Oracle® Secure Backup

Readme

Release 10.4

E21481-06

June 2013

Purpose of this Readme

This Readme applies only to Oracle Secure Backup release 10.4 (10.4.0.1.0, 10.4.0.2.0, and 10.4.0.3.0). This Readme documents licensing, supported platforms and devices, and known and fixed issues.

Documentation

For documentation, use your Web browser to access the Oracle Secure Backup documentation library. The library home page is named `welcome.html` and is located at the top level of your CD-ROM image.

The most current Oracle Secure Backup documentation can be found at `http://www.oracle.com/technetwork/database/secure-backup/documentation/index.html`. The documentation is updated periodically, and Oracle recommends that you check this site for the current documentation and information on how to best use Oracle Secure Backup.

Contents

1 CD-ROM Image Contents

The CD-ROM image for each platform contains all necessary tools, documentation, and software to install and operate Oracle Secure Backup on the selected platform.

> **Note:** Each supported platform requires its own separate CD-ROM or installation Zip file.

You can access the installation files from a physical CD-ROM or through a Zip file downloaded from the following product site:

http://www.oracle.com/technetwork/database/secure-backup/downloads/index.html

2 Release Components

The only product in this release is Oracle Secure Backup.

3 Licensing Information

Refer to *Oracle Secure Backup Licensing Information* for licensing terms.

4 Supported Tape Devices and Platforms

Supported platforms, web browsers and NAS devices are listed on Certify on My Oracle Support (formerly Oracle*MetaLink*), at the following URL:

https://support.oracle.com/

Tape drive and library matrixes are available at the following URL:

http://www.oracle.com/technetwork/database/secure-backup/learnmore/index.html

5 ReadMe Information for Oracle Secure Backup 10.4.0.3.0

The information in this section of the ReadMe applies only to Oracle Secure Backup release 10.4.0.3.0.

This section contains the following topics:

5.1 New in Oracle Secure Backup 10.4.0.3.0

This section briefly describes the new functionality in Oracle Secure Backup 10.4.0.3.0 and provides links to the books that contain detailed information about these features.

5.1.1 Multiple Network Connections and Preferred Network Interface (PNI)

When multiple network connections exist between a media server and client, if you configure a PNI, then Oracle Secure Backup uses the network interface specified in the PNI to transmit data between the media server and other hosts. If no PNI is configured, Oracle Secure Backup chooses a network interface based on a predefined order of precedence.

See Also: *Oracle Secure Backup Installation and Configuration Guide*

5.2 Upgrading to Oracle Secure Backup Release 10.4.0.3.0

The process of upgrading to Oracle Secure Backup 10.4.0.3.0 is the same as that of upgrading to Oracle Secure Backup 10.4.0.2.0.

During an upgrade, Oracle Secure Backup uses the installation parameters specified in the `obparameters` file. If you had modified the values of certain parameters in the configuration file `obconfig`, then ensure that you modify these parameters in the `obparameters` file also.

See Section 6.2, "Upgrading to Oracle Secure Backup Release 10.4.0.2.0".

5.3 Bugs Fixed in Oracle Secure Backup 10.4.0.3.0

Table 1 lists the bugs that have been fixed in Oracle Secure Backup 10.4.0.3.0.

