



NETMAN 6

User Manual

NETMAN 6 for the “Workshop-Net”

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Conventions used in the document:

Denomination of the communication standard: **“Workshop-Net”**

Denomination of the application: **NETMAN**

Important expressions or denominations: **“asanetwork5”**

Hyperlinks: **“www.workshop-net.net”**

Cross-references within the document: **“[A Content](#)”**

Important terms or designations: **“manual installation”**

Important notes:

Note:

This is important

Command lines:

```
$ this is the command line
```

B. INSTALLATION

B.1. Windows-Installation

B.1.1. General Information

On Windows, a service with the name „**Workshop-Net NETMAN 6**“ is created, which starts automatically with the system.

The Windows firewall is configured for private, company and domain networks, but not for public networks!

The installation programs automatically configure an existing firewall. If the firewall zone is subsequently changed or a third-party firewall is used, the following port releases must be made:

Port	Protocol	Usage
23232	UDP	Locating the NETMAN
23232	TCP	Data exchange in “Workshop-Net”
23231	TCP	Web-UI

These minimum requirements apply to new and update installations:

- Server 2012 R2 or newer
- Desktop Windows 10 1607 (or newer)
- Microsoft Edge or alternative browser
- .Net 9.0 (will be installed automatically if not present)

The following table lists the directories used:

Directory	Remark
C:\Programme\AxoNet Software GmbH\Workshop-Net NETMAN 6	Binary files
C:\ProgramData\Workshop-Net\NETMAN	Data
C:\ProgramData\Workshop-Net\NETMAN\DB	Data base
C:\ProgramData\Workshop-Net\NETMAN\Logs	Log files
C:\ProgramData\Microsoft\Windows\Start Menu\Programme\Workshop-Net	Start menu links

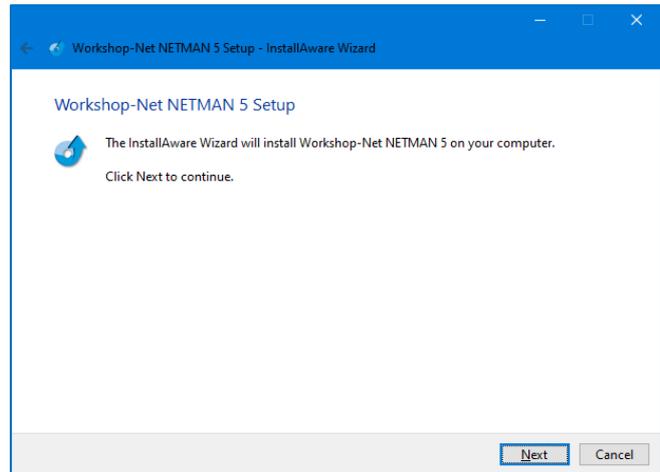
B.1.2. Procedure for new installation/update

Run the Windows setup. Any missing components will be downloaded, if necessary, a previous version may be removed first.

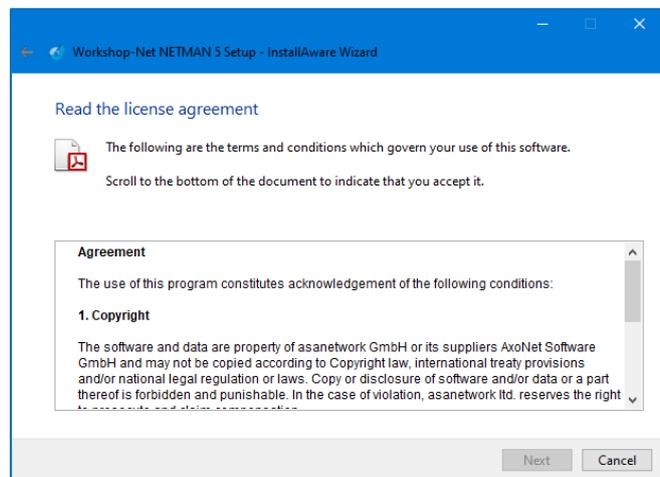
Run the Windows Setup.

Any missing components will be downloaded, if necessary.

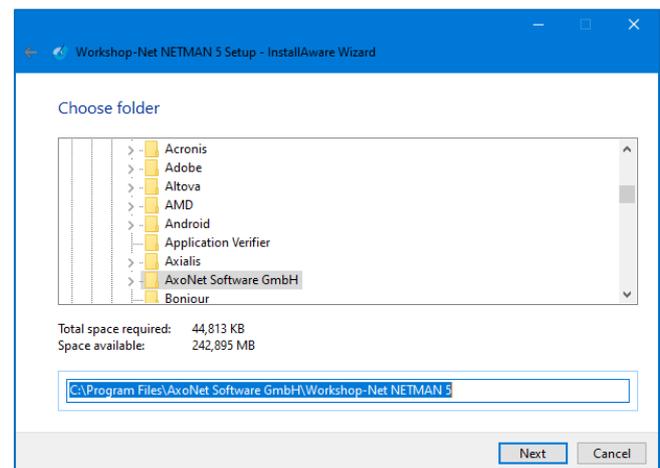
A previous version may be removed first.



Accept the license terms:

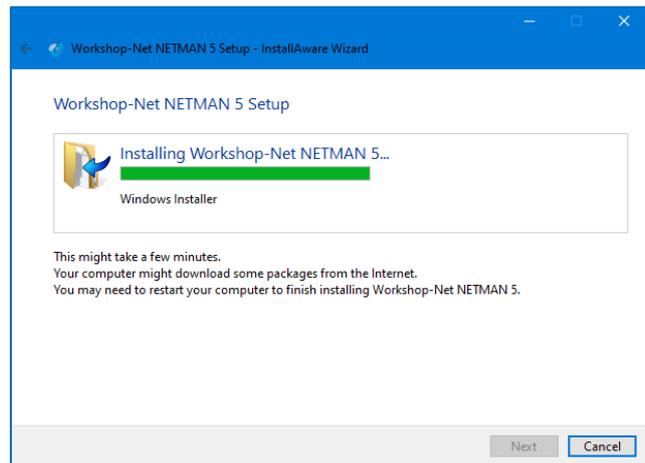


Always use the suggested installation path if possible:



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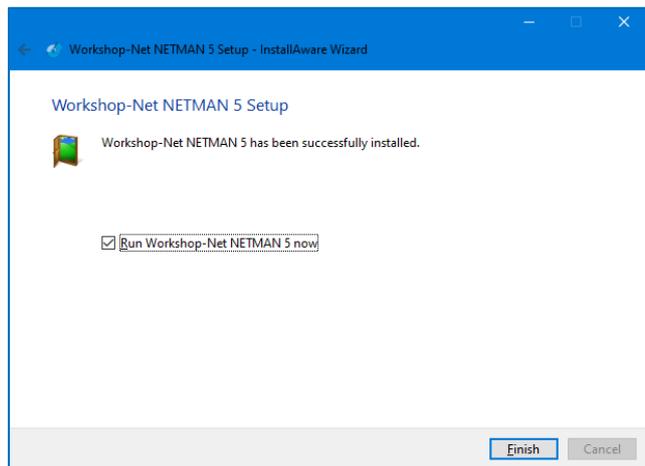
Click **Next**, installation is running...



Wait until the installation is finished:

After clicking on **Finish** the standard browser starts with the address <http://localhost:23231>

It may be necessary to refresh the browser after 10-20s.



B.1.3. Protect NETMAN from unauthorized access

With completion of the initial **NETMAN** - installation the **NETMAN** – settings are automatically protected from unauthorized access.

During an update installation, the access protection of the previous version is applied.

This access protection may be restricted to normal users or even turned off completely (see [D.7 Authentication](#)).

B.1.4. Silent Installation

The parameters are appended to the setup program:

/S SILENT, SILENT INSTALLATION

/l=<path to logfile> Logging, <path to logfile> Example: /l=c:\temp\installlog.txt

TARGETDIR Installation target directory

default C:\Program Files\AxoNet Software GmbH\Workshop-Net NETMAN 6

Example: asa-netman-6.0.1090.0-x64-rel.exe /s TARGETDIR=x:\mynetman /l=c:\netman_install.log

B.2. Linux-Installation

B.2.1. General Information

On Linux, a service (daemon) with the name "**asa-netman.service**" is created, which starts with the system. A firewall will be configured in the currently used zone.

The installation programs configure an existing firewall automatically. If the firewall zone is changed subsequently, or a firewall of a third-party provider is used, the following port releases must be done:

Port	Protocol	Usage
23232	UDP	Locating the NETMAN
23232	TCP	Data exchange in " Workshop-Net "
23231	TCP	Web-UI

These minimum requirements apply to new and update installations:

PC-Hardware

- Ubuntu 22.04 or newer
- Debian 12 or newer
- RHEL 8 or newer
- Fedora 40 or newer
- openSuse Leap 15.6 or newer

On ARM - Hardware

- Raspbian on Raspberry Pi 3 or 4 under Raspian

The following table lists the directories used:

Directory	Remark
/usr/lib/asanetwork	Binary files
/etc/asanetwork	Data
/var/lib/asanetwork	Data base
/var/logs/asanetwork	Log files

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B.2.2. Debian based systems (Debian, Ubuntu, Mint, etc. on PC-Hardware)

Then download the Debian package (.deb) and install or update with this command:

```
$ sudo dpkg -i ./asa-netman-6.0.bbbb.0-x64-rel.deb
```

bbbb = actual build number

No further actions are necessary. The service will be started automatically.

B.2.3. RHEL/Fedora (on PC-Hardware)

Then download the RPM package (.rpm) and install or update with this command:

```
$ sudo dnf install ./asa-netman-6.0.bbbb.0-beta.rpm
```

bbbb = actual build number

The **dnf** command is not available on older distributions, then use **yum** instead:

```
$ sudo yum install ./asa-netman-6.0.bbbb.0-beta.rpm
```

After installation, the service must be activated and started:

```
$ sudo systemctl enable asa-netman.service  
$ sudo systemctl start asa-netman.service
```

The firewall is automatically configured for the current zone.

B.2.4. openSUSE Leap 15 or Tumbleweed (on PC-Hardware)

Then download the RPM package (.rpm) and install or update with this command:

```
$ sudo zypper install ./asa-netman-6.0.bbbb.0-x64-rel.rpm
```

bbbb = actual build number

Note: Zypper complains about a missing signature, this must be ignored!

After installation, the service must be activated and started:

```
$ sudo systemctl enable asa-netman.service
$ sudo systemctl start asa-netman.service
```

The firewall is automatically configured for the current zone.

B.2.5. Debian based systems (RASPIAN on ARM-Hardware Raspberry Pi 3/4)

Download the Debian-ARM-Package (.deb) and install or update with this command:

```
$ sudo dpkg -i ./asa-netman-6.0.bbbb.0-arm-rel.deb
```

bbbb = actual build number

No further actions are needed. The service starts automatically.

B.2.6. Protect NETMAN from unauthorized access

With completion of the initial **NETMAN** installation the **NETMAN** – settings are not protected from unauthorized access.

During an update installation, the access protection of the previous version is applied.

This access protection may be restricted to normal users or even turned off completely (see [D.7 Authentication](#)).

