# System Requirements

### A.1.1. ADVISED SYSTEM CONFIGURATION

**For Mono-User Mode:**

- Microsoft Windows 7 Home Premium, Professional, Ultimate, Enterprise.
- Processor: i3 class, 2 GHz.
- RAM: 4 GB.
- 500 MB of free disk space required for the installation.
- Graphic Card: 1280 x 1024.

**For Multi-User Mode (Concurrent Engineering):**

There are different requirements for the Server and for the Client.

**For the Server**:
- Microsoft Windows Server 2008 R2 (64 bits) or newer.
- Microsoft SQL Server 2008 R2 (PROFESSIONAL version strongly recommended; it is also possible to run on EXPRESS EDITION version, but with some limitations).
- Processor: i7 class, 3 GHz.
- RAM: 12 GB (+ 1 GB by client).
- 200 GB of free disk space required for the installation.
- LAN (Network Card): 1 GB.

**For the Client**:

- Microsoft Windows 7 (64 bits).
- Processor: i3 class, 2 GHz.
- RAM: 4 GB.
- 500 MB of free disk space required for the installation.
- Network Card: 1 GB.
- Graphic Card: 1280 x 1024.

**For 3D Panel:**

- Microsoft Windows 7 Home Premium, Professional, Ultimate, Enterprise.
- Processor: i5 class, 2 GHz.
- RAM: 4 GB.
- 1 GB of free disk space required for the installation, together with the 3D Parts library provided by default.
- Graphic Card: must have full support of OpenGl, as well as 1 GB of dedicated memory.

### A.1.2. WINDOWS COMPATIBILITY

*SEE Electrical Expert V4R2* supports:
- ✓ Microsoft Windows 10 Pro (32 and 64 bits), as well as Microsoft Windows 10 Enterprise (32 and 64 bits).
- ✓ Microsoft Windows 8 and Microsoft Windows 8.1 (except for the RT version for mobile devices).
- ✓ Microsoft Windows 7.
- ✓ Microsoft Windows XP (with exception of the "SEE Electrical 3D Panel" module and "Cabinet Thermal Calculation" module).

### A.1.3. VIRTUAL SOLUTIONS COMPATIBILITY

*SEE Project Manager* and *SEE Electrical Expert* are compatible with Citrix, Microsoft App-V and VMWare virtual solutions.

**Citrix**

> **Advised System Configuration (Citrix Servers hosting clients):**
>
> *Minimal Configuration:*
> - Windows Server 2008 (64 bits).
> - Processor: 2 GHz.
> - RAM: 4 GB + 2 GB by client.
> - Required disk space: 2 GB.
> - Graphic Card: 1024 x 768 – 256 colours, 128 MB RAM.
> - Network Adapters: 100 Mbps.
>
> *Recommended Configuration*:
> - Windows Server 2008 R2 (64 bits).
> - Processor: Dual Core, 3.6 GHz.
> - RAM: 8 GB + 4 GB by client (48 GB for 10 users).
> - Required disk space: 30 GB.
> - Graphic Card: NVDIA, 512 MB RAM.
> - Network Adapters: 1 Gbps, or more.

> **Registry Key:**
> For each installation, the Citrix client profiles must be reset. The modifications in the HKLM registry key are only taken into account when you log on with a blank profile to update it. Keep in mind that the Citrix profiles that are not reset cannot be updated.
>
> A check whether the Citrix profiles contain printer mapping, or whether the network disk is accessible is performed. Indeed, when connecting to the Citrix server, or when using an application, the printer on the company network will be searched. In such case, your monitor will be "frozen" for long time. (This problem is not a software issue.)
>
> **Disk Space**:
> Avoid sharing dedicated disk space to other users. A mapping on "C:\" has to be created for each user.

**Graphic Card**:
According to the Citrix Server Settings, some pixel transfers or display orders will be provided to the client computer.
It is recommended to use pixel transfer, rather than display orders, because display orders are not correctly used by all graphic cards.

**Computer Architecture**:
It is better to use the 64 bits' version of Citrix server.
The standby mode of Citrix client requires the Citrix server to repeat some re-connections. Therefore, it is recommended to set the standby mode with a value such as 1 hour, instead of 10 minutes.

## Microsoft App-V or VMWare

No compatibility problems with those 2 virtual solutions.