



*Keeping the World's Business-Critical Information Available*

April 30, 2002

Legato<sup>®</sup> Single  
Server Version

Release Supplement

Release 6.1

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Legato Single Server Version Release Supplement, Release 6.1

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# Preface

Please read the following important information before installing the Legato® Single Server Version release 6.1 software. The following sections describe this supplement and Legato documentation in general.

## About This Release Supplement

This *Legato Single Server Version Release Supplement, Release 6.1* contains brief descriptions of new features, known limitations, and configuration tips and workarounds for this release of Legato Single Server Version.

If late-breaking information becomes available following the initial release of the software, it will be included in the electronic version of this document available on the Legato web site at <http://www.legato.com/LSSV>. Refer to the web site periodically to view the latest version of this document.

## Information and Services

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# Release Supplement

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Before installing Legato Single Server Version release 6.1, and then periodically after installing, refer to the Legato web site at [www.legato.com/LSSV](http://www.legato.com/LSSV) for the latest version of this document.

Please review the following sections:

- "Features of Legato Single Server Version" on page 7
- "Legato Single Server Version Software Updates on the Web Site" on page 9
- "Legato Single Server Version Installation Procedures" on page 9
- "Registration of Legato Single Server Version" on page 9
- "Verifying the Version of the Software Library" on page 10
- "Known Limitations" on page 10

## Features of Legato Single Server Version

Legato Single Server Version is a restricted functionality version of the latest Legato NetWorker<sup>®</sup> and Legato NetWorker Module for Oracle software. Legato Single Server Version does *not* support several features of these other Legato products, such as archiving, cloning, scheduled backups, using autochangers (jukeboxes) or silos, and volume pools other than the Default pool.

**Note:** For information on how to upgrade from Legato Single Server Version to the full feature Legato products, contact a Legato representative.

The following list outlines the main features of Legato Single Server Version release 6.1:

- Legato Single Server Version can be configured and administered through the Legato Single Server Version Administrator program.
- Legato Single Server Version configures and manages the storage devices and volumes used for Oracle backups.
- Legato Single Server Version supports the backup and restore of Oracle tablespaces, datafiles, control files, and archived redo logs.
- Legato Single Server Version supports the backup and restore of *only Oracle data on the Oracle Server*—*not* other filesystem data on that computer or data on another computer on the network.
- Legato Single Server Version monitors the progress of Oracle backup and restore operations.
- Release 6.1 includes improved index entry lookup and removal methods, compared to the methods in Legato Storage Manager.

- Release 6.1 includes improved support for save set names, browse policies, and retention policies in Oracle backups.
- Release 6.1 includes support for Legato Single Server Version environment variable settings in the RMAN **send** command.
- Legato Single Server Version supports up to four concurrent storage devices (tape only).
- Legato Single Server Version supports up to four Oracle data streams being backed up simultaneously to the available storage devices.
- Legato Single Server Version supports specific Oracle9i Server releases on different operating systems, as shown in [Table 1 on page 8](#).

**Table 1. Supported Oracle9i Server Releases**

Operating System	Oracle Release
AIX 4.3.x	9.2 64-bit
HP-UX 11.0, 11.11	9.2 64-bit
Linux (RedHat, SuSE) 7.1	9.2 32-bit
Solaris (SPARC) 2.6	9.2 32-bit
Solaris (SPARC) 7	9.2 32-bit, 9.2 64-bit
Solaris (SPARC) 8	9.2 64-bit
Tru64 UNIX 5.0a, 5.1	9.2 64-bit
Windows 2000 Windows NT (Intel) 4.0	9.2 32-bit

**Note:** Legato Single Server Version release 6.1 does *not* support Oracle7, Oracle8, Oracle8i, or Oracle 9.0.1 Server software. Oracle7, Oracle8, Oracle8i, and Oracle 9.0.1 support is provided by Legato Storage Manager.

- Installation procedures are customized for different operating systems. See ["Legato Single Server Version Installation Procedures" on page 9](#).
- Legato Single Server Version supports registration, as described in ["Registration of Legato Single Server Version" on page 9](#).
- Legato Single Server Version supports the Oracle System Backup to Tape (SBT) 2.0 application programming interface (API) supported by Oracle9i.
- Release 6.1 supports Internet File System release 1.2 on Oracle9i, on all the operating systems Oracle supports.
- Release 6.1 supports Oracle Shared Server on Oracle9i, in all the environments Oracle supports, assuming that RMAN is configured according to Oracle specifications, including the specification that all RMAN operations use dedicated processes.
- Release 6.1 does *not* support SAP R/3 for Oracle backups or restores.



- Legato Storage Manager *cannot* be used to restore Oracle backups created by Legato Single Server Version.
- Legato Single Server Version *cannot* be used to restore Oracle backups created by Legato Storage Manager.

**Note:** When Legato Storage Manager is upgraded to Legato Single Server Version, the Legato Storage Manager backups *cannot* be kept.

- Coexistence of Legato Storage Manager and Legato Single Server Version is *not* supported.
- Coexistence of Legato NetWorker and Legato Single Server Version is *not* supported.

## Legato Single Server Version Software Updates on the Web Site

The Legato web site at <http://www.legato.com/LSSV> includes specific software updates. Currently, the web site includes a version of the Legato Single Server Version software for AIX *without* debugging information.

