

# Release Notes

Welcome to the 4.2 release of the Delphix Engine database virtualization system.

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## 4.2 Upgrade Matrix

Upgrades to Delphix Engine 4.2 are supported from 4.0.0.0 and above.

	4.2.0.0	4.2.0.1	4.2.0.2	4.2.0.3	4.2.1.0	4.2.1.1	4.2.2.0	4.2.2.1	4.2.3.0	4.2.3.1	4.2.4.0	4.2.5.0
3.2 and prior												
4.0 - 4.1												
4.2.0.0												
4.2.0.1												
4.2.0.2												
4.2.0.3												
4.2.1.0												
4.2.1.1												
4.2.2.0												
4.2.2.1												
4.2.3.0												
4.2.3.1												
4.2.4.0												

**Key:**

Color	Supported?	VDB Downtime Required? <sup>1</sup>
	No	N/A
	Yes	Required
	Yes	Not Required
	Yes	Optional <sup>2</sup>

1. VDB Downtime is caused by a reboot of the Delphix Engine when DelphixOS is modified by an upgrade.

2. VDB Downtime may be optional for an upgrade when a release contains DelphixOS changes that are also optional. In such a scenario, the DelphixOS changes may be deferred (see documentation on [Deferred OS Upgrade](#)).

## Tested Browser Configuration Matrix

OS Supported	Browsers Supported	Adobe Flash/Flex	Minimum Memory
Windows XP Professional SP3	Internet Explorer 8.x*	10.x	4GB
Windows XP Professional SP3	Firefox, Chrome	10.x	4GB
Windows Vista SP2	Internet Explorer 8.x*, 9.x	10.x	4GB
Windows 7	Internet Explorer 8.x*, 9.x, 10.x, 11.x	10.x	4GB
Windows 7	Firefox, Chrome	10.x	4GB
Windows 7 x64	Internet Explorer 8.x*, 9.x, 10.x, 11.x	10.x	4GB
Windows 7 x64	Firefox, Chrome	10.x	4GB
Mac OS X	Firefox, Chrome	9.0.3 (6531.9)	4GB

\* IE8.x support is deprecated, and will be removed in a future Delphix Engine version.

## Supported Oracle DBMS Versions and Operating Systems for Source and Target Environments

### Source and Target OS and DBMS Compatibility

The source and target must be running the same DBMS/Operating System combination (for example, Oracle 10.2.0.4 on RHEL 5.2) in order to successfully provision a VDB to the target. If the DBMS versions are compatible, the OS version on a target host can be different from the OS version on the source host.

## Supported DBMS Versions

- Oracle 9.2.0.8
- Oracle 10.2
- Oracle 11.1
- Oracle 11.2
- Oracle 12.1

### Oracle 9.2.0.8

The Delphix Engine has limited support for Oracle 9.2.0.8 and cannot link to a database that has a compatibility setting lower than 9.2.0.8.

### Oracle 10.2.0.4

The Delphix Engine does not support Oracle 10.2.0.4 databases using Automatic Storage Management (ASM) that do not have the patch set for Oracle Bug 7207932. This bug is fixed in patch set 10.2.0.4.2 onward.

## Supported Operating Systems

Operating System	Version	Processor Family
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Solaris	9, 10U5 - 10U11, 11U1, 11U2	SPARC
Solaris	10U5 - 10U11, 11U1, 11U2	x86_64
Red Hat Enterprise Linux	4.7, 4.8, 4.9 5.3 - 5.11 6.0 - 6.6	x86_64
Oracle Enterprise Linux	5.3 - 5.11 6.0 - 6.6	x86_64
Novell SUSE Linux Enterprise Server	10, 10SP1, 10SP2, 10SP3 11, 11SP1, 11SP2, 11SP3	x86_64
AIX	5.3, 6.1, 7.1	Power
HP-UX	11i v2 (11.23) 11i v3 (11.31)	IA64

Delphix supports all 64-bit OS environments for source and target, though 64-bit Linux environments also require that a 32-bit version of glibc is installed



#### Required HP-UX patch for Target Servers

PHNE\_37851 - resolves a known bug in HP-UX NFS client prior to HP-UX 11.31.

