



Audit Leverage™ Software

versions 6.6 and 6.7

Technical Requirements

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There are **two versions** of Audit Leverage (both with the same price):

- Version 6.6 stores the back-end database in **Microsoft® Access**.
- Version 6.7 stores the back-end database in **Microsoft SQL Server®**.

(See page 3 of this document for the system requirements for our SQL Server version.)

Other than the back-end database platform behind the scenes, the two versions are nearly identical. (Each contains a copy of the same MS Access “front-end” file, which is the user interface for both versions.) You can choose the version that is most appropriate for your organization. To learn about the differences between our Access and SQL Server versions, please visit our FAQ page at www.auditleverageservices.com/home/SQLServerversion/FAQ/tabid/53/Default.aspx and click on the first question: “What is the difference between Audit Leverage versions 6.6 and 6.7?”

Audit Leverage version 6.6 Requirements (MS Access version)

Hardware. To use Audit Leverage as a networked application, the main copy of the back-end database normally resides on a shared server, which is normally NOT dedicated to Audit Leverage.

Each client machine (whether desktop or laptop) and server being used for Audit Leverage should have at least a 300 MHz Pentium® processor, 128 MB of RAM (256 MB is recommended), and 300 MB of available hard drive space.

As your department gradually adds more data over time, Audit Leverage’s initial database size of 6 MB will increase (especially in proportion to the number and size of workpaper file attachments that you embed into the database itself), which will increase the hard drive space requirements shown above.

Audit Leverage can be run on a stand-alone machine, although usually only for evaluation or demonstration purposes (or if the audit department consists of only one person).

Operating System. Audit Leverage 6.6 can run on any 32-bit or 64-bit Microsoft operating system, such as Windows® 95, 98, ME, 2000, NT, or XP®, Vista, or Windows 7.

Windows security permissions. 1) The person installing Audit Leverage must have Windows Administrator permissions for that machine. 2) Subsequently, each user must have “full control” read/write permissions (not just read/execute permissions) for the Audit Leverage folder. The default location for this folder is *c:\Program Files.*, although you may choose to change this to a less tightly secured location, such as *My Documents*, in order to avoid any security issues.

Application Software. Some version of Microsoft Access (see list below) must be installed on each computer where Audit Leverage will run. MS Access does not need to be installed on the network server



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(although it can be useful for troubleshooting), since the server's main function in AL is as a file-sharing repository. (However, Windows should be installed on the server. If you are using Novell, then please contact us to discuss compatibility.)

Versions of MS Access. You should first determine which exact version of MS Access you currently have installed (including the latest patch from Microsoft, abbreviated "SP" or "SR" for "service pack" or "service release"). Open MS Access, click on the Help menu, and choose "About Microsoft Access." (If you wish to install multiple versions of Access concurrently on the same machine, please let us know beforehand, so that we can alert you to a compatibility problem that Microsoft has identified.)

The possible versions of MS Access are:

<u>Name</u>	<u>Microsoft's version number</u>	<u>Service packs</u>
Access 97	8.0	SR-1 and SR-2 (both required for AL)
Access 2000	9.0	SP-3 (recommended)
Access 2002 (part of Office XP)	10.0	SP-3 (recommended)
Access 2003	11.0	SP-2 (recommended)
Access 2007	12.0	any
Access 2010	14.0	any

When installing Access, choose Custom Installation. Then ensure that the "Advanced Wizards" installation option and the "Replication" (sometimes called "Briefcase Replication") installation option are selected.

Files. The three most important files in Audit Leverage are:

- *back-end* database file(s) – This can be an MS Access database or a SQL Server database. It contains only the raw data and is almost never opened directly by the user. The initial size of this file is 6 MB, but it will grow larger as you add data – especially as you add embedded workpaper attachments over time. The main copy of the back-end database is located on your network. Additionally, Audit Leverage can create a copy (or "replica") on each user's hard drive to enable him or her to work off-line, then synchronize (or "replicate") with the network copy of the database at a later time.
- *front-end* file (35 MB) – This file contains the user interface, program, and reports, but no actual data. It is the same Microsoft Access *.mdb* file regardless of whether the back-end database is in Access or SQL Server.
- *AL Admin Console* (only for our SQL Server version: AL 6.7) – This .NET application handles user login, user account management (with the option to use Windows authentication with existing Windows accounts and Active Directory groups), security permissions, synchronization, database backup, and database restore.

In addition, some third-party add-in files are installed with Audit Leverage. They include Microsoft Replication Manager, the TSI Synchronizer, and certain third-party ActiveX controls used by our Visual Scheduler. These files, which total about 3 MB in size, are bundled within the main installation file and are provided at no additional charge.

Audit Leverage version 6.7 Requirements (SQL Server version)



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Hardware. Same as for Audit Leverage 6.6 (see page 1).

Operating System. *For client machines:* Microsoft Windows 2000 or higher, including both 32-bit and 64-bit versions. (Exception: Windows Vista and Windows 7 support SQL Server 2005 and 2008 but may not support any version of SQL Server 2000 on the client machine, according to the Microsoft article [here](#).)

For the server: The chart below shows which operating systems are allowed for each version of SQL Server 2000, 2005, and 2008.