B.3. Synology NAS-Installation

B.3.1. General Information

The installation programs configure an existing firewall automatically. If the firewall zone is changed subsequently, or a firewall of a third-party provider is used, the following port releases must be done:

Port	Protocol	Usage
23232	UDP	Locating the NETMAN
23232	TCP	Data exchange in “Workshop-Net”
23231	TCP	Web-UI

These minimum requirements apply to new and update installations:

- Synology DSM 7 or newer on INTEL-platform x64

Note:

The ARM-platform will not be supported under Synology DSM

The following table lists the directories used:

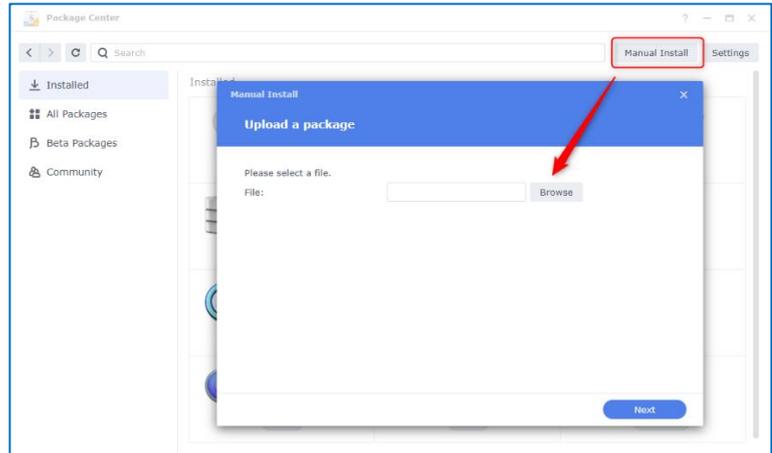
Directory	Remark
<code>/var/packages/asanetwork-Manager</code>	Binary files
<code>/etc/asanetwork</code>	Data
<code>/var/lib/asanetwork</code>	Data base
<code>/var/logs/asanetwork</code>	Log files

B.3.2. Installing NETMAN

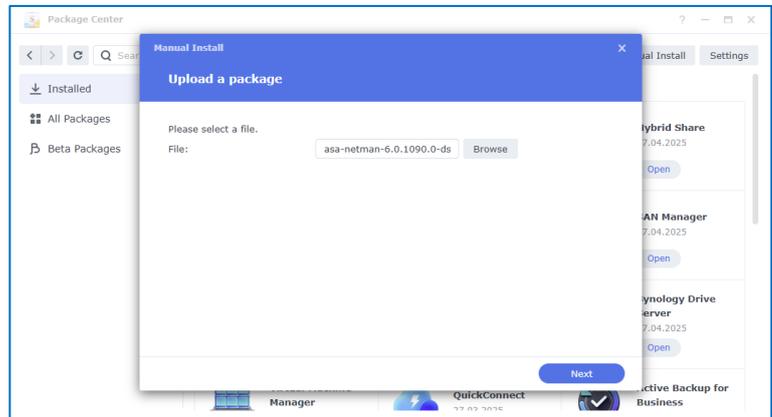
Be sure to download the correct .spk package DSM 7!

Click "**Manual Install**" at the top of the Package Center.

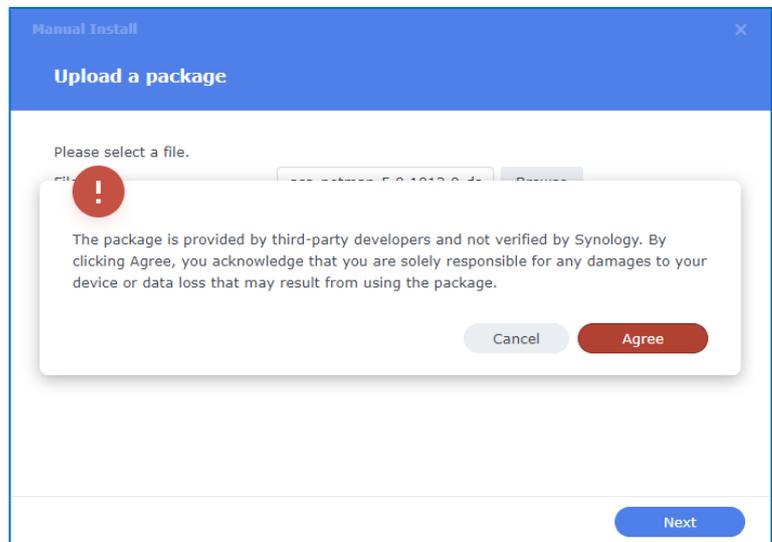
Click "**Browse**" and select the .spk package:



When you have selected the .spk-file, confirm with "**Next**":

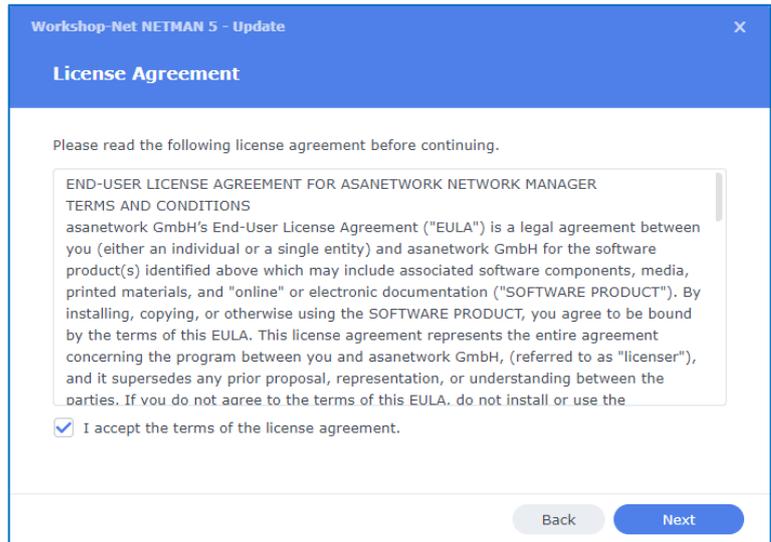


Confirm with "**Agree**":

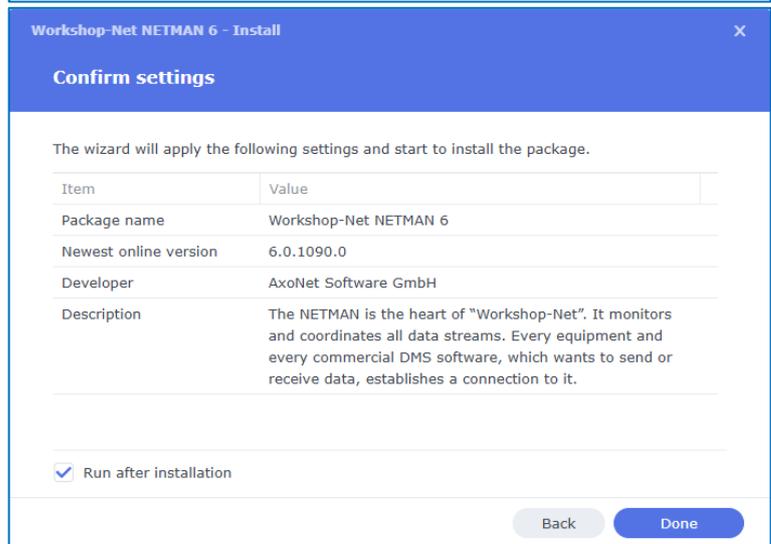


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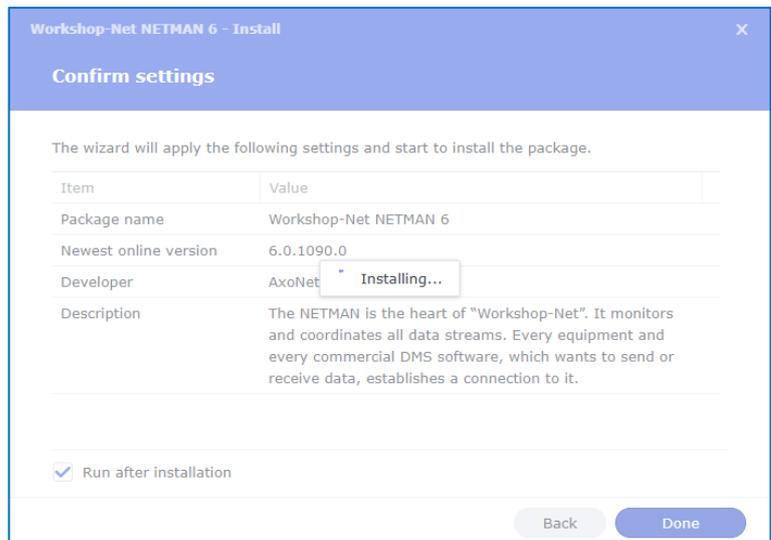
Click "Next" and accept the license:



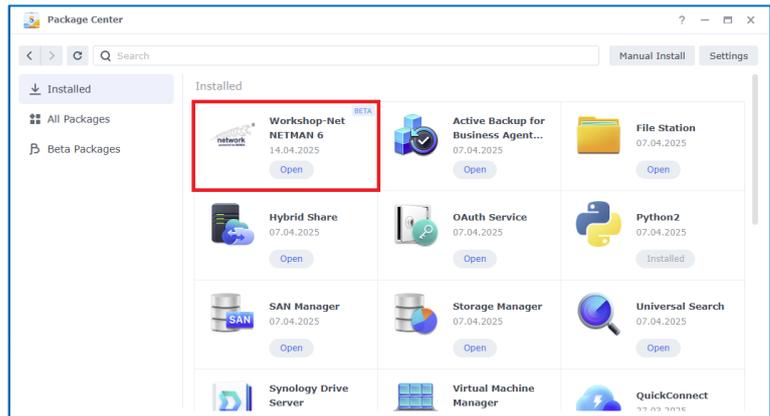
Click on "Done":



Installation is running...



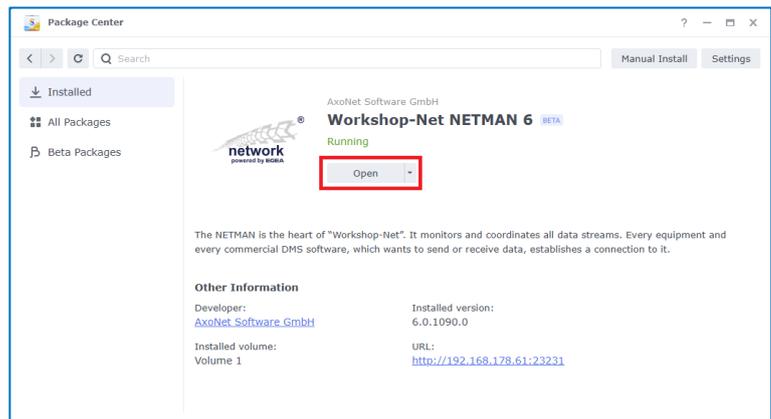
After installation, **NETMAN** is displayed under the installed packages:



Click on the logo or text to see more details:

Click on "**Open**" to open the **NETMAN** Web interface.

More about this in the next section.



B.3.3. Protect NETMAN from unauthorized access

With completion of the initial **NETMAN** installation the **NETMAN** – settings are not protected from unauthorized access.

During an update installation, the access protection of the previous version is applied.

This access protection may be restricted to normal users or even turned off completely. (see [D.7 Authentication](#)).

C. USER INTERFACE

The user interface of a running **NETMAN** may be opened and configured via any browser.

At the local machine with: <http://localhost:23231>

On a remote machine via: <http://<hostname>:23231>

The following **NETMAN** – user interface (tab: “**Status**”) appears in the browser

NETMAN 5
The original communication server for the workshop network

network
powered by ECBA

Status Configuration License M2M Help

License, version and status information about this NETMAN.

Version	✔ 5.0.1013.0
State	✔ Ok
License	✔ Evaluation license, 15 day(s) remaining
Key security	ⓘ The NETMAN private key is missing
Operating system	Microsoft Windows 10 Pro 21H2 .NET 6.0.4

Connected services
If our NETMAN is active, this list shows all currently connected services.

DId	DLoc	Vers	Enc	Login	Prio	Di	Do	Trans	IP-Address(es)	State	Ready	Errors
NETMN*****	Netman.Net	03.00	1252	5/5/2022 - 2:53:19 PM	5	2	0	9		✔	▶	0
BADGR00000	NB-MS-NEU	02.00	1200	5/5/2022 - 3:27:48 PM	9	1	1	1	172.30.80.1	✔	▶	0

Running NETMANs
Displays all found NETMANs running in this network.
Note: Our NETMAN (blue) may not be the currently active one (depending on settings).