## Supported SQL Server Versions, Operating Systems, and Backup Software

### Supported Versions of Windows OS

- Windows Server 2003 SP2, 2003 R2
- Windows Server 2008
- Windows Server 2008 R2
- Windows Server 2012, 2012 R2



Delphix supports only 64-bit versions of Windows on target hosts and validated-sync-target hosts.

Target hosts and validated-sync-target hosts running Windows Server 2003 SP2 or 2003 R2 must install the hotfix documented in [KB 943043](#).



There are further restrictions on supported Windows and SQL Server versions for SQL Server Failover Cluster target environments. See [Adding a SQL Server Failover Cluster Target Environment](#) for details.

### Supported Versions of SQL Server

SQL Server Version	Delphix Version
SQL Server 2005 (9.0)	Delphix 3.x
SQL Server 2008 (10.0)	Delphix 3.x
SQL Server 2008 R2 (10.5)	Delphix 3.x
SQL Server 2012 (11.0)	Delphix 3.1.2 and beyond
SQL Server 2014 (12.0)	Delphix 4.1.3 and beyond

## Supported SQL Server Backup Software

The Delphix Engine interacts with source database backups in the following ways:

- When linking a new source database, the Delphix Engine can use an existing full backup to load the source database data
- When performing a sync of an existing dSource, the Delphix Engine can use an existing full backup
- After the dSource is created, the Delphix Engine picks up any new backups that are taken on the source database and applies them to the copy of the source database on the Delphix Engine. This includes:
  - Transaction log backups for databases in Full or Bulk-Logged recovery models
  - Differential and full backups for databases in Simple recovery model

Delphix currently supports the following backup software for source database backups:

- SQL Server native backups
- Quest/NetVault LiteSpeed
  - If the source database is backed up with LiteSpeed, the source and the staging environments must have LiteSpeed installed on them. The version of LiteSpeed on the staging environment must be the same or higher than that on the source. Delphix currently supports LiteSpeed v5.0.0.0 and onwards.
- Red Gate SQL Backup Pro
  - If the source database is backed up with SQL Backup Pro, the source and the staging environments must have SQL Backup Pro installed on them. The version of SQL Backup Pro on the staging environment must be the same as that on the source. Delphix currently supports SQL Backup Pro v7.3 and onwards.



Delphix does not support encrypted backups.

## Supported PostgreSQL Versions and Operating Systems



### Source and Target OS and DBMS Compatibility

The source and target environments must be running the same DBMS/Operating System combination (for example, PostgreSQL 9.2 on RHEL 6.3) in order to successfully perform linking and provisioning.

## Supported DBMS Versions

DBMS	Version	Processor Family
PostgreSQL	9.2, 9.3, 9.4	x86_64
EnterpriseDB Postgres Plus Advanced Server	9.2, 9.3, 9.4	x86_64

## Supported Operating Systems

Operating System	Version	Processor Family
Red Hat Enterprise Linux 5	RHEL 5.3, 5.4, 5.5, 5.6, 5.7, 5.8, 5.9, 5.10, 5.11	x86_64
Red Hat Enterprise Linux 6	RHEL 6.0, 6.1, 6.2, 6.3, 6.4, 6.5, 6.6	x86_64

## Supported SAP ASE Versions and Operating Systems

DBMS Versions	Operating System Versions	Processor Family
SAP Adaptive Server Enterprise (ASE) 15.0.3, 15.5, 15.7, 16.0	Red Hat Enterprise Linux 6.2, 6.3, 6.4	x86_64
SAP Adaptive Server Enterprise (ASE) 12.5	Red Hat Enterprise Linux 5.x	x86_64

SAP Adaptive Server Enterprise (ASE) 12.5, 15.03, 15.5, 15.7, 16.0	Solaris 10	x86_64
SAP Adaptive Server Enterprise (ASE) 12.5, 15.03, 15.5, 15.7, 16.0	Solaris 10	SPARC
SAP Adaptive Server Enterprise (ASE) 15.7, 16.0	AIX 7.1	POWER



#### **Source and Target OS and DBMS Compatibility**

The source and target must be running the same DBMS version. For example, if the source is running SAP ASE 15.7, then so must the target. Operating System platform must be the same between the source and target, although the operating system version may differ. For example, if the source is running Red Hat Enterprise Linux 6.2 x86\_64 then the target could be running Red Hat Enterprise Linux 6.4 x86\_64, but not Solaris 10 SPARC.

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