unicenter Common Services root directory [SYS\$COMMON:[UNIVMS]]:

Selected pathname: SYS\$COMMON:[UNIVMS]

* Is that correct [Y]?

%VMSINSTAL-I-SYSDIR, This product creates system disk directory SYS\$COMMON:[UNIVMS].

%VMSINSTAL-I-SYSDIR, This product creates system disk directory CAPOLY\$BIN.

%VMSINSTAL-I-SYSDIR, This product creates system disk directory CAPOLY\$TMP.

%VMSINSTAL-I-SYSDIR, This product creates system disk directory CAPOLY\$DATA.

%VMSINSTAL-I-SYSDIR, This product creates system disk directory CAPOLY\$LOGS.

COMMON install complete

%VMSINSTAL-I-RESTORE, Restoring product save set R ...

The installation will now check the for the presence of an OpenVMS account CAUNIVMS. This account is needed to support the remote commands from the Unicenter management station.

The installation did not find the CAUNIVMS account. It will prompt you for the UIC information to create the account. You will need to have a unique UIC value.

* Enter a new UIC (include brackets) [[713,63]]:

%VMSINSTAL-I-ACCOUNT, This installation creates an ACCOUNT named CAUNIVMS.

%UAF-I-ADDMSG, user record successfully added

%UAF-I-RDBADDMSGU, identifier CAUNIVMS value [000713,000063] added to rights database

%UAF-I-RDBADDMSGU, identifier NSM value [000713,177777] added to rights database

* Do you want to activate the Unicenter Common Services Integration Components [YES]?

%USWAGT_UNI_0000_07mdd_V-I-EXISTS, Directory VMI\$SPECIFIC:[UNIVMS.BIN] already exists.

Unicenter for OpenVMS - product startup selection

- | | | |
|---|---|-----|
| 1 | Unicenter Job Management | NO |
| 2 | Unicenter Job Management Agent | NO |
| 3 | Unicenter Universal Job Management Agent | NO |
| 4 | Unicenter NSM Workload Management Jobflow Support . | NO |
| 5 | Unicenter Job Management NSM/UCS Integration | NO |
| 6 | Unicenter Console Management | NO |
| 7 | Unicenter System Watchdog | YES |
| 8 | Unicenter System Watchdog NSM/UCS Integration | NO |

```
9  Unicenter Performance Management Agent ..... NO
10 Unicenter NSM Performance Trend Cube ..... NO
11 Unicenter Common Services OpenVMS Gateway ..... YES
```

* Are you satisfied with the product selection Y/[N] ? y

To complete integration with an Unicenter Management Station,
its IP address or node name is required.

* Node Name or IP Address ? WINBOX

%USWAGT_UNI_0000_07mdd_V-I-TRAPDST, The Unicenter Management station is set to "WINBOX"

%USWAGT_UNI_0000_07mdd_V-I-CREPRM, Created the file SYS\$MANAGER:CAPOLY\$SYSTARTUP.COM

%USWAGT_UNI_0000_07mdd_V-I-SETPRM, You can modify the selection later, using:
SYS\$MANAGER:CAPOLY\$SET_STARTUP_PARAMS.COM

All questions regarding this installation have been asked.
The installation will run for approximately 2 to 5 minutes

%VMSINSTAL-I-RESTORE, Restoring product save set Z ...

%VMSINSTAL-I-RESTORE, Restoring product save set D ...

The installation procedure generates a password and applies
it to the SNS\$WATCHDOG account...

You may change that password at your convenience.

%USWAGT_UNI_0000_07mdd_V-I-CREACC, Creating account SNS\$WATCHDOG

%VMSINSTAL-I-ACCOUNT, This installation creates an ACCOUNT named SNS\$WATCHDOG.

%UAF-I-ADDMSG, user record successfully added

%UAF-I-RDBADDMSGU, identifier SNS\$WATCHDOG value [000376,000202] added to rights database

%VMSINSTAL-I-ACCOUNT, This installation updates an ACCOUNT named SNS\$WATCHDOG.

%UAF-I-MDFYMSG, user record(s) updated

%VMSINSTAL-I-ACCOUNT, This installation updates an ACCOUNT named
SNS\$WATCHDOG.

%UAF-I-MDFYMSG, user record(s) updated

%VMSINSTAL-I-SYSDIR, This product creates system disk directory SYS\$SYSDEVICE:[SNS\$WATCHDOG].

%CREATE-I-EXISTS, SYS\$SYSDEVICE:[SNS\$WATCHDOG] already exists

%VMSINSTAL-I-SYSDIR, This product creates system disk directory
SYS\$SYSDEVICE:[SNS\$WATCHDOG.IA64].

%VMSINSTAL-I-SYSDIR, This product creates system disk directory
SYS\$SYSDEVICE:[SNS\$WATCHDOG.IA64.I64BOX].

%USWAGT_UNI_0000_07mdd_V-I-DECNETPHV, DECnet phase V is installed...

Configuring the session control application SNS\$WATCHDOG using NCL ...

Node 0 Session Control Application SNS\$WATCHDOG
at 2007-02-28-17:16:08.808-05:00Iinf

Node 0 Session Control Application SNS\$WATCHDOG
at 2007-02-28-17:16:08.845-05:00Iinf

Characteristics

Addresses =
{
 name = SNS\$WATCHDOG
}

Node 0 Session Control Application SNS\$WATCHDOG
at 2007-02-28-17:16:08.879-05:00Iinf

Characteristics

Image Name = SYS\$SYSDEVICE:[SNS\$WATCHDOG]SNS\$WATCHDOG.COM

Node 0 Session Control Application SNS\$WATCHDOG
at 2007-02-28-17:16:08.916-05:00Iinf

Characteristics

User Name = "SNS\$WATCHDOG"

Node 0 Session Control Application SNS\$WATCHDOG
at 2007-02-28-17:16:08.953-05:00Iinf

Characteristics

Node Synonym = True

The DECnet phase V session control application SNS\$WATCHDOG
has been defined... If you wish to view its configuration,
please run SYS\$SYSTEM:NCL and issue the command:

```
NCL> show node 0 session control application SNS$WATCHDOG all
```

TCP/IP configuration for SNS\$WATCH is now complete.

If you wish to view the TCP/IP service setup,
please issue the following command:

```
$ TCPIP SHOW SERVICE SNS$WATCH
```

```
Providing files...
```

```
  Providing Examples to SNS$EXAMPLES
```

```
  Providing Agent-specific files...
```

```
  Providing product readme ...
```

```
VMI$KWD:USW$README_07mdd-V025.TXT
```

```
Providing Startup, Shutdown, Installation Verification  
and Deinstallation procedures ...
```

```
Installing links...
```

```
%VMSINSTAL-I-RESTORE, Restoring product save set U ...
```

```
To have CA Common Services started when rebooting, add  
"@SYS$STARTUP:CAPOLY$STARTUP" to the system startup file,  
either SYS$MANAGER:SYSTARTUP_V5.COM for VMS V5 or  
SYSTARTUP_VMS.COM for OpenVMS V6 and OpenVMS V7, and add  
"@SYS$STARTUP:CAPOLY$SHUTDOWN" to the system shutdown file,  
SYS$MANAGER:SYSHUTDOWN.COM.
```

```
Checking for required TCP/IP files. Depending on what TCP/IP  
product you are running, you may see error messages stating  
that a file cannot be found. You may safely ignore these  
messages unless you do not have any of the supported TCP/IP  
stacks running on this machine. In that case, the installation  
will abort.
```

```
Required TCP/IP file test completed.
```

```
%USWAGT_UNI_0000_07mdd_V-I-BUILDING, Linking CAPOLY$TNGD...
```

```
%USWAGT_UNI_0000_07mdd_V-I-BUILDING, Linking CAPOLY$TRAP...
```

```
%USWAGT_UNI_0000_07mdd_V-I-BUILDING, Linking CAPOLY$CASEND...
```

```
%USWAGT_UNI_0000_07mdd_V-I-BUILDING, Linking CAPOLY$FORCEX...
```

```
You may run the CA Common Services integration Installation  
Verification Procedure at any time by typing the command:
```

```
$ @SYS$TEST:TNG$LINKS$IVP.COM
```

```
Linking CAPOLY$PSWEVENT...
```

```
-----  
Product Management Command Files  
-----
```

```
Startup:    $ @SYS$STARTUP:USW$AGENT$STARTUP.COM
```

```
Shutdown:  $ @SYS$STARTUP:USW$AGENT$SHUTDOWN.COM
```



```
IVP:          $ @SYS$TEST:USW$AGENT$IVP.COM
Deinstall:    $ @SYS$UPDATE:USW$AGENT$DEINSTALL.COM
```

