

Veritas InfoScale™ Support Matrix for Oracle®

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https://sort.veritas.com/data/support/SORT_Data_Sheet.pdf

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Oracle RAC support

This chapter includes the following topics:

- [About support for Oracle RAC](#)
- [Oracle Clusterware and Oracle database interoperability](#)
- [Oracle RAC on AIX](#)
- [Oracle RAC on Linux](#)
- [Oracle RAC on Solaris SPARC](#)

About support for Oracle RAC

Review the following notes before you proceed:

- The Oracle RAC versions listed in the tables represent the database versions. Hyphens in the tables designate a range of Oracle patch sets.
- All the configurations listed in the following tables are certified and supported by Oracle and Veritas. The configurations that are not listed in these tables are not supported.
- If you need assistance, consult your Veritas Sales team for details.

The following sections describe the InfoScale Enterprise support for Oracle RAC (previously Storage Foundation for Oracle RAC—SFRAC):

- See [“Oracle RAC on AIX”](#) on page 6.
- See [“Oracle RAC on Linux”](#) on page 8.
- See [“Oracle RAC on Solaris SPARC”](#) on page 11.

Oracle Clusterware and Oracle database interoperability

[Table 1-1](#) lists interoperability information for Oracle Clusterware and Oracle database.

Table 1-1 Oracle Clusterware and Oracle database interoperability matrix

Oracle RAC	11gR2 Database	12cR1 Database	12cR2 Database
11gR2 Clusterware	Yes	No	No
12cR1 Grid	Yes	Yes	No
12cR2 Grid	Yes	Yes	Yes

Oracle RAC on AIX

The following table lists the combinations of Oracle RAC versions and AIX versions that are supported with various versions of the Storage Foundation for Oracle RAC component (formerly, SF for Oracle RAC) of InfoScale Enterprise.

Table 1-2 InfoScale Enterprise (SF for Oracle RAC) support matrix for Oracle RAC on AIX

InfoScale Enterprise version	AIX version	Oracle RAC version				
		11gR2	12cR1	12cR2	18c	19c
8.0.2	7.3	x	x	x	x	19.0.0.0.0 [1] [3] [4]
8.0	7.2	x	x	x	x	19.0.0.0.0 [1] [3] [4]
7.4.2	7.2, 7.3	x	x	x	x	19.0.0.0.0 [1] [3] [4]
7.4.1	7.1, 7.2	x	x	x	x	19.0.0.0.0 [1] [3] [4]
7.3.1	7.2	11.2.0.4 [1] [2]	12.1.0.2 [1] [3] [4]	12.2.0.1 [1] [3] [4]	18.0.0.0 [1] [3] [4]	19.0.0.0.0 [1] [3] [4]

Table 1-2 InfoScale Enterprise (SF for Oracle RAC) support matrix for Oracle RAC on AIX (*continued*)

InfoScale Enterprise version	AIX version	Oracle RAC version				
		11gR2	12cR1	12cR2	18c	19c
7.3.1	7.1	11.2.0.4 [1] [2]	12.1.0.2 [1] [3] [4]	12.2.0.1 [1] [2] [4]	x	19.0.0.0.0 [1] [3] [4]
7.3	7.2	11.2.0.4 [1] [2]	12.1.0.2 [1] [3] [4]	12.2.0.1 [1] [3] [4]	18.0.0.0 [1] [3] [4]	x
7.3	7.1	11.2.0.4 [1] [2]	12.1.0.2 [1] [3] [4]	12.2.0.1 [1] [3] [4]	x	x
7.1	7.2	11.2.0.4 [1] [2]	12.1.0.2 [1] [3] [4]	x	x	x
7.1	7.1	11.2.0.4 [1] [2]	12.1.0.2 [1] [3] [4]	x	x	x
7.1	6.1	11.2.0.4 [1] [2]	12.1.0.2 [1] [3] [4]	x	x	x
7.0	7.1	11.2.0.4 [1] [2]	12.1.0.2 [1] [3] [4]	x	x	x
7.0	6.1	11.2.0.4 [1] [2]	12.1.0.2 [1] [3] [4]	x	x	x

- 1 Refer to the following TechNote:
https://www.veritas.com/content/support/en_US/article.100003972
- 2 Requires Oracle patch 17501491 (ODM API version is not correct for ODM_MKDIR call in 11.2.0.4.0).

