

May 7, 2003

**Legato[®] Single
Server Version
Installation Guide**

Release 6.1

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Legato Single Server Version Installation Guide, Release 6.1

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e6-1678-01

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Preface

This *Legato® Single Server Version Installation Guide, Release 6.1* provides instructions on how to upgrade to, install, and uninstall the Legato Single Server Version release 6.1 software.

After installing the Legato Single Server Version software, refer to the *Legato Single Server Version Administrator's Guide, Release 6.1* and the program's online help for detailed instructions on how to configure, administer, and use the Legato Single Server Version software for Oracle data storage management.

Audience

The information in this guide is intended for system administrators and Oracle database administrators (DBAs) who are responsible for installing and maintaining Oracle Server backup and recovery systems. Operators who monitor the daily Oracle database backups may also find this manual useful.


Effective use of this guide requires a working knowledge of Oracle concepts and terminology, especially those related to Oracle database backup and recovery.

Product Documentation

Legato offers an extensive archive of product documentation at its web site www.legato.com. Most of the documents are in Adobe Acrobat Portable Document Format (PDF), and can be viewed by downloading and installing the Adobe Acrobat Reader. The Reader is available directly from Adobe at www.adobe.com. To install and use the Reader on the preferred platform, refer to the instructions at the Adobe web site.

Conventions

This document uses the following typographic conventions and symbols to make information easier to access and understand.

Convention	Indicates	Example
boldface	Names of line commands, daemons, options, programs, or scripts	The nsradmin command starts the command line version of the administration program.
<i>italic in text</i>	Pathnames, filenames, computer names, new terms defined in the Glossary or within the chapter, or emphasized words	Displayed messages are also written to <i>/nsr/logs/daemon.log</i> .
<i>italic in command line</i>	A variable that must be provided in the command line	nsradmin -s <i>server-name</i>
fixed-width	Examples and information displayed on the screen	media waiting: recover waiting for 8mm 5GB tape volume name
fixed-width, boldface	Commands and options that must be typed exactly as shown	nsr_shutdown -a
Menu_Name> Command	A path or an order to follow for making selections in the GUI	Volume>Change Mode>Appendable
Important:	Information that must be read and followed to ensure successful backup and recovery of data	 <hr/> Important: Use the no_verify option with extreme caution. <hr/>

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Chapter 1: Introduction

This *Legato Single Server Version Installation Guide, Release 6.1* describes how to install and enable Legato Single Server Version release 6.1 software on a supported UNIX, Windows 2000, or Windows NT (Intel) system running Oracle9i Server software.

The Legato Single Server Version software is distributed on the Oracle9i Server software CD-ROM.

Note: The Legato Single Server Version documentation is available only from the Legato web site at www.legato.com/LSSV.

Use the information in this guide to:

- Upgrade to Legato Single Server Version release 6.1 from one of the following Legato Storage Manager releases:
 - Release 5.5 on UNIX
 - Release 5.7 on Windows
- Install Legato Single Server Version release 6.1 on a system that does *not* contain existing Legato Storage Manager or Legato NetWorker® software.
- Uninstall the Legato Single Server Version release 6.1 software.

To perform these procedures on a specific platform, see the appropriate chapter:

- ["Chapter 2: Installation Procedures on AIX" on page 13](#)
- ["Chapter 3: Installation Procedures on HP-UX" on page 18](#)
- ["Chapter 4: Installation Procedures on Linux" on page 24](#)
- ["Chapter 5: Installation Procedures on Solaris" on page 29](#)
- ["Chapter 6: Installation Procedures on Tru64 UNIX" on page 35](#)
- ["Chapter 7: Installation Procedures on Windows" on page 40](#)

Installation and Configuration Options

The Legato Single Server Version software comprises a media management layer, as required by Recovery Manager (RMAN) for Oracle9i database backups and restores using tape storage. Legato Single Server Version is a restricted functionality version of the latest Legato NetWorker and Legato NetWorker Module for Oracle products available from Legato Systems, Inc.

Legato Single Server Version must be installed on the Oracle Server host. Legato Single Server Version works in conjunction with the Oracle Server for Oracle data storage management. Together, the Legato Single Server Version and Oracle Server software components provide a storage management solution for the Oracle9i data on a supported UNIX, Windows 2000, or Windows NT (Intel) system.

The Legato Single Server Version Administrator program is a graphical user interface for administering the Legato Single Server Version configuration. The Administrator program is installed during the Legato Single Server Version installation on the Oracle Server host.

Note: The Legato Single Server Version Administrator program can be installed and run separately on a Windows computer, using the instructions in ["Chapter 7: Installation Procedures on Windows" on page 40](#). The Administrator program *cannot* be installed separately on a UNIX computer.

There are two different ways to install Legato Single Server Version:

- Legato Single Server Version can be installed by using Oracle Installer and selecting Legato Single Server Version through the Custom Installation option of the Oracle9i Enterprise Edition or Oracle9i Standard Edition. For more information on using Oracle Installer, refer to the *Oracle9i Installation Guide*.
- Legato Single Server Version can be installed manually without using Oracle Installer. For more information on installing Legato Single Server Version manually, see the appropriate chapter in this guide for a particular platform.

After installing Legato Single Server Version, the Oracle9i Server must be configured as a client of Legato Single Server Version for backup and restore operations. For information on configuration procedures, refer to the *Legato Single Server Version Administrator's Guide, Release 6.1*.

Chapter 2: Installation Procedures on AIX

This chapter describes how to upgrade to, install, and uninstall Legato Single Server Version release 6.1 on a supported AIX system. See the appropriate section:

- ["Upgrading from Legato Storage Manager" on page 13](#)
- ["Installing Legato Single Server Version" on page 14](#)
- ["Uninstalling Legato Single Server Version" on page 17](#)

Upgrading from Legato Storage Manager

To upgrade from Legato Storage Manager to Legato Single Server Version:

1. Uninstall Legato Storage Manager. See ["How to Uninstall Legato Storage Manager" on page 13](#).
2. Install Legato Single Server Version. See ["Installing Legato Single Server Version" on page 14](#).

How to Uninstall Legato Storage Manager

Legato Storage Manager *cannot* be uninstalled using Oracle Installer. Legato Storage Manager must be uninstalled using the information in this section.



Important: The following procedure deletes the Legato Storage Manager index and configuration files (and the `/nsr` directory). After using this procedure, it will *not* be possible to restore from existing Legato Storage Manager backups.

Legato Single Server Version does *not* support the restore of Oracle data from Legato Storage Manager backups.

To uninstall Legato Storage Manager:

1. Verify that no Oracle database backups are running.
2. For *each* ORACLE_HOME that uses Legato Storage Manager for backups:
 - a. Log in as the ORACLE_HOME owner:

```
# su ORACLE_HOME_owner
```

- b. Enter the following commands to delete the required symbolic links:

```
$ cd $ORACLE_HOME/lib
$ rm liblsm.a
$ rm libobk.a
```

3. Log in as the root user:

```
# su root
```

4. Enter the following `nsr_ize` command to uninstall Legato Storage Manager:

```
# nsr_ize -r -s
```

When prompted whether to delete the Legato Storage Manager client index, media index, and resource configuration files, enter [y].

Installing Legato Single Server Version

Legato Single Server Version is typically installed using Oracle Installer, by selecting the Custom installation of the Oracle software and then selecting the Legato Single Server Version option. If Legato Single Server Version is *not* installed using Oracle Installer, the software can be installed manually using the instructions in this section.

Before installing Legato Single Server Version, uninstall any existing Legato Storage Manager or Legato NetWorker software on the system. If existing Legato software is not detected during the Legato Single Server Version installation, both the existing Legato software and the Legato Single Server Version software might not function properly.

- To uninstall existing Legato Storage Manager release 5.5, see ["Upgrading from Legato Storage Manager" on page 13](#).

Note: To uninstall Legato Storage Manager prior to release 5.5, refer to the Legato Storage Manager uninstall instructions in the appropriate *Oracle Installation Guide*.

- To uninstall existing Legato NetWorker software, refer to the instructions in the appropriate *Legato NetWorker Installation Guide*.

How to Install Legato Single Server Version

To install Legato Single Server Version:

- Verify that there is sufficient disk space for each of the Legato Single Server Version software components, as shown in [Table 1 on page 14](#).

Note: The requirements in [Table 1](#) apply to a default Legato Single Server Version installation, without relocation of the software components.