Table 1 Oracle Secure Backup 10.4.0.3.0 Fixed Bugs

Bug Number	Subject
12628683	OBACSLIBD HUNG WHILE CONSUMING LARGE AMOUNT OF CPU TIME
13828501	OSB WEBTOOL SHOWING INCORRECT SIZE
14054363	PNI TO TAKE PRECEDENCE OVER TYPE OF CONNECTION
14108975	AFTER UNINSTALL, OBCONFIG FILE SHOULD BE RETAINED
14191502	AIX MEDIA SERVER FAILS WITH BLOCKINGFACTOR GREATER THAN 1024
14366759	RESTORING WITH BLOCKINGFACTOR SET TO NOT MATCH RECORDED BLOCKINGFACTOR FAILS
14366777	RESTORES FAIL WHEN BACKUPS ARE DONE WITH MULTIPLE BLOCKINGFACTORS
14514220	ACSLS RESTRICTS TAPE DEVICES TO 20 AND CAPS TO 2
14587517	MORE THEN 6 CONCURRENT RESTORES FAILING ON ACSLS/OBACSLIBD CONTROLLED HARDWARE
14799563	OBACSLIBD SHOWS HIGH CPU USAGE
15843540	AIF IS NOT IMPORTED IF CATALOG SIZE EXCEEDS 128 GB
15923162	ADD SUPPORT FOR HP ESL G3 LIBRARY
16167707	NDMP_TAPE_CLOSE FAILURE THEN NEXT BACKUP ON TAPE VOLUME OVERWRITES VALID DATA
16192092	CORE DUMP DURING MKDEV OF IBM LTO6 IN SL3000 - MM_FREE WITH WST_ENCR/CDC TAG
16270470	AVOID OVERWRITING VOLUMES EVEN IF EOM IS NOT PRESENT OR RETURNS TO BOT
16278738	SUPPORT FOR HP MSL 6480 AND HP ESL G3 LIBRARIES
16459119	SBT__RPC_CREATEJOB: BACKUP JOB COULD NOT BE CREATED ('DUPLICATE JOB ID')
16469638	UPGRADE APACHE, OPENSSL AND PHP FOR OSB WEB TOOL
16477594	EMAIL TO BE SENT WHEN NOUPDATE FILE IS PRESENT AND IMPORT FAILS
16477623	VOLUMES IN STANDALONE DRIVES CAN'T BE PRELABELED WITH BARCODES
16477641	DATABASE BACKUP JOB WITH BF SET TO > 4096 GOES IN LOOP
16477657	INCORRECT TAPECAPACITY REPORTED IN HUMAN READABLE FORMAT

Table 1 (Cont.) Oracle Secure Backup 10.4.0.3.0 Fixed Bugs

Bug Number	Subject
16569323	DIRECTORIES NAMED "FILES" ARE NOT BACKED UP UNDER BI
16569596	DUPLICATION COMPLETES SUCCESSFULLY BUT LEAVES A MINIMALLY LABELED VOLUME
16665462	OBCLEANUP IS SEG FAULTING

5.4 Outstanding Bugs and Known Issues in Oracle Secure Backup 10.4.0.3.0

Table 2 discusses the outstanding bugs and known issues in Oracle Secure Backup 10.4.0.3.0.

Table 2 Oracle Secure Backup 10.4.0.3.0 Open Issues

Associated Bug Number	Issue
9773754	Volume Duplication Policy Requiring Multiple Duplicates Will Fail
10018505	Oracle Secure Backup Web Tool Can Fail to Start on Windows
10367517	Vaulting Empty Pre-labeled Volumes
14123834	On Linux Version 6, the Combination of a Blocking Factor that is Greater than 1024 and Direct I/O is not Supported
14185327	NDMP Filer Restore Failure When Multiple Paths Are Specified for RESTORE
14200659	Windows 2003/XP IPv6 Media Server Does not Connect to an IPv4 Client

See Also: "Additional Information On Blocking Factors" on page -5

5.4.1 Volume Duplication Policy Requiring Multiple Duplicates Will Fail

A volume duplication policy that requires multiple duplicates fails to create more than one duplicate volume. The first duplication job completes successfully but the subsequent duplication jobs go into a pending state waiting for resources.

Workaround: Restrict the duplication to two tape devices.

5.4.2 Oracle Secure Backup Web Tool Can Fail to Start on Windows

The Oracle Secure Backup Web tool can fail to start on the Windows platform, if the Oracle Secure Backup Service Logon account is not the System Account.

Workaround: Run Oracle Secure Backup Configuration and select the default System Account for the service logon.

5.4.3 Vaulting Empty Pre-labeled Volumes

A volume that has not been written to, but was pre-labeled with a media family (using the `labelvol` command), will be selected for vaulting by a vaulting scan.

Workaround: To prevent a volume from being selected during a vaulting scan, do not use the `lastwrite` event in the rotation rule that is defined for the media family.

5.4.4 On Linux Version 6, the Combination of a Blocking Factor that is Greater than 1024 and Direct I/O is not Supported

A backup job fails with I/O errors when the blocking factor is set above 1024 and Direct I/O is enabled.

Workaround: Change the blocking factor to be less than or equal to 1024 or disable Direct I/O on the media server. For more information, see "Additional Information On Blocking Factors" on page 5.

5.4.5 NDMP Filer Restore Failure When Multiple Paths Are Specified for RESTORE

The restore operation of an NDMP filer fails when multiple path names are specified in the `RESTORE` command.