- 3 If a private network interface—on which the private IP address for Oracle Grid Infrastructure is configured—is brought down on a cluster node that runs Oracle RAC 11.2.0.2 or later, the HAIP resource fails to fail over the private IP address. This causes the Oracle instance to fail on the node on which the private interface is brought down. This issue occurs because AIX does not provide a notification of any change in the status of a network interface. Oracle and IBM are working together to resolve this issue (Oracle bug ID: 10373244).

Workaround: Append the following lines at the end of the `/etc/rc.net` file:

```
# /usr/sbin/ifconfig interfaceName monitor >>$LOGFILE 2>&1
```

where *interfaceName* is the name of the private network interface. Ensure that you add a line for each such interface.

- 4 Requires linking with Veritas Extension for Oracle Disk Manager (ODM) with Oracle database 12.1.0.2 or later. For details, refer to the following TechNote:

https://www.veritas.com/content/support/en_US/article.100014296

Oracle RAC on Linux

The following table lists the combinations of Oracle RAC versions and Oracle Linux (OL), Red Hat Enterprise Linux (RHEL), or SUSE Linux Enterprise Server (SLES) versions that are supported with various versions of the Storage Foundation for Oracle RAC component (formerly, SF for Oracle RAC) of InfoScale Enterprise.

Table 1-3 InfoScale Enterprise (SF for Oracle RAC) support matrix for Oracle RAC on Linux

InfoScale Enterprise version	OL / RHEL / SLES version	Oracle RAC version				
		11g R2	12c R1	12c R2	18c	19c
8.0.2	OL 8 RHEL 8	x	x	x	x	19.0.0.0.0 [2] [3]
8.0	RHEL 8 OL 8	x	x	x	x	19.0.0.0.0 [2] [3]
7.4.2	RHEL 8 OL 8	x	x	x	x	19.0.0.0.0 [2] [3]
7.4.2	RHEL 7	x	x	x	x	19.0.0.0.0 [2] [3]

Table 1-3 InfoScale Enterprise (SF for Oracle RAC) support matrix for Oracle RAC on Linux (*continued*)

InfoScale Enterprise version	OL / RHEL / SLES version	Oracle RAC version				
		11g R2	12c R1	12c R2	18c	19c
7.4.1	RHEL 8 OL 8	x	x	x	x	19.0.0.0.0 [2] [3]
7.4.1	RHEL 7 OL 7	x	x	x	x	19.0.0.0.0 [2] [3]
7.3.1	RHEL 7	11.2.0.4 [1] [3]	12.1.0.2 [2] [3]	12.2.0.1 [2] [3]	18.0.0.0 [2] [3]	19.0.0.0.0 [2] [3]
7.3.1	OL 7	11.2.0.4 [1] [3]	12.1.0.2 [2] [3]	12.2.0.1 [2] [3]	18.0.0.0 [2] [3]	x
7.3.1	RHEL 6	11.2.0.4 [1] [3]	12.1.0.2 [2] [3]	12.2.0.1 [2] [3]	x	x
7.3.1	OL 6	11.2.0.4 [1] [3]	12.1.0.2 [2] [3]	12.2.0.1 [2] [3]	18.0.0.0 [2] [3]	x
7.3.1	SLES12	11.2.0.4 [1] [3]	12.1.0.2 [2] [3]	12.2.0.1 [2] [3]	18.0.0.0 [2] [3]	x
7.3.1	SLES11	11.2.0.4 [1] [3]	12.1.0.2 [2] [3]	x	x	x
7.3	RHEL 7 OL 7	11.2.0.4 [1] [3]	12.1.0.2 [2] [3]	12.2.0.1 [2] [3]	18.0.0.0 [2] [3]	x
7.3	RHEL 6	11.2.0.4 [1] [3]	12.1.0.2 [2] [3]	12.2.0.1 [2] [3]	x	x
7.3	OL 6	11.2.0.4 [1] [3]	12.1.0.2 [2] [3]	12.2.0.1 [2] [3]	18.0.0.0 [2] [3]	x
7.3	SLES12	11.2.0.4 [1] [3]	12.1.0.2 [2] [3]	12.2.0.1 [2] [3]	18.0.0.0 [2] [3]	x
7.3	SLES11	11.2.0.4 [1] [3]	12.1.0.2 [2] [3]	x	x	x
7.1	SLES12	11.2.0.4 [1] [3]	12.1.0.2 [2] [3]	x	x	x