Table 1. Legato Single Server Version Requirements on AIX (Part 1 of 2)

Components	Default Location	Space Requirement
Software binary files	<code>/bin</code>	45 MB
Device drivers	<code>/etc/LGTOuscsci</code>	1 MB

Table 1. Legato Single Server Version Requirements on AIX (Part 2 of 2)

Components	Default Location	Space Requirement
Online index files	<i>/nsr</i>	100 MB
Online man pages	<i>/usr/man</i>	1 MB

2. Make copies of the following operating system files, which are modified by the Legato Single Server Version installation script in [step 6](#).

```
/etc/inittab
```

```
/etc/rc.nsr
```

```
/etc/rpc
```

```
/etc/syslog.conf
```

3. Log in as the root user:

```
# su root
```

4. Insert and mount the Oracle9i release CD-ROM in the appropriate device.

5. From the CD-ROM mount point, go to the *stage/Components/lgto* directory.

Note: If the Legato Single Server Version software is not located in the *stage/Components/lgto* directory, the directory containing the software can be located by entering the following command from the CD-ROM mount point:

```
find . -name lsminst -print
```

6. Enter the following **lsminst** command to install Legato Single Server Version:

```
# ./lsminst .
```

Enter the appropriate information at the **lsminst** prompts:

- When prompted whether to continue the installation, enter [y].
- When prompted for a directory to use for client and server information, either accept the default (*/nsr*) or enter another directory name. Ensure that the selected directory has sufficient disk space to store the online index files, as listed in [Table 1 on page 14](#).
- When prompted for a device name, either press [Enter] or enter a proper BSD-semantics nonrewinding tape device name.

Note: Before Legato Single Server Version can use a device for Oracle backups or restores, a Device resource must be configured for the device in the Legato Single Server Version Administrator program. For more information, refer to the *Legato Single Server Version Administrator's Guide, Release 6.1*.

- At the following prompt, enter **all**, to enable backups using Legato Single Server Version:

```
Enter the first NetWorker server's name [no more]: all
```

- For all other **lsminst** prompts, press [Enter].

7. Update the MANPATH and PATH environment variables.
 - MANPATH must include the pathname of the directory containing the Legato Single Server Version man pages. The default pathname is `/usr/man`, as shown in [Table 1 on page 14](#).
 - PATH must include the pathname of the directory containing the Legato Single Server Version software binaries. The default pathname is `/bin`, as shown in [Table 1 on page 14](#).
8. For *each* ORACLE_HOME that will use Legato Single Server Version for backups:

Note: If another ORACLE_HOME is later installed on the AIX system, follow these steps to enable Legato Single Server Version backups for that ORACLE_HOME.

 - a. Log in as the ORACLE_HOME owner:


```
# su ORACLE_HOME_owner
```
 - b. Change to the `stage/Components/lgto` directory on the CD-ROM.
 - c. Enter the following `cp` command to copy the `liblsm.a` file to the `$ORACLE_HOME/lib` directory:


```
$ cp ./lib/liblsm.a $ORACLE_HOME/lib/liblsm.a
```
 - d. Enter the following commands to create the required symbolic link:


```
$ cd $ORACLE_HOME/lib
          $ ln -s liblsm.a libobk.a
```
9. Ensure that Legato Single Server Version is properly enabled.
 - a. Run the Legato Single Server Version Administrator program as an Administrator.

For more information, refer to "The Administrator Program" in Chapter 2 of the *Legato Single Server Version Administrator's Guide, Release 6.1*.
 - b. Select Server>Registration to open the Registration window.
 - If "Legato Single Server Version" appears in the Registration window, Legato Single Server Version is properly enabled.
 - If "NetWorker/10 Eval" or another name (other than "Legato Single Server Version") appears in the Registration window, perform these steps to enable Legato Single Server Version:
 1. In the Registration window, click Create.
 2. In the Enabler Code field, enter the following enabler code:


```
fa577c-a16e3f-d26553
```
 3. Click Apply.

The following command and output can be used to verify that Legato Single Server Version is installed properly:

```
# ls1pp -l | grep -i legato
lus      6.1.0.0 COMMITTED Legato SCSI User Interface Tape
```

Once the software is installed, complete the required configuration procedures to enable Oracle backup and restore operations using Legato Single Server Version. For more information, refer to the *Legato Single Server Version Administrator's Guide, Release 6.1*.

Note: Once Legato Single Server Version is properly installed and configured, it is recommended that an immediate backup of the complete Oracle system be performed.

Uninstalling Legato Single Server Version

Legato Single Server Version *cannot* be uninstalled using Oracle Installer. Legato Single Server Version must be uninstalled using the information in this section.

To uninstall Legato Single Server Version:

1. Verify that no Oracle database backups are running.
2. For *each* ORACLE_HOME that uses Legato Single Server Version for backups:

- a. Log in as the ORACLE_HOME owner:

```
# su ORACLE_HOME_owner
```

- b. Ensure that no Oracle backup or restore is running.

- c. Enter the following commands to delete the required symbolic links:

```
$ cd $ORACLE_HOME/lib
```

```
$ rm liblsm.a
```

```
$ rm libobk.a
```

3. Log in as the root user:

```
# su root
```

4. Enter the following `nsr_ize` command to uninstall Legato Single Server Version:

```
# nsr_ize -r -s
```

When prompted whether to delete the Legato Single Server Version client index, media index, and resource configuration files:

- Enter [n] to uninstall Legato Single Server Version *without* deleting the index and configuration files.
- Enter [y] to uninstall Legato Single Server Version *and* delete the index and configuration files (by deleting the `/nsr` directory).



Important: If the Legato Single Server Version index and configuration files (and the `/nsr` directory) are deleted, existing Legato Single Server Version backups *cannot* be restored. If Legato Single Server Version is later reinstalled, the configuration must be rebuilt before previous Legato Single Server Version backups can be restored.

Chapter 3: Installation Procedures on HP-UX

This chapter describes how to upgrade to, install, and uninstall Legato Single Server Version release 6.1 on a supported HP-UX system. See the appropriate section:

- ["Upgrading from Legato Storage Manager" on page 18](#)
- ["Installing Legato Single Server Version" on page 19](#)
- ["Uninstalling Legato Single Server Version" on page 22](#)

Upgrading from Legato Storage Manager

To upgrade from Legato Storage Manager to Legato Single Server Version:

1. Uninstall Legato Storage Manager. See ["How to Uninstall Legato Storage Manager" on page 18](#).
2. Install Legato Single Server Version. See ["Installing Legato Single Server Version" on page 19](#).

How to Uninstall Legato Storage Manager

Legato Storage Manager *cannot* be uninstalled using Oracle Installer. Legato Storage Manager must be uninstalled using the information in this section.



Important: The following procedure deletes the Legato Storage Manager index and configuration files (and the `/nsr` directory). After using this procedure, it will *not* be possible to restore from existing Legato Storage Manager backups.

Legato Single Server Version does *not* support the restore of Oracle data from Legato Storage Manager backups.

To uninstall Legato Storage Manager:

1. Verify that no Oracle database backups are running.
2. For *each* ORACLE_HOME that uses Legato Storage Manager for backups:
 - a. Log in as the ORACLE_HOME owner:

```
# su ORACLE_HOME_owner
```

- b. Enter the following commands to delete the required symbolic links:

```
$ cd $ORACLE_HOME/lib
$ rm liblsm.sl
$ rm libobk.sl
```

3. Log in as the root user:

```
# su root
```

4. Enter the following **nsr_shutdown** command to stop the Legato Storage Manager daemons:

```
# nsr_shutdown
```

5. Enter the following **swremove** command to uninstall Legato Storage Manager:

```
# swremove
```

6. In the Software Selection window, highlight Legato Storage Manager.

7. Select Actions>Remove (analysis).

8. In the Remove Analysis window, when the Status field changes to Ready, click Logfile to check the log file. Correct any listed problems before proceeding.

9. Click OK.

10. In the Confirmation dialog box, click Yes.

11. In the Remove window, when the Status field changes to Completed, click Logfile to check the log file. If any problems are listed, correct the problems and restart the uninstall at [step 3](#).

12. Click Done to exit the Remove window.

13. Select File>Exit to exit the Software Selection window.

14. Delete the `/opt/networker` directory manually, if required.

Note: The **swremove** program does *not* delete the `/nsr` directory containing the Legato Storage Manager client index, media index, and resource configuration files.