Workaround: Specify one path name for a `RESTORE` command.

5.4.6 Windows 2003/XP IPv6 Media Server Does not Connect to an IPv4 Client

A Windows 2003 or Windows XP media server that is configured to support both an IPv6 and an IPv4 connection does not connect to a client that supports only an IPv4 connection.

Workaround: Add an IPv6 connection to the client or backup the client to a media server of a different platform such as Windows 2008 or Linux.

5.4.7 Additional Information On Blocking Factors

If the blocking factor is changed from the Oracle Secure Backup default setting, the best practice is to test that backup and restore operations function properly with the new blocking factor setting. RMAN backups, NDMP filer backups, and file-system backups have different blocking factor requirements that must be validated with the new blocking factor.

The media server platform, operating system, and the tape device may also have specific blocking factor limitations or requirements which you must review. Each media server in the Oracle Secure Backup domain needs to be tested with the new blocking factor. The testing must be done using typical backup loads that are specific to your environment. Both backup and restore operations must be completed without warnings or errors from either Oracle Secure Backup or RMAN. The restored data must also be examined to verify success. In particular, Oracle Secure Backup-issued warnings regarding the blocking factor during a backup operation must not be ignored. If you receive such warnings, adjust the blocking factor and rerun the backup operation.

The best practice is to have consistency by using only one blocking factor across the Oracle Secure Backup domain. More specifically, all backups written to a tape must be created with the same blocking factor. If you have a separate disaster recovery site, test and confirm that the new blocking factor setting is supported by the site's infrastructure.

6 ReadMe Information for Oracle Secure Backup 10.4.0.2.0

This information in this section of the Readme applies only to Oracle Secure Backup release 10.4.0.2.0.

This section contains the following topics:

6.1 New in Oracle Secure Backup 10.4.0.2.0

This section briefly describes the new functionality in Oracle Secure Backup 10.4.0.2.0 and provides links to the books that contain detailed information about the functionality.

6.1.1 Asynchronous I/O for Tape Devices that Support Multiple Command Queues

Starting with Oracle Secure Backup 10.4.0.2.0, you can choose to improve the write throughput of your tape devices by using asynchronous I/O. Asynchronous I/O implements write command queuing for SCSI channel operations. In this release, the LT05 and T10000C tape drives take advantage of the performance benefits provided by asynchronous I/O. This functionality is supported on Linux platforms only.

To enable asynchronous I/O, direct I/O must be enabled on the Linux media server. Perform the following steps to enable direct I/O:

```
# touch enable_dio in $OSB_HOME/device
# echo 1 >/proc/scsi/sg/allow_dio
```

Ensure that the environment variable `OSB_HOME` is set to the location of Oracle Secure Backup home directory.

Note: Support for asynchronous I/O is available only on Linux.

6.1.2 Oracle Secure Backup Support for ACSLS on Linux 64 Media Server

Starting with Oracle Secure Backup 10.4.0.2.0, the StorageTek Automated Cartridge System Library Software (ACSLS) is supported on a Linux 64-bit media server.

See Also: *Oracle Secure Backup Installation and Configuration Guide*

6.1.3 Listing Recyclable Volumes

You can use the `lsvol` command to list volumes that can be recycled in a tape library or a volumes catalog. The new value "recyclable" of `--attribute` lists the time-managed and content-managed volumes that can be recycled. This functionality is available only with the Oracle Secure Backup command-line client, `obtool`, not with the Oracle Secure Backup Web tool or Oracle Enterprise Manager.

See Also: *Oracle Secure Backup Reference*

6.1.4 Reliable Datagram Socket (RDS) on SPARC 11

Starting with Oracle Secure Backup 10.4.0.2.0, Reliable Datagram Socket (RDS) over Infiniband, with Remote Direct Memory Access (RDMA), is supported on Solaris SPARC 11 platforms.

See Also: *Oracle Secure Backup Installation and Configuration Guide*

6.1.5 Importing Cleaning Tapes Using the importvol Command

You can import cleaning tapes using the `clean` option of the `importvol` command. This functionality is available only with the Oracle Secure Backup command-line

client, `obtool`, not with the Oracle Secure Backup Web tool or Oracle Enterprise Manager.