Common Component Command Files

```
Startup:      $ @SYS$STARTUP:CAPOLY$STARTUP
Shutdown:     $ @SYS$STARTUP:CAPOLY$SHUTDOWN
Reconfig Common Startup: $ @SYS$MANAGER:CAPOLY$SET_STARTUP_PARAMS
List Installed Products: $ @SYS$STARTUP:CAREGISTRY$LISTPRODUCTS [FULL]
```

Note: A call to the product startup procedure or common startup procedure should be inserted manually in SYS\$STARTUP:SYSTARTUP_VMS.COM in order to start the product automatically at system boot time. Similarly, a call to the product or common shutdown procedure should be inserted in the system shutdown procedure, SYS\$MANAGER:SYSHUTDWN.COM

```
%VMSINSTAL-I-MOVEFILES, Files will now be moved to their target directories...
Copyright (c) 2007 CA. All rights reserved.
%DCL-I-SUPERSEDE, previous value of SNS$EXAMPLES has been superseded
```

```
Node 0 Session Control Application SNS$WATCHDOG
at 2007-02-28-17:16:29.840-05:00Iinf
```

```
command failed due to:
process failure
```

```
Identifier already exists
```

```
Node 0 Session Control Application SNS$WATCHDOG
at 2007-02-28-17:16:29.874-05:00Iinf
```

Characteristics

```
Addresses          =
{
  name = SNS$WATCHDOG
}
```

Node 0 Session Control Application SNS\$WATCHDOG
at 2007-02-28-17:16:29.905-05:00Iinf

Characteristics

Image Name = SYS\$SYSDEVICE:[SNS\$WATCHDOG]SNS\$WATCHDOG.COM

Node 0 Session Control Application SNS\$WATCHDOG
at 2007-02-28-17:16:29.936-05:00Iinf

Characteristics

User Name = "SNS\$WATCHDOG"

Node 0 Session Control Application SNS\$WATCHDOG
at 2007-02-28-17:16:29.968-05:00Iinf

Characteristics

Node Synonym = True

%RUN-S-PROC_ID, identification of created process is 2100124D
OpenVMS TNG Gateway Daemon Shutdown Complete

Unicenter for OpenVMS - product startup selection

1	Unicenter Job Management	NO
2	Unicenter Job Management Agent	NO
3	Unicenter Universal Job Management Agent	NO
4	Unicenter NSM Workload Management Jobflow Support .	NO
5	Unicenter Job Management NSM/UCS Integration	NO
6	Unicenter Console Management	NO
7	Unicenter System Watchdog Agent	YES
8	Unicenter System Watchdog NSM/UCS Integration	NO
9	Unicenter Performance Management Agent	NO
10	Unicenter NSM Performance Trend Cube	NO
11	Unicenter Common Services OpenVMS Gateway	YES

The Unicenter Management station is set to
"WINBOX"

Note: You may change the list of products to be started on this node, using:
@SYS\$MANAGER:CAPOLY\$SET_STARTUP_PARAMS.COM
prior to launching this startup procedure...

Starting OpenVMS TNG Gateway Daemon...
%RUN-S-PROC_ID, identification of created process is 2100124E
System Monitor already running...

Unicenter System Watchdog version 2.5 IVP starting

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Testing the System Watchdog Agent and the external event messages...

%SNS-S-ADDED, Message successfully added
%SNS-S-REMOVED, Message(s) successfully deleted

Unicenter System Watchdog version 2.5 IVP completed

Starting TNG\$LINKS\$IVP

Sending IVP Request to node: WINBOX
wait 5 seconds
Checking node: WINBOX

..... Responded OK

All Unicenter Management stations responded!

Unicenter Links IVP completed successfully!

Installation of USWAGT_UNI_0000_07mdd_V V2.5 completed at 17:17

Adding history entry in VMI\$ROOT:[SYSUPD]VMSINSTAL.HISTORY

Creating installation data file: VMI\$ROOT:[SYSUPD]USWAGT_UNI_0000_07mdd_V025.VMI_DATA

VMSINSTAL procedure done at 17:17

%DELETE-I-FILDEL, SYS\$COMMON:[000000]CA\$SETUP.DIR;1 deleted (16 blocks)
%DELETE-I-FILDEL, SYS\$SYSROOT:[SYSMGR]CA\$SETUP.INI;1 deleted (112 blocks)
%DELETE-I-FILDEL, SYS\$SYSROOT:[SYSMGR]CA\$SETUP.COM;1 deleted (112 blocks)
%DCL-S-RETURNED, control returned to process SYSTEM_34227

Unicenter System Watchdog for OpenVMS

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PRODUCT

- 1 Watchdog Agent Install
- 2 Watchdog Manager Install

- I Unicenter Integration Help
- P Product Readme
- H Install Help
- E Exit

Please Enter the Number of the Product you wish to
install >>>> ex

```
%DELETE-I-FILDEL, SYS$SYSROOT:[SYSMGR]CA$SETUP.COM;1 deleted (112 blocks)
$
```

Chapter 3: Watchdog Manager Installation

This section contains the following topics:

[Watchdog Manager Pre-Installation Preparations](#) (see page 37)

[Install Watchdog Manager](#) (see page 39)

[Post-Installation Tasks](#) (see page 49)

[Watchdog Manager Sample Installation Log](#) (see page 52)

Watchdog Manager Pre-Installation Preparations

The Watchdog Manager installation requires several steps to ensure that your environment is properly prepared for the installation. Be sure that all of the requirements described in this section are met before you begin.

Before installing Watchdog Manager, be sure to complete the following procedures:

- Review the hardware and software requirements, privileges, and disk space
- Check your system privileges for the proper settings
- Review system parameters and settings
- Understand the installation account requirements
- Back up the system disk

Installation of the Watchdog Manager takes from two to five minutes, depending on your system. This time includes running the Installation Verification Procedure (IVP).

Hardware and Software Requirements

The hardware and software requirements for installing Watchdog Manager are as follows:

- At least 225,000 blocks of available disk space
- OpenVMS I64 operating system running versions 8.2-1 or 8.3

- HP Motif V1.5 or later for OpenVMS Server
- Minimally supported TCP/IP Stacks:
 - HP TCP/IP Services (HP OpenVMS v8.2-1): TCP/IP v5.5
 - HP TCP/IP Services (HP OpenVMS v8.3): TCP/IP v5.6
 - Process Software TCPware v5.7-1 or v5.7-2
 - Process Software MultiNet v5.1 or v5.2

Privileges

Installation of Watchdog Manager requires the standard privileges to run the VMSINSTAL utility. For a list of the required privileges for an OpenVMS installation, refer to HP's *OpenVMS System Managers* manual.

