Oracle® Secure Backup

Licensing Information User Manual

Release 19.1

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ORACLE®

Oracle Secure Backup Licensing Information User Manual, Release 19.1

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A   Open Source and Software License Text

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Preface

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This book is intended for all users of Oracle Secure Backup 18*c* Release 1 (18.1.0.0.0).

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boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
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`monospace`	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

1

Oracle Secure Backup Product Family

This chapter describes the two Oracle Secure Backup tape management editions along with feature availability and the Oracle Secure Backup Cloud Module.

This chapter contains these sections:

- Introduction
- Introducing the Oracle Secure Backup Product Family
- Feature Availability by Centralized Management Edition
- Oracle Secure Backup Cloud Module
- Special-Use Licensing
- Packaging and Support
- Third-Party Notices and Licenses

Introduction

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Introducing the Oracle Secure Backup Product Family

Oracle Secure Backup is a centralized backup management solution providing high performance, heterogeneous data protection in distributed UNIX, Linux, Windows, and Network Attached Storage (NAS) environments. Protecting file-system and Oracle Database data, Oracle Secure Backup provides a complete tape backup solution for your IT environment. In addition to providing tape backups, disk pool backups, and backups to Oracle Cloud Infrastructure, Oracle Secure Backup delivers an integrated Oracle Database backup to third-party cloud (Internet) storage, through the Oracle Secure Backup Cloud Module.

Oracle Secure Backup offers two centralized backup management editions for the data center, each suitable for different development and deployment scenarios:

- Oracle Secure Backup is ideally suited for distributed environments consisting of multiple heterogeneous servers with advanced data protection requirements such as encryption, automated rotation of tapes between multiple locations, and protection of NAS devices.

This edition allows the use of tape devices, disk pool devices, and cloud storage devices as backup targets.

- Oracle Secure Backup Express edition provides reliable data protection for single-server Oracle Database environments backing up to tape. Oracle Secure Backup Express is available free with the Oracle Database and is the same core product as Oracle Secure Backup. The Express edition is limited to a single host with one direct-attached tape drive and has some restrictions on advanced feature usage, as shown in Table 1-1.

Oracle Secure Backup is licensed per simultaneous backup or restore operation to an Oracle Secure Backup disk pool, configured tape drive and/or Cloud. When using the Oracle Secure Backup centralized backup management solution, a backup or restore operation would include Oracle database or MySQL jobs via integration with the Oracle System Backup Tape (SBT) API as well as file-system jobs. An Oracle Secure Backup license is required for each configured tape drive as one backup or restore stream is in progress at any one time. Oracle Secure Backup disk pools and cloud devices accommodate simultaneous backup and restore streams and therefore a license is required for each concurrent job (user-defined maximum number of concurrent jobs) per disk pool and/or cloud device. For example, if an Oracle Secure Backup domain included 4 tape drives, one disk pool configured to allow 10 concurrent jobs, and one cloud device configured to allow 10 concurrent jobs, a total of 24 licenses would be needed.

The Oracle Secure Backup Cloud Module provides Oracle Database backup to cloud storage using Recovery Manager (RMAN) and is independent of the Oracle Secure Backup data protection management editions at the data center. The Oracle Secure Backup Cloud Module can be used as a complement or replacement for the Oracle Secure Backup centralized management solution or other third-party media-management products.

Feature Availability by Centralized Management Edition

Table 1-1 lists the features available in Oracle Secure Backup and Oracle Secure Backup Express. This table explains the differences between Oracle Secure Backup and Oracle Secure Backup Express and helps you to determine which deployment is best for your business.

Table 1-1   Feature Availability of Oracle Secure Backup and Oracle Secure Backup Express

Feature	Oracle Secure Backup Express	Oracle Secure Backup
Integrated with RMAN for online tape backup and restore of Oracle Database	Yes	Yes
Backup and restore of non-database file-system data to tape	Yes	Yes
Backup and restore to/from disk	No	Yes
Backup and restore to/from cloud	No	Yes
Backup of Oracle Real Application Clusters (Oracle RAC) environments	No	Yes
Integrated with Oracle Enterprise Manager Cloud Control starting with Oracle Database 10*g* Release 2	Yes	Yes
Multiple tape drive usage within the backup environment	No	Yes
Fibre attached device support	No	Yes
Backup encryption to tape	No	Yes
RMAN advanced backup compression levels	No	Yes

Table 1-1   (Cont.) Feature Availability of Oracle Secure Backup and Oracle Secure Backup Express

Feature	Oracle Secure Backup Express	Oracle Secure Backup
ACSLS support	No	Yes
Vaulting support (automates rotation of tapes between multiple locations)	No	Yes
Networked backup of distributed servers and/or tape devices	No	Yes
Support for backup to Oracle Cloud Infrastructure Object Storage Classic	No	Yes
Support for backup to Oracle Cloud Infrastructure Object Storage	No	Yes

Oracle Secure Backup Cloud Module

The Oracle Secure Backup Cloud Module delivers Oracle RMAN integration with Amazon S3 using an SBT library specific to Amazon S3.

