
AUDIQUEEN 2 :: SYSTEM REQUIREMENTS

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AUDIQUEEN DATABASE SERVER

Data storage is implemented using SQL Server 2008 R2. The Express edition of this software is included in the Audiqueen installation package. During the Audiqueen installation a new instance of SQL Server 2008 R2 is created. Its installation and configuration happens automatically.

Alternatively, the customer may create the Audiqueen database in an existing instance of SQL Server Instance, provided that the FILESTREAM feature is enabled for Transact-SQL. SQL scripts for creating a new database are included in the installation package. In any case, it is the responsibility of the customer to make sure that their network and firewalls are configured in a way that allows workstations to access the database server.

A rough estimate of the disk space requirements is 1 GB per 1,000 patient visits, although this is highly dependent on the types of measurements that are executed during a visit. An audiometry will only take a couple of kB while an endoscopic movie could take up to several hundreds of MB at once.

The Audiqueen database server is supported in virtual machine environments.

Hardware requirements:

- **Processor:** Pentium III-compatible processor or faster. Minimum: 1.0 GHz, Recommended: 2.0 GHz or faster
- **Operating system:** Windows XP SP3, Windows Server 2003 SP2, Windows Server 2003 R2 SP2, Windows Vista SP2, Windows Server 2008 SP2, Windows 7, Windows Server 2008 R2
- **Memory:** Minimum: 256 MB, Recommended: 1 GB

Software Prerequisites (included in the installation bootstrapper) for the Audiqueen Database Server are:

- .NET Framework 4.0
- Windows Installer 4.5

Detailed system requirements for SQL Server 2008 R2 are listed here:

<http://msdn.microsoft.com/en-us/library/ms143506.aspx>

OTOCONSULT LICENSING SERVER

The Audiqueen licensing mechanism uses a 'concurrent sessions' principle, where each 'active' Audiqueen Workstation occupies a session. A session has a time-out of 20 minutes, which means that a Workstation keeps occupying a session for 20 minutes after the Audiqueen application has been closed on the Workstation. The maximum number of allowed simultaneous sessions is limited by the purchased license and enforced by means of a central Windows Service. Technically this has the following consequences:

1. A Windows service is installed on a single machine (the License Server).
2. The license Service opens a TCP port. The port number can be chosen by the customer. The customer's network needs to be configured in a way that all Audiqueen workstations are able to establish TCP/IP connections to this machine and on this port.
3. An Audiqueen license is activated on the License Server
 - a. This license contains information about the maximum number of allowed simultaneous sessions and also determines which connections to instrument hardware are allowed.
 - b. This license needs to be activated. During activation the license is locked to the machine hardware and will only be functional on this specific machine.
 - i. Activation occurs over the internet when the License Server is able to access the internet (http and https protocols, TCP ports 80 and 443).
 - ii. When internet access is not available or blocked (proxy servers with authentication, firewalls, etc.) activation occurs by generating a code on the License Server and to deliver this code to support@otoconsult.com. Based on this code Otoconsult will create and return a license certificate file to the customer. Loading this certificate file onto the machine where the code was initially generated, activates the license.
4. If the License Server is a virtual machine (VMWare, Virtual PC, etc.) the license needs to be renewed on a yearly basis. The renewal procedure is performed according to the standard license activation procedure (as described above).
5. If the License Server is a physical, non-virtualized machine, a perpetual license, if applicable, will be issued.
6. If the customer needs to transfer the license service to another machine, first an intervention by Otoconsult is required to deactivate the license on the current machine. This intervention may be executed remotely by means of Remote Assistance Tools (e.g. TeamViewer, Remote Desktop, Crossloop, etc.). Only when the license has been deactivated on the original License Server will Otoconsult allow the license to be reactivated on the new machine.

AUDIQUEEN WORKSTATION CLIENTS

- An unlimited amount of Audiqueen Clients can be installed at the customer's own discretion.
- Audiqueen workstations need to be connected to the local area network and need to be able to connect to both the Audiqueen Database Server and the Otoconsult License server.
- Workstation System Requirements:
 - Operating Systems: Windows 7; Windows Vista; Windows XP
 - Processor: 1 GHz Pentium processor or equivalent (Minimum); 2 GHz Pentium processor or equivalent (Recommended)
 - RAM: 512 MB (Minimum); 1 GB (Recommended)
 - Hard Disk: Up to 1 GB of available space may be required
 - Display: 1024 x 768 (Minimum)
- Software Prerequisites (included in the installation bootstrapper) for the Audiqueen Workstation Client are:
 - .NET Framework 4.0
 - Windows Installer 3.1
- Optional Software (for an optimal user experience).
 - Microsoft Word 2002 or higher (to print reports to Word)
 - Windows Media Player 7 or higher (to enable Video and Audio previews in Audiqueen)
 - Adobe/Acrobat Reader 5 or higher (to enable PDF previews in Audiqueen)
- Audiqueen Workstation Client software is delivered to the customer as an MSI package.
- Installation can be completed without user interaction, provided that the necessary prerequisites are installed on the target machine. Configuration parameters like the database host name can be supplied as MSI arguments during an unattended install.