15. To delete the Legato Storage Manager index and configuration files, enter the following **rm** command to delete the `/nsr` directory:

```
# rm -rf /nsr/* /nsr
```

Installing Legato Single Server Version

Legato Single Server Version is typically installed using Oracle Installer, by selecting the Custom installation of the Oracle software and then selecting the Legato Single Server Version option. If Legato Single Server Version is *not* installed using Oracle Installer, the software can be installed manually using the instructions in this section.

Before installing Legato Single Server Version, uninstall any existing Legato Storage Manager or Legato NetWorker software on the system. If existing Legato software is not detected during the Legato Single Server Version installation, both the existing

Legato software and the Legato Single Server Version software might not function properly.

- To uninstall existing Legato Storage Manager release 5.5, see "[Upgrading from Legato Storage Manager](#)" on page 18.

Note: To uninstall Legato Storage Manager prior to release 5.5, refer to the Legato Storage Manager uninstall instructions in the appropriate *Oracle Installation Guide*.

- To uninstall existing Legato NetWorker software, refer to the instructions in the appropriate *Legato NetWorker Installation Guide*.

How to Install Legato Single Server Version

To install Legato Single Server Version:

1. Verify that there is sufficient disk space for each of the Legato Single Server Version software components, as shown in [Table 2 on page 20](#).

Note: The requirements in [Table 2](#) apply to a default Legato Single Server Version installation, without relocation of the software components.

Table 2. Legato Single Server Version Requirements on HP-UX

Components	Default Location	Space Requirement
Temporary space used by the <code>swinstall</code> program	<code>/tmp</code>	25 MB
Software binary files	<code>/opt/networker/bin</code>	150 MB
Online index files	<code>/nsr</code>	100 MB
Online man pages	<code>/opt/networker/man</code>	1 MB

2. Make copies of the following operating system files, which are modified by the Legato Single Server Version installation script in [step 6](#).

`/etc/rpc`

`/etc/syslog.conf`

3. Log in as the root user:

```
# su root
```

4. Insert and mount the Oracle9i release CD-ROM in the appropriate device.

5. From the CD-ROM mount point, go to the `stage/Components/lgto` directory.

Note: If the Legato Single Server Version software is not located in the `stage/Components/lgto` directory, the directory containing the software can be located by entering the following command from the CD-ROM mount point:

```
find . -name lsminst -print
```

6. Enter the following `lsminst` command to install Legato Single Server Version:

```
# ./lsminst cd_mount_point/stage/Components/lgto
```

7. In the Software Selection window, highlight Legato Single Server Version.

8. Select Actions>Install (analysis).
9. In the Install Analysis window, when the Status field changes to Ready, click Logfile to check the log file. Correct any listed problems before proceeding.

Note: If an error appears in the log file stating that one or more filesystems in the filesystem table cannot be mounted, perform these steps:

 - a. Verify with the site administrator that the filesystems listed in the */etc/fstab* file do not need to be mounted.
 - b. As the root user, enter the **lsminst** command from [step 6](#) to restart the installation.
 - c. In the Software Selection window, select Options>Change Options.
 - d. In the Options window, deselect the following option:
Mount filesystems in */etc/fstab* or */etc/checklist*
 - e. Click OK.
 - f. Restart at [step 7](#).
10. In the Install Analysis window, click OK.
11. In the Confirmation dialog box, click Yes.
12. In the Install window, when the Status field changes to Completed, click Logfile to check the log file. If any problems are listed, correct the problems and restart the installation at [step 5](#).
13. Click Done to exit the Install window.
14. Select File>Exit to exit the Software Selection window.
15. Update the MANPATH and PATH environment variables.
 - MANPATH must include the pathname of the directory containing the Legato Single Server Version man pages. The default pathname is */opt/networker/man*, as shown in [Table 2 on page 20](#).
 - PATH must include the pathname of the directory containing the Legato Single Server Version software binaries. The default pathname is */opt/networker/bin*, as shown in [Table 2 on page 20](#).
16. For *each* ORACLE_HOME that will use Legato Single Server Version for backups:

Note: If another ORACLE_HOME is later installed on the HP-UX system, follow these steps to enable Legato Single Server Version backups for that ORACLE_HOME.

 - a. Log in as the ORACLE_HOME owner:


```
# su ORACLE_HOME_owner
```
 - b. Change to the *stage/Components/lgto* directory on the CD-ROM.
 - c. Enter the following **cp** command to copy the *liblsm.sl* file to the *\$ORACLE_HOME/lib* directory:


```
$ cp ./lib/liblsm.sl $ORACLE_HOME/lib/liblsm.sl
```
 - d. Enter the following commands to create the required symbolic link:


```
$ cd $ORACLE_HOME/lib
          $ ln -s liblsm.sl libobk.sl
```

17. Ensure that Legato Single Server Version is properly enabled.
 - a. Run the Legato Single Server Version Administrator program as an Administrator.
For more information, refer to "The Administrator Program" in Chapter 2 of the *Legato Single Server Version Administrator's Guide, Release 6.1*.
 - b. Select Server>Registration to open the Registration window.
 - If "Legato Single Server Version" appears in the Registration window, Legato Single Server Version is properly enabled.
 - If "NetWorker/10 Eval" or another name (other than "Legato Single Server Version") appears in the Registration window, perform these steps to enable Legato Single Server Version:
 1. In the Registration window, click Create.
 2. In the Enabler Code field, enter the following enabler code:
fa577c-a16e3f-d26553
 3. Click Apply.

The following command and output can be used to verify that Legato Single Server Version is installed properly.

```
# /usr/sbin/swlist | grep -i lssv
NetWorker nw_lssv.Build.71 NetWorker for HP-UX 11.xx
```

Once the software is installed, complete the required configuration procedures to enable Oracle backup and restore operations using the Legato Single Server Version software. For more information, refer to the *Legato Single Server Version Administrator's Guide, Release 6.1*.

Note: Once Legato Single Server Version is properly installed and configured, it is recommended that an immediate backup of the complete Oracle system be performed.

Uninstalling Legato Single Server Version

Legato Single Server Version *cannot* be uninstalled using Oracle Installer. Legato Single Server Version must be uninstalled using the information in this section.

To uninstall Legato Single Server Version:

1. Verify that no Oracle database backups are running.
2. For *each* ORACLE_HOME that uses Legato Single Server Version for backups:
 - a. Log in as the ORACLE_HOME owner:
su ORACLE_HOME_owner
 - b. Ensure that no Oracle backup or restore is running.
 - c. Enter the following commands to delete the required symbolic links:
\$ **cd \$ORACLE_HOME/lib**
\$ **rm liblsm.sl**
\$ **rm libobk.sl**

3. Log in as the root user:

```
# su root
```

4. Enter the following **nsr_shutdown** command to stop the Legato Single Server Version daemons:

```
# nsr_shutdown
```

5. Enter the following **swremove** command to uninstall Legato Single Server Version:

```
# swremove
```

6. In the Software Selection window, highlight the name NetWorker.

7. Select Actions>Remove (analysis).

8. In the Remove Analysis window, when the Status field changes to Ready, click Logfile to check the log file. Correct any listed problems before proceeding.

9. Click OK.

10. In the Confirmation dialog box, click Yes.

11. In the Remove window, when the Status field changes to Completed, click Logfile to check the log file. If any problems are listed, correct the problems and restart the uninstall at [step 3](#).

12. Click Done to exit the Remove window.

13. Select File>Exit to exit the Software Selection window.

14. Delete the `/opt/networker` directory manually, if required.

Note: The **swremove** program does *not* delete the `/nsr` directory containing the Legato Single Server Version client index, media index, and resource configuration files.

15. To delete the Legato Single Server Version index and configuration files (*an optional step*), enter the following **rm** command to delete the `/nsr` directory:

```
# rm -rf /nsr/* /nsr
```



Important: If the Legato Single Server Version index and configuration files (and the `/nsr` directory) are deleted, existing Legato Single Server Version backups *cannot* be restored. If Legato Single Server Version is later reinstalled, the configuration must be rebuilt before previous Legato Single Server Version backups can be restored.

Chapter 4: Installation Procedures on Linux

This chapter describes how to install and uninstall Legato Single Server Version release 6.1 on a supported Linux system. See the appropriate section:

- ["Installing Legato Single Server Version" on page 24](#)
- ["Uninstalling Legato Single Server Version" on page 28](#)

Installing Legato Single Server Version

Legato Single Server Version is typically installed using Oracle Installer, by selecting the Custom installation of the Oracle software and then selecting the Legato Single Server Version option. If Legato Single Server Version is *not* installed using Oracle Installer, the software can be installed manually using the instructions in this section.