The Oracle Secure Backup Cloud Module is licensed for each RMAN channel simultaneously used by the backup domain to an Amazon S3 destination. An Oracle Secure Backup Cloud Module license can be shared among multiple Oracle Database backups, as long as the number of RMAN channels for backup to the cloud does not exceed the number of Oracle Secure Backup Cloud Module licenses. For example, if one environment has 12 Oracle Secure Backup Cloud Module licenses, then 3 Oracle Database backups could each use 4 RMAN channels simultaneously or 1 Oracle Database backup could use all 12 RMAN channels at one time as long as no other RMAN channels were being used.

Cloud storage costs associated with Oracle Database backups are set by Amazon S3 and are independent of Oracle. An Amazon S3 user account must be established before performing Oracle RMAN backups directly to Amazon S3 using the Oracle Secure Backup Cloud Module.

> **Note:**
>
> The Oracle Secure Backup Cloud Module is not available with Oracle Secure Backup Express edition.

Special-Use Licensing

The Oracle Database Enterprise Edition (EE) offers licensed options for some advanced database management technologies. Oracle Secure Backup includes use of two optimizations at no additional cost. These optimizations are normally available only with the purchase of the Oracle Advanced Security Option or the Oracle Advanced Compression Option. This Oracle Secure Backup special-use licensing includes:

* RMAN backup encryption beginning with Oracle Database 10g Release 2

  Direct to tape is available only when using Oracle Secure Backup. It is not available when using third-party media-management products.

Direct to cloud storage, using Amazon S3, is available when using the Oracle Secure Backup Cloud Module.

Direct to cloud storage, using Oracle Cloud Infrastructure, is available when using Oracle Secure Backup.

- RMAN backup compression algorithms that would otherwise require Oracle Advanced Compression option

The RMAN backup compression special-use licensing is available when using the Oracle Secure Backup Cloud Module or the Oracle Secure Backup management solution and is not available with the Oracle Secure Backup Express edition.

The Oracle Secure Backup special-use licenses apply to RMAN backup encryption, which is a component of the Oracle Advanced Security Option, and RMAN backup compression levels, which are components of the Oracle Advanced Compression Option. To use additional features of the Oracle Advanced Security Option or the Oracle Advanced Compression Option, you must license those options separately.

- Oracle Secure Backup Cloud Module on ZDLRA

Oracle Secure Backup Cloud Module can be used free of charge on Oracle Zero Data Loss Recovery Appliance (ZDLRA) for the sole purpose of backing up data to and restoring data from S3-compatible storage devices that are in the same campus as ZDLRA.

This special use license does not allow you to move such data to or from Non-Oracle Public Cloud Environments, either directly or through gateway devices.

You are allowed to move such data to and from Oracle databases that do not have ZDLRA, however, Oracle Secure Backup Cloud Module must be licensed on those Oracle databases. For example, if you use Oracle Secure Backup Cloud Module free of charge on ZDLRA to back up data to an S3-compatible storage device, you can then use Oracle Secure Backup Cloud Module to restore that data to an Oracle database without ZDLRA, but only if Oracle Secure Backup Cloud Module is licensed on that Oracle database.

To move data to or from the Oracle Cloud Infrastructure the ZDLRA provides an integration with the OCI Backup Cloud Module which does not require a license.

Packaging and Support

Oracle Secure Backup Express is bundled with the Oracle Database. Support for Oracle Secure Backup Express is provided exclusively through a free Oracle Discussion Forum monitored by Oracle employees as well as community experts.

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The following table displays information about third-party components and separately licensed software products included with Oracle Secure Backup 19.1.

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Table 1-2   (Cont.) Third-Party Components and Open Source or Separately Licensed Software Products

Component Name and Version	CProvider	License Information
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/***

* NCSA HTTPd Server

* Software Development Group

* National Center for Supercomputing Applications

* University of Illinois at Urbana-Champaign

* 605 E. Springfield, Champaign, IL 61820

* httpd@ncsa.uiuc.edu

*

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*

* md5.c: NCSA HTTPd code which uses the md5c.c RSA Code

*

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:

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Michael Campanella (campanella@stevms.enet.dec.com)

*/

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file:

ext/calendar/dow.c

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*

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file:

ext/hash/sha3/generic64lc/brg_endian.h

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file:

ext/hash/xxhash/xxhash.h

xxHash - Extremely Fast Hash algorithm
Header File
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file:

ext/mbstring/php_unicode.c

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ext/mysqlnd/mysqlnd_portability.h

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file:

ext/opcache/jit/dynasm/dasm_proto.h

/*
** DynASM encoding engine prototypes.