Active	Computer	IP-Address(es)	Role	Version	Last seen
✔	Ryzen3950	172.30.80.1, 192.168.1.97, 127.0.0.1	Mobile passive	5.0.1013.0	5/5/2022 - 3:27:48 PM
○	zserver.axonet.local	192.168.1.72	Mobile passive	5.0.1010.0	5/5/2022 - 3:27:50 PM
○	ubuntu-20-04.axonet.local	192.168.1.117	Mobile passive	5.0.1010.0	5/5/2022 - 3:27:45 PM

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Note:

After installation, add the **NETMAN** – bookmark with “Strg-D” in the browser!

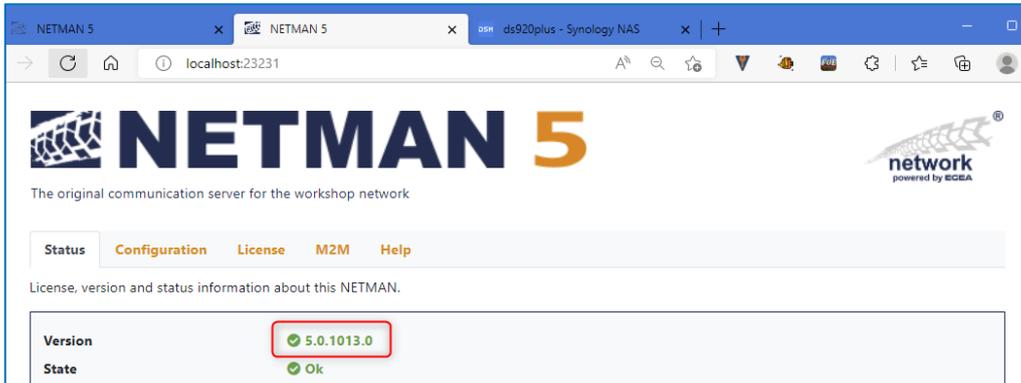
Note:

After installation, the **NETMAN** runs 15 days as full version. After these 15 days, a connection with other equipment within the network is not possible anymore.

(See [1.8 The 15 days trial period has expired – now what?](#))

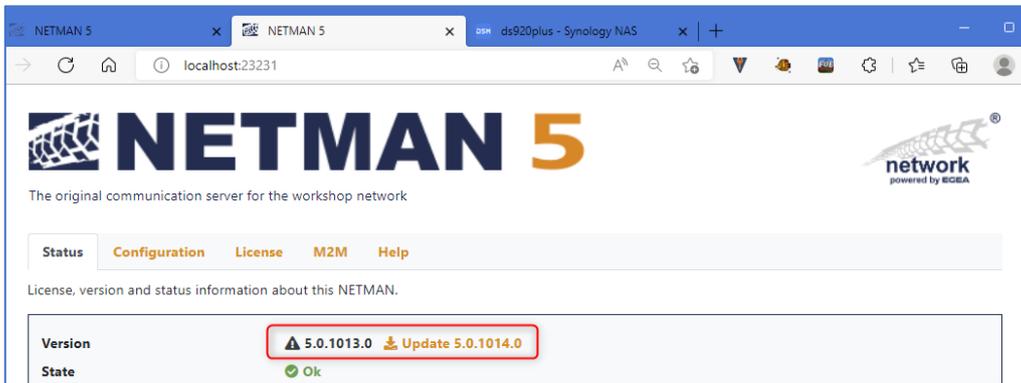
C.1. Version Indicator

With existing internet connection, the **NETMAN** checks whether the version is up to date, each time the browser is started



C.1.1. New version available

If the version check finds a newer version, the orange link may be clicked directly to jump to the download page.

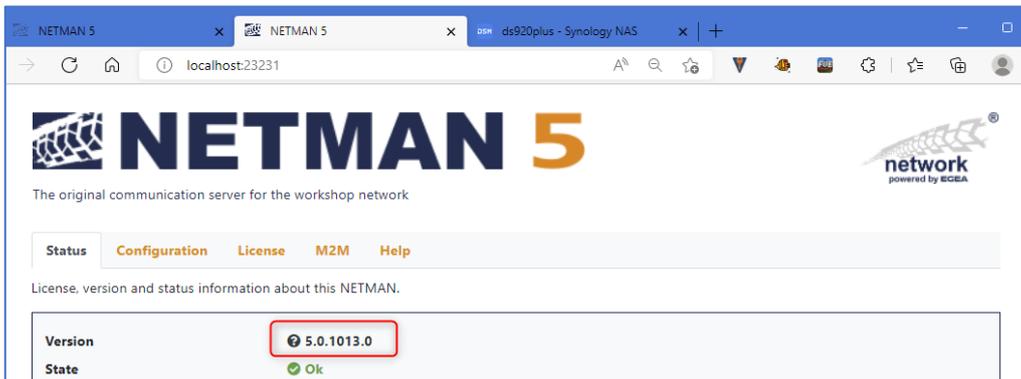


Note:

It is recommended to use the latest version always.

C.1.2. Version check not possible

This message indicates the absence of an internet connection and may be ignored in most cases. If an internet connection was established subsequently, the check may be restarted with "F5". This display can also be seen as long as the check has not been completed.



C.2. Running NETMAN

The status page provides information about all computers with an installed **NETMAN**.

- The **NETMAN** on the own computer is marked in dark blue (here: **Ryzen3950**).
- The column “**Active**” shows which **NETMAN** is currently activated resp. deactivated.
- In a “**Workshop-Net**”- session there is only one active **NETMAN**.
- In the screenshot below, the **NETMAN** on the own computer is **disabled** **1** and the **active NETMAN** runs on the computer “**Aserver**” **2**.

State	☑ Disabled
License	✔ Evaluation license, 15 day(s) remaining
Key security	ⓘ The NETMAN private key is missing
Operating system	Microsoft Windows 10 Pro 21H2 .NET 6.0.4

Running NETMANs

Displays all found NETMANs running in this network.
Note: Our NETMAN (blue) may not be the currently active one (depending on settings).

Active	Computer	IP-Adress(es)	Role	Version	Last seen
1	Ryzen3950	172.30.80.1, 192.168.1.97, 127.0.0.1	Mobile passive	5.0.1013.0	5/5/2022 - 3:26:33 PM
○	zserver.axonet.local	192.168.1.72	Mobile passive	5.0.1010.0	5/5/2022 - 3:26:35 PM
○	ubuntu-20-04.axonet.local	192.168.1.117	Mobile passive	5.0.1010.0	5/5/2022 - 3:26:30 PM
2	AServer.axonet.local	192.168.1.1	Mobile passive	5.0.1013.0	5/5/2022 - 3:26:39 PM

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Note:

By clicking on the orange computer name (link) you may open the configuration of this computer.

C.3. Connected Services

Each service connected with a **NETMAN** is listed in “**Connected services**”

Connected services can only be seen on the **active NETMAN**.

Connected services												
If our NETMAN is active, this list shows all currently connected services.												
Did	DLoc	Vers	Enc	Login	Prio	Di	Do	Trans	IP-Address(es)	State	Ready	Errors
NETMN*****	Netman.Net	03.00	1252	5/5/2022 - 2:53:19 PM	5	2	0	108		☺	▶	0
BADGR00000	NB-MS-NEU	02.00	1200	5/5/2022 - 3:27:48 PM	9	1	1	108	172.30.80.1	☺	▶	0
TESTC00000	RYZEN3950	03.00	1200	5/5/2022 - 3:28:33 PM	9	1	1	108	172.30.80.1	☺	▶	0
ORDER*****	ORDERSIM	03.00	1200	5/5/2022 - 3:28:35 PM	5	1	0	10	172.30.80.1	☺	▶	0
ORDER00000	ORDERSIM	03.00	1200	5/5/2022 - 3:28:35 PM	0	2	2	10	172.30.80.1	☺	▶	0
AWNIXVEHID	ORDERSIM	03.00	1200	5/5/2022 - 3:28:35 PM	0	1	1	10	172.30.80.1	☺	▶	0
AWNDXEM000	ORDERSIM	03.00	1200	5/5/2022 - 3:28:35 PM	0	1	1	10	172.30.80.1	☺	▶	0

Each registered participant within the “**Workshop-Net**”- session is recognized by its 10-count Did-identifier. The first 5 digits identify the manufacturer of the equipment or administrative software. The last 5 digits identify the task of the service.

Did

NETMN***** Internal storage service of the **NETMAN**, activated by default.

MANUF***** Storage service of the manufacturer MANUF, usually of the administrative software, for saving the result data.

MANUF00000 Order service of the manufacturer MANUF, absolutely required for every equipment and administrative software, that participates in a “**Workshop-Net**”-session. This service manages all workshop orders.

Other Internal special services

DLoc	<p>Service location (“Location”) of the equipment on which the connected service is running.</p> <p>This service location information is assigned to a default setting (=default value) by the equipment manufacturer ex works.</p> <p>This service location can only be changed in the equipment settings, see the equipment manufacturer's operating instructions.</p> <p>This service location can be used, for example, to designate the workstation at which this equipment is used.</p>
-------------	---

	<p>Identical equipment models with identical service location information cannot be connected to the NETMAN!</p> <p>When using several identical equipment models from one equipment manufacturer, each of these equipment must be assigned a unique individual service location specification.</p>
Vers	<p>Protocol version of the user data sent.</p> <p>This version number does not correspond to the software version of the equipment software!</p>
Enco...	Code page, this specifies how the user data sent by the connected service is encoded.
Login	Time at which the connected service logged on to NETMAN.
Prio	"Workshop-Net" specific information of the connected service
Di	"Workshop-Net" specific information of the connected service
Do	"Workshop-Net" specific information of the connected service
Trans.	Number of user data packages that the connected service has received since login.
State	<p> The connected service is online</p> <p> User data packages are sent to the connected service</p>
Ready	<p> The connected service is ready to receive</p> <p> The connected service is not ready to receive</p>
Errors	<p>Error counter for protocol errors detected by NETMAN.</p> <p>The user data transmitted by the connected service does not correspond to the specification.</p> <p>Counter = 1: Login of the connected service is erroneous. Counter reading any: Recognized continuous protocol errors in the user data.</p>

D. CONFIGURATIONS

You may switch to the settings via the "**Configuration**" tab:

If the settings are protected against unauthorized access, the user must first authenticate himself:

NETMAN 6

The original communication server for the workshop network

Status Configuration License M2M Help

Login

Enter a user account and password for authentication. The user account can be created locally or in a domain. Use the form user@domain.ext or DOMAIN/user.

