

# ArcSDE Oracle Database Requirements

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## Supported Database Versions

Standard/Standard One/Enterprise Editions:

Oracle 9i R2 (32 bit) 9.2.0.7  
Oracle 9i R2 (64 bit) 9.2.0.7  
Oracle 10g R2 (32 bit) 10.2.0.3  
Oracle 10g R2 (64 bit) 10.2.0.3  
Oracle 11g R1 (32 bit) 11.1.0.6  
Oracle 11g R1 (64 bit) 11.1.0.6  
Oracle 11g R1 (64 bit) 11.1.0.7  
Oracle 11g R2 (64 bit) 11.2.0.1

Express Edition:

Oracle 10g R1 (32 bit) 10.2.0.1 - Windows Only (For development and testing only, not for production deployment)

[Click here for additional Oracle Patch Support information](#)

## Supported Operating Systems

Database	Supported Operating System(s)	Comments
Oracle 9i R2 (32 bit) 9.2.0.7	Red Hat Enterprise Linux AS/ES 4.0 Update 2 (32-bit) Windows Server 2003 SP2 (32-bit) Standard, Enterprise & Datacenter	<a href="#">Click here for additional Oracle Patch Support information</a>
Oracle 9i R2 (64 bit) 9.2.0.7	HP HP-UX 11i (B.11.11) PA-RISC IBM AIX 5.3.0.0 Sun Solaris 10 (SPARC) Sun Solaris 9 (SPARC)	<a href="#">Click here for additional Oracle Patch Support information</a>
Oracle 10g R2 (32 bit) 10.2.0.3	Red Hat Enterprise Linux AS/ES 4.0 Update 2 (32-bit) SUSE Linux Enterprise Server 10 (32-bit) Windows Server 2003 SP2 (32-bit) Standard, Enterprise & Datacenter Windows Server 2008 SP1 (32-bit) Standard, Enterprise & Datacenter	<a href="#">Click here for additional Oracle Patch Support information</a>

	HP HP-UX 11i (B.11.11) PA-RISC	
	HP HP-UX 11i v2 (B.11.23) Itanium	
	IBM AIX 5.3.0.0	
	IBM AIX 6.1.0.0 **	
	Red Hat Enterprise Linux AS/ES 4.0	
	Update 2 (64-bit)*	
	Red Hat Enterprise Linux AS/ES 5.3	<a href="#">Click here for additional Oracle Patch Support information</a>
	(64-bit)**	* Enterprise ArcSDE technology is
Oracle 10g R2	Sun Solaris 9 (SPARC)	now available as a 64-bit runtime
(64 bit) 10.2.0.3	Sun Solaris 10 (SPARC)	environment.
	SUSE Linux Enterprise Server 10 (64-bit)*	** Support begins at ArcGIS 9.3.1
	Windows Server 2003 SP2 (64-bit - AMD64) Standard, Enterprise & Datacenter	
	Windows Server 2003 SP2 (64-bit - EM64T) Standard, Enterprise & Datacenter*	
	Red Hat Enterprise Linux AS/ES 4.0	
Oracle 11g R1	Update 2 (32-bit)	<a href="#">Click here for additional Oracle Patch Support information</a>
(32 bit) 11.1.0.6	Windows Server 2003 SP2 (32-bit) Standard, Enterprise & Datacenter	
	HP HP-UX 11i v2 (B.11.23) Itanium **	
	HP HP-UX 11i v3 (B.11.31) Itanium ** ( <a href="#">See mandatory HP patch</a> )	
	IBM AIX 5.3.0.0	
	IBM AIX 6.1.0.0 **	<a href="#">Click here for additional Oracle Patch Support information</a>
	Red Hat Enterprise Linux AS/ES 4.0	* Enterprise ArcSDE technology is
	Update 2 (64-bit)*	now available as a 64-bit runtime
Oracle 11g R1	Red Hat Enterprise Linux AS/ES 5	environment.
(64 bit) 11.1.0.6	(64-bit)*	** Support begins at ArcGIS 9.3.1
	Sun Solaris 9 (SPARC)	
	Sun Solaris 10 (SPARC)	
	SUSE Linux Enterprise Server 10 (64-bit)*	
	Windows Server 2003 SP2 (64-bit - EM64T) Standard, Enterprise & Datacenter*	
	Windows Server 2008 SP1 (64-bit) Standard, Enterprise & Datacenter	<a href="#">Click here for additional Oracle Patch Support information</a>
Oracle 11g R1		
(64 bit) 11.1.0.7		
	HP HP-UX 11i v3 (B.11.31) Itanium**** ( <a href="#">See mandatory HP patch</a> )	<a href="#">Click here for additional Oracle Patch Support information</a>
Oracle 11g R2		** Support begins at ArcGIS 9.3.1
(64 bit) 11.2.0.1		