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*/

file:

ext/opcache/jit/dynasm/minilua.c

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file:

ext/opcache/zend_accelerator_util_funcs.c

/*

* zend_adler32() is based on zlib implementation

* Computes the Adler-32 checksum of a data stream

*

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*

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file:

ext/pcre/pcre2lib/pcre2.h

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file:

ext/phar/tar.c

/* adapted from format_octal() in libarchive

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*/

file:

ext/phar/zip.c

/*

extracted from libzip

zip_dirent.c -- read directory entry (local or central), clean dirent

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This function is part of libzip, a library to manipulate ZIP archives.

The authors can be contacted at <nih@giga.or.at>

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file:

ext/standard/base64.h

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*/

file:

ext/standard/crypt_blowfish.c

/*

* The crypt_blowfish homepage is:

*

* http://www.openwall.com/crypt/

*

* This code comes from John the Ripper password cracker, with reentrant

* and crypt(3) interfaces added, but optimizations specific to password

* cracking removed.

*

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*

* This implementation is fully compatible with OpenBSD's bcrypt.c for prefix

* "$2b$", originally by Niels Provos <provos at citi.umich.edu>, and it uses

* some of his ideas. The password hashing algorithm was designed by David

* Mazieres <dm at lcs.mit.edu>. For information on the level of

* compatibility for bcrypt hash prefixes other than "$2b$", please refer to

* the comments in BF_set_key() below and to the included crypt(3) man page.

*

* There's a paper on the algorithm that explains its design decisions:

*

* http://www.usenix.org/events/usenix99/provos.html

*

* Some of the tricks in BF_ROUND might be inspired by Eric Young's

* Blowfish library (I can't be sure if I would think of something if I

* hadn't seen his code).

*/

file:

ext/standard/crypt_freesec.c

/*

* This version is derived from the original implementation of FreeSec

* (release 1.1) by David Burren. I've reviewed the changes made in

* OpenBSD (as of 2.7) and modified the original code in a similar way

* where applicable. I've also made it reentrant and made a number of

* other changes.

* - Solar Designer <solar at openwall.com>

*/

/*

* FreeSec: libcrypt for NetBSD

*

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```
*

* $Owl: Owl/packages/glibc/crypt_freesec.c,v 1.4 2005/11/16 13:08:32 solar Exp $

*

* This is an original implementation of the DES and the crypt(3) interfaces

* by David Burren <davidb at werj.com.au>.

*

* An excellent reference on the underlying algorithm (and related

* algorithms) is:

*

* B. Schneier, Applied Cryptography: protocols, algorithms,

* and source code in C, John Wiley & Sons, 1994.

*

* Note that in that book's description of DES the lookups for the initial,

* pbox, and final permutations are inverted (this has been brought to the

* attention of the author). A list of errata for this book has been

* posted to the sci.crypt newsgroup by the author and is available for FTP.

*

* ARCHITECTURE ASSUMPTIONS:

* This code used to have some nasty ones, but these have been removed

* by now. The code requires a 32-bit integer type, though.