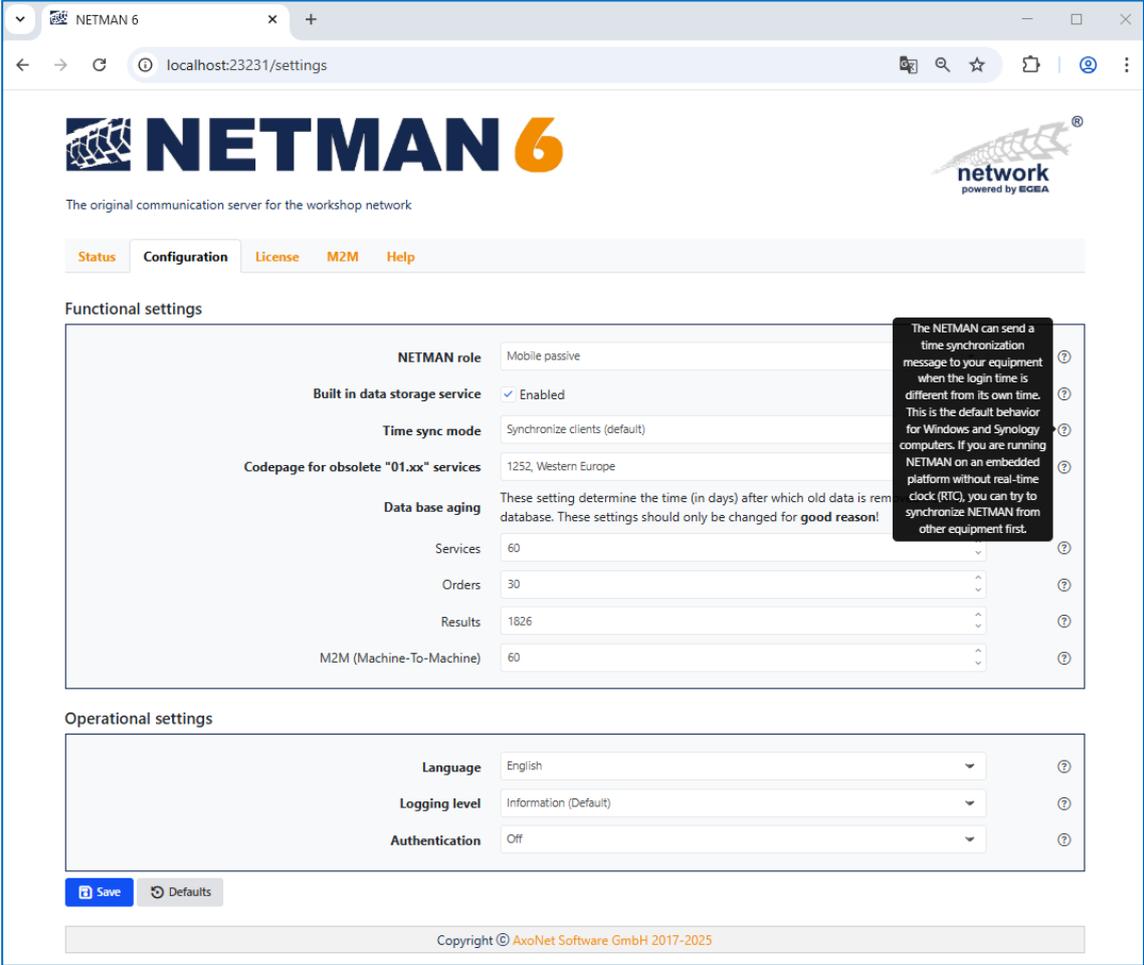
Username username or domain/user

Password

Login

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If the mouse is moved over the  symbol, a tooltip displays help information about the respective topic.



The screenshot shows the NETMAN 6 settings page in a browser window. The page title is "NETMAN 6" and the URL is "localhost:23231/settings". The page is divided into two main sections: "Functional settings" and "Operational settings".

Functional settings:

- NETMAN role:** Mobile passive
- Built in data storage service:** Enabled
- Time sync mode:** Synchronize clients (default)
- Codepage for obsolete "01.xx" services:** 1252, Western Europe
- Data base aging:** These setting determine the time (in days) after which old data is removed from the database. These settings should only be changed for **good reason!**
 - Services: 60
 - Orders: 30
 - Results: 1826
 - M2M (Machine-To-Machine): 60

Operational settings:

- Language:** English
- Logging level:** Information (Default)
- Authentication:** Off

At the bottom of the page, there are buttons for "Save" and "Defaults". A copyright notice at the bottom reads "Copyright © AxoNet Software GmbH 2017-2025".

A tooltip is displayed over the "Time sync mode" setting, containing the following text: "The NETMAN can send a time synchronization message to your equipment when the login time is different from its own time. This is the default behavior for Windows and Synology computers. If you are running NETMAN on an embedded platform without real-time clock (RTC), you can try to synchronize NETMAN from other equipment first."

Note:

- The default settings should not be changed without good reason!
- All settings may be reset to the default values.
- Changes in the settings become effective after saving only.

D.1. Setting “NETMAN role”

D.1.1. General Information

- In a “**Workshop-Net**” - session there must be **only one** active **NETMAN**!
- Deinstall multiple installed **NETMAN**!
- Multiple **NETMAN** are accepted in a “**Workshop-Net**” – session only, if external mobile devices with installed **NETMAN** connect to a “**Workshop-Net**” – session for **short-term**, for example an external test engineer within the scope of an inspection.
- With the setting “**NETMAN role**” **NETMAN**-conflicts will be solved, if multiple **NETMAN** on mobile devices take part in a “**Workshop-Net**” - session additionally.

D.1.2. Roles of a NETMAN

The following roles may be set:

Mobile passive:

- The **NETMAN** only becomes active, if no other **NETMAN** is found in the same network.
- If several **NETMAN**s with the role “**Mobile passive**” are present, the **NETMAN** with the smallest IP address will be activated, all others become passive.

Always active:

- The **NETMAN** is always active.
- Other **NETMAN**s must be set to the role “**Mobile passive**”.
- **Only one NETMAN** may be set to “**Always active**”, otherwise there is a misconfiguration, and an error message will occur!

D.1.3. Recommendations

- Install **exactly one NETMAN** in your workshop.
- Keep the role “**Mobile passive**” of this **NETMAN** set (default).
- Set the role to “**Always active**” only, if other mobile devices with **NETMAN** are to be included in your “**Workshop-Net**” - session.
- Configure mobile devices exclusively with the role “**Mobile passive**”.

Note:

The setting “Always active” with several **NETMAN**s running in the same network is a **misconfiguration** and should be avoided in any case!

D.2. Setting “Built in data storage service”

The internal NETMAN storage service (NETMN*****) saves all order and result data as well as all internal „**Workshop-Net**“ administration information continuously in the background with date and time.

After installation the internal **NETMAN** – storage service is activated by default.

Note:

Even if there are other storage services MANUF***** registered in a “**Workshop-Net**“- session, it is recommended to keep the intern storage service of the **NETMAN** activated!

D.3. Database-Aging

The contents of **NETMAN** 's internal database are not stored permanently but are deleted after a certain period.

For the **database-aging** the following periods are set by default:

Type	Period	Note
Services	60 days	All services ever connected within the period. If a service does not register within the specified period anymore, the information is deleted. When using the equipment – license, never set the period below 42 days!
Orders	30 days	All ever managed active orders within the period. Orders are deleted by the administrative software by default only. If orders are not deleted by the DMS, implies a malfunction of the administrative software, or there are multiple installed NETMAN within the local area network.
Results	1826 days 5 years	All ever received result data within the given period. All results of the last 5 years may be retrieved from the “ Workshop-Net “.
M2M	60 days	All internal equipment status information (M2M data) ever received during this period. This M2M data is encrypted and can only be read by the designated receiver.

Note:

Shorten the period of the database-aging only, if the computer with the installed **NETMAN** does not have enough random access memory AND the daily workshop order throughput is quite high.

Note:

Old result data may be retrieved and displayed directly with the **WsN-Viewer**.

D.4. Time Synchronization Mode

D.4.1. General Information

When processing orders in the “**Workshop-Net**” it is essential for all “**Workshop-Net**” – participants to use the same date and time, the so-called **system time**.

Modern computers are connected to the internet (**www**) and therefore have an exact system time respectively are equipped with exact real time clocks (**RTC**).

The **NETMAN** uses the system time of the computer, on which he is installed on.

The **NETMAN** uses this system time to synchronize the system time with all the other “**Workshop-Net**” – participants during registration.

A change of the time synchronization mode is necessary only when there is **no current system time** available on the computer with the installed **NETMAN**.

The time synchronization comes into effect only, when the differences in time of the “**Workshop-Net**” – participants are more than 30 seconds.

D.4.2. Synchronization modes

It may be chosen between the following settings:

Synchronize clients	<p>Default setting The computer with the installed NETMAN provides the system time.</p> <p>The NETMAN synchronizes the system time with all the “Workshop-Net” – participants during registration.</p>
Synchronize NETMAN only	<p>The computer with the installed NETMAN does not provide the system time (no www / no RTC).</p> <p>The NETMAN uses the system time of the first “Workshop-Net” – participant, who registers and is able to provide a system time himself.</p> <p>After that, the NETMAN does not synchronize this system time with all the other “Workshop-Net” – participants.</p>
Synchronize NETMAN and clients	<p>The computer with the installed NETMAN does not provide a system time (no www / no RTC).</p> <p>The NETMAN uses the system time of the first “Workshop-Net” – participant, who registers and is able to provide a system time himself.</p> <p>After that, the NETMAN synchronizes this system time with all the other “Workshop-Net” – participants.</p>

D.5. Non-Unicode-Coding

Some "**Workshop-Net**" participants are not Unicode capable (protocol version older than 2.00). The "**Non-Unicode-Coding**" – setting may be used to set the character encoding, used by that "**Workshop-Net**" participants.

A change in the character encoding becomes necessary in particular, when a region or language is deviating from the default setting "1252, Western Europe".

D.6. Language

With the setting "**Language**" the language of the user interface is set.

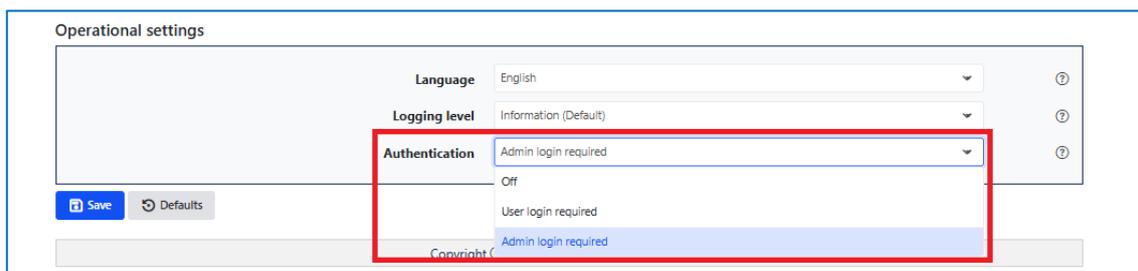
Note:

Refresh the browser with <F5> to activate the new language after saving. It may even be necessary to restart the computer.

D.7. Authentication

When the **NETMAN** initial installation is completed, the **NETMAN** settings are not protected against unauthorized access. During an update installation, the access protection of the previous version is applied.

Access can be restricted to normal users or administrators using the "**Authentication**" setting or access protection can be switched off completely:



The user's login-data correspond to those login-data at the computer.

The administrator's login- data correspond to those of the local domain administrator.

If the login input is correct, the settings are saved.



D.8. Logging Level

The **NETMAN** records the processes during the "**Workshop-Net**" session and stores them in log files.

The customer service may request your log files to clarify any problems.

With the setting "**Log level**" the level of detail of the log files is defined.

The setting "**Info**" is default.

Note:

To avoid large amounts of data, change this setting only on request of the customer service!

After solving your problem, be sure to set the default value "**Info**" again!

To provide these log files the customer service, use the tab "**Help**" in the user interface and click on the link

"**Log files [download](#)**".

According to the settings in the tab "**Configuration**" an authentication may be necessary.

Afterwards, the log files are loaded into the download directory as a zip-file.

These zip-files may be sent to the customer service by e-mail to info@workshop-net.net.

E. ACTIVATE FREE OF CHARGE EQUIPMENT LICENSE

A **“Workshop-Net”**- SESSION IS COMPLETELY **FREE OF CHARGE** IF YOU OWN ONE WORKSHOP EQUIPMENT WITH AN INTEGRATED **NETMAN** – EQUIPMENT LICENSE!

THE WEBSITE www.workshop-net.net PROVIDES INFORMATION ABOUT WHICH EQUIPMENT BRANDS CONTAIN AN EQUIPMENT LICENSE FOR THE **NETMAN**.

