

## System Requirements



Release 2.93.0



### System Requirements

Financial Accounting

Asset Accounting

Cost Accounting

Payroll Accounting

## PUBLICATION DETAILS

Varial® World Edition  
Description of the System Requirements

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# 1. General

Unless indicated otherwise, the following system requirements are valid as of Varial World Edition Release 2.93.0.

## 2. Platforms of Varial Client

Varial World Edition Client can be run on the following operating systems:

- **Windows Server 2022**
- **Windows Server 2019**
- **Windows Server 2016**
- **Windows 11**
- **Windows 10**

Other Windows versions may work but have not been tested.

The Client requires .Net Framework 4.5.2, which might have to be installed, depending on the Windows version.

During the start of the client a message appears if no matching version of .Net Framework was found.

Further the operating system component Visual C++ Redistributable for Visual Studio 2015 X86 is required. It might have to be installed as well.

For all given operating systems only the default text size is supported.

A basic system requires 512 MB of available (free) main memory.

For smooth operation even with larger data amounts, we recommend a system with 1024 MB of available main memory.

If Citrix or a terminal server are used in an installation, the above-mentioned hardware requirement applies accordingly.

The Varial World Edition data is stored on the server. Therefore about 500 MB of hard disk space is sufficient for the program files of the client on the workstations.

We recommend up-to-date hardware equipment (current operating system, adequate memory & performance) for the use of Varial World Edition.

## 2.1 OTHER COMPONENTS

### 2.1.1 PDF Display

The printouts are first of all created on the server and transferred to the client then. Therefore, a program for the display of PDF files, like Acrobat Reader, for example, must have been installed.

For security reasons it is recommended to use the latest version.

### 2.1.2 Office Package

Numerous programs in Varial World Edition can export files in xlsx format (Office Open XML format).

The files can be processed in the programs registered for that format then. Thus, it is not necessary to install Microsoft Excel on all workstations.

## 2.2 VARIAL MA SELF SERVICE

When using Employee Self Service, an Apache Tomcat web server version 9 with Java 8 is required. It must be configured for SSL encryption.

Further, a certificate (commercial or self-signed) is required for a secure data connection.

## 2.3 VARIAL WIN

When using VARIAL WIN, an Apache Tomcat web server in version 9 with Java 8 is required. It must be configured for SSL encryption.


















Further, a certificate (commercial or self-signed) is required for a secure data connection.

## 2.4 2-FACTOR AUTHENTICATION

For both MA Self Service and WIN, 2-factor authentication can be optionally set up. In this case, an authentication app, e.g. Microsoft Authenticator, must be installed on the mobile device(s).

### 3. Databases

An overview of the supported databases is provided below:

	Oracle	Microsoft SQL-Server					
		2022 <sup>1</sup>	2019 <sup>1</sup>	2017 <sup>1</sup>	2016	2014 <sup>3</sup>	2012 <sup>2</sup>
Oracle 19c							
Oracle 12c <sup>2</sup>							
Enterprise Edition							
Standard Edition							
Business Intelligence Edition		-	-	-	-		
Express Edition		DEMO only	DEMO only	DEMO only	DEMO only		DEMO only

**Remarks:**

- 1) Only in the Windows version
- 2) Update installation only. A newer version is recommended. Support from the manufacturer has already been discontinued.
- 3) Support from the manufacturer ends in July 2024, so it is recommended to use/upgrade to a newer version.



You can install the database on any platform recommended by the database manufacturer. Generally, one database server installation is required only.

Database server and Varial World Edition server should only be identical for small installations. If database server and World Edition server are installed on the same machine, the restrictions mentioned for the Varial World Edition server apply for the operating system as well.

Client installations of the database software are not required.

The database server should be in accordance with the system requirements of the database manufacturer regarding main memory and hard disk space. The disk space requirements for the application data vary between 500 MB and several gigabytes, depending on the database and data volumes.

Depending on the number of users and data records, additional memory should be made available, where required.

## 4. Platforms of Varial Server

Varial World Edition server requires Java Runtime version 1.11.

For Windows systems, Java Runtime "Corretto" version 1.11.x.xx provided by Amazon is delivered.

For Linux systems, the respective runtime must be installed before installing Varial World Edition.

All server operating systems that can be applied for Varial software can be combined with the respectively available databases. Please respect the manufacturer's remarks and recommendations in addition.

Varial World Edition is approved for the following platforms:

### Microsoft Windows Systems

- Windows Server 2022
- Windows Server 2019
- Windows Server 2016
- Windows 10 (demo only)
- Windows 11 (demo only)

Other Windows versions may work but have not been tested.

### Linux Systems

- Red Hat Enterprise 9.1
- Ubuntu 22.04.01

All systems in the 64bit version!

Other Unix/Linux derivatives may work but have not been tested.

## 5. Server Hardware Recommendations

Generally, a current multicore processor machine with current server operating system is recommended (see [Platforms of Varial Server](#)).

Varial World Edition Server and the database are to be installed on the same machine only in case of a small installation.

The memory requirement of the Varial World Edition server depends on the number of connected clients and the data amount. In the basic version at least 4GB should be available.

Further, there should be a few gigabytes of disk space available. Fast disks are recommended, of course.

The size also depends on additional software that may be run, such as the pre-system. It is important that when setting up the server, exclusively physical memory is considered and allocated. When allocating virtual memory, the so-called "swapping" results in performance breakdowns.

Another parameter for hardware dimensioning is given by the user type. If postings are primarily entered in the pre-system, the hardware should be configured differently than if postings are executed directly in Financial Accounting.

The following system requirements apply for up to 20 users, provided that database and pre-system, if applicable, are run on separate systems:

- current multicore processor machine
- current server operating system
- at least 4GB of free memory
- at least 1GB of disk space

For further information, please contact the technical support.

## 6. Data Import from Pre-System

The data throughput of postings from the pre-system to VWE depends on the operating system and the hardware used. Regarding hardware dimensioning it must be considered that the interface is regarded as an additional user in the system. The following applies for data transfer from the pre-system:

### 6.1 WINDOWS AND LINUX SYSTEMS

To measure the data throughput, the following constellation has been selected as reference system:

- 3.2 GHz Processor
- Windows 2003 server (SE)
- 4 GB of main memory
- About 500 MB of free disk space

The data throughput is largely independent from the number of CPUs. Due to the different hardware architectures, shortages between CPUs and memory can occur, at which the period of data processing is extended. Database and application server are running on different hardware.

#### 6.1.1 Data Throughput Financial Accounting Import

In the reference system, about 1 min. is required for 100 postings. 2,000 postings are executed in 20 min. here.

#### 6.1.2 Data Throughput Cost Accounting Import

The import of 10,000 N/L journal transactions takes about 7 min. in the reference system;  
50,000 N/L journal transactions are executed in 26 min. here.

## 7. Network

The TCP/IP protocol is necessary for Varial World Edition.

To avoid latency periods in the network, it is recommended to set up a preferably fast connection.

A connection with 100 Mbit is sufficient for smaller installations (<20 users). For a larger number of users, the application of a faster connection must be checked and applied in accordance with further net traffic.

## 8. Printer

Varial World Edition generally produces PDF files as printouts, i.e. data is not directly submitted to a printer.

Therefore, the printout is displayed in the PDF viewer installed, for example Adobe Acrobat Reader.

Laser and/or ink jet printers are recommended.