Important: VMSINSTAL turns off the BYPASS privilege at the start of the installation.

Disk Space Requirements

The following information gives the approximate disk space required to install Watchdog Manager and run it after installation. The disk space required for the installation does not include the disk space required for profiles and log files.

- Blocks during installation: 125,000
- Blocks after installation: 23,000

If you need to find the available space on your system disk, use the following command:

```
$ SHOW DEVICE SYS$SYSDEVICE
```

Installation Account Requirements

When you run the installation procedure, it checks whether you have done the following tasks:

- Logged in to a privileged account
- Determined adequate quotas for the installation
- Found other users logged in on the system
- Set the following minimum account quotas:

Quota	Installation Account	Product Startup Account
ASTLM	24	200

BIOLM	18	150
BYTLM	32768	32768
DIOLM	18	150
ENQLM	30	300
FILLM	20	100
TQELM	2	10
PRCLM	2	10
PGFLQUOTA	10000	100000

If the installation procedure detects a problem during the installation, it notifies you and asks if you want to continue the installation. To stop the installation process, enter NO or press Return. Restart the installation after you correct the problem.

System Disk Backup

At the beginning of the installation, the installation process asks if you have backed up your system disk. We recommend that you back up the system disk before installing any software. Use the backup procedures that are established at your site.

Install Watchdog Manager

This section contains all the procedures and information necessary to install the Watchdog Manager.

Online Release Information

Included with the System Unicenter SW for OpenVMS software are the Readme and Release Summary, also referred to as the Release Notes. CA recommends that you read the Readme and the Release Summary before you install the software. You can print these documents from the DVD-ROM before the installation.

After you complete the installation, use the following command to see the release information location:

```
$ HELP SENSE WATCHDOGS Release_Notes
```

The installation always copies the release information to SYS\$HELP by default.

Previous Versions of Watchdog

Before installing components of Unicenter SW for OpenVMS, you should stop any previous version running on your system. After starting the installation, if there are active processes, the installation procedure displays them and asks if you would like to continue. Answering YES lets you continue the installation procedure, while NO stops the installation.

Note: Unicenter SW for OpenVMS was previously known as WatchIT, Unicenter TNG Event Manager, and System Monitor.

Stop the Installation

You can manually stop the installation at any time for any reason. If you stop the installation, all Unicenter SW for OpenVMS Manager files that had been installed to that point are removed. If you want to restart the installation after stopping, you must repeat the entire installation procedure.

To stop the installation, press Ctrl+Y.

How You Install Watchdog Manager

The installation consists of a number of steps designed to check your system, install Watchdog, and then initialize Watchdog. To install Watchdog on your OpenVMS I64 system, you must complete the following tasks in the following order:

1. Mount the Distribution Media
2. Run the Installation Procedure
3. Specify a Temporary Directory to Unzip the Savesets
4. Check your System Backup
5. View and Accept the License Agreement
6. Start Watchdog Manager After the Installation
7. Run the Installation Verification Procedure
8. Purge Previous Version Files
9. Check the Resource Quotas
10. Install the Watchdog Manager DECwindows/MOTIF Components
11. Install the TCP/IP and DECnet Transport Layers
12. Shut Down Previous Versions that are Already Running
13. Specify the CA Common Services Integration Components Location

14. Specify the UIC for the CAUNIVMS Account
15. Activate the Unicenter Common Services Integration Components
16. Specify if a New System Watchdog Manager Profile Should be Created
17. Choose Products for Automatic Startup After Installation
18. Specify the Unicenter NSM Manager System

Many of the installation steps are optional, but you have to make an entry during the step. For example, when presented with a question during the installation, you have to answer YES or NO to continue the installation.

Note: If the installation stops for any reason, see Error Messages and Recovery (page 48).

Step 1. Mount the Distribution Media

The Unicenter SW for OpenVMS DVD-ROM can be mounted on OpenVMS or on Windows. For OpenVMS, insert the DVD-ROM in the DVD-ROM reader and type the following command:

```
$ mount/over=id device
```

device

This is the name of the DVD-ROM reader device.

For example, if the DVD-ROM reader is DQA0, the command would be:

```
$ mount/over=id dqa0:
```

Step 2. Run the Installation Procedure

Using the SYSTEM account, run the installation procedure on the OpenVMS system by typing the following command:

```
$ run device:[000000]setup_ia64.exe
```

This command launches an installation menu where you can install the components.

Step 3. Specify a Temporary Directory to Unzip the Savesets

The installation procedure allows you to choose the temporary directory used for the savesets and installation files. Choose a device and directory with at least 310,000 free blocks. The following example shows how to select a device and directory:

* Enter the device and directory to unzip the save-sets, 310000 blocks of temp space needed [sys\$common:[CA\$SETUP]]:

Step 4. Check Your System Backup

You should always back up your system disk before installing any new software. If you need to restore your former system settings, you want the most current information saved. To ensure you have a good backup, the installation asks if you are satisfied with your backup. Select one of the following responses:

YES

If you are satisfied with the backup of your system disk, press Return to accept the default YES.

NO

Type NO and press Return to stop the installation. Back up your system disk, and then restart the installation.

Step 5. View and Accept the License Agreement

You must accept the terms of the license agreement before the installation process begins.

To view and accept the license agreement

1. Type V to view the license agreement.

Note: The license agreement is several pages long.

2. Select one of the following responses to accept or reject the terms and conditions of the agreement:

YES

The installation continues.

NO

The installation stops.

Step 6: Start Watchdog Manager After the Installation

During the installation process, you can choose to start or not start Watchdog Manager after the installation completes by selecting YES (the default) or NO. The Watchdog Manager startup does not run any images. The file `USW$MANAGER$STARTUP.COM` defines logical names used by Watchdog and assures that all Watchdog Manager images are installed.

For instructions on running the Watchdog Manager components, refer to the *Unicenter SW for OpenVMS I64 Administrator Guide*.

Note: If you choose not to start Watchdog Manager after installing it, but you run the IVP, the software is started by the IVP.

If this installation is an upgrade from a previous version, you are presented with information that the installation detected the previous version, and that the version you are installing is newer than the already installed version. The installation asks if want to continue. Select one of the following responses:

YES

The installation continues.

NO

The installation terminates.

If you answer YES to the previous question, or if this is the first time installing Watchdog Manager on your system, you are asked if you want the software to start right after the installation. Select one of the following responses:

YES

Watchdog Manager is started after the installation.

NO

Watchdog Manager is not started after the installation.

Step 7. Run the Installation Verification Procedure

After the installation, the Installation Verification Procedure (IVP) checks to ensure that the installation was successful. It starts the Watchdog Agent and performs function tests. We recommend that you run the IVP, so the installation gives you the opportunity by asking if you want to run it after completing the installation. Select one of the following responses:

YES

The IVP runs after the installation completes.

NO

The IVP does not run after the installation completes.

Note: If you choose not to run the IVP during the installation, you can run it at any time after the installation completes by entering the following command:

```
$ @SYS$TEST:USW$MANAGER$IVP.COM
```

Step 8. Purge Previous Version Files

You can purge files from previous versions of the product that are superseded by this installation. We recommend that you purge your old files; however, if you need to keep files from a previous version you can choose to not purge your files. The installation asks if you want to purge files replaced by this installation. Select one of the following responses:

YES

The files related to earlier versions of the product are purged after the installation completes.

NO

The files related to earlier versions of the product are left on the system after the installation completes.

Step 9. Check Resource Quotas

The installation checks various resource quotas that are granted to the user process running the installation. If any are found to be below the required minimum, you receive messages stating the issues encountered and you are asked if you want to continue anyway.

YES

The installation continues.

NO

The installation terminates.