E.1. Three steps to the goal

E.1.1. Step 1: Meet the requirements

The following requirements must be met for an activation of the equipment license:

- 1) The **NETMAN** must be installed properly (see [B Installation](#)).
- 2) The user interface of the **NETMAN** must be opened in the browser (see [C User interface](#)).
- 3) The **NETMAN** must be activated (see [C.2 Running NETMAN](#)).
- 4) The trial license of 15 days must not have expired (see [I.8 The 15 days trial period has expired – now what?](#)).
- 5) You own at least one workshop equipment with integrated **NETMAN** - equipment license.
- 6) This workshop equipment is turned on and the **“Workshop-Net”** – gateway is activated.
- 7) This workshop equipment is connected to the **NETMAN** via local area network.

If all requirements are met, the **NETMAN automatically recognizes** the equipment with the free of charge equipment license (here: emission tester of the Robert Bosch GmbH)

State ✔ Ok

License ✔ Free equipment license detected, online-registration required! 15 day(s) remaining for registration.

Key security ⓘ The NETMAN private key is missing

Operating system **Microsoft Windows 10 Pro 21H2**
.NET 6.0.4

Connected services

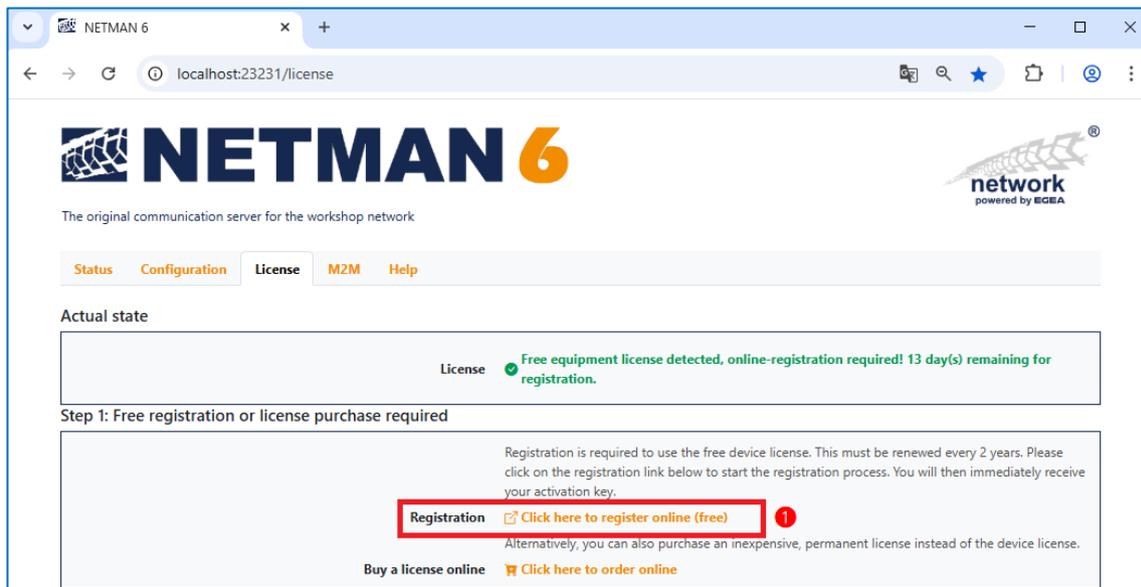
If our NETMAN is active, this list shows all currently connected services.

DId	D/Doc	Vers	Enc	Login	Prio	Di	Do	Trans	IP-Adress(es)	State	Ready	Errors
NETMN*****	Netman.Net	03.00	1252	5/5/2022 - 3:43:26 PM	5	2	0	326		✔	⊕	0
BADGR00000	NB-MS-NEU	02.00	1200	5/5/2022 - 3:43:38 PM	9	1	1	326	172.30.80.1	✔	⊕	0
TESTC00000	RYZEN3950	03.00	1200	5/5/2022 - 3:43:39 PM	9	1	1	326	172.30.80.1	✔	⊕	0
BOSCH00000	Abgas 1	03.00	1200	5/5/2022 - 3:44:56 PM	9	1	1	326	172.30.80.1	✔	⊕	0

E.1.2. Step 2: Online Registration

THE EQUIPMENT LICENSE MUST BE NECESSARILY REGISTERED ONLINE AND FREE OF CHARGE WITHIN 15 DAYS.

- 1) Complete Step 1 first (see above [E.1.1 Step 1: Meet the requirements](#))
- 2) To register the free equipment license, click on the “**License**” tab. The computer needs to have access to the internet.
- 3) Open the link to register online **1**:



- 4) After clicking on "**free registration**" you will be taken to an input mask.
- 5) Please fill in all fields appropriately.
- 6) Especially the e-mail address must be correct, and you need to have access to the e-mail-account! Disposable email addresses are not accepted!
- 7) Confirm your agreement to the privacy policy.
- 8) Click on "**Register**".

License Registration

Register to receive your license

Martin Rothschink

martin.rothschink@axonet.de

AxoNet Software GmbH

+497021735600

Germany

I consent to your Privacy Policy

Register

E.1.3. Step 3: Activate License

THE EQUIPMENT LICENSE MUST BE NECESSARILY ACTIVATED **FREE OF CHARGE** WITHIN 15 DAYS.

- 1) Complete step 2 first (see above [E.1.2 Step 2: Online Registration](#))
- 2) After completion of step 2 you received an **activation key** at the provided e-mail address.
- 3) To activate the free license, click on the “**License**” tab. The computer needs to have access to the internet.
- 4) Enter the **activation key** in the appropriate input field **1**
- 5) Complete the process with “**Apply license**” **2**

The screenshot displays the 'License' management interface. At the top, navigation tabs include 'Status', 'Configuration', 'License', 'M2M', and 'Help'. The 'License' tab is selected, showing a status of 'Evaluation license, 15 day(s) remaining'. Below this, there is a section for purchasing a license online, with a 'Buy a license online' button and a link to 'Click here to order online'. The 'License activation' section contains the following fields and instructions:

- Activation key for online activation:** A text input field containing the key 'AWGG0M0U00HN8I9F89HQ3A48ZD'. A red circle with the number '1' is placed to the left of this field.
- Your Computer ID is:** 'RYZEN3950'. Below this, it instructs the user to copy the computer key into the field below.
- Computer key for offline activation:** A text input field with the placeholder 'computer key'.

At the bottom of the activation section, there is an 'ASA-LiveStream-License' section with a checkbox for 'ASA-LiveStream support' and a note: 'Only required if you do not have a license'. Below this, there is a 'Save' button and a 'Check equipment license' button. A red circle with the number '2' is placed to the left of the 'Save' button. A message states: 'You have 30 minutes to activate authorized equipment and register the license'. The footer shows 'Copyright © AxoNet Software GmbH 2017-2022'.

6) On successful activation, the new license is displayed immediately:

State	✔ Ok
License	✔ Equipment license by Robert Bosch GmbH
Key security	ⓘ The NETMAN private key is missing
Operating system	Microsoft Windows 10 Pro 21H2 .NET 6.0.4

Note:

If the authorizing equipment is not switched on for 42 days, **the equipment license will expire!**

Starting 10 days before expiration, the remaining days are displayed on the user interface of the **NETMAN** and all the equipment will show the hint: **"..., only XX day(s) remaining!"**

State	✔ Ok
License	✔ Equipment license by Robert Bosch GmbH Please turn your equipment on, only 6 day(s) remaining
Key security	ⓘ The NETMAN private key is missing
Operating system	Microsoft Windows 10 Pro 21H2 .NET 6.0.4

Note:

The registration and activation must be renewed **free of charge every 2 years!**
Before the end of the two-year period, you will receive a reminder via e-mail.

E.1.4. Manual activation

If the online activation fails, a corresponding error message indicates the reason.

Important:

Typically, this happens when you try to use a key again, that has already been activated.
(See [I.6 How to deactivate my NETMAN-License](#))

Important:

This may also happen if You have no internet access. In this case, switch to offline activation.
(See [I.4 NETMAN-License cannot be activated online – now what? \(Manual activation\)](#))

F. PURCHASE AND ACTIVATE CHARGEABLE LICENSE

F.1. Purchase the License

F.1.1. General Information

Note:

If not done yet, download and install the latest version of the **NETMAN** on www.workshop-net.net and test the **NETMAN** at full functionality, before purchasing the license (see [B Installation](#)).

Note:

The **NETMAN** runs in full mode for 15 days after installation as “Evaluation license”.

If the 15 days have expired, a connection to other equipment via the local network is **no** longer possible (see [I.8 The 15 days trial period has expired – now what?](#)).

Note:

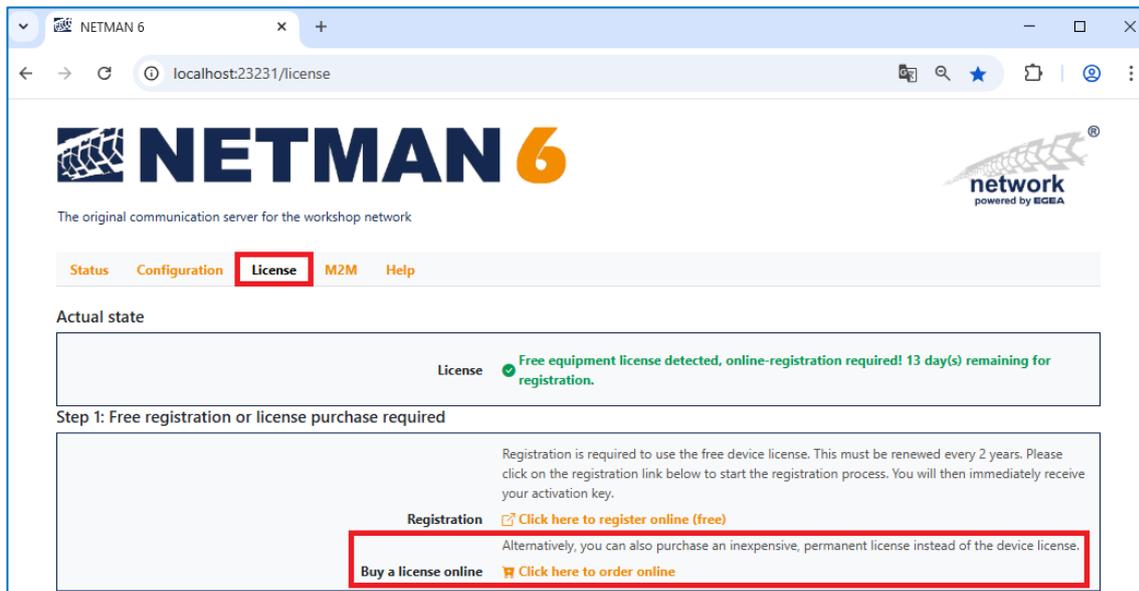
Since **NETMAN** - version 4, USB-dongles are **no** longer used for licensing.

Note:

Before purchasing a license, please check if you can use the **free of charge equipment license**. (See [E.1.1 Step 1: Meet the requirements](#))

F.1.2. Acquisition of an Online License

- 1) Open the **NETMAN** – user interface (see [C User interface](#))
- 2) Switch to the “**License**” tab
- 3) Click on “**Click here to order online**”



- 4) By activating the link, it will take you to the contact page of the website www.workshop-net.net. There you may order a NETMAN license using the contact form or by telephone. You will immediately receive an informal order confirmation by e-mail.
- 5) The activation key for NETMAN is usually sent within 2 working days with the invoice to the e-mail address you have provided.
- 6) Proceed with the activation of the license in the **NETMAN** (see below [F.2 Activate the License](#)).

F.2. Activate the License

Important:

The **NETMAN**-service needs to have access to the internet during activation.