Before installing Legato Single Server Version, uninstall any existing Legato NetWorker software on the system. If existing Legato NetWorker software is not detected during the Legato Single Server Version installation, both the Legato NetWorker software and the Legato Single Server Version software might not function properly. To uninstall existing Legato NetWorker software, refer to the instructions in the appropriate *Legato NetWorker Installation Guide*.

How to Install Legato Single Server Version

To install Legato Single Server Version:

1. Verify that the specific Linux kernel is supported and that all the required Linux packages and patches are installed, as shown in [Table 3 on page 25](#).

[Table 3](#) shows the platforms supported in this release of Legato Single Server Version along with the package requirements for each of the operating system installations. For more platform-specific information, consult the operating system documentation, vendor, or other Linux documentation sources.

Table 3. Linux System Software Requirements

Platform	Kernel	Additional Libraries or Upgrades
Red Hat Advanced Server Edition 2.1	2.4.9-e.3	Upgrade the following packages: <ul style="list-style-type: none"> • <i>ncurses4-5.0-5.i386.rpm</i> — available with the installation media or at www.rpmfind.net (search for <i>ncurses4</i>) • <i>pdksh-5.2.14-13.i386.rpm</i> — available with the installation media or at www.rpmfind.net (search for <i>pdksh</i>)
Red Hat 7.1	2.4.2-2	Upgrade the following packages: <ul style="list-style-type: none"> • <i>ncurses4-5.0-5.i386.rpm</i> — available with the installation media or at www.rpmfind.net (search for <i>ncurses4</i>) • <i>pdksh-5.2.14-12.i386.rpm</i> — available with the installation media or at www.rpmfind.net (search for <i>pdksh</i>) • <i>rpm-build-4.0.3-0.66.i386.rpm</i> • <i>rpm-devel-4.0.3-0.66.i386.rpm</i> • <i>rpm-4.0.3-0.66.i386.rpm</i> • <i>glibc-2.2.3-14.i386.rpm</i> • <i>glibc-common-2.2.3-14.i386.rpm</i> • <i>glibc-devel-2.2.3-14.i386.rpm</i>
SuSE 7.1	2.4.0	Upgrade the <i>pdksh-5.2.14-217.i386.rpm</i> package, available on the operating system installation media

2. Verify that there is sufficient disk space for each of the Legato Single Server Version software components, as shown in [Table 4 on page 25](#).

Note: The requirements in [Table 4](#) apply to a default Legato Single Server Version installation, without relocation of the software components.

Table 4. Legato Single Server Version Requirements on Linux

Components	Default Location	Space Requirement
GUI program files	<i>/usr/bin</i>	11 MB
Daemon and utility command files	<i>/usr/sbin</i>	29 MB
Device drivers	<i>/etc/LGTOuscsci</i>	8 MB
Online index files	<i>/nsr</i>	100 MB
Online man pages	<i>/usr/share/man</i>	1 MB

3. Make copies of the following operating system files, which are modified by the Legato Single Server Version installation script in [step 7](#).

```
/etc/rpc
```

```
/etc/syslog.conf
```

```
/etc/ld.so.conf
```

4. Log in as the root user:

```
# su root
```

5. Insert and mount the Oracle9i release CD-ROM in the appropriate device.

6. From the CD-ROM mount point, go to the *stage/Components/lgto* directory.

Note: If the Legato Single Server Version software is not located in the *stage/Components/lgto* directory, the directory containing the software can be located by entering the following command from the CD-ROM mount point:

```
find . -name lsminst -print
```

7. Enter the following **lsminst** command to install Legato Single Server Version:

```
# ./lsminst .
```

Enter the appropriate information at the **lsminst** prompts:

- When prompted whether to continue the installation, enter [y].
- When prompted for a directory to use for client and server information, either accept the default (*/nsr*) or enter another directory name. Ensure that the selected directory has sufficient disk space to store the online index files, as listed in [Table 4 on page 25](#).
- When prompted for a device name, either press [Enter] or enter a proper BSD-semantics nonrewinding tape device name.

Note: Before Legato Single Server Version can use a device for Oracle backups or restores, a Device resource must be configured for the device in the Legato Single Server Version Administrator program. For more information, refer to the *Legato Single Server Version Administrator's Guide, Release 6.1*.

- At the following prompt, enter **all**, to enable backups using Legato Single Server Version:

```
Enter the first NetWorker server's name [no more]: all
```

- For all other **lsminst** prompts, press [Enter].

8. Update the MANPATH and PATH environment variables.

- MANPATH must include the pathname of the directory containing the Legato Single Server Version man pages. The default pathname is */usr/share/man*, as shown in [Table 4 on page 25](#).
- PATH must include the pathnames of the directories containing the Legato Single Server Version program files. The default pathnames are */usr/bin* and */usr/sbin*, as shown in [Table 4 on page 25](#).

9. For *each* ORACLE_HOME that will use Legato Single Server Version for backups:

Note: If another ORACLE_HOME is later installed on the Linux system, follow these steps to enable Legato Single Server Version backups for that ORACLE_HOME.

- a. Log in as the ORACLE_HOME owner:


```
# su ORACLE_HOME_owner
```
- b. Change to the *stage/Components/igto* directory on the CD-ROM.
- c. Enter the following **cp** command to copy the *liblsm.so* file to the *\$ORACLE_HOME/lib* directory:


```
$ cp ./lib/liblsm.so $ORACLE_HOME/lib/liblsm.so
```
- d. Enter the following commands to create the required symbolic link:


```
$ cd $ORACLE_HOME/lib
$ ln -s liblsm.so libobk.so
```

10. Ensure that Legato Single Server Version is properly enabled.

- a. Run the Legato Single Server Version Administrator program as an Administrator.
For more information, refer to "The Administrator Program" in Chapter 2 of the *Legato Single Server Version Administrator's Guide, Release 6.1*.
- b. Select Server>Registration to open the Registration window.
 - If "Legato Single Server Version" appears in the Registration window, Legato Single Server Version is properly enabled.
 - If "NetWorker/10 Eval" or another name (other than "Legato Single Server Version") appears in the Registration window, perform these steps to enable Legato Single Server Version:
 1. In the Registration window, click Create.
 2. In the Enabler Code field, enter the following enabler code:


```
fa577c-a16e3f-d26553
```
 3. Click Apply.

The following command and output can be used to verify that the Legato Single Server Version is installed properly:

```
# rpm -aq | grep -i orcl
orclclnt-nw_lssv.build.71-1
orcldrv-r-nw_lssv.build.71-1
orclnode-nw_lssv.build.71-1
orclserv-nw_lssv.build.71-1
orclman-nw_lssv.build.71-1
```

Once the software is installed, complete the required configuration procedures to enable Oracle backup and restore operations using Legato Single Server Version. For more information, refer to the *Legato Single Server Version Administrator's Guide, Release 6.1*.

Note: Once Legato Single Server Version is properly installed and configured, it is recommended that an immediate backup of the complete Oracle system be performed.

Uninstalling Legato Single Server Version

Legato Single Server Version *cannot* be uninstalled using Oracle Installer. Legato Single Server Version must be uninstalled using the information in this section.

To uninstall Legato Single Server Version:

1. Verify that no Oracle database backups are running.
2. For *each* ORACLE_HOME that uses Legato Single Server Version for backups:

- a. Log in as the ORACLE_HOME owner:

```
# su ORACLE_HOME_owner
```

- b. Ensure that no Oracle backup or restore is running.

- c. Enter the following commands to delete the required symbolic links:

```
$ cd $ORACLE_HOME/lib
```

```
$ rm liblsm.so
```

```
$ rm libobk.so
```

3. Log in as the root user:

```
# su root
```

4. Enter the following **rpm** command to uninstall Legato Single Server Version:

```
# rpm -e orclman-nw_lssv.build.71-1 orclserv-nw_lssv.build.71-1  
orclnode-nw_lssv.build.71-1 orcldrvvr-nw_lssv.build.71-1  
orclclnt-nw_lssv.build.71-1
```

Note: The **rpm** program does *not* delete the */nsr* directory containing the Legato Single Server Version client index, media index, and resource configuration files.