Table 1-3 InfoScale Enterprise (SF for Oracle RAC) support matrix for Oracle RAC on Linux (*continued*)

InfoScale Enterprise version	OL / RHEL / SLES version	Oracle RAC version				
		11g R2	12c R1	12c R2	18c	19c
7.1	SLES11	11.2.0.4 [1] [3]	12.1.0.2 [2] [3]	x	x	x
7.1	RHEL 7 OL 7	11.2.0.4 [1] [3]	12.1.0.2 [2] [3]	x	x	x
7.1	RHEL 6 OL 6	11.2.0.4 [1] [3]	12.1.0.2 [2] [3]	x	x	x
7.0.1	RHEL 7 OL 7	11.2.0.4 [1] [3]	12.1.0.2 [2] [3]	x	x	x
7.0.1	RHEL 6 OL 6	11.2.0.4 [1] [3]	12.1.0.2 [2] [3]	x	x	x
7.0.1	SLES12	11.2.0.4 [1] [3]	12.1.0.2 [2] [3]	x	x	x
7.0.1	SLES11	11.2.0.4 [1] [3]	12.1.0.2 [2] [3]	x	x	x
7.0	RHEL 7 OL 7	11.2.0.4 [1] [3]	12.1.0.2 [2] [3]	x	x	x
7.0	RHEL 6 OL 6	11.2.0.4 [1] [3]	12.1.0.2 [2] [3]	x	x	x
7.0	SLES12	11.2.0.4 [1] [3]	12.1.0.2 [2] [3]	x	x	x
7.0	SLES11	11.2.0.4 [1] [3]	12.1.0.2 [2] [3]	x	x	x

- 1 Requires the Oracle patch titled "Patch 17501491: ODM API version is not correct for ODM_MKDIR CALL in 11.2.0.4.0."
- 2 Requires linking with Veritas Extension for Oracle Disk Manager (ODM) with Oracle database 12.1.0.2 or later.

For details, refer to the Tech Note at:

https://www.veritas.com/support/en_US/article.TECH225500

- 3 Refer to the Tech Note at:

https://www.veritas.com/support/en_US/article.TECH145261

Oracle RAC on Solaris SPARC

The following table lists the combinations of Oracle RAC versions and Solaris SPARC versions that are supported with various versions of the Storage Foundation for Oracle RAC component (formerly, SF for Oracle RAC) of InfoScale Enterprise.

Table 1-4 InfoScale Enterprise (SF for Oracle RAC) support matrix for Oracle RAC on Solaris SPARC

InfoScale Enterprise version	Solaris SPARC version	Oracle RAC version				
		11gR2	12cR1	12cR2	18c	19c
8.0	11	x	x	x	x	19.0.0.0.0 [1] [3]
7.4.2 7.4.1	11	x	x	x	x	19.0.0.0.0 [1] [3]
7.3.1	11	11.2.0.4 [1] [2]	12.1.0.2 [1] [3]	12.2.0.1 [1] [3]	18.0.0.0 [1] [3]	19.0.0.0.0 [1] [3]
7.3	11	11.2.0.4 [1] [2]	12.1.0.2 [1] [3]	12.2.0.1 [1] [3]	18.0.0.0 [1] [3]	x
7.1	11	11.2.0.4 [1] [2]	12.1.0.2 [1] [3]	x	x	x
7.1	10	11.2.0.4 [1] [2]	12.1.0.2 [1] [3]	x	x	x
7.0	11	11.2.0.4 [1] [2]	12.1.0.2 [1] [3]	x	x	x

Table 1-4 InfoScale Enterprise (SF for Oracle RAC) support matrix for Oracle RAC on Solaris SPARC (*continued*)

InfoScale Enterprise version	Solaris SPARC version	Oracle RAC version				
		11gR2	12cR1	12cR2	18c	19c
7.0	10	11.2.0.4 [1] [2]	x	x	x	x