*/
```

file:

ext/standard/flock_compat.c

```
/*

* Program: Unix compatibility routines

*

* Author: Mark Crispin

* Networks and Distributed Computing

* Computing & Communications

* University of Washington

* Administration Building, AG-44

* Seattle, WA 98195

* Internet: MRC@CAC.Washington.EDU
```

*

* Date: 14 September 1996

* Last Edited: 14 August 1997

*

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file:

ext/standard/html_tables/mappings/8859-1.TXT

#

Name: ISO/IEC 8859-1:1998 to Unicode

Unicode version: 3.0

Table version: 1.0

Table format: Format A

Date: 1999 July 27

Authors: Ken Whistler <kenw@sybase.com>

#

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#

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#

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ISO/IEC 8859-1:1998 characters map into Unicode.

#

Format: Three tab-separated columns

Column #1 is the ISO/IEC 8859-1 code (in hex as 0xXX)

Column #2 is the Unicode (in hex as 0xXXXX)

Column #3 the Unicode name (follows a comment sign, '#')

#

The entries are in ISO/IEC 8859-1 order.

#

Version history

1.0 version updates 0.1 version by adding mappings for all

control characters.

\#

\# Updated versions of this file may be found in:

\# <ftp://ftp.unicode.org/Public/MAPPINGS/>

\#

\# Any comments or problems, contact <errata@unicode.org>

\# Please note that <errata@unicode.org> is an archival address;

\# notices will be checked, but do not expect an immediate response.

\#

file:

ext/standard/html_tables/mappings/ROMAN.TXT

\#===

\# File name: ROMAN.TXT

\#

\# Contents: Map (external version) from Mac OS Roman

\# character set to Unicode 2.1 and later.

\#

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\#

\# Contact: charsets@apple.com

\#

\# Changes:

\#

\# c02 2005-Apr-05 Update header comments. Matches internal xml

\# <c1.1> and Text Encoding Converter 2.0.

\# b4,c1 2002-Dec-19 Update URLs, notes. Matches internal

\# utom<b5>.

\# b03 1999-Sep-22 Update contact e-mail address. Matches

\# internal utom<b4>, ufrm<b3>, and Text

\# Encoding Converter version 1.5.

\# b02 1998-Aug-18 Encoding changed for Mac OS 8.5; change

\# mapping of 0xDB from CURRENCY SIGN to

\# EURO SIGN. Matches internal utom<b3>,

ufrm<b3>.

n08 1998-Feb-05 Minor update to header comments

n06 1997-Dec-14 Add warning about future changes to 0xDB

from CURRENCY SIGN to EURO SIGN. Clarify

some header information

n04 1997-Dec-01 Update to match internal utom<n3>, ufrm<n22>:

Change standard mapping for 0xBD from U+2126

to its canonical decomposition, U+03A9.

n03 1995-Apr-15 First version (after fixing some typos).

Matches internal ufrm<n9>.

#

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The latest tables should be available from the following:

#

<http://www.unicode.org/Public/MAPPINGS/VENDORS/APPLE/>

#

For general information about Mac OS encodings and these mapping

tables, see the file "README.TXT".

file:

ext/standard/php_crypt_r.c

/*

* License for the Unix md5crypt implementation (md5_crypt):

*

* --

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* this stuff is worth it, you can buy me a beer in return. Poul-Henning Kamp

* --

*

* from FreeBSD: crypt.c,v 1.5 1996/10/14 08:34:02 phk Exp

* via OpenBSD: md5crypt.c,v 1.9 1997/07/23 20:58:27 kstailey Exp

* via NetBSD: md5crypt.c,v 1.4.2.1 2002/01/22 19:31:59 he Exp

*

*/

file:

ext/standard/strnatcmp.c

Modified for PHP by Andrei Zmievski <andrei@ispi.net>

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.

Copyright (C) 2000 by Martin Pool <mbp@humbug.org.au>

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ext/standard/scanf.c

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file:

ext/random/engine_mt19937.c

Mersenne Twister random number generator -- a C++ class MTRand

Based on code by Makoto Matsumoto, Takuji Nishimura, and Shawn Cokus

Richard J. Wagner v1.0 15 May 2003 rjwagner@writeme.com

The Mersenne Twister is an algorithm for generating random numbers. It

was designed with consideration of the flaws in various other generators.

The period, $2^{19937}-1$, and the order of equidistribution, 623 dimensions,

are far greater. The generator is also fast; it avoids multiplication and

division, and it benefits from caches and pipelines. For more information

see the inventors' web page at http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html

Reference

M. Matsumoto and T. Nishimura, "Mersenne Twister: A 623-Dimensionally

Equidistributed Uniform Pseudo-Random Number Generator", ACM Transactions on

Modeling and Computer Simulation, Vol. 8, No. 1, January 1998, pp 3-30.

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ext/standard/uuencode.c

/*

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file:

main/php_open_temporary_file.c

/* Loosely based on a tempnam() implementation by UCLA */

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main/reentrancy.c

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*

* strtok_r, from Berkeley strtok

* Oct 13, 1998 by Wes Peters <wes@softweyr.com>

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file:

main/snprintf.c

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/* }}} */

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main/strlcpy.c

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file:

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file:

Zend/zend_ini_parser.c

/* Bison implementation for Yacc-like parsers in C

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/* As a special exception, you may create a larger work that contains
part or all of the Bison parser skeleton and distribute that work
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parser generator using the skeleton or a modified version thereof
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License without this special exception.

This special exception was added by the Free Software Foundation in
version 2.2 of Bison. */

/* C LALR(1) parser skeleton written by Richard Stallman, by
simplifying the original so-called "semantic" parser. */

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| Authors: Zeev Suraski <zeev@php.net> |
| Jani Taskinen <jani@php.net> |

+---+

*/

file:

Zend/zend_strtod.c

/**

*

* The author of this software is David M. Gay.

*

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**/

file:

Zend/zend_sort.c

/*

* Derived from LLVM's libc++ implementation of std::sort.

*

*

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* libc++ License

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