

EnlightenDSM™
Quick Installation Guide

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EnlightenDSM™ Distributed System Administration and Monitoring Tool

EnlightenDSM/Workgroup and EnlightenDSM/Advanced are easy-to-install systems management tools that immediately improve system interoperability and reliability in a mixed UNIX and Windows NT computing environment. With EnlightenDSM it's simple to monitor and manage multiple hosts through the centralized graphical management console.

Features of EnlightenDSM/Workgroup

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| Configure: | You can create dynamic groups of machines to manage any number or combination of UNIX and NT systems. |
| User: | You can use predefined templates to concurrently configure and manage multiple users and groups. |
| Printer: | You can configure and manage local and network printer resources, print queues and print jobs. |
| Network: | EnlightenDSM/Workgroup functions as a one-stop configuration and management tool for DNS, NIS and NIS+ naming services. |

Features of EnlightenDSM/Advanced

EnlightenDSM/Advanced includes all the features of EnlightenDSM/Workgroup in addition to the listed features below.

- Security: You can search and discover potential back door security problems and obvious passwords.
- Disk: You can analyze usage by filesystem, user, or group across the entire network of UNIX and NT systems.
- Archive: EnlightenDSM/Advanced exercises incremental or full backup and restores across the entire network by filesystem, user, or group.
- System: You can easily add, delete, or modify *cron* jobs on multiple hosts; shut down or reboot remote systems.
- Events: EnlightenDSM/Advanced conducts comprehensive system monitoring and alarms utilizing predefined and customizable tests.

Installation Requirements

These are simplified installation requirements. Detailed instructions are available on the CD in the */doc* directory. EnlightenDSM has the following installation:

- Obtain license strings before you install EnlightenDSM. You can get them through Silicon Graphics' Key-O-Matic license request page at <http://www.sgi.com/Products/license.html>.
- Determine the system identification for each machine you wish to manage by logging in and entering **sysinfo -s**.
- The install machine must have access to a CD-ROM drive and be able to connect through TCP/IP to the hosts where you want to install EnlightenDSM.
- The Enterprise Management Database (EMD) requires 20 MB of disk space for the initial installation. Depending on your particular situation, this may grow to 50 MB (average) or even 100 MB. The PEP engine requires 10 MB of free disk space and the GUI host requires an additional 60-80 MB. The remote EnlightenDSM agents require 60 MB of disk space.
- Obtain the root password for each host on which EnlightenDSM will be installed.

Note: EMD *cannot* be installed on an NFS mounted partition. For optimal performance, do not install any EnlightenDSM component on an NFS mounted partition.

Installing EnlightenDSM

You must be logged in as the root user to install EnlightenDSM.

The IRIX Interactive Desktop will mount the CD-ROM to */CDROM*, and the CD drive icon on your desktop will show an inserted CD. If the CD drive is on another system, use the *Remote Directory* tool in your Desktop menu bar to locate the system and */CDROM* directory.

Licensing Details

EnlightenDSM software is licensed using FLEXlm technology, and requires a minimum of three licenses. All remote and local licenses for EnlightenDSM components are stored in the FLEXlm subdirectory on the server machine in the file named *license.dat*. The server machine is also identified as the EMD host during installation.

Silicon Graphics Origin servers shipped with IRIX 6.5 ASE and above include all licenses to run EnlightenDSM/Workgroup at no extra charge. Silicon Graphics workstations shipped with IRIX 6.5 AWE and OS upgrades to IRIX 6.5 contain additional EnlightenDSM/Workgroup intelligent agent licenses at no extra charge.

At least one of each of the three license strings listed in the table below is required to run Enlighten**DSM**/Workgroup. A typical installation managing multiple hosts will utilize multiple agents and multiple agent licenses with one license for each host.

Key-O-Matic Product Name	Server Bundle	Workstation Bundle	OS Upgrade Bundle
Enlighten GMS SGI	Y	N	N
Enlighten GUI SGI	Y	N	N
Enlighten Agent SGI	Y	Y	Y

Additional DSA intelligent agents for both the UNIX and NT operating systems are available. The Enlighten**DSM**/Workgroup solution can be upgraded to the Enlighten**DSM**/Advanced product, which provides robust system monitoring tools along with enhanced system administration capabilities. Contact your Silicon Graphics sales representative for product ordering details. For information on Enlighten**DSM**, visit the Enlighten Software Solutions Web site at <http://www.EnlightenDSM.com>.

Configuring EnlightenDSM

Complete the procedures below to configure EnlightenDSM. Double-click the *cdinstal* icon. Carefully read the licensing agreement and follow the instructions to accept the terms.

Step 1: Set Up EMD

Provide the hostname, installation directory, and root password.

Step 2: Set Up PEP

Provide the hostname, installation directory, and root password. Although the local hostname is the default PEP host, any host in your intranet may be selected as the PEP host.

Step 3: Set Up GUI and Agents

Specify the host(s) where you want to install the EnlightenDSM components, as specified in the EnlightenDSM Configuration area.

Specify the common root password for the host(s) shown in the "Hostname(s)" field. If any of the hosts use other root passwords, they will remain in the "Hostname(s)" field after you OK this step. You can then enter the root password(s) for the remaining hosts.

Both the *Start daemons after install* and *Restart daemons after reboot* toggles should be selected (the default) or the EnlightenDSM components will not come up automatically.

Specify in the “Managing Hosts” field which host(s) will be allowed to connect through EnlightenDSM/GUI to manage the hosts shown in the “Hostname(s)” list box. The default is your localhost.

Caution: If you leave this field blank, any host running the EnlightenDSM/GUI can manage the hosts shown in the “Hostname(s)” field.

Step 4: Set Up Licensing

Update the “License Information” text field with the license key data provided for all clients by Silicon Graphics (see the “Licensing Details” section earlier in this document). Click OK to close the window.

Step 5: Install

Click the *Step 5: Install* button, and select *Start Installation* to complete the installation process.

Starting EnlightenDSM

From a shell, xterm, or other such window, enter this command:

your EnlightenDSM installation directory/**bin/xenln**

After invoking *xenln*, the EnlightenDSM main menu toolbar should appear. From here, you can begin to use EnlightenDSM to help you administer your system and network needs. Refer to the EnlightenDSM reference manual and user guide (both are included on the CD-ROM in pdf format) for more details on how to use EnlightenDSM.