> **See Also:** *Oracle Secure Backup Reference*

6.2 Upgrading to Oracle Secure Backup Release 10.4.0.2.0

Oracle Secure Backup release 10.4.0.2.0 is not backward compatible with Oracle Secure Backup release 10.1 or release 10.2. To upgrade to Oracle Secure Backup release 10.4.0.2.0, all hosts within the administrative domain must be utilizing Oracle Secure Backup release 10.3.0.1.0 or higher.

Note: Backups created using previous releases of Oracle Secure Backup can be restored using Oracle Secure Backup 10.4.0.2.0.

In an upgrade installation, the Oracle Secure Backup catalogs (contained in the `admin` directory) are preserved, retaining configuration information and backup metadata for your administrative domain. This state information for your administrative domain, such as the backup catalog, host, user and device configuration information, and any scheduled backup jobs, is stored in the `admin` directory under the Oracle Secure Backup home on your administrative server.

Note: It is recommended that you back up the administrative server before you perform an upgrade.

Before Upgrading an Administrative Domain to Oracle Secure Backup 10.4.0.2.0

Perform the following steps before you upgrade your existing administrative domain to Oracle Secure Backup release 10.4.0.2.2:

- Shut down drivers and background processes related to Oracle Secure Backup on all hosts
- Stop the daemons and services related to Oracle Secure Backup on all hosts in the administrative domain

Upgrade the administrative server host first, and then the other hosts in the domain.

> **See Also:** *Oracle Secure Backup Reference* for operating system-specific startup and shutdown commands

Brief instructions on upgrading Oracle Secure Backup on different platforms are described in the following sections.

6.2.1 Upgrade Installation of Oracle Secure Backup Release 10.4.0.2.0 on Windows

To upgrade to your Windows 32-bit or Windows-64 bit administrative server, media servers, and clients from any earlier version of Oracle Secure Backup to Oracle Secure Backup 10.4.0.2.0, you must first uninstall the existing software. You then run the Oracle Secure Backup 10.4.0.2.0 installer to install the new software on all your hosts.

While uninstalling software from your administrative server, you must select the `Keep` option to retain your administrative server configuration.

For more information about the steps to upgrade to Oracle Secure Backup 10.4.0.2.0 on Windows, see *Oracle Secure Backup Installation and Configuration Guide*.

6.2.2 Upgrade Installation of Oracle Secure Backup Release 10.4.0.2.0 on Linux or UNIX

To upgrade a Linux or UNIX installation of Oracle Secure Backup, follow the setup and installation process described in *Oracle Secure Backup Installation and Configuration Guide*.

During the upgrade, the installer displays the following prompt:

```
Oracle Secure Backup is already installed on this machine (myhostname-sun2).
Would you like to re-install it preserving current configuration data[no]?
```

Enter **yes** to perform the upgrade installation, retaining your previous configuration.

6.2.3 Upgrade Installation of Oracle Secure Backup Release 10.4.0.2.0 on Solaris

Oracle Secure Backup release 10.4.0.2.0 uses the Solaris standard generic (sgen) driver to support attached devices.

For more information about configuring the Solaris sgen driver to provide Oracle Secure Backup attach points, see *Oracle Secure Backup Installation and Configuration Guide*.

6.3 Bugs Fixed in Oracle Secure Backup 10.4.0.2.0

Table 3 lists the bugs that have been fixed in Oracle Secure Backup 10.4.0.2.0.

Table 3 Oracle Secure Backup 10.4.0.2.0 Fixed Bugs

Bug Number	Subject
9277316	OSB:10302: VFYLIBS REPORTS TRUNCATED SERIAL NUMBER FOR THE DRIVE
9916444	TAPE DRIVE SHOULD NOT BE TAKEN OUT OF SERVICE
10629160	VFYLIBS IS FAILING WITH 'WRONG ID REPORTED BY DRIVE'
11774370	DUPLICATE VOLUME NOT USED WHEN ORIGINAL VOLUME IS MISSING
11784757	DRIVE CHANNEL LATENCY - WRITE - LINUX AND SOLARIS
12574582	BOGUS DUPLICATION ERROR: "OUTPUT MEDIA SMALLER THAN DATA SIZE OF INPUT MEDIA"
12578717	FAILED DUPLICATION REMOVES ON-TAPE LABEL
12579854	OSB IGNORES PRELABELED TAPES, USES UNLABELED
12668367	IMPORTVOL LEAVES THE VOLUME IN THE DRIVE AND REPORTS ERROR "SOURCE IS EMPTY"
12775775	AIX 10.4 LIB DIR CONTENTS NEED TO BE REMOVED BEFORE UPGRADE OR AFTER UNINSTALL
12786273	OBROBOTD SEG FAULTS DURING MULTIPLE VIRTUAL DEVICE CREATION
12794762	OBROBOTD EXITED WITH CODE 0X20008F06, VALUE 26
12840740	USE LISTS CAN BECOME TOO LONG TO SUPPORT