The following is an example of how the installation might notify you of low resource quotas:

```
BIOLM value 50 is too low for the account doing the startup.  
The required value for BIOLM is 150.  
DIOLM value 50 is too low for the account doing the startup.  
The required value for DIOLM is 150.  
TQELM value 2 is too low for the account doing the startup.  
The required value for TQELM is 10.
```

Note: If you receive quota messages like the previous examples, the software will not start at end of the installation procedure regardless if you chose to do so in step 6 (page 43).

If the installation found quotas below the required minimum, before you start either component, use the OpenVMS AUTHORIZE utility to increase the applicable resource quotas.

Step 10. Install the Watchdog Manager DECwindows/MOTIF Components

The installation prompts you to choose if you want to install the Motif components. Select one of the following responses:

YES

The Motif Profile Editor installs.

NO

The installation continues but the Motif Profile Editor is not installed.

Step 11. Shut Down a Previous Version

If you have a previous version of Watchdog Manager that is currently running, the installation states that those processes are still active, must be stopped, and asks if you want to stop them. Select one of the following responses:

YES

The installation process stops the previous version of Watchdog Manager.

NO

The installation stops.

Note: You receive a comment and question for each older version or component that is currently active on your system, so you might have to repeat this step more than once. The installation continues after all processes are stopped.

Step 12. Specify the CA Common Services Integration Components Location

If the Unicenter Common Services Integration components are not already installed, the installation prompts you to specify where to install them by displaying the following note and prompt:

**** NOTE ****

If you are installing on a cluster that has mixed versions, mixed architectures, or uses different IP stacks in the cluster, you **MUST** install on SYS\$SPECIFIC. Otherwise, you may use the default of SYS\$COMMON.

* Enter the full pathname for the Unicenter Common Services root directory [SYS\$COMMON:[UNIVMS]]:

Enter the location and press Enter.

```
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
SYS$COMMON:[UNIVMS].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory CAPOLY$BIN.
%VMSINSTAL-I-SYSDIR, This product creates system disk directory CAPOLY$TMP.
%VMSINSTAL-I-SYSDIR, This product creates system disk directory CAPOLY$DATA.
%VMSINSTAL-I-SYSDIR, This product creates system disk directory CAPOLY$LOGS.
COMMON install complete
```

Step 13. Specify the UIC for the CAUNIVMS Account

The CAUNIVMS account is needed to support the remote commands from the Unicenter Management station. If the Unicenter Common Services Integration components are not already installed, the installation prompts you to specify the User Identification Code (UIC) for the CAUNIVMS account:

Enter the UIC and press Enter.

Step 14. Activate the Unicenter Common Services Integration Components

The installation asks if you want to activate the Unicenter Common Services Integration Components. Select one of the following responses:

Yes

The Integration components are activated. The installation prompts you for the name of the Unicenter Management station.

No

The Integration components are not activated.

Activate Unicenter Common Services Integration at a Later Date

If you entered NO for Step 14 but need to activate Unicenter Integration at some future time, use the following procedure after the installation completes:

To activate Unicenter Common Services Integration

1. Run @sys\$manager:capoly\$set_startup_params. Ensure that the following values are set:
 - The product that you are installing is set to YES.
 - Unicenter Common Services OpenVMS Gateway is set to YES.
 - The name of the Unicenter NSM Manager system is identified.
2. Run @sys\$startup:capoly\$shutdown.

3. Run `@sys$startup:capoly$startup`.
4. Run the Unicenter Common Services Integration IVP by executing the following command:

```
@sys$test:TNG$LINKS$IVP
```

Step 15. Choose Products for Automatic Startup After Installation

The installation displays the Product Startup Selection menu, which lists all of the products that you can choose to start automatically after installation. In a clustered environment, you may not have licenses for all components on all nodes. This menu enables you to select components separately for each node. After the list, the installation asks if you are satisfied with the displayed choices, as shown in the following example:

```
Unicenter for OpenVMS - product startup selection
-----

1 Unicenter Job Management ..... NO
2 Unicenter Job Management Agent ..... NO
3 Unicenter Universal Job Management Agent ..... NO
4 Unicenter NSM Workload Management Jobflow Support . NO
5 Unicenter Job Management NSM/UCS Integration ..... NO
6 Unicenter Console Management ..... NO
7 Unicenter System Watchdog ..... YES
8 Unicenter System Watchdog NSM/UCS Integration ..... YES
9 Unicenter Performance Management Agent ..... NO
10 Unicenter NSM Performance Trend Cube ..... NO
11 Unicenter Common Services OpenVMS Gateway .....YES
Are you satisfied with the product selection Y/[N] ? y
```

Y

Uses the displayed settings and continues with the installation.

N

Prompts you for the product number for which you wish to change the setting.

The installation automatically sets the value for the product that you are installing to YES. If you answered YES to the question about activating NSM components, then the value for Item 11 (Unicenter NSM/CCS OpenVMS Gateway) is also set to YES.

You can customize the startup list by using the following command procedure while logged on to each node:

```
@sys$manager:CAPOLY$SET_STARTUP_PARAMS.COM
```

Step 16. Specify the Unicenter NSM Manager System

To complete integration with a Unicenter Management Station, its IP address or node name is required. The installation prompts you to specify the node name or IP address of the system where Unicenter NSM Manager is running.

Enter the node name or IP address and press Enter.

Change the System Name

After the installation completes, use the following command procedure if you want to change the system names or IP addresses later:

```
@sys$manager:CAPOLY$SET_STARTUP_PARAMS.COM
```

Error Messages and Recovery

This section explains the messages you could encounter while installing Watchdog Manager.

If the installation stops or there is an error with the IVP, the installation displays a message with a format similar to the following example:

```
%VMSINSTAL-E-INSFAIL, The installation of USWGR-UNI-0000-yymmdd-V V2.5 has failed.
```

Refer to the errors to determine if the problem can be corrected and then repeat the installation procedure from the beginning:

Error Message:	Recovery Solution:
The Watchdog Manager requires OpenVMS v8.2-1 or 8.3.	Install OpenVMS v 8.2-1 or 8.3.
The system disk does not contain enough free blocks to install the Watchdog Manager. At least 125,000 free blocks are required for OpenVMS I64.	Increase free space on the system disk by purging files or deleting unneeded files.

For more information about errors and solutions, refer to HP's *OpenVMS System Managers* manual.

Post-Installation Tasks

This section provides the post-installation requirements and instructions for the Watchdog Manager software.

How You Complete the Installation

The post-installation consists of a number of steps designed to verify your installation and finalize your system settings. To complete the post-installation of Watchdog Manager on your OpenVMS I64 system, you must complete the following tasks in the following order:

1. Run the IVP
2. Edit the System Files
3. Determine User Account Privileges
4. Create a profile

Step 1. Run the IVP

The IVP verifies that Watchdog Manager was installed correctly. If you did not choose to auto-run the IVP during the installation procedure, you can manually run it with the following command:

```
$ @SYS$TEST:USW$MANAGER$IVP
```

You can run the IVP at any time if you want to verify that the Watchdog Manager is properly installed.

Step 2. Edit the System Files

Depending on what you installed on your system, you need to complete one of the following actions:

- If you activated the Unicenter Common Services Integration, you need to add the following statement to your system startup file:

```
@SYS$STARTUP:CAPOLY$STARTUP
```

CAPOLY\$STARTUP checks for the presence of each component, and starts those items that are installed.

- If you did not activate the Unicenter Common Services Integration software, the Watchdog Manager kit contains a startup procedure that defines pointers to system directories. You need to add the following command line to the system startup file:

```
$ @SYS$STARTUP:USW$MANAGER$STARTUP
```

You must place either of these command lines *after* the line that invokes the network startup command procedure.