5. To delete the Legato Single Server Version index and configuration files (*an optional step*), enter the following **rm** command to delete the */nsr* directory:

```
# rm -rf /nsr/* /nsr
```



Important: If the Legato Single Server Version index and configuration files (and the */nsr* directory) are deleted, existing Legato Single Server Version backups *cannot* be restored. If Legato Single Server Version is later reinstalled, the configuration must be rebuilt before previous Legato Single Server Version backups can be restored.

Chapter 5: Installation Procedures on Solaris

This chapter describes how to upgrade to, install, and uninstall Legato Single Server Version release 6.1 on a supported Solaris system. See the appropriate section:

- ["Upgrading from Legato Storage Manager" on page 29](#)
- ["Installing Legato Single Server Version" on page 30](#)
- ["Uninstalling Legato Single Server Version" on page 33](#)

Upgrading from Legato Storage Manager

To upgrade from Legato Storage Manager to Legato Single Server Version:

1. Uninstall Legato Storage Manager. See ["How to Uninstall Legato Storage Manager" on page 29](#).
2. Install Legato Single Server Version. See ["Installing Legato Single Server Version" on page 30](#).

How to Uninstall Legato Storage Manager

Legato Storage Manager *cannot* be uninstalled using Oracle Installer. Legato Storage Manager must be uninstalled using the information in this section.



Important: The following procedure deletes the Legato Storage Manager index and configuration files (and the `/nsr` directory). After using this procedure, it will *not* be possible to restore from existing Legato Storage Manager backups.

Legato Single Server Version does *not* support the restore of Oracle data from Legato Storage Manager backups.

To uninstall Legato Storage Manager:

1. Verify that no Oracle database backups are running.
2. For *each* ORACLE_HOME that uses Legato Storage Manager for backups:
 - a. Log in as the ORACLE_HOME owner:

```
# su ORACLE_HOME_owner
```

- b. Enter the following commands to delete the required symbolic links:

```
$ cd $ORACLE_HOME/lib
$ rm liblsm.so
$ rm libobk.so
```

3. Log in as the root user:

```
# su root
```

4. Enter the following **nsr_shutdown** command to stop the Legato Storage Manager daemons:

```
# nsr_shutdown
```

5. Enter the following **pkgrm** command to uninstall Legato Storage Manager:

```
# pkgrm ORCLserv ORCLnode ORCLman ORCLdrvvr ORCLclnt
```

At each prompt that **pkgrm** displays, press [Enter].

Note: The **pkgrm** program does *not* delete the */nsr* directory containing the Legato Storage Manager client index, media index, and resource configuration files.

6. To delete the Legato Storage Manager index and configuration files, enter the following **rm** command to delete the */nsr* directory:

```
# rm -rf /nsr/* /nsr
```

Installing Legato Single Server Version

Legato Single Server Version is typically installed using Oracle Installer, by selecting the Custom installation of the Oracle software and then selecting the Legato Single Server Version option. If Legato Single Server Version is *not* installed using Oracle Installer, the software can be installed manually using the instructions in this section.

Before installing Legato Single Server Version, uninstall any existing Legato Storage Manager or Legato NetWorker software on the system. If existing Legato software is not detected during the Legato Single Server Version installation, both the existing Legato software and the Legato Single Server Version software might not function properly.

- To uninstall existing Legato Storage Manager release 5.5, see "[Upgrading from Legato Storage Manager](#)" on page 29.

Note: To uninstall Legato Storage Manager prior to release 5.5, refer to the Legato Storage Manager uninstall instructions in the appropriate *Oracle Installation Guide*.

- To uninstall existing Legato NetWorker software, refer to the instructions in the appropriate *Legato NetWorker Installation Guide*.

How to Install Legato Single Server Version

To install Legato Single Server Version:

1. Verify that there is sufficient disk space for each of the Legato Single Server Version software components, as shown in [Table 5 on page 31](#).

Note: The requirements in [Table 5 on page 31](#) apply to a default Legato Single Server Version installation, without relocation of the software components.

Table 5. Legato Single Server Version Requirements on Solaris

Components	Default Location	Space Requirement
GUI program files	<i>/usr/bin</i>	23 MB
Daemon and utility command files	<i>/usr/sbin</i>	22 MB
Device drivers	<i>/etc/LGTOusc /usr/kernel /usr/lib/nsr</i>	21 MB
Online index files	<i>/nsr</i>	100 MB
Online man pages	<i>/usr/man</i>	1 MB

2. Make copies of the following operating system files, which are modified by the Legato Single Server Version installation script in [step 6](#).

```
/etc/rpc  
/etc/syslog.conf
```

3. Log in as the root user:

```
# su root
```

4. Insert and mount the Oracle9i release CD-ROM in the appropriate device.
5. From the CD-ROM mount point, go to the *stage/Components/lgto* directory.

Note: If the Legato Single Server Version software is not located in the *stage/Components/lgto* directory, the directory containing the software can be located by entering the following command from the CD-ROM mount point:

```
find . -name lsminst -print
```

6. Enter the following **lsminst** command to install Legato Single Server Version:

```
# ./lsminst .
```

Enter the appropriate information at the **lsminst** prompts:

- When prompted whether to continue the installation, enter [y].
- When prompted for a directory to use for client and server information, either accept the default (*/nsr*) or enter another directory name. Ensure that the selected directory has sufficient disk space to store the online index files, as listed in [Table 5 on page 31](#).

- When prompted for a device name, either press [Enter] or enter a proper BSD-semantics nonrewinding tape device name.
Note: Before Legato Single Server Version can use a device for Oracle backups or restores, a Device resource must be configured for the device in the Legato Single Server Version Administrator program. For more information, refer to the *Legato Single Server Version Administrator's Guide, Release 6.1*.
 - At the following prompt, enter **all**, to enable backups using Legato Single Server Version:
Enter the first NetWorker server's name [no more]: **all**
 - For all other **lsminst** prompts, press [Enter].
7. Update the MANPATH and PATH environment variables.
- MANPATH must include the pathname of the directory containing the Legato Single Server Version man pages. The default pathname is */usr/share/man*, as shown in [Table 5 on page 31](#).
 - PATH must include the pathnames of the directories containing the Legato Single Server Version software binaries. The default pathnames are */usr/bin* and */usr/sbin*, as shown in [Table 5 on page 31](#).
8. For *each* ORACLE_HOME that will use Legato Single Server Version for backups:
- Note:** If another ORACLE_HOME is later installed on the Solaris system, follow these steps to enable Legato Single Server Version backups for that ORACLE_HOME.
- a. Log in as the ORACLE_HOME owner:

```
# su ORACLE_HOME_owner
```
 - b. Change to the *stage/Components/lgto* directory on the CD-ROM.
 - c. Enter the following **cp** command to copy the *liblsm.so* file to the *\$ORACLE_HOME/lib* directory:

```
$ cp ./lib/liblsm.so $ORACLE_HOME/lib/liblsm.so
```
 - d. Enter the following commands to create the required symbolic link:

```
$ cd $ORACLE_HOME/lib
$ ln -s liblsm.so libobk.so
```
9. Ensure that Legato Single Server Version is properly enabled.
- a. Run the Legato Single Server Version Administrator program as an Administrator.
For more information, refer to "The Administrator Program" in Chapter 2 of the *Legato Single Server Version Administrator's Guide, Release 6.1*.
 - b. Select Server>Registration to open the Registration window.
 - If "Legato Single Server Version" appears in the Registration window, Legato Single Server Version is properly enabled.
 - If "NetWorker/10 Eval" or another name (other than "Legato Single Server Version") appears in the Registration window, perform these steps to enable Legato Single Server Version:
 1. In the Registration window, click Create.

2. In the Enabler Code field, enter the following enabler code:

```
fa577c-a16e3f-d26553
```

3. Click Apply.

The following command and output can be used to verify that Legato Single Server Version is installed properly:

```
# pkginfo | grep -i LSSV
application ORCLclnt      LSSV (Backup/Recover) Client
system ORCLdrvvr         LSSV (Backup/Recover) Device Drivers
application ORCLman      LSSV (Backup/Recover) Man Pages
application ORCLnode     LSSV (Backup/Recover) Storage Node
application ORCLserv     LSSV (Backup/Recover) Server
```

Once the software is installed, complete the required configuration procedures to enable Oracle backup and restore operations using Legato Single Server Version. For more information, refer to the *Legato Single Server Version Administrator's Guide, Release 6.1*.

