

ScalesNet-M

(Modular)

Connecting Balances by Network

Installation Requirements

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Legal issues

Maro Elektronik has taken great care in the preparation of this document. However, we cannot guarantee freedom from errors. Maro Elektronik is not liable for technical errors in this document. The descriptions in this document do not represent any warranted quality in the legal sense.

ScalesNet-M employs a 32bit version of the Firebird SQL database and therefore requires the resources that are recommended for this environment by the Microsoft operating system. Practical experience has shown that the requirements mentioned in this document are to be considered minimum requirements.

The server hosting the database must provide access to the Internet.

Please note that for the hardware requirements listed below ...

- newer computers offer many power saving features. These features may include, among other things, limiting the performance of various hardware components (e.g. limiting the processor clock). If such power saving functions are used, the computer may not meet the requirements mentioned here, even if it should guarantee this theoretically on paper;
- the values stated here refer to computers executing only the programs necessary for the operation of the corresponding software (e.g. SQL server or application server). In the case of a single-user computer or client, this means essentially that only the Microsoft Windows operating system and the Microsoft Office itself are being executed. If the computers are also used for other purposes, the values must be increased accordingly;
- the values given here apply only to "normal" operation conditions of ScalesNet-M. If, for example, the multiple start of ScalesDesk or ScalesMass is to be used regularly, the values must also be increased accordingly.

Hardware Requirements for ScalesNet

Hardware Requirement for Firebird SQL Server	
CPU	Latest generation processor (at least Intel i7 or equivalent) The processor selection depends on the operating system
Memory RAM	Recommended: 16GB minimum
Free Hard disc space	At least 50GB
Network	Windows compatible TCP/IP network (domain structure or peer-to-peer network)

Hardware Requirement for Clients (Laptop)

CPU	Latest generation processor (at least Intel i7 or equivalent) The processor selection depends on the operating system
Memory RAM	Recommended: 8GB minimum
Free Hard disc space	At least 10GB
Network	Windows compatible TCP/IP network (domain structure or peer-to-peer network; WLAN IEEE 802.11.g/n >100Mbit/s)
Printer	Windows compatible printer (recommended laser printer)

Software Requirements

ScalesNet-M has been tested and released with the current operating systems (Windows 7 or newer and Windows Server 2003 to Windows Server 2016). Unless otherwise noted, the release always applies to the German and English language versions. The language refers to the language settings in the system environment. A change to another language version of the user interface is possible at any time, but does not affect the date display, which is always displayed in the system language format.

ScalesNet Modules

ScalesServer	Central process for communication with the DB and the clients The server process must always be started for the long-term recording of climate values.
ScalesDesk	The hardlock driver must be installed on this computer. Module for the administration of all master data and the administration of orders including all printouts. The connection to the ScalesNet database server is via Ethernet.
ScalesMass	This module is used for handling the calibration of test specimens and normal weights, calibration and adjustment of comparators. Connection to the ScalesNet database server is via Ethernet or Wireless-LAN.
ScalesPrinter	This module prints all print requests coming from ScalesDesk or ScalesMass. ScalesPrinter uses the default printer set in Windows.
ScalesPlan	This module is integrated into the Windows Scheduler and starts the nightly backup of ScalesNet.
Windows OS	Windows 7 or higher
MS Word (bzw. Office)	Version 2003 or higher, must be installed on all PCs or laptops where ScalesPrinter is used.

Requirements for installing ScalesNet

To install ScalesNet, a local network must be set up and functioning. The "ScalesServer" computer with the database (Firebird SQL DB) should be set up with a fixed IP address or DNS.

If terminal servers are used (e.g. Perle IOLAN, Moxa, etc.), fixed IP addresses for these devices is mandatory.

All other client laptops or PCs can be configured in a dynamic address assignment (DHCP) in the network.

When installing ScalesNet-M, local administration rights on all PCs and laptops are mandatory.

The following ports are utilized by ScalesNet-M:

Port 3050 for Database communication

Port 8092 or 8093 for ScalesPrinter

Port 8090 for ScalesDesk

The installation can be executed as a normal server/client solution or the ScalesServer with database is installed in a virtual environment.

All client applications (ScalesDesk and ScalesMass) can also be run as a remote desktop.

If a virtual environment is chosen for the server, the hardlock holding the license key must be configured transparent to the virtual OS (TCP → USB). The hardlock must be installed on the server hosting the ScaleNet-M database.

Due to the variety of installation options, the hardware configuration varies and must be adapted to the chosen installation preferences.