Step 3: Determining User Account Privileges

Each user account must have the correct privileges to use Watchdog Manager. Use the OpenVMS AUTHORIZE utility to determine if users have the correct privileges.

The following processes require specific privileges:

- The START CONSOLIDATOR command requires the following privileges:
 - CMKRNL or DETACH when starting a consolidator in another UIC.
 - CMKRNL when starting a consolidator, if the consolidator must submit batch action routines to users other than the owner of the consolidator.
 - OPER, SYSPRV, or SETPRV when starting a consolidator, if the consolidator must automatically reduce the disk error count messages applying to the same disk in a OpenVMS cluster.
- The ADD MESSAGE and DELETE MESSAGE commands require OPER, SYSPRV, or SETPRV privileges.
- The SNS\$ADD_MESSAGE and SNS\$DELETE_MESSAGE SDK routines require OPER, SYSPRV, or SETPRV privileges.

Step 4. Create a Profile

Before you can start Watchdog Manager (using the START CONSOLIDATOR command), you must create a profile to define the nodes to be polled.

For more details on profiles, see the chapter "Profile Management" in the *Unicenter SW for OpenVMS I64 Administrator Guide*.

The installation provides a default profile, SNS\$PROFILE.DAT to SYS\$COMMON:[SYSEXE]. To use this default profile, enter the following command:

```
$ SENSE WATCHDOGS START CONSOLIDATOR /PROFILE=SYS$COMMON:[SYSEXE]SNS$PROFILE.DAT
```

If you do not specify the profile location, Watchdog Manager expects the profile to be in your default directory.

For more details on the START CONSOLIDATOR command, see the chapter "Controller Commands" in the *Unicenter SW for OpenVMS I64 Administrator Guide*.

Shut Down Watchdog Manager

If you are shutting down your system, you should shut down the Watchdog Manager processes. Depending on if you activated the Unicenter Common Services Integration software or not, use one of the following procedures:

- If you activated the Integration software, add the following statement to your system shutdown file:

```
@SYS$STARTUP:CAPOLY$SHUTDOWN
```

CAPOLY\$SHUTDOWN checks for each installed component and shuts them down.

- If you did not activate the Unicenter Common Services Integration software, before performing an orderly system shutdown, execute the following command file to stop the Watchdog Manager process:

```
$ @SYS$STARTUP:USW$MANAGER$SHUTDOWN
```

Uninstallation

Uninstallation scripts enable you to remove Watchdog Manager from your system. The following scripts uninstall Watchdog Manager:

- Main uninstallation De-Install Script: USW\$MANAGER\$DEINSTALL.COM
- Integration-Only uninstallation Scripts: WATCHLNK\$DEINSTALL.COM

These scripts function as follows:

- The first script removes the base product. If the Watchdog Agent is not installed, it will remove the components that are shared with the Watchdog Agent, including Unicenter Common Services Integration components.
- The second script removes only the Integration components.
- The command files to execute the scripts are located in the SYS\$UPDATE directory.

If the manager you are removing is on an OpenVMS cluster, you are asked if you want to remove the SNS\$WATCHDOG account. If your cluster has a shared authorization file and rights list, you should only answer YES to this question if this is the last instance of Watchdog Manager or Watchdog Agent to be removed on the cluster.

Note: A component is not removed if your registry includes multiple dependencies for it.

Watchdog Manager Sample Installation Log

All of your answers to the installation questions and steps are recorded in the installation log. This gives you a tool to reference information about how you completed your Watchdog Manager installation. The following is an example of a complete Watchdog Manager installation log:

```
$ run $1$DQA0:[000000]setup_ia64.exe
UnZipSFX 5.20 of 30 April 1996, by Info-ZIP (Zip-Bugs@wkvx1.wku.edu).
  inflating: ca$setup.com
  inflating: installhelp.hlp
  inflating: product.key
  inflating: usw$readme.txt
Setup location: $7$DKA0:[000000]
```

Unicenter System Watchdog for OpenVMS

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PRODUCT

- 1 Watchdog Agent Install
- 2 Watchdog Manager Install

- I Unicenter Integration Help
- P Product Readme
- H Install Help
- E Exit

Please Enter the Number of the Product you wish to
install >>>> 2

```
%DCL-S-SPAWNED, process SYSTEM_61631 spawned
%DCL-S-ATTACHED, terminal now attached to process SYSTEM_61631
UnZipSFX 5.20 of 30 April 1996, by Info-ZIP (Zip-Bugs@wkvx1.wku.edu).
  inflating: ca$setup.com
  inflating: ca$setup.ini
```

```
Platform type : IA64
OS version    : V8.3
Setup location: $7$DKA0:[000000.ENU.OPENVMS.WATCHDOG_MGR]
Product Kit   : $7$DKA0:[000000.ENU.OPENVMS.WATCHDOG_MGR]USWMGR_UNI_0000_07mdd_V025.ZIP;1
* Enter the device and directory to unzip the save-sets, 110000 blocks of temp space needed
[sys$common:[CA$SETUP]]:
UNZIP location: $7$DKA0:[000000.ENU.OPENVMS.WATCHDOG_MGR]UNZIP_IA64.EXE
Unzipping installation media ... Please be patient ...
```

OpenVMS Software Product Installation Procedure V8.3

It is 28-FEB-2007 at 10:30.

Enter a question mark (?) at any time for help.

%VMSINSTAL-W-ACTIVE, The following processes are still active:

TCPIP\$FTP_1
TCPIP\$SNMP_1
TCPIP\$HR_MIB
TCPIP\$OS_MIBS

* Do you want to continue anyway [NO]? y

* Are you satisfied with the backup of your system disk [YES]?

The following products will be processed:

USWMGR_UNI_0000_07mdd_V V2.5

Beginning installation of USWMGR_UNI_0000_07mdd_V V2.5 at 10:30

%VMSINSTAL-I-RESTORE, Restoring product save set A ...

%VMSINSTAL-I-RESTORE, Restoring product save set Y ...

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* DO YOU ACCEPT THE TERMS AND CONDITIONS OF THIS AGREEMENT AS SET FORTH IN THE
LICENSE AGREEMENT (YES (Y) / NO (N) / VIEW (V)) [N]: y

%VMSINSTAL-I-SYSDIR, This product creates system disk directory SYS\$COMMON:[CAI\$REGISTRY].

* Do you want this software to start right after the installation [YES]?

* Do you want to run the IVP after the installation [YES]?

* Do you want to purge files replaced by this installation [YES]?

The DECwindows/MOTIF components of this software are optional

* Do you want to install the DECwindows/MOTIF components [YES]?

The TCP/IP stack TCP/IP Services is up and running...

The TCP/IP stack TCP/IP Services is up and running...

To ensure that the System Watchdog Agent runs with the proper quotas, this
installation procedure creates an account for the server named
SNS\$WATCHDOG. This account has no special privileges, and is set up
for network operations only.

The installation procedure selected the free UIC [376,202]
for the SNS\$WATCHDOG account...

%VMSINSTAL-I-SYSDIR, This product creates system disk directory SYS\$SYSDEVICE:[SNS\$WATCHDOG].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
SYS\$COMMON:[SYSHLP.EXAMPLES.SNS].

**** NOTE ****

If you are installing on a cluster that has mixed versions,
mixed architectures, or uses different IP stacks in the cluster,
you MUST install on SYS\$SPECIFIC. Otherwise, you may use the
default of SYS\$COMMON.

* Enter the full pathname for the Unicenter Common Services root directory [SYS\$COMMON:[UNIVMS]]:

Selected pathname: SYS\$COMMON:[UNIVMS]

* Is that correct [Y]?