	Version of SQL Server			
	SQL Server 2000 Desktop Edition ("MSDE") (free)	SQL Server 2000 Standard Edition	SQL Server 2005 or 2008 Express Edition (free)	SQL Server 2005 or 2008 Standard Edition
Operating system on the server:				
- Windows 2000 Professional	Yes	No	Yes	Yes
- Windows XP Professional	Yes	No	Yes	Yes
- Windows XP Home	Yes	No	No	No
- Windows 2000 Server	Yes	Yes	Yes	Yes
- Windows 2000 Advanced Server	Yes	Yes	Yes	Yes
- Windows 2000 Datacenter Server	Yes	Yes	Yes	Yes
- Windows NTR Server version 4.0 Service Pack 5 (SP5) or later	Yes	Yes	Yes	Yes
- Windows NT Server 4.0 Enterprise Editi	Yes	Yes	Yes	Yes
- Windows 2003 Server	Yes	Yes	Yes	Yes
- Windows 2003 Advanced Server	Yes	Yes	Yes	Yes
- Windows Server 2008	No	No	Yes	Yes
- Windows Vista	No	No	Yes	Yes
- Windows 7	No	No	Yes	Yes

Application Software.

Audit Leverage 6.7 can act as client, server, or both. Each machine will need:

- 1) Microsoft Access (see previous section for version details)
- 2) Microsoft .NET Framework 2.0 or higher – free download from Microsoft’s web site [here](#):

(Note: “.NET **Compact** Framework” is **not** sufficient for Audit Leverage.)

- The Audit Leverage installer will automatically detect and notify you if a sufficiently up-to-date version of the framework is already installed or needs to be downloaded.

- 3) Microsoft SQL Server 2000, 2005 or 2008
 - If SQL Server 2000 is used, it must include Service Pack 4, which is a free download from Microsoft’s web site: www.microsoft.com/sql/downloads/2000/sp4.asp

Exceptions:

- 1) MS Access does not need to be installed on the server – only on the client machines.
- 2) If a client machine will not use replication and will only connect to a remote server, then SQL Server does not need to be installed on that client.



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Versions of SQL Server 2000

The following versions of SQL Server 2000 will work with Audit Leverage 6.7:

1. Desktop Edition, also called MSDE (which stands for Microsoft Database Engine)
 - distributed for free by Microsoft and downloadable from our web site at:
www.auditleverageservices.com/home/Downloads/MSDESQLServerDesktopEngine/tabid/59/Default.aspx
 - has the following two limitations (created deliberately by Microsoft in order to motivate companies to buy a paid version of SQL Server 2000 rather than just using this free version).
 - o Maximum database size in MSDE: 2 GB (same as in MS Access)
 - o Performance slows down when there are more than 5 concurrent connections to the network database. (Note that a single user's machine can have several concurrent connections by having several Audit Leverage screens open at once.)
2. Standard Edition
 - a. *Full license* ("unrestricted use")
 - b. *Runtime license*

The full license and the runtime license are for exactly the same software, but with several important differences:

- Runtime licenses cost about half as much as the unrestricted-use licenses. For details on Microsoft's pricing, please see:
www.auditleverageservices.com/home/SQLServerversion/VersionsofSQLServer/tabid/103/Default.aspx
- With a runtime license, you promise Microsoft that you will not use it for anything except for one specific application (Audit Leverage in this case). Also, a runtime license does not allow you to create new tables within the Audit Leverage database itself.
- The runtime licenses don't include certain advanced features of SQL Server, such as Enterprise Manager. However, those features aren't used by Audit Leverage.
- Microsoft and its resellers do not sell these runtime licenses to the public directly. Instead, they sell them only to software companies who apply and have been accepted into the so-called Product Integration Program (which we have), so that we can include them in our products and/or resell them to our clients. We buy these runtime licenses through so-called "Microsoft License Packs" and sell them to our clients.

For a given application (Audit Leverage in this case), Microsoft's licensing policy does not allow you to the *free* version of SQL Server 2000 for some machines (such as user laptops) while using a *paid* version of SQL Server 2000 for other machines (such as the network server) that will be communicating with those MSDE machines. However, this restriction does not exist for SQL Server 2005 or 2008 (discussed on the next page).

3. Enterprise Edition
 - Other than price, the only differences between the Standard and Enterprise editions of SQL Server are some advanced features which are not used by Audit Leverage.

Versions of SQL Server 2005 and 2008

The following versions of SQL Server 2005 and 2008 are fully compatible with Audit Leverage 6.7:

1. Express Edition

- is distributed for free by Microsoft and downloadable from our web site.
- has the following two limitations (which were created by Microsoft in order to motivate companies to buy a paid version of SQL Server 2005 or 2008 rather than just using the free version).
 - a) Maximum database size
 - in SQL Server Express Edition 2005: 4 GB.
 - in SQL Server Express Edition 2008: 8 GB.
 - In SQL Server *Standard* Edition (2005 or 2008): unlimited.
 - b) “Peer-to-peer” synchronization cannot be done directly between two laptops that are both using SQL Server Express Edition.
 - In other words, in order for two laptops to synchronize their data directly with each other – via a USB cable, infrared, LAN, or private WiFi network (i.e., without the involvement of the server’s copy of the database) – at least one of the two laptops must have SQL Server *Standard* Edition installed.
 - This limitation can be easily overcome by having each of the remote laptops synchronize independently with the server copy of the database.
 - Because of the ease of the above workaround, this limitation is relevant only when two auditors are traveling together to a location where the network database is not accessible via a WAN or a VPN.
 - c) Note also that this version of SQL Server, unlike the free version of SQL Server 2000, does NOT slow down when there are more than 5 concurrent connections to the network database.

2. Standard Edition

- a. *Full license* ("unrestricted use")
- b. *Runtime license*

For a discussion of the differences between the full and runtime licenses, please see the “*Versions of SQL Server 2000*” section above, including this link:

www.auditleverageservices.com/home/SQLServerversion/VersionsofSQLServer/tabid/103/Default.aspx

Microsoft allows us to distribute the SQL 2005 or 2008 runtime server license to our clients for free.

3. Enterprise Edition

- For SQL Server 2005 and 2008 (as with SQL Server 2000), the only difference – other than price – between the Standard and Enterprise editions is the presence of some advanced features which are not used by Audit Leverage.