

## System Requirements – Vienna Test System Server System

Version: January 2020 from Version 8.13.10

### Note on installing the Vienna Test System

The Vienna Test System must be installed by a Windows user with local administrator rights.

### Recommendations for installing the Vienna Test System

Before you install the VTS, your operating system should be fully updated – i.e. all available Windows updates should be installed. To see whether any updates are available for your system, go to <http://update.microsoft.com>

Many PC manufacturers (e.g. Dell, HP, IBM, Lenovo) supply their own drivers for graphics cards. Please check that the latest drivers for your graphics card are installed on your computer.

For smooth operation of the Vienna Test System, it is necessary to have reading and writing rights in various folders on the computer. The Windows user must therefore have adequate rights for the following folders:

Directory	Example	Client	Server
%ProgramData%\Schuhfried	C:\ProgramData\Schuhfried	x	x
%LOCALAPPDATA%\Schuhfried	C:\Users\Max\AppData\Local\Schuhfried	x	
%TEMP%	C:\Users\Max\AppData\Local\Temp	x	x
%ProgramFiles%\SCHUHFRIED GmbH*	C:\Program Files\SCHUHFRIED GmbH	x	x
%ProgramFiles(x86)%\SCHUHFRIED GmbH**	C:\Program Files (x86)\SCHUHFRIED GmbH		

Some antivirus and security programs can obstruct or disrupt the performance of the Vienna Test System. It is therefore recommended that the above-mentioned paths are defined as exceptions in whatever tool is used.

### Recommendations on maintenance of the Vienna Test System

The operating system should be well maintained: the manufacturer's latest updates and patches should always be installed (in the case of major Windows updates, it is worth asking SCHUHFRIED first whether the updates have yet been tested). In the event of faults arising from a failure to install updates, consult the manufacturer of the operating system.

Please ensure that no programs are installed on the computer which could interfere with the presentation of tests (e.g. through high CPU usage or unwanted on-screen messages).

### Monitor recommendation

We recommend monitors with a screen diagonal of 14"-27" and a resolution of at least 1280 x 1024 . The resolution should not exceed 1920 x 1200. For CRT monitors the refresh rate must be at least 75 Hz.

### Note on licensing

To work with the Vienna Test System 8, a valid VTS license on a software or hardware dongle is required. The dongle can either be installed as software or provided physically in the form of a USB stick.

\* When VTS is installed on a 32-bit version of the Windows operating system.

\*\* When VTS is installed on a 64-bit version of the Windows operating system.

## Server solution (VTS 8)\*

The hardware features of the server depend on the planned number of parallel test administrations. The following configuration represents a minimum that enables 80 or more tests to be administered in parallel.

The Vienna Test System of course also allows for 100 or more tests to be administered in parallel. We are happy to advise you about possible system configurations.

### Server

Hardware	At least	Recommended
Processor <sup>1</sup>	Quad core	
RAM	8 GB	
Hard disk space	10 GB	SSD
Network	100 Mb/s	

Software	
Operating system	Windows Server 2008 R2 SP1 <sup>5</sup> Windows Server 2012 SP1 Windows Server 2012 R2 Windows Server 2016
Database	SQL Server 2008 or higher <sup>2</sup>

### Client

Hardware	At least	Recommended
Processor <sup>1</sup>	Dual core	Quad core
RAM	2 GB	4 GB
Graphics card	512 MB	
Hard disk space	1 GB	SSD
Keyboard	✓	
Mouse	✓	

Software	
Operating system	Windows 7 SP1 Windows 8.1 Windows 10 <sup>4</sup>
Miscellaneous	Microsoft Word (from Version 2007) <sup>3</sup>

## Special system components

To ensure that times are measured exactly, the following time-critical tests and test sets need to be presented using a USB response panel:

Tests: COG, DAUF, DT, DTKI, INHIB, MDT, MMG-C, NBN, NBV, RT, SIGNAL, STROOP, SWITCH, VIGIL, WAF, WAFA, WAFF, WAFG, WAFR, WAFS, WAFV, WAFW, ZBA

Test sets: CFADHD, CFD, CFSD, COGBAT, COGBATSV, DRIVE-AT, DRIVE-PL, DRIVEPLS, DRIVESC, DRIVESTA, FEV, SAAIR, SAMINE, SARAIL, SAROAD, SFMOTOR, SFTEAM, SLEEP, TAKIDS, TATEENS, TATEENS2

WAF, WAFA, WAFG/S3 and CFD can also be presented using a touchscreen (Windows 8 or higher). The use of a capacitive touchscreen is required.

The PP-R test needs a USB port for the Peripheral Perception device. In addition, the screen size should not be larger than 22".

The WG test requires a screen size larger than 16".

Please note that Microsoft Word is needed to edit Word reports.

## Web Direct Testing – online-open mode

In general, the latest version of the browsers listed below is supported. Using browsers in an older version may cause (minor) changes in the way the test is presented.

	Windows	Mac OS X	Android & iOS
Microsoft Edge	✓	X	X
Firefox	✓	✓	X
Chrome	✓	✓	✓
Safari	X	✓	✓

## Network requirements

If the Vienna Test System is used on a network, a good, stable internet connection is required. The connection speed should be 100 Mbits p/s or more. At slower speeds the functionality of the Vienna Test System cannot be guaranteed. To ensure that the Vienna Test System works perfectly, it is also important to ensure that the cabling of the network and other network components is sound.

\* Apple-based hardware is not supported.

1 It should be at least an Intel i5 model (or equivalent). Less powerful (such as i3 Celeron) or outdated processors are expressly not advised.

2 SQL Server 2012 Express (for Windows 7 and Windows 8 32 Bit) or SQL Server 2016 Express (Windows 8 64 Bit and Windows 10) is supported or installed free of charge.

3 MS Word is required to edit Word reports.

4 It is not possible to install VTS 8.7 or higher on a PC with Windows 10 (32-bit version).

It is not possible to install VTS on Windows 10 in S mode.

The N and KN versions of Windows 10 require installation of the Media Feature Pack.

5 Windows Server 2008 R2 SP17 is not supported by VTS Web.

## Safety features

If the Vienna Test System is used within the healthcare service, the use of the following devices may be required:

- ✓ Medical grade isolation transformer in accordance with EN 60601
- ✓ Galvanic medical network insulation in accordance with EN 60601 (if the computer is connected to a data network)

**Please ask your in-house health and safety officer.**

Input and output devices of SCHUHFRIED are developed and produced in accordance with the requirements of EU Directive 93/42/EEC, even if the Vienna Test System as a whole is not declared as a medical device. The CE mark confirms that our products comply with technical safety regulations, electro-magnetic compatibility guidelines (EN 60601), bio-compatibility guidelines (EN 30993), product-specific requirements and underlying quality management standards.

**Please consult us before purchasing new equipment; we shall be pleased to help you select the most appropriate items for your purposes.**