- 1) Purchase an **activation key** first (see above [F.1.2 Acquisition of an Online License](#))
- 2) Open the **NETMAN**-user interface on the computer with the running **NETMAN** (see [C User interface](#))
- 3) Open the tab "**License**" in the **NETMAN**
- 4) Enter the **activation key** you received by e-mail in the appropriate input field **1**
- 5) Click on "**Save**" **2**

Status Configuration **License** M2M Help

License ✓ Evaluation license, 15 day(s) remaining

Buy a license online

To permanently use all functions of NETMAN, please purchase a license.

Buy a license online [Click here to order online](#)

License activation

1 Activation key for online activation ?

If online activation fails, please use [offline activation](#).
Fill in the first 3 fields (your Activation Key, the product and your Computer ID).

Your Computer ID is **RYZEN3950**

Then copy the computer key created there into the field below.

Computer key for offline activation ?

ASA-LiveStream-License

ASA-LiveStream support Only required if you do not have a license ?

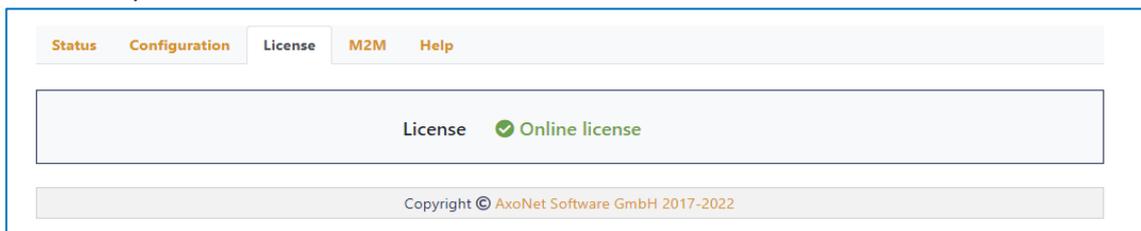
2 Save Check equipment license You have 30 minutes to activate authorized equipment and register the license

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6) On successful activation, the new license is displayed as “**Online license**” immediately:

State	✔ Ok
License	✔ Online license
Key security	! The NETMAN private key is missing
Operating system	Microsoft Windows 10 Pro 21H2 .NET 6.0.4

7) Under the tab "License" only the activated license is displayed, further actions are no longer necessary.



F.2.1. Error causes during online activation

If the online activation fails, a corresponding error message indicates the reason.

Important:

Typically, this happens when you try to use a key again, that has already been activated.
(See [I.6 How to deactivate my NETMAN-License](#))

Important:

This may also happen if You have no internet access. In this case, switch to offline activation.
(See [I.4 NETMAN-License cannot be activated online – now what? \(Manual activation\)](#))

G. ACTIVATE FREE OF CHARGE ASA-LIVESTREAM LICENSE

- The ASA-LiveStream is a special service that is only used in the Federal Republic of Germany for the brake efficiency inspection.
- For the use of the ASA-LiveStream service the **NETMAN** is free of charge.
- The free of charge use for ASA-LiveStream operation must be activated in the **NETMAN**.
- The **NETMAN** can always be activated free of charge for ASA-LiveStream operation. This can also be done **after** the 15-day trial period has expired.

Note:

All other regular **"Workshop-Net"** – functions cannot be used in ASA-LiveStream mode!

- 1) In the **"License"** tab, activate the **"ASA-LiveStream support"** checkbox
- 2) Complete the process with **"Apply license"**:

The screenshot shows the 'License' configuration page in the NETMAN software. The page has a navigation bar with tabs: Status, Configuration, License (selected), M2M, and Help. Below the navigation bar, there is a section titled 'License' with a status indicator 'Only ASA-LiveStream enabled (!)'. A green link 'Buy a license online' is present, followed by a text box stating 'To permanently use all functions of NETMAN, please purchase a license.' and a button 'Buy a license online' with a shopping cart icon and a link 'Click here to order online'. The 'License activation' section contains three input fields: 'Activation key for online activation' (containing 'activation key'), 'Your Computer ID is' (containing 'RYZEN3950'), and 'Computer key for offline activation' (containing 'computer key'). Below this, the 'ASA-LiveStream-License' section has a checkbox 'ASA-LiveStream support' which is checked and highlighted with a red box, and a note 'Only required if you do not have a license'. At the bottom, there is a 'Save' button highlighted with a red box, and a 'Check equipment license' button. A footer message states 'You have 30 minutes to activate authorized equipment and register the license'. The copyright notice at the bottom reads 'Copyright © AxoNet Software GmbH 2017-2022'.

3) After successful saving, the ASA-LiveStream operation is displayed:

State	✔ Ok
License	✔ Only ASA-LiveStream enabled (!)
Key security	ⓘ The NETMAN private key is missing
Operating system	Microsoft Windows 10 Pro 21H2 .NET 6.0.4

Connected services

If our NETMAN is active, this list shows all currently connected services.

DId	DLoc	Vers	Enc	Login	Prio	Di	Do	Trans	IP-Adress(es)	State	Ready	Errors
NETMN*****	Netman.Net	03.00	1252	5/5/2022 - 4:38:06 PM	5	2	0	0		✔	▶	0

Running NETMANs

Displays all found NETMANs running in this network.
Note: Our NETMAN (blue) may not be the currently active one (depending on settings).

Active	Computer	IP-Adress(es)	Role	Version	Last seen
✔	Ryzen3950	172.30.80.1, 192.168.1.97, 127.0.0.1	Mobile passive	5.0.1012.0	5/5/2022 - 4:38:34 PM
○	ubuntu-20-04.axonet.local	192.168.1.117	Mobile passive	5.0.1010.0	5/5/2022 - 4:38:29 PM
○	zserver.axonet.local	192.168.1.72	Mobile passive	5.0.1010.0	5/5/2022 - 4:38:34 PM

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H. MACHINE TO MACHINE COMMUNICATION (M2M)

H.1. Introduction

H.1.1. Basic information on “Workshop-Net” – machine communication

In "**Workshop-Net**", workshop equipment can independently send internal status information (**M2M-data**) using the "**Workshop-Net**" machine communication service (**M2M service**). The M2M service thus supports application solutions for inventory management or predictive maintenance, for example.

Both, workshop equipment and dealer management systems must offer the "**Workshop-Net**" M2M function in addition to the standard "**Workshop-Net**" interface. M2M is not a mandatory component of the "**Workshop-Net**" basic interface!

Note:

Please contact the manufacturer of your workshop equipment resp. the supplier of the dealer management system to find out whether the "**Workshop-Net**" interface includes the **M2M - service**.

A software update of the "**Workshop-Net**" interface at the equipment resp. at the dealer management system may be necessary!

H.1.2. Which M2M-data are sent?

Within the scope of the M2M-service, the following M2M – data may be sent from the workshop equipment:

- Name and address of the equipment operator incl. GPS location
- Equipment information (manufacturer, model, type, software, etc.)
- Measures, performed on the equipment (maintenance, repair, calibration, etc.)
- Indicative, warning – and error messages
- Operation and consumption counters

Measures, warning - and error messages are sent immediately, all other M2M-data are sent in cyclic intervals. The intervals, that trigger the cyclic data transmission can be set in **NETMAN**. (see xxx)

H.1.3. Are the M2M data secure?

M2M data are sensitive internal enterprise data and are therefore encrypted. The **public key**, required for the encryption is provided by the **designated receiver**. Only the designated receiver can decrypt the data with his **private key**.

Hint:

The **designated receiver** is either an integral part of the inventory management of the enterprise resource planning system resp. related productive system or a separate application.

The software provider of the designated receiver is solely responsible for the further processing of the M2M - data, in particular the forwarding and collection of the M2M data into the cloud.

The NETMAN is no designated receiver of M2M-data!

The NETMAN decrypts no M2M-data!

H.2. Activation

The activation of the M2M - function is triggered exclusively by the designated receiver of the M2M data.

As long as no designated receiver is active in the "**Workshop-Net**" session, the following status message appears in the **NETMAN** user interface under "**Key Security**":

State	✔ Ok
License	✔ Evaluation license, 15 day(s) remaining
Key security	❗ The NETMAN private key is missing
Operating system	Microsoft Windows 10 Pro 21H2 .NET 6.0.4

As soon as a designated receiver is active in the "**Workshop-Net**" session, this is acknowledged in the **NETMAN** user interface under "**Key security**":

State	✔ Ok
License	✔ Online license
Key security	✔ All private and public keys are valid
Operating system	Microsoft Windows Server 2012 R2 Essentials .NET 6.0.5

H.3. Configuration

- If a M2M-service is active in the **"Workshop-Net"** session, it should be configured in the user interface of the **NETMAN!**
- If no M2M service is active in the **"Workshop-Net"** session, the entries have no effect.

Note:

Have the configuration done by the **provider of the designated receiver**, when installing the M2M - service!

- 1) Open the **NETMAN**-user interface on the computer with the running **NETMAN** (see [C User interface](#))
- 2) Click in the NETMAN on the tab **"M2M"**, the following input mask opens:

The screenshot shows the NETMAN 6 M2M configuration interface. The browser address bar displays 'localhost:23231/m2m'. The page features a navigation bar with tabs: 'Status', 'Configuration', 'License', 'M2M' (highlighted), and 'Help'. Below the navigation bar, the 'Location' section contains the following input fields:

- Country
- Country code (2 letters, ISO-3166-1)
- Language code (2 letters, ISO-639-1)
- Company (Operator)
- Zip code
- Street
- City
- State or province
- GPS position: Enter the GPS coordinates in decimal degree here or click the button to detect the position automatically.
- Latitude
- Longitude

Below the location section is the 'Trigger' section, which contains a table with the following data:

Name	Cycles	Period [Days]
Brake tester	20	7
Emission tester	20	7
Lift	20	7
OBD tester	20	7
Particle counter	20	7
Smoke tester	20	7
Suspension tester	20	7

A 'Save' button is located at the bottom left of the configuration area. The footer of the page contains the text: 'Copyright © AxoNet Software GmbH 2017-2025'.

- 3) Set the entries for Location and Fehler! Verweisquelle konnte nicht gefunden werden.
- 4) Complete with **"Save"**
- 5) After saving, the set values are displayed.

H.3.1. Configuration of the Location

- The M2M service also sends the location of the workshop device to the designated receiver.
- The address and GPS position of the workshop, where the networked workshop equipment are physically installed is used as the location of the workshop device.
- This location information is entered centrally on the **NETMAN** and is identical for all networked workshop equipment of this workshop.

Enter the following information about the location:

Country	Input as plain text in any language.
Country code	This input uniquely identifies the informal input country . Input as 2-digit Alpha code according to ISO 3166-1 standard The alpha-2 codes can be viewed on the International Standard Organization (ISO) website e.g. at: https://www.iso.org/obp/ui/#search/code/
Language code:	This Input identifies the language used, e.g. in the notes, warnings and error messages. Input as 2-digit code according to ISO 369-1 standard The 2-digit code may be found on common internet platforms, e.g. at https://de.wikipedia.org/wiki/Liste_der_ISO-639-1-Codes
Company (Operator)	Input of the operator's company name as plain text
Zip code	Input as plain text, note regional requirements.
Street	Input as plain text, note regional requirements.
City	Input as plain text, note regional requirements.
State or province	Input as plain text, note regional requirements.
GPS position	Input of the GPS position of the workshop in the format "decimal degree (DG)" Latitude: -90.0000000 bis 90.0000000 Longitude: -180.0000000 bis 180.0000000 The approximate position can be determined automatically via the button: <div style="border: 1px solid #ccc; padding: 5px; display: inline-block;"> <p>GPS position Enter the GPS coordinates in decimal degree here or click the button to detect the position automatically.</p>  </div> It is recommended to determine and enter the exact GPS position.