- 1 Refer to the following TechNote:
https://www.veritas.com/content/support/en_US/article.100003972
- 2 Requires Oracle patch 17501491 (ODM API version is not correct for ODM_MKDIR call in 11.2.0.4.0).
 Additionally, regarding OUI issues during the Oracle Grid Infrastructure 11.2.0.4 installation with SF Oracle RAC, refer to the following TechNote:
https://www.veritas.com/content/support/en_US/article.100011363
- 3 Requires linking with Veritas Extension for Oracle Disk Manager (ODM) with Oracle database 12.1.0.2 and later. For details, refer to the following TechNote:
https://www.veritas.com/content/support/en_US/article.100014296

Oracle single-instance support

This chapter includes the following topics:

- [About support for Oracle single instance](#)
- [Oracle Single Instance on AIX](#)
- [Oracle Single Instance on Linux](#)
- [Oracle Single Instance on Solaris SPARC](#)

About support for Oracle single instance

This section lists the InfoScale support for Oracle single instance versions and Storage Foundation for Databases (SFDB) tools. The following matrices also apply to Oracle single instance with Storage Foundation Cluster File System HA (SFCFSHA).

Oracle Single Instance on AIX

The following table lists the combinations of Oracle single instance versions and AIX that are supported with InfoScale and its SFDB tools. Unless otherwise specified, you can use the SFDB tools with the Oracle versions that are listed in this table. You can also run Oracle with ODM, VxFS, and VxVM without invoking the SFDB tools.

Table 2-1 InfoScale support matrix for Oracle single instance on AIX

InfoScale	AIX	Database version (64-bit)			
		11gR2 (11.2)	12c	18c	19c
8.0.2	7.2	x	x	x	✓ [9]
	7.3				
8.0	7.2	x	✓ [6]	x	✓ [9]
	7.1				
7.4.2	7.3	x	x	x	✓ [9]
7.4.2	7.2	x	✓ [6]	x	✓ [9]
	7.1				
7.4.1	7.2	✓ [2] [7]	✓ [4] [6]	✓	✓ [9] [10] [11]
7.4.1	7.1	✓ [1] [2]	✓ [3] [4] [6]	✓	✓ [9] [10] [11]
7.4	7.2	✓ [2] [7]	✓ [4] [6]	x	x
7.4	7.1	✓ [1] [2]	✓ [3] [4] [6]	x	x
7.3.1	7.2	✓ [2] [7]	✓ [4] [6]	✓ [8]	✓ [9] [12] [13]
7.3.1	7.1	✓ [1] [2]	✓ [3] [4] [6]	✓ [8]	✓ [9] [12] [13]
7.3	7.2	✓ [2] [7]	✓ [4] [6]	x	x
7.3	7.1	✓ [1] [2]	✓ [3] [4] [6]	x	x
7.2	7.2	✓ [2] [7]	✓ [4]	x	x
7.2	7.1	✓ [1] [2]	✓ [3] [4]	x	x
7.1	7.2	✓ [2] [7]	✓ [4]	x	x
7.1	7.1	✓ [1] [2]	✓ [3] [4]	x	x
7.1	6.1	✓ [1] [2]	✓ [3] [4]	x	x
7.0	7.1	✓ [1] [2]	✓ [3] [4] [5]	x	x
7.0	6.1	✓ [1] [2]	✓ [3] [4] [5]	x	x

- 1 Oracle 11g R2 versions 11.2.0.4, 11.2.0.3, 11.2.0.2, and 11.2.0.1 are supported.
- 2 Requires Oracle patch 17501491 (ODM API version is not correct for ODM_MKDIR call in 11.2.0.4.0) when SF ODM is used with Oracle 11.2.0.4.

- 3 Oracle 12c version 12.1.0.1 is supported.
- 4 Oracle 12c version 12.1.0.2 is supported.
- 5 Requires linking with Veritas Extension for Oracle Disk Manager (ODM) with Oracle database 12.1.0.2. For details, refer to the following TechNote:
https://www.veritas.com/support/en_US/article.TECH225500
- 6 Oracle 12c version 12.2.0.1 is supported.
- 7 Oracle 11gR2 version 11.2.04 is supported.
- 8 Requires the following patch for VCSEA:
<https://sort.veritas.com/patch/detail/14557>
- 9 Requires Oracle patch 30610822 when SF ODM is used with Oracle 19c.
- 10 Requires the following patch for VCSEA:
<https://sort.veritas.com/patch/detail/15598>
- 11 Requires the following VRTSdbed patches for SFAE:
https://www.veritas.com/content/support/en_US/downloads/update.UPD337939
- 12 Requires the following patch for VCSEA:
<https://sort.veritas.com/patch/detail/15599>
- 13 Requires the following VRTSdbed patches for SFAE:
https://www.veritas.com/content/support/en_US/downloads/update.UPD608754

