

**Recommended hardware for Socrate 4 Windows (S4w)****Hardware requirements****Desktop computer**

S4w (Socrate 4 Windows) can be run on a PC with the following **minimum** requirements:

- ✓ CPU power: PII 350 or PIV or more (single or dual core or X cores)
- ✓ **1 GB** or more under Windows 2000 Pro
- ✓ 1 GB or more under Windows XP
- ✓ 2 GB or more under Windows Vista
- ✓ 2 GB or more under Windows 7
  
- ✓ Colour VDO Card → with a minimum resolution of 800\*600 and 256 colours
- ✓ 15" or 17" LCD monitor.
- ✓ Minimum resolution: **800\*600**, no matter what type of monitor
  
- ✓ Hard disk drive 300 GB or more
  
- ✓ Windows NT 4: very stable but out of date
- ✓ Windows 2000: very stable in SP4 but out of date
- ✓ Windows XP, preferably in PRO version SP x
- ✓ Windows XP Home version is possible *but there is no domain management under Windows 2000 & 2003 & 2008 Server.*
- ✓ Windows Vista, but we give preference to Seven
- ✓ **Windows Seven** (Pro if you are running with Windows server and active directory with domain)
  
- ✓ A 'good quality' mouse – wireless and optical would be the best choice
  
- ✓ A laser printer is economical – e.g. Brother – but inkjet printers are also possible. However, take care that inkjet printers are set to a minimum definition of 720 dpi for barcode printing. Also, inkjet printer ink may deteriorate over time due to the negative impact of UV radiation.
  
- ✓ A barcode reader is highly useful and to be configured for code EAN 39 extended – we can supply this material!

*Do take note that S4w can also be run on a Pentium I PC with 32 MB memory and a HDD of 500 MB, but it would be slow, unstable and unfit for intensive use or full-text indexed searching.*

### **Socrate on a notebook**

All modern notebooks have the necessary power to "run" Socrate 4 Windows.

#### **However, do mind the following aspects:**

- Windows **XP** Home or **PRO** or Windows 7 should be supplied and installed on the notebook
- The Windows version should be available in your working language
- Windows **XP PRO** or Windows 7 are recommended if the notebook is to be networked with Windows 2000 or 2003 or 2008 Server.
- A main storage capacity of **2 GB** is recommended
- A hard disk drive of **> 300 GB** is recommended
- A DVD – CD **writer** is useful
- A **15" or 17"** LCD screen
- 2 years guarantee or more
- 3 to 4 **USB** ports, preferably horizontally aligned and not on top of one another.
- A parallel printer port may be useful but rare
- An external **VGA** or **DVI** connector is useful to connect an external monitor.
- A **PS2** connector is useful to connect a normal keyboard.
- The barcode reader must be connected to the **USB port**. We can supply this type of **barcode readers**. (See beneath)
- An Ethernet **network card** 10/100 MB/s or 1 GB/s
- A wireless network card is often present but not really necessary
- The notebook **backup** should take place either by regularly connecting the notebook to its server, or by using **USB** memory keys of at least 2 GB.
- We recommend and sell the following brands, in order of preference: **Asus / Medion / Acer**

### **Backup system on the notebook, stand-alone computer or small network**

USB memory keys are useful and very easy to exchange data between library deposit centres deprived of internet connection.

For the sake of the back-up, create a set of 7 or 14 USB memory keys (2 GB) to organize a backup 'round' over 7 or 14 days. **Do not keep** the keys in the same place as the notebook in order to avoid it all being stolen.

**Server:**

Up to 4 networked PCs, a powerful, state-of-the-art and fast PC under Windows XP (SPx) or Windows Seven will do the job as a non-dedicated pseudo-server.

As from 5 networked PCs, a **dedicated server** is required – such as Windows 2000 (SP4) Server – 2003 - 2008 Server or Linux Server with Samba network (Redhat)

– *Take note that a Terminal Server solution is not possible under Linux!*

**A new solution fast, simple and cheap comes in the form of small compact servers called: NAS or SAN. We propose and configure Synology servers, these servers are particularly fast and highly secure.**

**Internal description of the perfect server:**

A server should meet the following needs:

- ✓ Be simple, stable and reliable.
- ✓ A well ventilated, **big case** with lateral doors for easy access
- ✓ A regulated power supply of at least **650 W** with heat ventilation
- ✓ A protection cover on the start and reset buttons
- ✓ A simple and easy to configure motherboard.
- ✓ A state of the art Intel or AMD CPU – single or dual or quad core
- ✓ Minimum memory 2 GB or better **4 GB**
- ✓ Two fast SATA or SAS or SCSI hard disks (320 MB/s or more)
- ✓ Motherboard with Sata controller or better SAS controller
- ✓ Please note that SATA hard disks will not perform very well especially when used intensively
- ✓ Hard disks configured for OS mirroring or hardware Raid
- ✓ Hard disk partitioned on C: for the system and S: or T : for data to be shared on the network.
- ✓ It is a good idea to have a low-cost IDE hard disk to take Xcopy's at night (fast reload).
- ✓ A 100 MB/s or 1GB/s network card of the same brand as the PCs in the network.
- ✓ A DVD reader
- ✓ A floppy disk reader
- ✓ A DAT or Rev reader or NAS back-up system
- ✓ Some 20 DAT tapes to organize backup rounds over 14 days or NAS
- ✓ USB ports
- ✓ A sound card is not useful but not disturbing either.
- ✓ 15" monitor + keyboard + mouse

**Network:**

In order to keep up the normal speed...

**a UTP category 5 network of 100 MB/s or 1 GB/s with switch is required.**

*Please take note that antenna-based IT networks are not yet fast enough and are not at all recommended except in Terminal Server mode on Windows 2000 or 2003 Server, configured by your hardware vendor.*

**General remark**

Purchasing hardware from an other supplier than our company is **no problem whatsoever** and in no way raises the price settings for our library management software. We do ask that the vendor respects our recommendations as to the technical specifications and fully **installs and configures the hardware, software and operating systems he has been asked to supply or integrate.**