

## TECHNICAL REQUIREMENTS

### The graphic engine requirements

**3cad evolution** uses a 3D graphic engine designed for speed and performance.

To achieve these targets, the engine is heavily dependent on the characteristics of the new generation graphic cards.

There is an enormous difference in terms of performance between a good quality graphic card and a second-rate one, this can dramatically affect speed, design quality, overall quality and printing speed (which depends on the graphic card) and graphic effects.

It is quite simple to replace the graphic card of a PC with a more suitable one, with minimum expense, but unfortunately this is not possible with laptops.

## HARDWARE AND SOFTWARE REQUIREMENTS

**3cad evolution** has been designed to work on PCs with Microsoft Windows.

The Windows versions supported are: Windows 8.1., Windows 10.

**3cad evolution** requires the installation of a SQL Server database.

For this reason, the MSDE and SQL Express free versions (MSDE and SQL Express) and the 2012, 2014, 2016, 2017, 2019 professional versions of the **Microsoft SQL Server (MSSQL)** are supported.

Since the access to the database is linked to the specifications of the MSSQL, especially for the intense use of the **TRANSACT-SQL**, it is not possible to use a database which is not Microsoft such as MySQL or Oracle, because they are not compatible to the **TRANSACT-SQL** dialect.

An existing session of MSSQL cannot be used unless it has been installed as case sensitive, in this case it is necessary to install a new MSSQL session. However, it is recommendable to have a MSSQL session for **3cad evolution** usage and not mixing it with other company EPR databases. It is possible to link **3cad evolution** company database to other company databases, whether they operate in the MSSQL environment or not.

**Minimum configuration:**

- Operating system: Windows 8.1 (64bit);
- Processor: Intel® Core™ i5;
- RAM Memory: 8 GB;
- Supported video cards: Intel, Nvidia, AMD 1 GB memory, compatible with shader 3.0 (nVidia quadro not supported);
- Hard disk: standard.

**Recommended configuration:**

- Operating system: Windows 10 (64bit);
- Processor: Intel® Core™ i7;
- RAM Memory: 12 GB;
- Supported video cards: Intel, Nvidia, AMD 4 GB memory (nVidia quadro not supported);
- Hard disk: SSD 256/512.

**Optimal configuration:**

- Operating system: Windows 10 (64bit);
- Processor: Intel® Core™ i7 / i9;
- RAM Memory: 16 GB;
- Supported video cards: Intel, Nvidia, AMD 6/8 GB memory (nVidia quadro not supported);
- Hard disk: SSD 512 or Raid.

## NETWORK REQUIREMENTS

If you run **3cad evolution** in a network, all network cables, routers, switches and other devices must have enough bandwidth (1 Gb/sec is recommended; the minimum is 100 Mb/sec).

It is for this reason that we strongly advise against using **3cad evolution** with wireless networks. DAU S.P.A. con Socio unico cannot be held responsible for the slower performance of **3cad evolution** due to insufficient bandwidth.

**3cad evolution** is not supported in a peer-to-peer network. The program requires a network environment with a specific server.

Network attached storage (NAS) is not supported and is not comparable to a dedicated Windows server. NAS is only specialised for file sharing and does not have the same functionality as a standard server environment. Linux servers, regardless of their supplier (Samba, Red Hat, Arch, etc.), are also not supported.

## REQUIREMENTS TO INSTALL ON MAC

The virtualization programs to use 3cad on Mac are VMware Fusion and Parallels or you can install 3cad in Windows in dual boot on the Mac with Boot Camp, in this case, however, only one operating system can be run at a time and you can switch from Windows to Mac by restarting the computer.

## OTHER REQUIREMENTS

The following requirements are necessary for the installation of the program:

- administrator rights;
- internet connection;
- exclusion of the program folder 3cad from the antivirus;
- Internet Explorer 11 installed;
- Windows updated.

To date 3cad evolution is compatible with most antivirus software except Kaspersky.