WINNER BIZZ – SYSTEM REQUIREMENTS

Workstation requirements

In this document, you will learn about the system requirements needed to run Winner Bizz properly. Running a high-end application such as Winner Bizz or a similar multi-user system covering different tasks that run simultaneously, requires having a suitable client and a matching and stable system environment.

The requirements below apply to Winner Bizz only and do not take into account the applications that are operated in addition to your company within the same system environment.

Server requirements

<table>
<thead>
<tr>
<th>Recommendation</th>
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<tbody>
<tr>
<td>Operating system (OS)</td>
</tr>
<tr>
<td>Processor (CPU)</td>
</tr>
<tr>
<td>Random-Access Memory (RAM)</td>
</tr>
<tr>
<td>Storage device</td>
</tr>
<tr>
<td>Disk space</td>
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<tr>
<td>RAID system</td>
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<tr>
<td>Optical disk drive</td>
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<tr>
<td>Network connectivity</td>
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</tbody>
</table>

Note: Linux server and NAS system are not supported!
Client requirement (workstation – desktop/laptop)

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Minimum</th>
<th>Recommendation</th>
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</thead>
<tbody>
<tr>
<td>Operating system (OS)</td>
<td>Microsoft Windows 7 Pro / Ultimate / Enterprise</td>
<td>Microsoft Windows 10 Pro / Enterprise</td>
</tr>
<tr>
<td>Processor (CPU)</td>
<td>Intel Xeon / Intel i series</td>
<td></td>
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<tr>
<td>Random-Access Memory (RAM)</td>
<td>8 GB</td>
<td>16 GB</td>
</tr>
<tr>
<td>Storage device</td>
<td>SSD-Drive for the operating system and Winner Bizz</td>
<td></td>
</tr>
<tr>
<td>Disk space</td>
<td>Depending on the installation type: Client connected to server: approx. 500MB for temp files (User data will be stored in the SQL database on the server!) Laptop/nomad modes: approx. 5GB for Winner Bizz &amp; SQL server plus the individual size of the local SQL database.</td>
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<tr>
<td>Network connectivity</td>
<td>Wired connection, 1Gbit/s or faster</td>
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Note: No support for Apple Mac and Linux (all distributions)

Graphic cards (laptops/desktops)

Like most CAD systems Winner Design works best with good graphics hardware. The right kind of graphics card can save you a lot of trouble and will certainly produce the best results. Good 3D graphics cards will make the perspective drawings in Winner Design much faster and dramatically improve the visual quality of the drawings.

Compusoft has tested many graphics cards and recommends the following:

- nVidia GeForce...
- AMD/ATI Radeon HD xxxx

nVidia and ATI make graphics chips that are used by many graphics card manufacturers (Asus, AOpen, Creative Labs, Elsa, Sapphire, LeadTek etc.). Graphics cards based on the ATI or the nVidia graphics chip can come under many different names.

The important thing is that the card should be based on the recommended chip from nVidia or ATI.

For usage with Winner Bizz, the following graphics cards are not recommended:

- Matrox cards (all types)
- SIS cards (ordinary SIS cards and cards integrated on mother board)
- XGI Volari
- Intel® Graphics
- Outdated graphic cards using old AGP or PCI interface
We urge you to follow this advice to save yourself a lot of trouble. Even if a hardware salesperson tells you that some other graphics card is "just as good", demand to get a GeForce or Radeon based card.

Photorealistic renderings
The time needed to generate a photorealistic rendering depends on the client’s CPU. The more performance that the client’s workstation CPU can provide, the faster the render job can be done! The hardware has no impact on the quality of the rendering but only on the speed. If creating photorealistic renderings is an important feature for you, we recommend using either an Intel i7 series or Intel Xeon-E5 series CPU.