H.3.2. Configuration of the trigger for the recurring M2M data transmission

- Measures on the workshop equipment, as well as warning and error messages are sent by the M2M service immediately, all other M2M data is sent at cyclical intervals.
- The intervals that trigger the cyclic data transmission are configured in the "Trigger" input mask.
- A separate interval can be specified for each workshop equipment category "brake tester", "lifting platform", etc. for which the M2M service is specified.
- M2M data may be sent after a certain number of test or work cycles or after a certain period of time.
- The M2M data are sent if one of the triggers "Cycle" or "Period" is reached, then both cycle and period will be reset.

Enter the following information about the trigger:

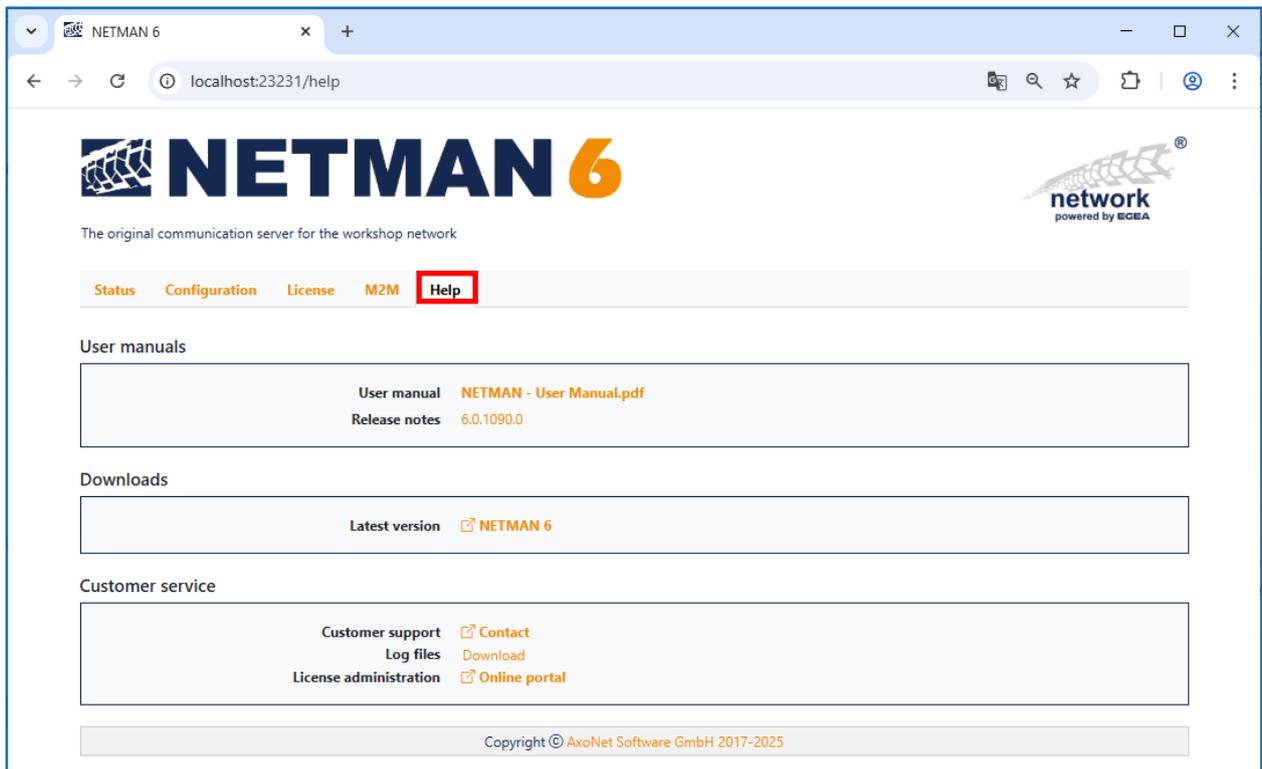
Cycles	Input of the test resp. duty cycles from 5 cycles to 200 cycles. Default value: 20cycles
Period [days]	Input the period in days from 1 day to 30 days. Default value: 7 days

I. HELP AND TROUBLESHOOTING

I.1. The NETMAN-Help-Menu

With the “**Help**” tab you find the following links:

- “**User manual**” which leads you to this instruction manual
- “**Notes about this version**” which leads you to the release notes
- “**Latest version**” which leads you to the download of the current version
- “**Customer service**” which leads you to the support area of the website
- “**Log files**” provides log files for the troubleshooting
(for details see [I.2 How to download a log file](#))
- “**License administration**” leads you to the online portal, in which the **NETMAN**-activation keys may be administrated (for details see [I.3 How to administrate NETMAN-Licenses](#))



The screenshot shows a web browser window with the address bar displaying 'localhost:23231/help'. The page features the NETMAN 6 logo and the tagline 'The original communication server for the workshop network'. A navigation menu includes 'Status', 'Configuration', 'License', 'M2M', and 'Help' (highlighted with a red box). The 'Help' section is divided into three categories: 'User manuals', 'Downloads', and 'Customer service'. Under 'User manuals', there are links for 'User manual' (NETMAN - User Manual.pdf) and 'Release notes' (6.0.1090.0). Under 'Downloads', there is a link for 'Latest version' (NETMAN 6). Under 'Customer service', there are links for 'Customer support' (Contact), 'Log files' (Download), and 'License administration' (Online portal). The footer contains the copyright information: 'Copyright © AxoNet Software GmbH 2017-2025'.

1.2. How to download a log file

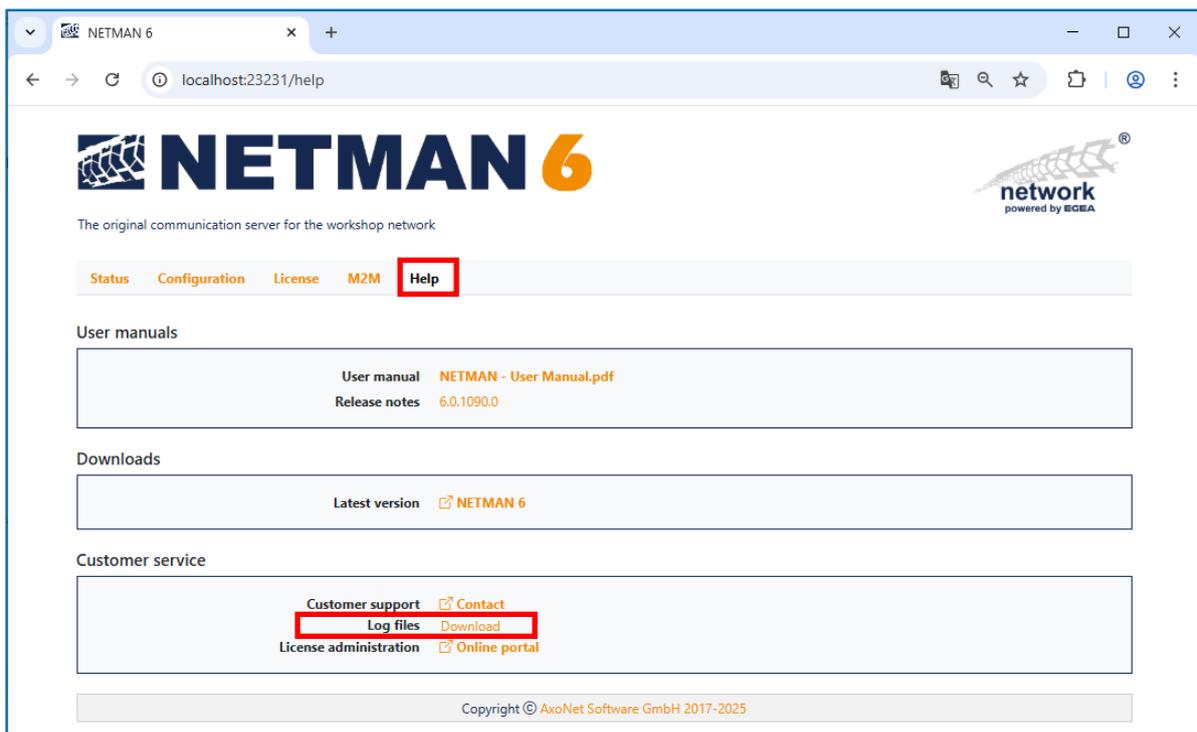
The customer service may request the so-called log files to clarify any problems.

1.2.1. What is a log file?

- In a log file all network operations in the context of a **“Workshop-Net”**-session are recorded.
- This log file records successful network as well as unsuccessful network operations.
- This log file does not record any order data or result data.
- There is a separate log files recorded by the **NETMAN** for each day.

1.2.2. How to create a log file

- To create a log file, use the tab **“Help”** in the user interface of the **NETMAN** and click on the link **“Log files download”**:



- According to the settings in the tab **“Configuration”** it may be possible that an authentication is necessary (see [D.7 Authentication](#)).
- Afterwards all the log files are loaded into the download directory as a zip-file.
- Send the zip-file via e-mail to info@workshop-net.net
- If necessary, the customer service may require changing the log level detail of the recordings (see [D.8 Logging Level](#)).

Note:

Be sure to provide date and period when the problems have occurred in your e-mail.

1.3. How to administrate NETMAN-Licenses

1.3.1. What is the license administration?

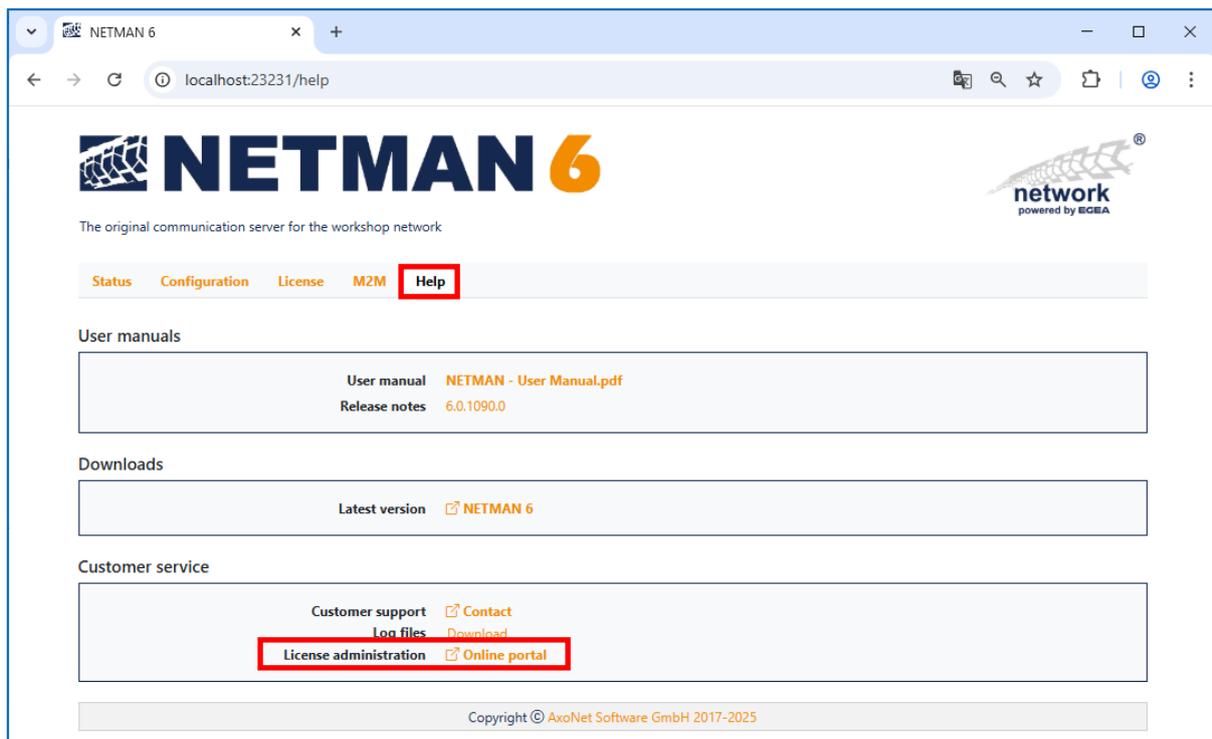
With the “license administration” the activation key and therefore also your **NETMAN**-license may be administrated.