Note: Once Legato Single Server Version is properly installed and configured, it is recommended that an immediate backup of the complete Oracle system be performed.

Uninstalling Legato Single Server Version

Legato Single Server Version *cannot* be uninstalled using Oracle Installer. Legato Single Server Version must be uninstalled using the information in this section.

To uninstall Legato Single Server Version:

1. Verify that no Oracle database backups are running.
2. For *each* ORACLE_HOME that uses Legato Single Server Version for backups:

- a. Log in as the ORACLE_HOME owner:

```
# su ORACLE_HOME_owner
```

- b. Ensure that no Oracle backup or restore is running.

- c. Enter the following commands to delete the required symbolic links:

```
$ cd $ORACLE_HOME/lib
```

```
$ rm liblsm.so
```

```
$ rm libobk.so
```

3. Log in as the root user:

```
# su root
```

4. Enter the following **nsr_shutdown** command to stop the Legato Single Server Version daemons:

```
# nsr_shutdown
```

5. Enter the following **pkgrm** command to uninstall Legato Single Server Version:

```
# pkgrm ORCLserv ORCLnode ORCLman ORCLdrvvr ORCLclnt
```

At each prompt that **pkgrm** displays, press [Enter].

Note: The **pkgrm** program does *not* delete the */nsr* directory containing the Legato Single Server Version client index, media index, and resource configuration files.

6. To delete the Legato Single Server Version index and configuration files (*an optional step*), enter the following **rm** command to delete the */nsr* directory:

```
# rm -rf /nsr/* /nsr
```



Important: If the Legato Single Server Version index and configuration files (and the */nsr* directory) are deleted, existing Legato Single Server Version backups *cannot* be restored. If Legato Single Server Version is later reinstalled, the configuration must be rebuilt before previous Legato Single Server Version backups can be restored.

Chapter 6: Installation Procedures on Tru64 UNIX

This chapter describes how to upgrade to, install, and uninstall Legato Single Server Version release 6.1 on a supported Tru64 UNIX system. See the appropriate section:

- ["Upgrading from Legato Storage Manager" on page 35](#)
- ["Installing Legato Single Server Version" on page 36](#)
- ["Uninstalling Legato Single Server Version" on page 39](#)

Upgrading from Legato Storage Manager

To upgrade from Legato Storage Manager to Legato Single Server Version:

1. Uninstall Legato Storage Manager. See ["How to Uninstall Legato Storage Manager" on page 35](#).
2. Install Legato Single Server Version. See ["Installing Legato Single Server Version" on page 36](#).

How to Uninstall Legato Storage Manager

Legato Storage Manager *cannot* be uninstalled using Oracle Installer. Legato Storage Manager must be uninstalled using the information in this section.



Important: The following procedure deletes the Legato Storage Manager index and configuration files (and the `/nsr` directory). After using this procedure, it will *not* be possible to restore from existing Legato Storage Manager backups.

Legato Single Server Version does *not* support the restore of Oracle data from Legato Storage Manager backups.

To uninstall Legato Storage Manager:

1. Verify that no Oracle database backups are running.
2. For *each* ORACLE_HOME that uses Legato Storage Manager for backups:
 - a. Log in as the ORACLE_HOME owner:

```
# su ORACLE_HOME_owner
```

- b. Enter the following commands to delete the required symbolic links:


```
$ cd $ORACLE_HOME/lib
$ rm liblsm.so
$ rm libobk.so
```
3. Log in as the root user:


```
# su root
```
4. Enter the following **nsr_shutdown** command to stop the Legato Storage Manager daemons:


```
# nsr_shutdown
```
5. Enter the following **setld** command to uninstall Legato Storage Manager:


```
# setld -d ORCLSERV550 ORCLNODE550 ORCLCLNT550 ORCLMAN550
```

 Enter the appropriate information at the **setld** prompts:
 - When prompted whether to continue, enter [y].
 - When prompted whether to deinstall `/usr/lib/X11/app-defaults/Networker`, enter [y].
 - When prompted whether to delete the contents of the `/nsr` directory, enter [y].

Installing Legato Single Server Version

Legato Single Server Version is typically installed using Oracle Installer, by selecting the Custom installation of the Oracle software and then selecting the Legato Single Server Version option. If Legato Single Server Version is *not* installed using Oracle Installer, the software can be installed manually using the instructions in this section.

Before installing Legato Single Server Version, uninstall any existing Legato Storage Manager or Legato NetWorker software on the system. If existing Legato software is not detected during the Legato Single Server Version installation, both the existing Legato software and Legato Single Server Version might not function properly.

- To uninstall existing Legato Storage Manager release 5.5, see "[Upgrading from Legato Storage Manager](#)" on page 35.

Note: To uninstall Legato Storage Manager prior to release 5.5, refer to the Legato Storage Manager uninstall instructions in the appropriate *Oracle Installation Guide*.

- To uninstall existing Legato NetWorker software, refer to the instructions in the appropriate *Legato NetWorker Installation Guide*.

How to Install Legato Single Server Version

To install Legato Single Server Version:

1. Verify that there is sufficient disk space for each of the Legato Single Server Version software components, as shown in [Table 6 on page 37](#).

Note: The requirements in [Table 6 on page 37](#) apply to a default Legato Single Server Version installation, without relocation of the software components.

Table 6. Legato Single Server Version Requirements on Tru64 UNIX

Components	Default Location	Space Requirement
Software binary files	<i>/usr/opt/networker/bin</i>	100 MB
Online index files	<i>/nsr</i>	100 MB
Online man pages	<i>/usr/opt/networker/man</i>	1 MB

2. Make copies of the following operating system files, which are modified by the Legato Single Server Version installation script in [step 6](#).

```
/etc/rpc
```

```
/etc/syslog.conf
```

3. Log in as the root user:

```
# su root
```

4. Insert and mount the Oracle9i release CD-ROM in the appropriate device.

5. From the CD-ROM mount point, go to the *stage/Components/lgto* directory.

Note: If the Legato Single Server Version software is not located in the *stage/Components/lgto* directory, the directory containing the software can be located by entering the following command from the CD-ROM mount point:

```
find . -name lsminst -print
```

6. Enter the following **lsminst** command to install Legato Single Server Version:

```
# ./lsminst .
```

Enter the appropriate information at the **lsminst** prompts:

- When prompted for a choice from the list of Legato Single Server Version subsets, enter [5] to install all the subsets. Enter [y] when prompted if this choice is correct.
 - When prompted whether to create the */nsr/res/servers* file, enter [y].
 - When prompted whether the system is a member of a NetWorker cluster server, enter [y] or [n], as appropriate.
 - For all other **lsminst** prompts, press [Enter].
7. Update the MANPATH and PATH environment variables.
 - MANPATH must include the pathname of the directory containing the Legato Single Server Version man pages. The default pathname is */usr/opt/networker/man*, as shown in [Table 6 on page 37](#).
 - PATH must include the pathname of the directory containing the Legato Single Server Version software binaries. The default pathname is */usr/opt/networker/bin*, as shown in [Table 6 on page 37](#).

8. For *each* ORACLE_HOME that will use Legato Single Server Version for backups:

Note: If another ORACLE_HOME is later installed on the Tru64 UNIX system, follow these steps to enable Legato Single Server Version backups for that ORACLE_HOME.

- a. Log in as the ORACLE_HOME owner:


```
# su ORACLE_HOME_owner
```
- b. Change to the *stage/Components/igto* directory on the CD-ROM.
- c. Enter the following **cp** command to copy the *liblsm.so* file to the *\$ORACLE_HOME/lib* directory:


```
$ cp ./lib/liblsm.so $ORACLE_HOME/lib/liblsm.so
```
- d. Enter the following commands to create the required symbolic link:


```
$ cd $ORACLE_HOME/lib
      $ ln -s liblsm.so libobk.so
```

9. Ensure that Legato Single Server Version is properly enabled.

- a. Run the Legato Single Server Version Administrator program as an Administrator.
For more information, refer to "The Administrator Program" in Chapter 2 of the *Legato Single Server Version Administrator's Guide, Release 6.1*.
- b. Select Server>Registration to open the Registration window.
 - If "Legato Single Server Version" appears in the Registration window, Legato Single Server Version is properly enabled.
 - If "NetWorker/10 Eval" or another name (other than "Legato Single Server Version") appears in the Registration window, perform these steps to enable Legato Single Server Version:
 1. In the Registration window, click Create.
 2. In the Enabler Code field, enter the following enabler code:


```
fa577c-a16e3f-d26553
```
 3. Click Apply.