%VMSINSTAL-I-SYSDIR, This product creates system disk directory SYS\$COMMON:[UNIVMS].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory CAPOLY\$BIN.
%VMSINSTAL-I-SYSDIR, This product creates system disk directory CAPOLY\$TMP.
%VMSINSTAL-I-SYSDIR, This product creates system disk directory CAPOLY\$DATA.
%VMSINSTAL-I-SYSDIR, This product creates system disk directory CAPOLY\$LOGS.
COMMON install complete
%VMSINSTAL-I-RESTORE, Restoring product save set R ...

The installation will now check the for the presence of an
OpenVMS account CAUNIVMS. This account is needed to support
the remote commands from the Unicenter management station.

The installation did not find the CAUNIVMS account.
It will prompt you for the UIC information to create the account.
You will need to have a unique UIC value.

* Enter a new UIC (include brackets) [[713,63]]:

%VMSINSTAL-I-ACCOUNT, This installation creates an ACCOUNT named CAUNIVMS.
%UAF-I-ADDMSG, user record successfully added
%UAF-I-RDBADDMSGU, identifier CAUNIVMS value [000713,000063] added to rights database
%UAF-I-RDBADDMSGU, identifier NSM value [000713,177777] added to rights database
* Do you want to activate the Unicenter Common Services Integration Components [YES]?
%USWMGR_UNI_0000_07mdd_V-I-EXISTS, Directory VMI\$SPECIFIC:[UNIVMS.BIN] already exists.

Unicenter for OpenVMS - product startup selection

-
- | | | |
|---|---|----|
| 1 | Unicenter Job Management | NO |
| 2 | Unicenter Job Management Agent | NO |
| 3 | Unicenter Universal Job Management Agent | NO |
| 4 | Unicenter NSM Workload Management Jobflow Support . | NO |
| 5 | Unicenter Job Management NSM/UCS Integration | NO |
| 6 | Unicenter Console Management | NO |

```

7  Unicenter System Watchdog ..... NO
8  Unicenter System Watchdog NSM/UCS Integration ..... YES
9  Unicenter Performance Management Agent ..... NO
10 Unicenter NSM Performance Trend Cube ..... NO
11 Unicenter Common Services OpenVMS Gateway ..... YES

```

* Are you satisfied with the product selection Y/[N] ? y

To complete integration with an Unicenter Management Station,
its IP address or node name is required.

* Node Name or IP Address ? WINBOX

```

%USWMGR_UNI_0000_07mdd_V-I-TRAPDST, The Unicenter Management station is set to "WINBOX"
%USWMGR_UNI_0000_07mdd_V-I-CREPRM, Created the file SYS$MANAGER:CAPOLY$SYSTARTUP.COM
%USWMGR_UNI_0000_07mdd_V-I-SETPRM, You can modify the selection later, using:
SYS$MANAGER:CAPOLY$SET_STARTUP_PARAMS.COM

```

All questions regarding this installation have been asked.
The installation will run for approximately 2 to 5 minutes

```

%VMSINSTAL-I-RESTORE, Restoring product save set Z ...
%VMSINSTAL-I-SYSDIR, This product creates system directory [CA_LIC].
%VMSINSTAL-I-SYSDIR, This product creates system specific directory [CA_LIC].

```

```

%VMSINSTAL-I-RESTORE, Restoring product save set D ...

```

The installation procedure generates a password and applies
it to the SNS\$WATCHDOG account...
You may change that password at your convenience.

```

%USWMGR_UNI_0000_07mdd_V-I-CREACC, Creating account SNS$WATCHDOG
%VMSINSTAL-I-ACCOUNT, This installation creates an ACCOUNT named SNS$WATCHDOG.
%UAF-I-ADDMSG, user record successfully added
%UAF-I-RDBADDMSGU, identifier SNS$WATCHDOG value [000376,000202] added to rights database
%VMSINSTAL-I-ACCOUNT, This installation updates an ACCOUNT named SNS$WATCHDOG.
%UAF-I-MDFYMSG, user record(s) updated
%VMSINSTAL-I-ACCOUNT, This installation updates an ACCOUNT named SNS$WATCHDOG.
%UAF-I-MDFYMSG, user record(s) updated
%VMSINSTAL-I-SYSDIR, This product creates system disk directory SYS$SYSDEVICE:[SNS$WATCHDOG].
%CREATE-I-EXISTS, SYS$SYSDEVICE:[SNS$WATCHDOG] already exists
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
SYS$SYSDEVICE:[SNS$WATCHDOG.IA64].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
SYS$SYSDEVICE:[SNS$WATCHDOG.IA64.I64BOX].

```

Providing files...
Providing Examples to SNS\$EXAMPLES
Providing Consolidator-specific files...

Providing DECwindows/MOTIF profile editor...
Providing product readme ...

Providing Startup, Shutdown, Installation Verification
and Deinstallation procedures ...

Installing links...

%VMSINSTAL-I-RESTORE, Restoring product save set U ...

To have CA Common Services started when rebooting, add
"@SYS\$STARTUP:CAPOLY\$STARTUP" to the system startup file,
either SYS\$MANAGER:SYSTARTUP_V5.COM for VMS V5 or
SYSTARTUP_VMS.COM for OpenVMS V6 and OpenVMS V7, and add
"@SYS\$STARTUP:CAPOLY\$SHUTDOWN" to the system shutdown file,
SYS\$MANAGER:SYSHUTDOWN.COM.

Checking for required TCP/IP files. Depending on what TCP/IP
product you are running, you may see error messages stating
that a file cannot be found. You may safely ignore these
messages unless you do not have any of the supported TCP/IP
stacks running on this machine. In that case, the installation
will abort.

Required TCP/IP file test completed.

%USWMGR_UNI_0000_07mdd_V-I-BUILDING, Linking CAPOLY\$TNGD...

%USWMGR_UNI_0000_07mdd_V-I-BUILDING, Linking CAPOLY\$TRAP...
%USWMGR_UNI_0000_07mdd_V-I-BUILDING, Linking CAPOLY\$CASEND...
%USWMGR_UNI_0000_07mdd_V-I-BUILDING, Linking CAPOLY\$FORCEX...

You may run the CA Common Services integration Installation
Verification Procedure at any time by typing the command:

\$ @SYS\$TEST:TNG\$LINKS\$IVP.COM

Linking CAPOLY\$PSWEVENT...

Product Management Command Files

Startup: \$ @SYS\$STARTUP:USW\$MANAGER\$STARTUP.COM
Shutdown: \$ @SYS\$STARTUP:USW\$MANAGER\$SHUTDOWN.COM
IVP: \$ @SYS\$TEST:USW\$MANAGER\$IVP.COM
Deinstall: \$ @SYS\$UPDATE:USW\$MANAGER\$DEINSTALL.COM

Common Component Command Files_[m

```
-----
Startup:          $ @SYS$STARTUP:CAPOLY$STARTUP
Shutdown:        $ @SYS$STARTUP:CAPOLY$SHUTDOWN
Reconfig Common Startup: $ @SYS$MANAGER:CAPOLY$SET_STARTUP_PARAMS
List Installed Products: $ @SYS$STARTUP:CAREGISTRY$LISTPRODUCTS [FULL]
-----
```

Note: A call to the product startup procedure or common startup procedure should be inserted manually in SYS\$STARTUP:SYSTARTUP_VMS.COM in order to start the product automatically at system boot time. Similarly, a call to the product or common shutdown procedure should be inserted in the system shutdown procedure, SYS\$MANAGER:SYSHUTDOWN.COM

```
%VMSINSTAL-I-MOVEFILES, Files will now be moved to their target directories...
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%DCL-I-SUPERSEDE, previous value of SNS$EXAMPLES has been superseded
OpenVMS TNG Gateway Daemon Shutdown Complete
```