Oracle Single Instance on Linux

The following table lists the combinations of Oracle single instance versions and Linux that are supported with InfoScale and its SFDB tools. Unless otherwise specified, you can use SFDB tools with the Oracle versions that are listed in this table. You can also run Oracle with ODM, VxFS, and VxVM without invoking the SFDB tools.

Table 2-2 InfoScale support matrix for Oracle single instance on Linux (AMD Opteron 64-bit / Intel Xeon EM64T)

InfoScale	Linux	Database version (64-bit)				
		11g R2 (11.2)	12c	18c	19c	21c
8.0.2	RHEL 9	x	x	x	✓ [7]	x

Table 2-2 InfoScale support matrix for Oracle single instance on Linux (AMD Opteron 64-bit / Intel Xeon EM64T) (*continued*)

InfoScale	Linux	Database version (64-bit)				
		11g R2 (11.2)	12c	18c	19c	21c
8.0.2	SLES 15 OEL 8 RHEL 8	x	x	x	✓ [7]	✓ [7][20]
8.0	RHEL 9	x	x	x	✓ [7]	x
8.0	SLES 15 OEL 7	x	✓ [9]	x	✓ [11]	✓ [20][22]
8.0	SLES 12 RHEL 7	x	✓ [9]	x	✓ [11]	x
8.0	RHEL 8 OEL 8	x	✓ [9]	x	✓ [16]	✓ [20] [22]
7.4.3	SLES 15 SLES 12 RHEL 7 OEL 7	x	✓ [9]	x	✓ [11]	x
7.4.3	RHEL 8 OEL 8	x	x	x	✓ [16]	x
7.4.2	RHEL 8 OEL 8	x	x	x	✓ [16]	✓ [20] [21]
7.4.2	OEL 7 SLES 15	x	✓ [9]	x	✓ [11]	✓ [19] [20]
7.4.2	RHEL 7 SLES 12	x	✓ [9]	x	✓ [11]	x
7.4.1	RHEL 8	x	x	x	✓ [16] [17] [18]	x
7.4.1	RHEL 7 OEL 7	✓ [1] [4] [8]	✓ [6] [9]	✓	✓ [11] [12] [13]	x

Table 2-2 InfoScale support matrix for Oracle single instance on Linux (AMD Opteron 64-bit / Intel Xeon EM64T) *(continued)*

InfoScale	Linux	Database version (64-bit)				
		11g R2 (11.2)	12c	18c	19c	21c
7.4.1	RHEL 6 OEL 6	✓ [1] [3] [4]	✓ [5] [6] [9]	✓	x	x
7.4.1	SLES 15	x	✓ [9]	x	✓ [11] [12] [13]	x
7.4.1	SLES 12	✓ [1] [4] [8]	✓ [6] [9]	✓	✓ [11] [12] [13]	x
7.4.1	SLES 11	✓ [1] [3] [4]	✓ [5] [6]	x	x	x
7.4	RHEL 7 OEL 7	✓ [1] [4] [8]	✓ [6] [9]	x	x	x
7.4	RHEL 6 OEL 6	✓ [1] [3] [4]	✓ [5] [6] [9]	x	x	x
7.4	SLES 12	✓ [1] [4] [8]	✓ [6] [9]	x	x	x
7.4	SLES 11	✓ [1] [3] [4]	✓ [5] [6]	x	x	x
7.3.1	RHEL 7 OEL 7	✓ [1] [4] [8]	✓ [6] [9]	✓ [10]	✓ [11] [14] [15]	x
7.3.1	RHEL 6 OEL 6	✓ [1] [3] [4]	✓ [5] [6] [9]	✓ [10]	x	x
7.3.1	SLES 12	✓ [1] [4] [8]	✓ [6] [9]	✓ [10]	✓ [11] [14] [15]	x
7.3.1	SLES 11	✓ [1] [3] [4]	✓ [5]	x	x	x
7.3	RHEL 7 OEL 7	✓ [1] [4] [8]	✓ [6] [9]	x	x	x
7.3	RHEL 6 OEL 6	✓ [1] [3] [4]	✓ [5] [6] [9]	x	x	x
7.3	SLES 12	✓ [1] [4] [8]	✓ [6] [9]	x	x	x
7.3	SLES 11	✓ [1] [3] [4]	✓ [5] [6]	x	x	x
7.2	RHEL 7 OEL 7	✓ [1] [4] [8]	✓ [6]	x	x	x

