

WinGuard System Requirements

Updated 3.2017

The hardware requirements depend on the expansion stage of the system and the linked devices. The following system requirements apply for the standard expansion stages:

Server:

Basic

- Intel Xeon E3-1231Lv3 3,4GHz 8MB, Quad-Core CPU *(or comparable)*
- 8GB ECC DDR3-1600 RAM
- 2TB SATA 6Gb/s (1x 2TB) HDD *
- 1 Gbit NIC
- Windows Server 2012 R2 (64 bit), Windows Server 2008 R2 (64 bit)

Professional

- Intel Xeon E5-1650v4 3,6 GHz 15MB, Hexa-Core CPU *(or comparable)*
- 16GB ECC DDR4-2133 RAM
- 3TB SATA 6Gb/s (2x 3TB, Raid 1) HDD *
- 1 Gbit NIC
- Windows Server 2012 R2 (64 bit), Windows Server 2008 R2 (64 bit)

Enterprise

- 2x Intel Xeon E5-1650v4 3,6GHz 15MB, Hexa-Core CPU *(or comparable)*
- 32GB ECC DDR4-2133 RAM
- 6TB SATA 6Gb/s (4x 3TB, Raid 10) HDD *
- 1 Gbit NIC
- Windows Server 2012 R2 (64 bit), Windows Server 2008 R2 (64 bit)

**) The required storage space depends on the system usage and the system settings. For operation of a WinGuard Server, at least 100GB free local hard disk space is required.*

Workstation:

Express / Client

- Intel i7-5775 3,3GHz, Quad-Core CPU *(or comparable)*
- 8GB DDR3-1600 RAM
- 1GB PCIe Graphics Card
- 1TB SATA 6Gb/s HDD **
- 1 Gbit NIC
- Windows 10 Pro (64 bit), Windows 8.1 Pro (64 bit)

****) The required storage space depends on the system usage and the system settings. For operation of a WinGuard workstation, at least 50GB free local hard disk space is required.*

Interface Server:

The interface server specification is depending on the connected systems. For remote connection of a single system, it is possible in most cases to use a fanless Embedded PC (e.g. Intel Atom N2600 1.6 GHz CPU, 2GB SODIMM RAM *or comparable*).

Notes

Compatibility

A binding statement about the compatibility of the used operating system in combination with the installed software components of other manufacturers (e.g. required SDKs or APIs) cannot be given by Advancis Software & Services GmbH but only by the respective manufacturers.

Time synchronization

For the operation of WinGuard, the time synchronization between the network participants has to be ensured, e.g. via a domain server, an NTP server or a WinGuard function. However, the latter requires starting of WinGuard with administrator rights.

User account control

In order to use WinGuard, especially the "Watch-Dog"-function, write/read permissions for the program directory are required. This may go along with the configuration of the user account control of Windows 7 (or more recent) and Windows Server 2008 (or more recent).

Anti-Virus software

Using Anti-Virus software can cause interferences between the access from WinGuard and access from Anti-Virus software to critical system files. Therefore access can be blocked or delayed. We suggest taking precautionary measures (e.g. adding the WinGuard files/folders to the exclusion list of the Anti-Virus software).

Operating system patches/updates

Windows operating system patches/updates always need to be up-to-date. It is required that patches/updates recommended by Microsoft are installed.

Virtual Machines

WinGuard has been designed to run on dedicated hardware under a Windows operating system. A virtualization of the hardware by hardware emulation/hardware virtualization or para-virtualization is possible subject to the following restrictions:

System restrictions

As WinGuard is, depending on the project, using numerous interface modules to connect the hard- and software of third party manufacturers, it has to be ensured that all components linked to the total system are functional in a (partly) visualized environment.

For serial connections it has to be ensured that the connection has to be similar to real hardware, e.g. with regard to the timing behaviour for sending/receiving of telegrams.

Advancis Software & Services GmbH cannot give any binding information with regard to the virtualization characteristics of any connected third party system. Problems might occur especially upon switching the VM for load balancing or high availability purposes. To ensure high operation reliability it is recommended to use the proprietary Hot-Standby system of WinGuard instead.

License restrictions

If WinGuard software licenses are applied, please note that the hardware specifications of the used virtual machine have to be invariable as otherwise a new activation of the software license will be necessary. The linkage to the system hardware is established based on two factors:

Serial number of the system drive

MAC address of the primary network adapter

As it depends on the applied virtualization system which actions lead to a system hardware change of the host system, it is not possible to provide further information with regard to the general possibility to copy/switch the host system between different hosts without a new activation.

If the system hardware of the host system is changed regularly, a hardware dongle should be used to avoid required reactivation efforts.