Table 3 (Cont.) Oracle Secure Backup 10.4.0.2.0 Fixed Bugs

Bug Number	Subject
12874518	OBTOOL – LSSSEL CRASHES WHEN SELECTOR HOSTNAME IS LONGER THAN 37 CHARACTERS
12951078	DUPLICATION JOB GOES TO PENDING WHEN LARGE NUMBER OF DEVICES ARE PRESENT
12969272	INCREASE BLOCK SIZE LIMIT FROM 1MB TO 2MB ON THE LINUX PLATFORM
12986708	ERROR: COULD NOT CREATE SYMLINK /ARCSIGHT/ARCARCHIVE4/TEST/USR/BIN/RPMDB: PERMIS
13023406	FOR T10K DEVICE REMTAPE LOCATION WRONGLY DEFINED IN WST_DRIVES.H
13035935	ACC: DATA TABLE SUPPORT OF ROW HEADERS IS MISSING
13056050	RMAN FAILED WITH ORA-19511
13083531	ENCRYPTION WARNINGS ON T10000B AND C DRIVES
13088096	CAN'T CHANGE A USER PASSWORD IN THE UI IN WINDOWS32 OR 64
13241877	FAILED DUPLICATION UPDATED UNFINISHED DUPLICATE TO VOLUME DB
13262666	OBSCHEDULED LOG HAS ERRONEOUS WARNING ABOUT HAVING 2 DEVICE RESERVATIONS ON DUP
13391793	OSB UNABLE TO RESOLVE IPV6 ADDRESSES WHEN SPECIFIED AS ::
13474350	RESTORE FAILS WITH ERROR: CAN'T QUEUE JOBS - CONNECTION RESET BY PEER
13475037	NDMP_DATA_CONNECT FAILURE: COUDN'T CONNECT TO MOVER
13476158	"OBJECT NOT FOUND" WHEN ATTEMPTING RESTORE
13501265	EDITING HOST ON WINDOWS CREATES ERROR: CAN'T FETCH HOST - NAME NOT FOUND
13504602	WEBTOOL FAILS TO ADD PREAUTHORIZED ACCESS
13520013	DEVICE GETTING LOCKED AFTER DUPLICATION
13592144	BACKUP OF ORACLE FAILS WITH NDMP ERROR
13604237	CHANGE DEFAULT FOR NETWORK LOAD BALANCING TO DISABLE
13610839	DATASET DIRECTIVE CAUSES FILES TO BE INVISIBLE DURING CATALOG BROWSE FOR RESTORE
13623433	REDUCE SCHEDULER DEPENDENCE ON OBROBOTD
13651198	UPGRADE TO LATEST VERSION OF APACHE (v2.2.22), PHP (v5.3.13), AND OPENSSL (v0.9.8x)
13694304	NETAPP BACKUP FAILS BAD FILE DESCRIPTOR WHEN FILES IN DIR > 1.5MILLION
13771142	OSB RMAN BACKUP 'LSVOL'DOESN'T INDICATE WHEN NO BACKUP PIECES REMAIN ON TAPE
13813168	"EXCLUDE ORACLE DATABASE FILES" - DOESN'T EXCLUDE DB FILES
13899880	INVALID CHAR IN KEYSTORE PASSWORD CAUSES "FATAL: LIBNDMPCOMMON.SO: OPEN FAILED"

7 ReadMe Information for Oracle Secure Backup 10.4.0.1.0

This information in this section of the Readme applies only to Oracle Secure Backup release 10.4.0.1.0.

This section contains the following topics:

7.1 New in Oracle Secure Backup 10.4.0.1.0

This section briefly describes the new features in Oracle Secure Backup 10.4.0.1.0 and provides links to the books that contain detailed information about these features.

7.1.1 Oracle Secure Backup Support for Reliable Datagram Socket (RDS)

Oracle Secure Backup enables you to use the Reliable Datagram Socket (RDS) protocol over Infiniband for data transfer between a client and media server. You can also use Remote Direct Memory Access (RDMA) with RDS to maximize the benefits of using RDS over Infiniband.