The following command and output can be used to verify that Legato Single Server Version is installed properly:

```
# setld -i | grep -i ORCL
ORCLCLNT610 installed Legato Single Server Version Basic Client
ORCLMAN610  installed Legato Single Server Version Man Pages
ORCLNODE610 installed Legato Single Server Version Driver and
Storage Node
ORCLSERV610 installed Legato Single Server Version Server
```

Once the software is installed, complete the required configuration procedures to enable Oracle backup and restore operations using Legato Single Server Version. For more information, refer to the *Legato Single Server Version Administrator's Guide, Release 6.1*.

Note: Once Legato Single Server Version is properly installed and configured, it is recommended that an immediate backup of the complete Oracle system be performed.

Uninstalling Legato Single Server Version

Legato Single Server Version *cannot* be uninstalled using Oracle Installer. Legato Single Server Version must be uninstalled using the information in this section.

To uninstall Legato Single Server Version:

1. Verify that no Oracle database backups are running.
2. For *each* ORACLE_HOME that uses Legato Single Server Version for backups:

- a. Log in as the ORACLE_HOME owner:


```
# su ORACLE_HOME_owner
```
- b. Ensure that no Oracle backup or restore is running.
- c. Enter the following commands to delete the required symbolic links:


```
$ cd $ORACLE_HOME/lib
$ rm liblsm.so
$ rm libobk.so
```

3. Log in as the root user:

```
# su root
```

4. Enter the following **nsr_shutdown** command to stop the Legato Single Server Version daemons:

```
# nsr_shutdown
```

5. Enter the following **setld** command to uninstall Legato Single Server Version:

```
# setld -d ORCLSERV610 ORCLNODE610 ORCLCLNT610 ORCLMAN610
```

Enter the appropriate information at the **setld** prompts:

- When prompted whether to continue, enter [y].
- When prompted whether to deinstall */usr/lib/X11/app-defaults/Networker*, enter [y].
- When prompted whether to delete the contents of the */nsr* directory:
 - Enter [n] to uninstall Legato Single Server Version *without* deleting the index and configuration files.
 - Enter [y] to uninstall Legato Single Server Version *and* delete the index and configuration files (by deleting the */nsr* directory).



Important: If the Legato Single Server Version index and configuration files (and the */nsr* directory) are deleted, existing Legato Single Server Version backups *cannot* be restored. If Legato Single Server Version is later reinstalled, the configuration must be rebuilt before previous Legato Single Server Version backups can be restored.

Chapter 7: Installation Procedures on Windows

This chapter describes how to upgrade to, install, and uninstall Legato Single Server Version release 6.1 on a supported Windows system. See the appropriate section:

- To upgrade to, install, and uninstall the complete Legato Single Server Version software package, see ["Legato Single Server Version Installation Procedures" on page 40](#).
- To upgrade to, install, and uninstall the Legato Single Server Version Administrator program only, see ["Legato Single Server Version Administrator Program Installation Procedures" on page 45](#).

Legato Single Server Version Installation Procedures

This section describes how to upgrade to, install, and uninstall the complete Legato Single Server Version software package (including the Administrator program) on a Windows system.

Note: If Legato Single Server Version is installed using the instructions in this section, the Administrator program does not need to be separately installed on the same system.

For complete instructions, see the appropriate section:

- ["Upgrading from Legato Storage Manager" on page 40](#)
- ["Installing Legato Single Server Version" on page 41](#)
- ["Uninstalling Legato Single Server Version" on page 44](#)

Upgrading from Legato Storage Manager

To upgrade from Legato Storage Manager to Legato Single Server Version:

1. Uninstall Legato Storage Manager. See ["How to Uninstall Legato Storage Manager" on page 41](#).
2. Install Legato Single Server Version. See ["Installing Legato Single Server Version" on page 41](#).

How to Uninstall Legato Storage Manager

Legato Storage Manager *cannot* be uninstalled using Oracle Installer. Legato Storage Manager must be uninstalled using the information in this section.



Important: The following procedure deletes the Legato Storage Manager index and configuration files (and the */nsr* directory). After using this procedure, it will *not* be possible to restore from existing Legato Storage Manager backups.

Legato Single Server Version does *not* support the restore of Oracle data from Legato Storage Manager backups.

To uninstall Legato Storage Manager:

1. Log on as a member of the Administrators group of Windows.
2. Shut down all the Oracle instances, using SQL*Plus.
3. Stop all the Oracle database services, where the service names are of the form *OracleService<oracle_sid>*.
 - On Windows 2000:
 - a. Select Start>Programs>Administrative Tools>Services.
 - b. Select *OracleService<oracle_sid>* and select Action>Stop.
 - c. Click Close to exit the Services window.
 - On Windows NT (Intel):
 - a. Select Start>Settings>Control Panel.
 - b. Select Services.
 - c. Select *OracleService<oracle_sid>* and select Stop.
 - d. Click Close to exit the Services window.
4. Select Start>Programs>NetWorker Group>Uninstall NetWorker.
5. Select Complete Removal to uninstall Legato Storage Manager and delete the Legato Storage Manager index and configuration files.

Installing Legato Single Server Version

Before installing Legato Single Server Version, any existing Legato Storage Manager or Legato NetWorker software on the system must be uninstalled. If existing Legato software is not detected during the Legato Single Server Version installation, both the existing Legato software and the Legato Single Server Version software might not function properly.

- To uninstall existing Legato Storage Manager release 5.7, see "[Upgrading from Legato Storage Manager](#)" on page 40.

Note: To uninstall Legato Storage Manager prior to release 5.7, refer to the Legato Storage Manager uninstall instructions in the appropriate *Oracle Installation Guide*.
- To uninstall existing Legato NetWorker software, refer to the instructions in the appropriate *Legato NetWorker Installation Guide*.

How to Install Legato Single Server Version

To install Legato Single Server Version:

1. Log on as a member of the Administrators group of Windows.
2. Shut down all the Oracle instances, using SQL*Plus.
3. Stop all the Oracle database services, where the service names are of the form *OracleService<oracle_sid>*.
 - On Windows 2000:
 - a. Select Start>Programs>Administrative Tools>Services.
 - b. Select *OracleService<oracle_sid>* and select Action>Stop.
 - c. Click Close to exit the Services window.
 - On Windows NT (Intel):
 - a. Select Start>Settings>Control Panel.
 - b. Select Services.
 - c. Select *OracleService<oracle_sid>* and select Stop.
 - d. Click Close to exit the Services window.
4. Insert the Oracle9i release CD-ROM in the CD-ROM drive. The Autorun window appears.

If the Autorun window does not appear:

 - a. Start>Run.
 - b. Enter the following:
drive-letter: \autorun\autorun.exe
 The Autorun window appears.
5. Choose Explore CD.
6. Navigate to the LGTO folder on the CD-ROM.



Important: Legato Single Server Version is installed in the *C:\Program Files\nsr* directory by default. To install the software in a nondefault location, copy the entire LGTO folder from the CD-ROM to the preferred drive and continue with [step 7](#).

7. Extract the files from the *lgto_62.exe* self-extracting zip file. When prompted, specify a directory in which to unzip the files.
8. If the software is being installed in a nondefault location, modify the *server.iss* file in the LGTO folder. In the *server.iss* file, change:

Path=C:\Program Files\nsr\
 to:

to:

Path=*drive:\pathname*

Note: It is possible to change the drive name (from the default *C:*) or the directory pathname (from the default *\Program Files\nsr*) or both. The Path must end with *\nsr* and must *not* contain any spaces. Save the updated *server.iss* file.