Table 2-2 InfoScale support matrix for Oracle single instance on Linux (AMD Opteron 64-bit / Intel Xeon EM64T) (*continued*)

InfoScale	Linux	Database version (64-bit)				
		11g R2 (11.2)	12c	18c	19c	21c
7.2	RHEL 6 OEL 6	✓ [1] [3] [4]	✓ [5] [6]	x	x	x
7.2	SLES 12	✓ [4] [8]	✓ [6]	x	x	x
7.2	SLES 11	✓ [1] [3] [4]	✓ [5] [6]	x	x	x
7.1	RHEL 7 OEL 7	✓ [1] [4] [8]	✓ [6]	x	x	x
7.1	RHEL 6 OEL 6	✓ [1] [3] [4]	✓ [5] [6]	x	x	x
7.1	SLES 12	✓ [1] [4] [8]	✓ [6]	x	x	x
7.1	SLES 11	✓ [1] [3] [4]	✓ [5] [6]	x	x	x
7.0	RHEL 7 OEL 7	✓ [1] [4] [8]	✓ [6]	x	x	x
7.0	RHEL 6 OEL 6	✓ [1] [3] [4]	✓ [5] [6] [7]	x	x	x
7.0	SLES 11	✓ [1] [3] [4]	✓ [5] [6] [7]	x	x	x

- 1** This configuration supports Veritas InfoScale wizard configuration for Oracle.
- 2** Oracle 21c and later versions are supported.
- 3** Oracle 11g R2 versions 11.2.0.3 and 11.2.0.4 are supported.
- 4** Requires Oracle patch titled "Patch 17501491: ODM API version is not correct for ODM_MKDIR call in 11.2.0.4" when SF ODM is used with Oracle 11.2.0.4.
- 5** Oracle 12c version 12.1.0.1 is supported.
- 6** Oracle 12c version 12.1.0.2 is supported.
- 7** Requires linking with Veritas Extension for Oracle Disk Manager (ODM) with Oracle Database 12.1.0.2 or later. For details, refer to the Tech Note at:
https://www.veritas.com/support/en_US/article.TECH225500
- 8** Oracle 11g R2 version 11.2.0.4 is supported.

- 9** Oracle 12c version 12.2.0.1 is supported.
- 10** Requires the appropriate patch for VCSEA among:
RHEL 7: <https://sort.veritas.com/patch/detail/14552>
RHEL 6: <https://sort.veritas.com/patch/detail/14553>
SLES 11: <https://sort.veritas.com/patch/detail/14555>
- 11** Requires Oracle patch 30404521 when SF ODM is used with Oracle 19c.
- 12** Requires the appropriate patch for VCSEA among:
RHEL 7: <https://sort.veritas.com/patch/detail/15502>
SLES 15: <https://sort.veritas.com/patch/detail/15504>
SLES 12: <https://sort.veritas.com/patch/detail/15503>
- 13** Requires the appropriate `VRTSdbed` patches for SFAE among:
RHEL 7: <https://sort.veritas.com/patch/detail/15510>
SLES 15: <https://sort.veritas.com/patch/detail/15513>
SLES 12: <https://sort.veritas.com/patch/detail/15512>
- 14** Requires the appropriate patch for VCSEA among:
RHEL 7: <https://sort.veritas.com/patch/detail/15486>
SLES 12: <https://sort.veritas.com/patch/detail/15488>
- 15** Requires the appropriate `VRTSdbed` patches for SFAE among:
RHEL 7: <https://sort.veritas.com/patch/detail/15547>
SLES 12: <https://sort.veritas.com/patch/detail/15500>
- 16** Requires Oracle patches 30869156 and 30894985 that include fixes for several Oracle issues including one for SF ODM.
- 17** Requires the following patch for VCSEA:
https://www.veritas.com/content/support/en_US/downloads/update.UPD195834
- 18** Requires the following `VRTSdbed` patch for SFAE:
https://www.veritas.com/content/support/en_US/downloads/update.UPD300727
- 19** Supported with InfoScale 7.4.2 Update4 via the following patches:
SLES 15:
https://www.veritas.com/content/support/en_US/downloads/update.UPD118268.html
OEL 7:
https://www.veritas.com/content/support/en_US/downloads/update.UPD702598.html