See Also:

- *Oracle Secure Backup Installation and Configuration Guide*
- *Oracle Secure Backup Reference*

7.1.2 Oracle Secure Backup Support for Network Load Balancing

Oracle Secure Backup supports network load balancing for both file-system and Oracle Database backup and restore operations. Network load balancing ensures optimal utilization of multiple network connections on a client by distributing backup and restore jobs across the available network connections.

See Also: *Oracle Secure Backup Installation and Configuration Guide* for more information about network load balancing

7.1.3 Oracle Secure Backup Support for Non-Uniform Memory Access (NUMA)

Oracle Secure Backup provides support for Non-Uniform Memory Access (NUMA) architecture. In a NUMA architecture, processors are grouped into smaller systems called nodes or regions and all processors within a node share a common memory. This provides improved scalability and performance because accessing this local memory is faster.

See Also:

- *Oracle Secure Backup Administrator's Guide*
- *Oracle Secure Backup Reference*

7.1.4 Oracle Secure Backup Support for Character Special Files

Oracle Secure Backup 10.4.0.1.0 supports character special files while backing up and restoring raw file-systems.

See Also: *Oracle Secure Backup Reference* for more information about backing up and restoring character special files

7.1.5 Support for Microsoft Windows 7 64-bit and Solaris SPARC v11 Express Platforms

Starting with Oracle Secure Backup 10.4.0.1.0, the role of Oracle Secure Backup administrative server, media server, and client is supported on the following platforms:

- Microsoft Windows 7 64-bit
- Solaris SPARC v11 Express

7.2 Upgrading to Oracle Secure Backup Release 10.4.0.1.0

In an upgrade installation, the Oracle Secure Backup catalogs (contained in the `admin` directory) are preserved, retaining configuration information and backup metadata for your administrative domain. This state information for your administrative domain, such as the backup catalog, host, user and device configuration information, and any scheduled backup jobs, is stored in the `admin` directory under the Oracle Secure Backup home on your administrative server.

Note: Oracle recommends that you back up the administrative server before you perform an upgrade.

Before upgrading an existing administrative domain to Oracle Secure Backup release 10.4.0.1.0, you must shut down drivers and background processes related to Oracle Secure Backup on all hosts. You must stop the daemons and services related to Oracle Secure Backup on all hosts in the administrative domain. Upgrade the administrative server host first, and then the other hosts in the domain.

See Also: *Oracle Secure Backup Reference* for operating system-specific startup and shutdown commands

Brief instructions on each step are described in the following sections.

7.2.1 Upgrading Oracle Secure Backup Releases 10.1 and 10.2 to Release 10.4.0.1.0

Oracle Secure Backup release 10.4.0.1.0 is not backward compatible with Oracle Secure Backup release 10.1 or release 10.2. To upgrade to Oracle Secure Backup release 10.4.0.1.0, all hosts within the administrative domain must be utilizing Oracle Secure Backup release 10.3.0.1.0 or higher.

Note: Backups created using previous releases of Oracle Secure Backup can be restored using Oracle Secure Backup 10.4.0.1.0.

7.2.1.1 Upgrade Installation of Oracle Secure Backup Release 10.4.0.1.0 on Windows You can upgrade your Windows 32-bit or Windows 64-bit administrative server, media servers, and clients from any earlier version of Oracle Secure Backup to Oracle Secure Backup release 10.4.0.1.0 by running the Oracle Secure Backup release 10.4.0.1.0 installer. This is called an upgrade installation. The installer detects the existing installation of Oracle

Secure Backup and runs the uninstaller for the previous version automatically before beginning the new installation.

When you upgrade your administrative server from any earlier version of Oracle Secure Backup to Oracle Secure Backup release 10.4.0.1.0, the uninstaller displays the following prompt:

```
This system was configured as an Oracle Secure Backup Administrative Server.

Oracle Secure Backup creates files specific to this administrative
domain in the "admin" directory. Would you like to keep these files
in case you reinstall Oracle Secure Backup?

If you choose "Delete" all files related to Oracle Secure Backup
will be removed from this system. If you choose "Keep" the files
specific to this administrative domain will be retained.
```

For the `admin` directory files, select the **Keep** option. Selecting the **Delete** option causes the installation to be incomplete, and then you must uninstall and reinstall Oracle Secure Backup to complete the installation. If you do not want to save the existing `admin` directory files, then you must exit the installation, uninstall Oracle Secure Backup release 10.3 or 10.2 and select the **Delete** option. After you uninstall Oracle Secure Backup release 10.3 or 10.2, you can install Oracle Secure Backup release 10.4.0.1.0 by running the Oracle Secure Backup release 10.4.0.1.0 installer.