Solid State Drives (SSD)
If all components perfectly match, using a solid-state drive in both client and server gives you an excellent performance and user experience. We would like to point out urgently to the fact, that depending on the SSD you are using, you have to take in to consideration that a hardware failure can occur much sooner as compared to standard server hard disk drives. Therefore, you should have a reliable security system like a RAID system optimized for SSD and a daily disaster backup.

RAID Controller
If you plan to use hard disk drives as storage devices, we recommend building them in a RAID system. Depending on the RAID level you chose, it will gain performance, a higher system stability or even both. Because of its poor performance, using a software RAID is not suited for applications like Winner Bizz. We highly recommend building a RAID on the basis of a hardware RAID controller with at least 1024MB cache.

In case you want to use solid-state drives (SSD), we recommend checking with your system administrator if a RAID system is meaningful. Using a RAID controller not optimized for SSDs can cause a loss of performance and due to many read/write sequences; can reduce the lifetime of the SSD. Using a RAID controller optimized for SSD can increase the system stability in case of a hardware failure of a disk.

Network
For the use of Winner Bizz in a network environment, we recommend that all sockets, cables and active networking components provide a sufficient bandwidth (1Gbit/s) for the data transfer from the clients. In the best case, the connection to the server uses a bandwidth of 10Gbit/s depending on the quantity of users accessing the server. Connecting clients and servers via a Wi-Fi connection is not recommended since wireless connections tend to disconnect which can cause damage on your SQL database. For more information check the document “What is the correct use of Wi-Fi”.
VPN connections
We do not recommend using a software VPN connection to connect your shops. According to experience, a software VPN reduces the performance of your network and has a negative impact on the servers providing the VPN services. Compusoft highly recommends using professional hardware firewall devices with a corresponding bandwidth (i.e. WatchGuard, Cisco, Netgear) to connect the network of the respective shop. You should discuss this with your system administrator, regarding which product suits you best and what he is familiar with.

Instead of using third party dynamic DNS services, each shop should have its own fixed IP address provided by the internet service provider (ISP). A down time of such third party services has a negative impact on your daily business. For the time being, if the dynamic DNS service is unavailable, the Winner Bizz servers cannot communicate with each other!

Internet connection bandwidth needed between the shops
For Winner Bizz you can use a common ADSL/VDSL internet connection. We recommend however that you check if you can add a business option to the contract in order to get a guaranteed bandwidth and a faster reaction from the internet service provider (ISP) when it comes to a connection loss.

Backups
Please make sure that your system administrator is aware that he needs to include the Winner Bizz files and the Winner Bizz SQL databases in the daily backup routine. Creating a copy of the Winner Bizz '*.mdf' file is not a backup! Please make yourself familiar with the correct process of either creating a manual backup or an automated, scheduled backup of the Winner Bizz database by either using the online help system or the Compusoft help desk.

**Note:** By default when installing Winner Bizz without changes by any user, Winner Bizz will create a dump file of the database and store it in the location ‘..\Compusoft\Winner Bizz\Backups\’. The latest three backups will be kept. Please make sure those backups are copied or stored on a device which is part of your daily backup.

Microsoft SQL Server licenses
Winner Bizz requires an instance of the Microsoft SQL Server. The needed license of the Microsoft SQL-Server is provided as a runtime license from Compusoft. You will find the information on the quantity and fees of the Microsoft SQL server runtime license on your Winner Bizz contract. Winner Bizz can only be installed in connection with the Compusoft/Microsoft SQL Server runtime license. You do not need to purchase a Microsoft SQL Server license yourself!

Microsoft Office
The ability to create standard letters and templates within the Winner Bizz customer follow-up works
only in conjunction with Microsoft Word. The “starter edition” of Microsoft Word does not support this feature of Winner Bizz.

Setting up and maintaining system environment
We highly recommend that you have a regional IT partner, who can provide you with a complete concept in order to have a suitable system environment including a reliable backup solution for all your important data, for example, a trustful antivirus protection. It is also important that this system is continuously maintained by your IT partner. Compusoft delivers only the Winner Bizz software and the Microsoft SQL Server software and licenses.