## Legato Single Server Version Installation Procedures

The *Legato Single Server Version Installation Guide, Release 6.1* includes instructions for installing the Legato Single Server Version software with Oracle9i Server. For up-to-date installation instructions, refer to this guide on the Legato web site at <http://www.legato.com/LSSV>.

## Registration of Legato Single Server Version

After initial installation, Legato Single Server Version is not registered, by default. While the software is not registered:

- On Windows, a splash screen appears whenever a Legato Single Server Version connection is established or closed.
- On both UNIX and Windows, a registration message appears every two hours.

To register Legato Single Server Version, go to the Legato web site at [www.legato.com/LSSV](http://www.legato.com/LSSV) and click on the Register LSSV link to obtain the registration form. Take a few minutes to fill out the form.

Registration of Legato Single Server Version provides:

- A registration code that disables the splash screen and registration messages, for easier use of the product.
- A chance to use the evaluation version of the Legato NetWorker software.
- Notices of Legato Single Server Version software updates.
- Notices of special offers.

For more information on the Legato Single Server Version registration process, refer to Chapter 1 in the *Legato Single Server Version Administrator's Guide, Release 6.1*.

**Note:** Contrary to information in the Legato Single Server Version splash screen on Windows, it is *not* possible to register the software by sending e-mail to [licensing@legato.com](mailto:licensing@legato.com).

## Verifying the Version of the Software Library

To verify the version of the Legato Single Server Version SBT library installed, check the version of the appropriate file:

- On UNIX, use one of these commands, where the *liblsm.\** filename ending depends on the particular UNIX system:
  - # **what** \$ORACLE\_HOME/lib/liblsm.\*
  - # **strings** \$ORACLE\_HOME/lib/liblsm.\* | **grep** "@(#)"
- On Windows:
  - a. Find the *orasbt.dll* file.
  - b. Right-click the file icon and select Properties.
  - c. In the Properties window, select the Version tab and view the file version information.

To confirm that the correct library file is installed, compare the library file with the *liblsm.\** (UNIX) or *orasbt.dll* (Windows) file in the Legato Single Server Version distribution. The two files should be identical. On UNIX, Oracle must not be linked to another *liblsm.\**, *libobk.\** (BusinessSuite Module for Oracle version of *liblsm.\**), or *libnwor.\** (NetWorker Module for Oracle version of *liblsm.\**) file.

## Known Limitations

The following sections describe known issues and workarounds in Legato Single Server Version release 6.1.

### Backup Performance Issues with Legato Single Server Version

With Legato Single Server Version, Oracle backup performance might decrease as the Legato Single Server Version client index increases in size. For example, if Oracle backups regularly generate a large number of entries in the client index, backup performance might degrade over time as the index grows and the backups take longer to complete. This problem does *not* occur with Legato Storage Manager.

If there are *no* existing backups, use the following method to prevent backup performance degradation. If there are existing Legato Single Server Version backups and backup slowdown is experienced, use the following method to stop backup performance degradation and gradually improve performance as existing backups expire in the Legato Single Server Version client index.

To prevent or correct backup performance problems, use forward slashes in the **format** option in either the RMAN **backup** command or **configure** command to generate backup piece names that resemble UNIX directory names. For example:

```
format 'ORCL:/FULL_%d_%u/'
```

```
format '/FULL_%d_%u/'
```




---

**Important:** Use forward slashes in the **format** option on both UNIX and Windows platforms. The slash at the end of the format string is *mandatory*.

---

## Increased Size of Binaries on AIX

The Legato Single Server Version binaries for AIX installed from the Oracle9i release CD-ROM contain a certain level of debugging information. While this information is minimal, its addition causes an increase in the software size on AIX, as compared to other platforms. This size increase might have an effect on performance. There is no impact on the quality of the backup and restore functionality of the software.

To obtain a version of the Legato Single Server Version software for AIX *without* debugging information, go to the Legato web site at <http://www.legato.com/LSSV>.

## Problems with Specifying the Correct Server Name on Windows

On Windows, if the correct Legato Single Server Version server name is not specified, the following procedures fail:

- Connecting to Legato Single Server Version in the Administrator program.  
For example, to establish a connection in the Administrator program, the Connect To dialog box must be opened and the server name entered in the Server text box. If the correct server name is not entered, the connection fails.
- Invoking a Legato Single Server Version command in which the server name is specified.  
For example, if the following **mminfo** command is invoked with an incorrect *server\_name* value, the command fails:

```
mminfo -av -s server_name
```

The required server name is identical to the value of the Name attribute in the NSR resource, accessible through the **nsradmin** character-based interface.

To determine the server name to use:

1. Enter the **nsradmin** command at the operating system command line:

```
# nsradmin
```

For more information on the **nsradmin** interface, refer to the **nsradmin** man page on UNIX or the **nsradmin** entry in the *Legato Command Reference Guide*.

2. At the **nsradmin>** prompt, enter the **print** command to print the NSR resource attribute values. For example:

```
nsradmin> print
type: NSR
name: mars.legato.com
nsradmin> quit
```

In this case, the required server name is *mars.legato.com*. If an alias name such as *mars* is specified in the Administrator program or in a Legato Single Server Version command, the corresponding procedure fails.