Unicenter for OpenVMS - product startup selection

```
-----
 1 Unicenter Job Management ..... NO
 2 Unicenter Job Management Agent ..... NO
 3 Unicenter Universal Job Management Agent ..... NO
 4 Unicenter NSM Workload Management Jobflow Support . NO
 5 Unicenter Job Management NSM/UCS Integration ..... NO
 6 Unicenter Console Management ..... NO
 7 Unicenter System Watchdog Agent ..... YES
 8 Unicenter System Watchdog NSM/UCS Integration ..... YES
 9 Unicenter Performance Management Agent ..... NO
10 Unicenter NSM Performance Trend Cube ..... NO
11 Unicenter Common Services OpenVMS Gateway ..... YES
```

The Unicenter Management station is set to "WINBOX"

Note: You may change the list of products to be started on this node, using:
 @SYS\$MANAGER:CAPOLY\$SET_STARTUP_PARAMS.COM
 prior to launching this startup procedure...

```
Starting OpenVMS TNG Gateway Daemon...
%RUN-S-PROC_ID, identification of created process is 21001211
Starting System Monitor Event Daemon...
%RUN-S-PROC_ID, identification of created process is 21001212
%SNS-I-PROREADWAIT, Reading profile, please wait ...
%SNS-I-CONSSTARTED, The Consolidator has been started, ID is 29030
%SNS-I-CONSPID, The Consolidator PID is 21001213
```

Unicenter System Watchdog version 2.5 IVP starting

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Testing the Controller and the System Watchdog Manager...

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%SNS-I-PROREADWAIT, Reading profile, please wait ...

%SNS-I-CONSSTARTED, The Consolidator has been started, ID is 29035

%SNS-I-CONSPID, The Consolidator PID is 21001214

Controller : V2.5-0702

Consolidator : 29035 V2.5-0702

Profile : \$7\$DKA0:[SYS0.SYSCOMMON.SYSEXE]SNS\$PROFILE.DAT

Log file : SNS\$LOG.DAT Disabled

Action routines : Enabled

DECtalk : Enabled

Mailbox : Enabled

Polling interval : 60

Before setting : Not specified

Since setting : Not specified

Watchdog information:

Node	Status	Class	Version	OS Version
------	--------	-------	---------	------------

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%SNS-S-CONSSTOPPED, Consolidator ID 29035 stopped

Unicenter System Watchdog version 2.5 IVP completed

Starting TNG\$LINKS\$IVP

Sending IVP Request to node: WINBOX

wait 5 seconds

Checking node: WINBOX

..... Responded OK

All Unicenter Management stations responded!

Unicenter Links IVP completed successfully!

Installation of USWMGR_UNI_0000_07mdd_V V2.5 completed at 10:36

Adding history entry in VMI\$ROOT:[SYSUPD]VMSINSTAL.HISTORY

Creating installation data file: VMI\$ROOT:[SYSUPD]USWMGR_UNI_0000_07mdd_V025.VMI_DATA

VMSINSTAL procedure done at 10:36

```
%DELETE-I-FILDEL, SYS$COMMON:[000000]CA$SETUP.DIR;1 deleted (16 blocks)
%DELETE-I-FILDEL, SYS$SYSROOT:[SYSMGR]CA$SETUP.INI;1 deleted (112 blocks)
%DELETE-I-FILDEL, SYS$SYSROOT:[SYSMGR]CA$SETUP.COM;1 deleted (112 blocks)
%DCL-S-RETURNED, control returned to process SYSTEM_43979
```

Unicenter System Watchdog for OpenVMS

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PRODUCT

- 1 Watchdog Agent Install
- 2 Watchdog Manager Install

- I Unicenter Integration Help
- P Product Readme
- H Install Help
- E Exit

Please Enter the Number of the Product you wish to
install >>>> e

```
%DELETE-I-FILDEL, SYS$SYSROOT:[SYSMGR]CA$SETUP.COM;1 deleted (112 blocks)$
```


Appendix A: Standard System Maintenance Procedures

This section contains the following topics:

[Check and Set Process Account Quotas](#) (see page 61)

[Check System Parameter Values](#) (see page 62)

[Calculate the Values for Global Pages or Pagelets and Global Sections](#) (see page 62)

[Change System Parameter Values with AUTOGEN](#) (see page 63)

Check and Set Process Account Quotas

User account quotas are stored in the file SYSUAF.DAT. Use the OpenVMS Authorize Utility (AUTHORIZE) to verify and change user account quotas.

To check and set process account quotas

1. Set your directory to SYS\$SYSTEM, and then run AUTHORIZE, as shown in the following example:

```
$ SET DEFAULT SYS$SYSTEM
$ RUN AUTHORIZE
UAF>
```

2. At the UAF> prompt, enter the SHOW command with an account name. For example:

```
UAF> SHOW SMITH
```

3. To change a quota, enter the MODIFY command.

The following example changes the FILLM quota for the SMITH account and then exits from the utility:

```
UAF> MODIFY SMITH /FILLM=50
UAF> EXIT
```

After you exit from the utility, the system displays messages indicating whether or not changes were made. After the changes have been made, you must log out and log in again for the new quotas to take effect.

For more information on modifying account quotas, see the description of the Authorize Utility in HP's OpenVMS documentation.

Check System Parameter Values

To check the values of your system parameters

1. Enter the following command at the DCL prompt to invoke the System Generation Utility (SYSGEN):

```
$ RUN SYS$SYSTEM:SYSGEN
SYSGEN>
```

2. At the SYSGEN> prompt, enter the SHOW command to display the value of a system parameter.

The following example displays the value for the WSMAX system parameter:

```
SYSGEN> SHOW WSMAX
```

3. Enter the EXIT command at the SYSGEN> prompt to return to DCL level.

Calculate the Values for Global Pages or Pagelets and Global Sections

During the installation, the installation procedure creates a new copy of the DCL command tables that includes the SENSE WATCHDOGS command. For the installation procedure to complete this process successfully, your system must have available enough unused global sections and global pages or pagelets.

Note: If you do not ensure that your system has the necessary global pages or pagelets and global section SYSGEN parameters for the installation, the DCL tables can be unavailable until rebooted.

- To determine the number of global pages and global sections that the DCL tables at your site require, enter the following commands:

```
$ INSTALL
INSTALL> LIST SYS$LIBRARY:DCLTABLES.EXE/GLOBAL
```

The output generated is similar to the following:

```
DCLTABLES;219 Open Hdr Shar Lnkbl
System Global Sections
DCLTABLES_001 (06000000) PRM SYS Pagcnt/Refcnt=484/21296
```

In this example, the DCL command table uses 1 global section, as indicated by the single entry DCLTABLES_001. It also uses 484 global pages, indicated by the Pagcnt. Therefore, to replace your DCL command table to include the SENSE command, this system needs a minimum of 1 unused global section and 484 unused global pages.

- To calculate the number of unused global sections, enter the following command:

```
INSTALL> LIST/GLOBAL/SUMMARY
Summary of Local Memory Global Sections
299 Global Sections Used, 32316/12684 Global Pages Used/Unused
```

In this example, there are 299 used global sections and 12684 unused global pages. Because this system requires 484 global pages to replace its DCL command table and 12684 are available, the GBLPAGES parameter does not need to be increased.

- To check the current value of GBLSECTIONS, enter the following sequence of commands:

```
$ RUN SYS$SYSTEM:SYSGEN
SYSGEN> USE CURRENT
```

```
SYSGEN> SHOW GBLSECTIONS
```

These commands produce output similar to the following:

Parameter Name	Current	Default	Minimum	Maximum	Unit	Dynamic
GBLSECTIONS	500	128	20	4095	Sections	

- To make the calculation for this system, subtract the number of used GBLSECTIONS from the number of current GBLSECTIONS. For example:

```
500 - 299 = 201 unused sections
```

Because this system required only one global section to replace its DCL command table and there are 201 unused global sections, the value of the SYSGEN parameter GBLSECTIONS would not need to be altered.