- 20** See Oracle recommendations before you upgrade to 21c.
- 21** Supported with InfoScale 7.4.2 Update4 only via the following patch:
https://www.veritas.com/content/support/en_US/downloads/update.UPD764410.html
- 22** Download the following patches:
- RHEL 8/ OEL 8 :
https://www.veritas.com/content/support/en_US/downloads/update.UPD338907
- SLES 15 :
https://www.veritas.com/content/support/en_US/downloads/update.UPD972678
- OEL 7 :
https://www.veritas.com/content/support/en_US/downloads/update.UPD826907

Oracle Single Instance on Solaris SPARC

The following table lists the combinations of Oracle single instance versions and Solaris SPARC that are supported with InfoScale and its SFDB tools. Unless otherwise specified, you can use the SFDB tools with the Oracle versions that are listed in this table. You can also run Oracle with ODM, VxFS, and VxVM without invoking the SFDB tools.

Table 2-3 InfoScale support matrix for Oracle single instance on Solaris SPARC

InfoScale	Solaris SPARC	Database version (64-bit)			
		11gR2 (11.2)	12c	18c	19c
8.0.2	11.4	x	x	x	✓ [8]
8.0	11.4	x	✓ [6]	x	✓ [8]
7.4.2	11.4	x	✓ [6]	x	✓ [8]
7.4.1	11	✓ [1] [3]	✓ [4] [6]	✓	✓ [8] [9] [10]
7.4	11	✓ [1] [3]	✓ [4] [6]	x	x
7.3.1	11	✓ [1] [3]	✓ [4] [6]	✓ [7]	✓ [8] [11] [12]
7.3	11	✓ [1] [3]	✓ [4] [6]	x	x
7.2	11	✓ [1] [3]	✓ [4]	x	x
7.1	11	✓ [1] [3]	✓ [4] [5]	x	x
7.1	10	✓ [2] [3]	✓ [4] [5]	x	x

Table 2-3 InfoScale support matrix for Oracle single instance on Solaris SPARC (*continued*)

InfoScale	Solaris SPARC	Database version (64-bit)			
		11gR2 (11.2)	12c	18c	19c
7.0	11	✓ [1] [3]	✓ [4] [5]	x	x
7.0	10	✓ [2] [3]	✓ [4] [5]	x	x

- 1** Oracle 11.2.0.3 and 11.2.0.4 are supported.
- 2** Oracle 11g R2 11.2.0.4, 11.2.0.3, 11.2.0.2, and 11.2.0.1 are supported.
- 3** Requires Oracle patch 17501491 (ODM API version is not correct for ODM_MKDIR call in 11.2.0.4.0), when SF ODM is used with Oracle 11.2.0.4.
- 4** Oracle 12c version 12.1.0.1 and 12.1.0.2 are supported.
- 5** Requires linking with Veritas Extension for Oracle Disk Manager (ODM) with Oracle database 12.1.0.2. For details, refer to the following TechNote:
https://www.veritas.com/support/en_US/article.TECH225500
- 6** Oracle 12c version 12.2.0.1 is supported.
- 7** Requires the following patch for VCSEA:
<https://sort.veritas.com/patch/detail/14556>
- 8** Requires Oracle patch 30610822 when SF ODM is used with Oracle 19c.
- 9** Requires the following patch for VCSEA:
<https://sort.veritas.com/patch/detail/15568>
- 10** Requires the following VRTSdbed patch for SFAE:
<https://sort.veritas.com/patch/detail/15564>
- 11** Requires the following patch for VCSEA:
<https://sort.veritas.com/patch/detail/15571>
- 12** Requires the following VRTSdbed patch for SFAE:
<https://sort.veritas.com/patch/detail/15566>
- 13** Oracle 12c version 12.1.0.2 is supported.