7.2.1.2 Upgrade Installation of Oracle Secure Backup Release 10.4.0.1.0 on Linux or UNIX

To upgrade a Linux or UNIX installation of Oracle Secure Backup, follow the setup and installation process described in *Oracle Secure Backup Installation and Configuration Guide*.

During the upgrade, the installer displays the following prompt:

```
Oracle Secure Backup is already installed on this machine (myhostname-sun2).
Would you like to re-install it preserving current configuration data[no]?
```

Enter **yes** to perform the upgrade installation, retaining your previous configuration.

7.2.1.3 Upgrade Installation of Oracle Secure Backup Release 10.4.0.1.0 on Solaris

Oracle Secure Backup release 10.4.0.1.0 uses the Solaris standard generic (sgen) driver to support attached devices.

For more information about configuring the Solaris sgen driver to provide Oracle Secure Backup attach points, see *Oracle Secure Backup Installation and Configuration Guide*.

7.3 Bugs Fixed in Oracle Secure Backup 10.4.0.1.0

Table 4 lists the bugs that have been fixed in Oracle Secure Backup 10.4.0.1.0.

Table 4 Oracle Secure Backup 10.4.0.1.0 Fixed Bugs

Bug Number	Subject
12965340	SUPPRESS CAPACITY CHECK FOR DUPLICATION
12926877	CWALLET.SSO IS SKIPPED DURING HARDWARE ENCRYPTION
12875157	DEVICE OBJECT USE LIST CORRUPTION CAUSING RESTORE FAILURE
12822296	BROWSING CATALOG GETS EXTREMELY SLOW AT TIMES

Table 4 (Cont.) Oracle Secure Backup 10.4.0.1.0 Fixed Bugs

Bug Number	Subject
12652278	NON ACSLS MACHINES SHOULD ONLY HAVE 3 PASSES IN AUTOMOUNTER
12575036	OBROBOTD CONNECTION RESET BY PEER
12543183	OBTOOL SEGFAULTS DURING CATALOG LISTING OF 1023 CHARACTER LENGTH DIRECTORY PATH
12322773	USERNAME INPUT VALIDATION BYPASS OF VALIDATE_LOGIN FUNCTION ON LOGIN.PHP PAGE
12315104	OSB WEB TOOL ONLY DISPLAYS THE 1ST 25 BACKUP SECTIONS
12313425	VOLUME MISMATCH
12312668	DATA FIELDS OVERFLOW WHEN DEALING WITH TAPE VOLUMES LARGER THAN 2TB
11907554	MODIFY IO RATE REPORT IN JOB TRANSCRIPTS TO BE MORE ACCURATE AND DESCRIPTIVE
11817669	NULL STRING FOR CLIENT IN PNI COMMAND CAUSES SEG FAULT
11797678	SCHEDULER CRASH WHEN DUPLICATION JOB SUMITTED WITH STANDALONE DRIVE
11779486	UI CATALOG RESTORE BROWSE 'PREVIOUS' ISN'T WORKING "ERROR: CAN'T CD" IS THROWN
11662645	OSB MEDIA SERVER CAN'T HANDLE DAR RESTORES WHEN POSITION > 0X7FFFFF
11076873	LSJ AND CATXCR UNRESPONSIVE WHEN OBACSLIBD HAS ANY DEVICE RESERVED
11071973	OBACSLIBD SEG FAULTS WHEN NO TAPE DRIVES ARE CONFIGURED
10314282	WEB SERVER STARTUP FAILS - OBPASS.BAT CAN'T EXECUTE OBTOOL
10302944	CHPNI COMMAND
10283082	UPDATER CHECKED OUT - STAT RECORD NOT FOUND (OB INDEX DB MGR)
10273086	DATASERVICE FAILED TO CONNECT TO MOVER SERVICE.
10259321	IBM LTO 5 DRIVE REPORTS "MEDIAINFO NOT HW ENCRYPTABLE" WHEN IT SHOULD BE
10231332	CLEANING NOT WORKING PROPERLY-- "ERROR: CAN'T EXECUTE COMMAND - SOURCE IS EMPTY"
10218725	OSB JOB START IS SLOW
10199325	WEBTOOL REMOVE HOST DOESN'T SUPRESS COMMUNICATION EVEN WHEN CHECKED
10191788	OBTOOL INVENTORY FAILED WITH "CAN'T EXECUTE COMMAND - OBJECT NOT FOUND"
10162402	OSB CH/RM/MKDEV CMD TO ACSLS INVALIDATES DRIVE DB, AFFECTING QUEUED REQUESTS
10158637	DIRECT ATTACHED SCSI DEVICE FILES(SGEN) HAVE UNRECOGNIZED FORM
10154601	IN GUI, QUOTED BACKSLASHES IN ALTERNATE PATH BREAKS RESTORE AND RESTORE PREVIEW