IBM AIX 5.3.0.0****	*** Support begins at ArcGIS 9.3.1
IBM AIX 6.1.0.0****	SP1
Red Hat Enterprise Linux AS/ES Release 4 Update 7 (64-bit)	**** Support begins at ArcGIS 9.3.1
Red Hat Enterprise Linux AS/ES Release 5.3 (64-bit) **	SP2
Solaris 10 (SPARC)	
SUSE Linux Enterprise Server 10 (64-bit)	
Windows Server 2008 R2 (64-bit) Standard, Enterprise & Datacenter	
***	

All ArcGIS Server customers that are current on maintenance will receive the ArcGIS 9.3.1 Update package. Current ArcGIS Server (ArcSDE) users that have already requested and installed the 9.3 64 bit version may use this Update package. For those customers that have not requested the 9.3 64 bit DVD, please contact ESRI Customer Service for the full version ArcGIS Server 9.3.1 Enterprise, which includes ArcSDE. ArcGIS 9.3.1 full version install does not require ArcGIS 9.3, 9.3 SP1 or 9.3.1 Updates to be applied. International customers, please contact your local distributor.

## Database Requirements

### Oracle 9i R2 (9.2.0.x) Requirements

If your database is Oracle 9i R2 (9.2.0.x) you must use the ArcSDE 9.3 for Oracle 9i R2 software.

### Oracle 10g R2 (10.2.0.x) Requirements

If your database is Oracle 10g R2 (10.2.0.x), you must use the ArcSDE 9.3 for Oracle 10gR2 release.

#### NOTE:

Oracle 10.2.0.3 ST\_GEOMETRY users - need to apply Oracle Patch that fixes Oracle bug 6756089

Oracle 10.2.0.3 ST\_GEOMETRY users - please see KB Article 34460 on ESRI support site

### Oracle 11g R1 (11.1.0.x) Requirements

If your database is Oracle 11g (11.1.0.x), you must use the ArcSDE 9.3 for Oracle 11g release.

#### NOTE:

Oracle 11.1.0.6 ST\_GEOMETRY users - need to apply Oracle Patch that fixes Oracle bug 6756089

Windows Server 2008 64bit is supported on Oracle 11.1.0.7 64-bit as the base version.

## **Oracle 11g R2 (11.2.0.x) Requirements**

If your database is Oracle 11g (11.2.0.x), you must use the ArcSDE 9.3.1 for Oracle 11g release.

### **NOTE:**

Oracle 11.2.0.1 users - may need to apply Oracle Patch 8795792. See KB Article 38470 for more information.

AIX Oracle 11gR2 users - Oracle 11.2.0.2 is not supported on AIX. Please use Oracle 11.2.0.1 with ArcSDE 9.3.1 SP2.

**Required Configuration:** When ArcSDE (32-bit) 9.3 is installed on a Windows or Linux 32-bit operating system (OS), you must use an Oracle 32-bit client to access an Oracle 64-bit database. This must be done for both application server and direct connections. Instructions for setting up ArcSDE (32-bit) 9.3 using the Oracle 32-bit client to connect correctly to the Oracle 64-bit database are as follows:

- Install the Oracle 32-bit client software (see Oracle Support for download, install and setup instructions).
- Create a service name using the Oracle 32-bit Net Manager you just installed to connect to your Oracle 64bit database.
- Install and setup ArcSDE 9.3 making sure you are using the correct version of the Oracle 32-bit install. Use the Oracle 32-bit service name you defined above for the connection to the Oracle 64-bit database.

### **Oracle Database Patch Support**

Oracle 9.2.0.7, 10.2.0.3, 11.1.0.6 and 11.2.0.1 or higher Oracle Patch. This includes Oracle patch set levels and Oracle Interim (One-Off) Patch as per Oracle Corporation's Patch Set Overview and Interim Patch documentation.

See Oracle Support for all Oracle patch set (and Interim Patch) documentation and install instructions. Esri recommends making a full back up of your Oracle database prior to applying any Oracle patch sets or interim patch. If functionality that was working prior to applying the Oracle patch set or interim patch stops working, return to the previous version of Oracle. Contact Oracle support as needed.

### **Operating System Limitations**

#### **HP HP-UX 11i (B.11.11) PA-RISC**

- Window System: CDE or HP VUE
- Mandatory HP-UX Operating System patches:  
PHSS\_27700  
PHCO\_31923

PHCO\_33711  
PHKL\_33258

### **HP HP-UX 11i v3 (B.11.31) Itanium**

Mandatory Open Network Computing (ONC) plus version **ONCplus B.11.31.08**.

For more information, please visit the following HP link:

<https://h20392.www2.hp.com/portal/swdepot/displayProductInfo.do?productNumber=ONCplus>

### **Linux**

ArcSDE is only supported on

- Linux x86, on CPUs that adhere to the x86 architecture (32-bit), with supported Linux releases.
- Linux x86\_64, on CPUs that adhere to the x86\_64 architecture (64-bit), with supported Linux releases.

### **Windows 7**

Windows 7 64-bit is supported with Oracle11gR2 64-bit at 9.3.1 SP1 for basic testing and application development use only.

It is not recommended for deployment in a production environment.