If you need to change the number of global pages, pagelets, or sections, invoke AUTOGEN after entering the new parameter values in SYS\$SYSTEM:MODPARAMS.DAT.

Change System Parameter Values with AUTOGEN

Use the AUTOGEN command procedure to change system parameters. AUTOGEN automatically adjusts values for parameters that are associated with the values you reset manually.

To change system parameters with AUTOGEN

1. Edit the following file: SYS\$SYSTEM:MODPARAMS.DAT
2. Change a parameter value listed in this file, delete the current value associated with that parameter and enter the new value.

3. To add a new parameter, add a line to the file that includes both the name of the parameter and its value. For example:

```
WSMAX = 8096
```

4. To modify incremental parameters such as free global pages or pagelets and global sections, use `ADD_parameter`. The following example increases the global page setting by 2000:

```
ADD_GBLPAGES = 2000
```

Note: When you set the page file quota, do not use a value that exceeds the amount of page file space available on the system.

5. After you make all your changes, exit from the editor and execute the AUTOGEN procedure to recalculate your system parameters.

The following command recalculates your system parameters and reboots the system:

```
$ @SYS$UPDATE:AUTOGEN GETDATA REBOOT
```

When you specify REBOOT, AUTOGEN performs an automatic system shutdown, and then reboots the system. Any users logged on to the system are immediately disconnected during the shutdown. The automatic reboot puts the new parameter values into effect.

The AUTOGEN utility automatically adjusts some of the SYSGEN parameters based on the consumption of resources since the last reboot. If you do not want to take advantage of this automatic adjustment, include the NOFEEDBACK qualifier on the AUTOGEN command line.

For more information about using AUTOGEN, refer to HP's *OpenVMS System Management Utilities Reference* manual.

Appendix B: File List

This appendix lists the files created or modified during the installation of the Unicenter SW for OpenVMS software and the directories where they are located. You will have different files on your system depending on which features of Watchdog you have installed.

Files Created or Modified

The following table lists the directory and file names of files created or modified during installation of Unicenter SW for OpenVMS:

Directory and File Names	Directory Name	File Installed For
LOGIN.COM	SNS\$WATCHDOG	Watchdog Agent
SNS\$AGENT\$RESTART.COM	SYS\$STARTUP	Watchdog Agent
SNS\$CONSOLIDATOR.EXE	SYS\$COMMON:[SYS EXE]	Watchdog Manager
SNS\$CONTROL.EXE	SYS\$COMMON:[SYS EXE]	Watchdog Manager and Watchdog Agent
SNS\$DECW_EDITOR.EXE	SYS\$COMMON:[SYS EXE]	Watchdog Manager if you chose to install the Motif interface
SNS\$DECW_EDITOR_HELP.DE CW\$BOOK	SYS\$HELP	Watchdog Manager if you chose to install the Motif interface.
SNS\$DECW_MAIN.UID	SYS\$SYSROOT:[DE CW\$DEFAULTS.USE R]	Watchdog Manager if your chose to install the Motif interface
SNS\$EDITOR.EXE	SYS\$COMMON:[SYS EXE]	Watchdog Manager
SNS\$EDITOR.HLB	SYS\$HELP	Watchdog Manager
SNS\$FEED_PCM.C	SNS\$EXAMPLES	Watchdog Manager and Watchdog Agent
SNS\$FEED_PCM.OBJ	SNS\$EXAMPLES	Watchdog Manager and Watchdog Agent
SNS\$LOGFILE_EXAMPLE.COM	SNS\$EXAMPLES	Watchdog Manager and Watchdog Agent

Directory and File Names	Directory Name	File Installed For
SNS\$LOGFILE_EXAMPLE.OBJ	SNS\$EXAMPLES	Watchdog Manager and Watchdog Agent
SNS\$MESSG.EXE	SYS\$MESSAGE	Watchdog Manager and Watchdog Agent
SNS\$MESSG.MSG	SNS\$EXAMPLES	Watchdog Manager and Watchdog Agent
SNS\$PROFILE.DAT	SYS\$SYSTEM	Watchdog Manager
SNS\$PURGE_DISK.COM	SNS\$EXAMPLES	Watchdog Manager and Watchdog Agent
SNS\$REJECT_ALWAYS.EXE	SNS\$EXAMPLES	Watchdog Manager and Watchdog Agent
SNS\$REJECT_ONCE.EXE	SYS\$COMMON:[SYS EXE]	Watchdog Agent
SNS\$RENAME_LOG.COM	SNS\$EXAMPLES	Watchdog Manager and Watchdog Agent
SNS\$RESTART_QUEUE.COM	SNS\$EXAMPLES	Watchdog Manager and Watchdog Agent
SNS\$SEND_MAIL.COM	SNS\$EXAMPLES	Watchdog Manager and Watchdog Agent
SNS\$SHR.EXE	SYS\$LIBRARY	Watchdog Manager and Watchdog Agent
SNS\$SHR_INTERFACE_.ADA	SNS\$EXAMPLES	Watchdog Manager and Watchdog Agent
SNS\$SHUTDOWN.COM	SYS\$STARTUP	Watchdog Manager and Watchdog Agent
SNS\$SHUTDOWN_NOTIFY.C	SNS\$EXAMPLES	Watchdog Manager and Watchdog Agent
SNS\$SHUTDOWN_NOTIFY.OBJ	SNS\$EXAMPLES	Watchdog Manager and Watchdog Agent
SNS\$STARTUP.COM	SYS\$STARTUP	Watchdog Manager and Watchdog Agent
SNS\$TCPIP_SHR.EXE	SYS\$LIBRARY	Watchdog Manager and Watchdog Agent if requested during installation and if a TCPIP stack is installed on the system.
SNS\$WATCHDOG.COM	SNS\$WATCHDOG	Watchdog Agent

Directory and File Names	Directory Name	File Installed For
SNS\$WATCHDOG.EXE	SYS\$COMMON:[SYS EXE]	Watchdog Agent
SNS.DIR	SNS\$EXAMPLES	Watchdog Manager and Watchdog Agent
USW\$AGENT\$DEINSTALL.COM	SYS\$UPDATE	Watchdog Agent
USW\$AGENT\$IVP.COM	SYS\$TEST	Watchdog Agent
USW\$AGENT\$RESTART.COM	SNS\$WATCHDOG	Watchdog Agent
USW\$AGENT\$SHUTDOWN.CO M	SYS\$STARTUP	Watchdog Agent
USW\$AGENT\$STARTUP.COM	SYS\$STARTUP	Watchdog Agent
USW\$MANAGER\$DEINSTALL.C OM	SYS\$UPDATE	Watchdog Manager
USW\$MANAGER\$IVP.COM	SYS\$TEST	Watchdog Manager
USW\$MANAGER\$SHUTDOWN. COM	SYS\$STARTUP	Watchdog Manager
USW\$MANAGER\$STARTUP.CO M	SYS\$STARTUP	Watchdog Manager
USW\$README_vvv_yymmdd.T XT	SYS\$HELP	Watchdog Manager and Watchdog Agent
WATCHIT\$SHUTDOWN.COM	SYS\$STARTUP	Watchdog Manager and Watchdog Agent
WATCHIT\$STARTUP.COM	SYS\$STARTUP	Watchdog Manager and Watchdog Agent

Appendix C: Third-Party Software Agreement

Portions of this product include software developed by third-party software providers. This appendix provides information regarding this third-party software.

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