Table 4 (Cont.) Oracle Secure Backup 10.4.0.1.0 Fixed Bugs

Bug Number	Subject
10134939	CORE DUMPS FROM ACSLS LIBRARY
10126431	SOLARIS V11 INSTALL REPORTS ERRORS DURING PROTECTION STEP
10080006	MULTIPLE ATTACH POINTS POSES RISKS OF DEVICE HANGS
10071088	NDMP INCREMENTALS FAIL IF USING A BACKUP TYPE THAT DOESN'T SUPPORT BASE_DATE
10054576	REFERENCING MH AND DRIVE STRUCTURES INTERCHANGEABLY LEADS TO CORE DUMPS
10045771	OSB MULTI-LINKED DIRECTORY ERRORS BACKING UP ON AIX
9958811	SENSE RANGE COMMAND BEING ATTEMPTED ON LIBRARY THAT DOESN'T SUPPORT RANGES
9857394	TRYING TO ADD MORE THAN 35 CLIENTS FOR A PNI JUST GETS AN ERROR
9828170	OBACSLIBD APPEARS TO HANG WITH 20 TAPES DRIVES IN ACSLS LIBRARY
9387688	OSB WEBTOOL FAILS TO PING DEVICE WITH WWN ATTACHMENT
9371317	INCREMENTAL BACKUPS BEHAVES DIFFERENTLY IF TZ VARIABLE IS SET
9302454	AUTOMOUNT FAILS TO OVERWRITE VOLUME THAT ONLY HAS AN INCOMPLETE SECTION
9245324	CANNOT SET DEVICE RESTRICTION FOR OSB-CATALOG-SCHED SCHEDULE IN WEB TOOL
9194101	CAN NOT SET WRITE WINDOW OF FOREVER
9170790	RENAME OF A HOST WITH THE '--NOCOMM' OPTION FAILS IN UI
9170779	IF ONLY ONE JOB IS DISPLAYED ON THE MANAGE:JOBS PAGE, TRANSCRIPT ISN'T VIEWABLE
9082393	HOST NAME: ERROR STATUS: OPERATION ROLES: [UNABLE] IN OSB WEB
8994552	ABILITY TO BACKUP RAW DEVICES /DEV/RDSK/DEVICE
8617627	REPLACE GETENV() OS CALLS WITH POSIX_UNAME
8495214	CONFIG:DEVICES:BLOCKING FACTOR NEEDS A CHECKBOX FOR DEFAULT
8491199	OSB BACKUP SCHEDULE--PREVIEW TRIGGER MISSING 'LEVEL' INFO
8491189	SETTING AN IP INTERFACE NAME FOR AN NDMP HOST IN THE UI THROWS AN ERROR
8422984	OPTIONS 'IDENTIFYVOL' & 'IMPORT' SHOULD ONLY BE OFFERED FOR A DRIVE/NOT LIBRARY
8390931	MANAGE->VOLUMES PAGE DOES NOT RETAIN THE SELECTED VOLUME ATTRIBUTES
8256070	RAW RESTORE APPENDING THE 'FILE NUMBER' TO THE VOLUME ID SPECIFIED
7704721	INV OF LIMITED RANGE OF SE'S IS SAMPLING ALL ELEMENTS ON SOME LIBRARIES

8 Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc.

Access to Oracle Support

Oracle customers have access to electronic support through My Oracle Support. For information, visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info or visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs if you are hearing impaired.

Oracle Secure Backup Readme, Release 10.4
E21481-06