9. Run the **lsminst.exe** program to install Legato Single Server Version.
10. Verify that the Legato Single Server Version services have started.
 - a. Open the Services window:
 - On Windows NT (Intel):
 1. Select Start>Settings>Control Panel.
 2. Select Services.
 - On Windows 2000, select Start>Programs>Administrative Tools>Services.
 - b. Verify that the Status of the following services is Started:
NetWorker Backup and Recover Server
NetWorker Power Monitor (on Windows 2000 only)
NetWorker Remote Exec
11. Add the Legato Single Server Version installation directory to the system path:
 - a. Open the Control Panel.
 - b. Select System.
 - c. Select the Environment tab.
 - d. Select Path in the System Variables list box.
 - e. Add the complete pathname of the Legato Single Server Version installation directory (preceded by a semicolon and ending in */bin*) in the Value field. For example:
`;C:\Program Files\nsr\bin`
Note: The semicolon (;) separates the new entry from existing entries. If Legato Single Server Version was installed in a nondefault location, replace *C:\Program Files\nsr\bin* above with the correct drive and pathname.
 - f. Click Set.
 - g. Click OK.
 - h. Restart the computer for the required changes to take effect.
12. Ensure that Legato Single Server Version is properly enabled.
 - a. Run the Legato Single Server Version Administrator program as an Administrator.
For more information, refer to "The Administrator Program" in Chapter 2 of the *Legato Single Server Version Administrator's Guide, Release 6.1*.
 - b. In the Configure tab in the Server window, click Registration to open the Registration window.
 - If "Legato Single Server Version" appears under the Registration link in the Registration window, Legato Single Server Version is properly enabled.
 - If "NetWorker/10 Eval" or another name (other than "Legato Single Server Version") appears under the Registration link in the Registration window, perform these steps to enable Legato Single Server Version:
 1. In the Registration window, right-click the Registration link and select Create to open the Create Registration dialog box.

2. In the Create Registration window, enter the following enabler code in the Enabler Code field:

```
fa577c-a16e3f-d26553
```

3. Click OK.

Once the software is installed, complete the required configuration procedures to enable Oracle backup and restore operations using Legato Single Server Version. For more information, refer to the *Legato Single Server Version Administrator's Guide, Release 6.1*.

Note: Once Legato Single Server Version is properly installed and configured, it is recommended that an immediate backup of the complete Oracle system be performed.

Uninstalling Legato Single Server Version

Before uninstalling Legato Single Server Version, ensure that a recent full backup of the Legato Single Server Version client index (`\nsr\index`), media index (`\nsr\mm`), and resource configuration files (`\nsr\res`) was performed.

Legato Single Server Version *cannot* be uninstalled using Oracle Installer. Legato Single Server Version must be uninstalled using the information in this section.

To uninstall Legato Single Server Version:

1. Log on as a member of the Administrators group of Windows.
2. Shut down all the Oracle instances, using SQL*Plus.
3. Stop all the Oracle database services, where the service names are of the form *OracleService<oracle_sid>*.
 - On Windows 2000:
 - a. Select Start>Programs>Administrative Tools>Services.
 - b. Select *OracleService<oracle_sid>* and select Action>Stop.
 - c. Click Close to exit the Services window.
 - On Windows NT (Intel):
 - a. Select Start>Settings>Control Panel.
 - b. Select Services.
 - c. Select *OracleService<oracle_sid>* and select Stop.
 - d. Click Close to exit the Services window.
4. Select Start>Programs>NetWorker Group>Uninstall NetWorker.
5. Select either Complete Removal or Partial Removal to uninstall Legato Single Server Version.
 - Complete Removal uninstalls Legato Single Server Version *and* deletes the Legato Single Server Version index and configuration files.
 - Partial Removal uninstalls Legato Single Server Version *without* deleting the Legato Single Server Version index and configuration files.



Important: Select Complete Removal only to delete the Legato Single Server Version client index, media index, and resource configuration files. If the index and configuration files are deleted, Legato Single Server Version backups *cannot* be restored. If Legato Single Server Version is later reinstalled, the configuration must be rebuilt before previous Legato Single Server Version backups can be restored.

6. If Partial Removal was selected in [step 5](#), delete the `nsr\bin` directory manually. For example, if Legato Single Server Version was installed in the default directory, delete the `C:\Program Files\nsr\bin` directory.

Legato Single Server Version Administrator Program Installation Procedures

This section describes how to upgrade to, install, and uninstall the Legato Single Server Version Administrator program *only* on a Windows system that is separate from the Oracle Server host containing the complete Legato Single Server Version software.

Note: The Windows system where the Administrator program is installed does *not* need to contain Oracle Server software.

For complete instructions, see the appropriate section:

- ["Upgrading from the Legato Storage Manager Administrator Program" on page 45](#)
- ["Installing the Legato Single Server Version Administrator Program" on page 46](#)
- ["Uninstalling the Legato Single Server Version Administrator Program" on page 47](#)

Upgrading from the Legato Storage Manager Administrator Program

To upgrade from the Legato Storage Manager Administrator program to the Legato Single Server Version Administrator program:

1. Uninstall the Legato Storage Manager Administrator program. See ["How to Uninstall the Legato Storage Manager Administrator Program" on page 45](#).
2. Install the Legato Single Server Version Administrator program. See ["Installing the Legato Single Server Version Administrator Program" on page 46](#).

How to Uninstall the Legato Storage Manager Administrator Program

The Legato Storage Manager Administrator program *cannot* be uninstalled using Oracle Installer. Uninstall the program using the information in this section.

To uninstall the Legato Storage Manager Administrator program:

1. Log on as a member of the Administrators group of Windows.
2. Shut down all the Oracle instances, using SQL*Plus.

3. Stop all the Oracle database services, where the service names are of the form *OracleService<oracle_sid>*.
 - On Windows 2000:
 - a. Select Start>Programs>Administrative Tools>Services.
 - b. Select *OracleService<oracle_sid>* and select Action>Stop.
 - c. Click Close to exit the Services window.
 - On Windows NT (Intel):
 - a. Select Start>Settings>Control Panel.
 - b. Select Services.
 - c. Select *OracleService<oracle_sid>* and select Stop.
 - d. Click Close to exit the Services window.
4. Select Start>Programs>NetWorker Group>Uninstall NetWorker.
5. In the Uninstall NetWorker window, select Complete as the uninstall option and click OK.
6. When a message appears stating that the client has been deleted successfully, click OK.

Installing the Legato Single Server Version Administrator Program

Before installing the Legato Single Server Version Administrator program, uninstall any existing Legato Storage Manager or Legato NetWorker software on the system. If existing Legato software is not detected during the Administrator program installation, both the existing Legato software and the Legato Single Server Version software might not function properly.

- To uninstall existing Legato Storage Manager release 5.7, see the appropriate section:
 - ["Upgrading from Legato Storage Manager" on page 40](#)
 - ["Upgrading from the Legato Storage Manager Administrator Program" on page 45](#)

Note: To uninstall Legato Storage Manager prior to release 5.7, refer to the Legato Storage Manager uninstall instructions in the appropriate *Oracle Installation Guide*.

- To uninstall existing Legato NetWorker software, refer to the instructions in the appropriate *Legato NetWorker Installation Guide*.

How to Install the Legato Single Server Version Administrator Program

To install the Legato Single Server Version Administrator program:

1. Log on as a member of the Administrators group of Windows.
2. Insert the Oracle9i release CD-ROM in the CD-ROM drive. The Autorun window appears.

If the Autorun window does not appear:

- a. Start>Run.
- b. Enter the following:
`drive-letter:\autorun\autorun.exe`

The Autorun window appears.

3. Choose Explore CD.
4. Navigate to the LGTO folder on the CD-ROM.
5. Extract the files from the *lgto_62.exe* self-extracting zip file. When prompted, specify a directory in which to unzip the files.
6. Run the **setup.exe** program to install the Legato Single Server Version Administrator program software.
7. In the Setup Options window, select Client Only and click Next.
8. In the Choose Destination Directory window:
 - To accept the default directory, *C:\Program Files\nsr*, for the installation, click Next.
 - To choose a nondefault directory for the installation, click Browse and select the desired directory.
9. In the Authorize NetWorker Servers window, leave the field blank and click Next.
10. When a message box appears stating that the software has been installed successfully, click OK.
11. Verify that the required Legato Single Server Version services have started.
 - a. Open the Services window:
 - On Windows NT (Intel):
 1. Select Start>Settings>Control Panel.
 2. Select Services.
 - On Windows 2000, select Start>Programs>Administrative Tools>Services.
 - b. Verify that the Status of the following services is Started:
NetWorker Power Monitor (on Windows 2000 only)
NetWorker Remote Exec

For more information on how to use the Legato Single Server Version Administrator program, refer to the *Legato Single Server Version Administrator's Guide, Release 6.1*.

Uninstalling the Legato Single Server Version Administrator Program

The Legato Single Server Version Administrator program *cannot* be uninstalled using Oracle Installer.

To uninstall the Legato Single Server Version Administrator program, follow the procedure used to uninstall the Legato Storage Manager Administrator program, as described in "[How to Uninstall the Legato Storage Manager Administrator Program](#)" on page 45.