With the license administration you may

- ... activate the activation key, even if your **NETMAN** does not have internet access (see [1.4 NETMAN-License cannot be activated online – now what? \(Manual activation\)](#))
- ... retrieve your activation key if you lost or forgot it (see [1.5 I forgot my activation key – now what?](#))
- ... deactivate your activation key if you want to move the **NETMAN** to another target system (see [1.6 How to deactivate my NETMAN-License](#))
- ... retrieve on which computer(s) your **NETMAN**-license is activated (see [1.7 How to find out on which computers my license is activated](#))

1.3.2. How do I get to the license administration?

To get to license administration, use the tab “Help” in the user interface of the **NETMAN** and click on the link “License administration **Online Portal**”. You can also use an internet-browser with the direct link: <https://qlm2.net/asanetwork/qlmcustomersite/>



1.4. NETMAN-License cannot be activated online – now what? (Manual activation)

If the computer with the installed **NETMAN** cannot access the internet, an online activation of the **activation key** directly out of the **NETMAN** application is not possible. In this case you may have to do an **“Offline activation”**.

The offline activation is divided into three steps:

- 1) Determine the **“Computer-ID”** of the computer with the installed **NETMAN**
- 2) Activate the **NETMAN**-license on a computer with internet access, therefore the **“Computer-ID”** and the **“Activation key”** is required. With successful activation you receive a so-called **“Computer key”**
- 3) Activate the license with **“Computer key”** and **“Activation key”** directly in the **NETMAN**-service

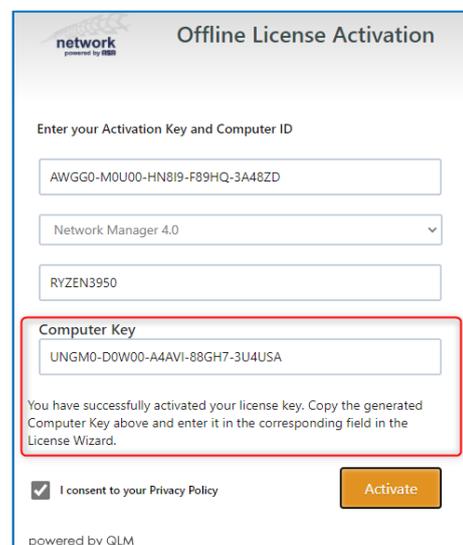
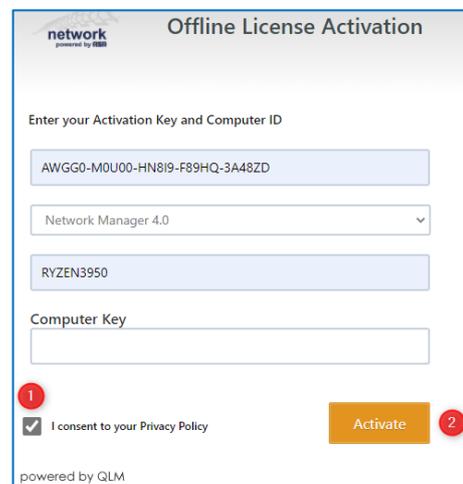
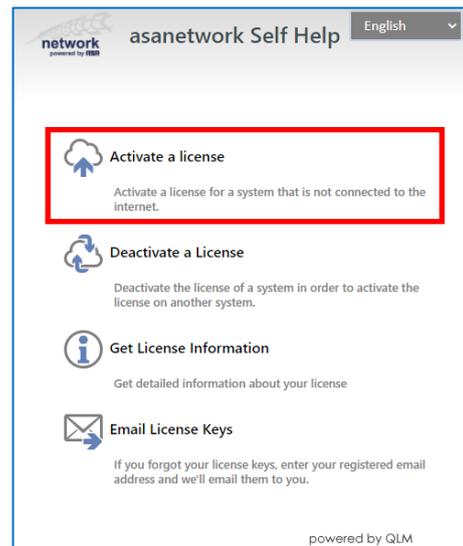
1.4.1. Step 1: Determine your Computer-ID

- 1) Open the **NETMAN**-user interface on the computer with the running **NETMAN**
(see [C User interface](#))
- 2) To find your **“Computer-ID”** open the tab **“License”** in the **NETMAN**-interface and look for **“Your Computer-ID is”**
- 3) Make a note of your **“Computer-ID”** (Your Computer-ID is not **RYZEN3950!**)

The screenshot displays the NETMAN user interface for license management. The 'License' tab is active and highlighted with a red box. The main content area shows the current license status: 'License' with a green checkmark and 'Evaluation license, 15 day(s) remaining'. Below this, there is a section titled 'Buy a license online' with a button that says 'Click here to order online'. The 'License activation' section contains an 'Activation key for online activation' input field, a note about using offline activation, and a 'Your Computer ID is RYZEN3950' field highlighted with a red box. Below that is a 'Computer key for offline activation' input field. At the bottom, there is an 'ASA-LiveStream-License' section with a checkbox for 'ASA-LiveStream support' and a 'Save' button.

I.4.2. Step 2: Generate the "Computer key"

- 1) Finish step 1
(see [I.4.1 Step 1: Determine your Computer-ID](#))
- 2) Find a computer with internet access and open the internet browser
- 3) Click on the link:
<https://qlm2.net/asanetwork/qlmcustomersite>
- 4) License administration opens up
- 5) Choose your language
- 6) Click on
"Activate a license"
- 7) Offline License Activation opens up
- 8) Enter the **activation key** in the first field
- 9) Select the product in the second field, here „Network Manager 4.0"
- 10) In the third field, enter the name of the target computer (**Computer-ID**) for which offline activation is to be performed.
- 11) Consent to the privacy policy **1** and then click the "Activate" button **2**:
- 12) Your **activation key** will now be activated and an individual "**computer key**" will be created for offline activation.
- 13) Copy the "**computer key**" or write it down



1.4.3. Step 3: Activate the NETMAN offline

1) Finish step 2

(see [1.4.2 Step 2: Generate the "Computer key"](#))

2) Open the NETMAN-user interface on the computer with the running NETMAN

(see [C User interface](#))

3) Open the tab "License" in the NETMAN-interface

4) Enter the "activation key" in the NETMAN **1**

5) Enter the "computer key" in the NETMAN **2**, "computer keys" always begin with the letter "U"

6) Complete the process with "Apply license". **3**

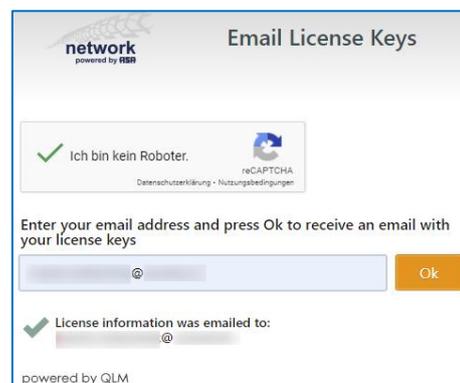
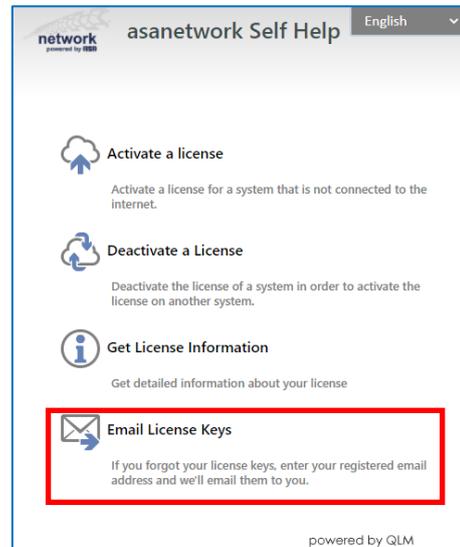
7) With successful activation the license is immediately visible and displayed in the NETMAN

The screenshot displays the 'License' tab in the NETMAN interface. At the top, the 'License' tab is highlighted with a red box. Below the navigation bar, the current license status is shown as 'Evaluation license, 15 day(s) remaining'. A section titled 'Buy a license online' contains a button 'Click here to order online'. The 'License activation' section features two input fields: 'Activation key for online activation' (containing 'AWGG0M0U00HN8I9F89HQ3A48ZD') and 'Computer key for offline activation' (containing 'UVGQ0-IOF00-AIGHB-88THE-387RQJ'). Both fields are highlighted with red boxes and numbered 1 and 2. Below these fields, the 'Your Computer ID is RYZEN3950' is displayed. At the bottom, there is a 'Save' button and a 'Check equipment license' button, with a timer indicating 'You have 30 minutes to activate authorized equipment and register the license'. The footer shows 'Copyright © AxoNet Software GmbH 2017-2022'.

1.5. I forgot my activation key – now what?

If you purchased your license online and did not archive the **activation key** safely (!), you may get it resent to the e-mail address, used for your purchase.

- 1) Find a computer with internet access and open the internet browser
- 2) Click on the link:
<https://qlm2.net/asanetwork/qlmcustomersite>
- 3) License administration opens up
- 4) Choose your language
- 5) Click on
“E-Mail License Keys”
- 6) Enter the e-mail address used for your purchase
- 7) Confirm the security question **"I am not a robot"**
- 8) Click on **“OK”**
- 9) If successful, e-mail dispatch is confirmed
- 10) Get the **“activation key”** from the e-mail you received



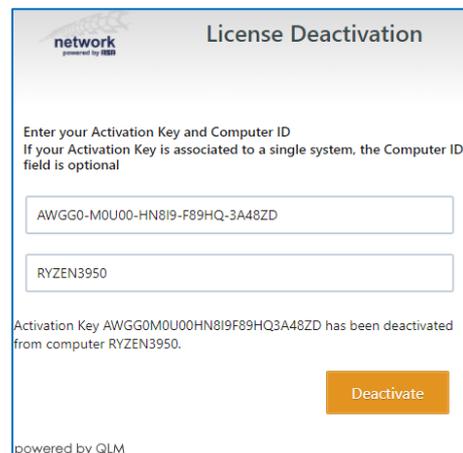
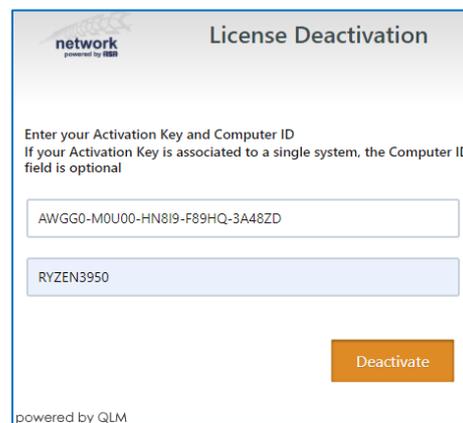
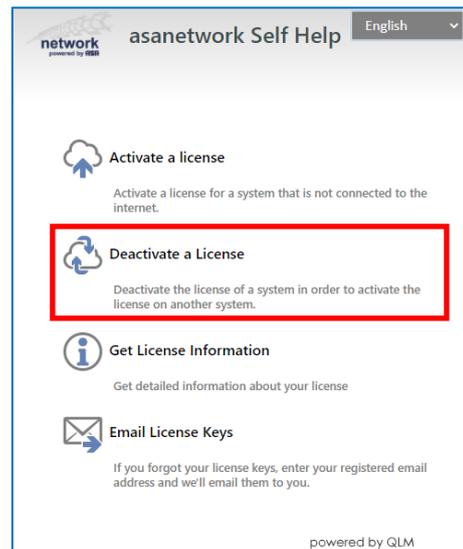
Note:

If your old e-mail address is no longer in use, or not known anymore, please contact support at info@workshop-net.net.

1.6. How to deactivate my NETMAN-License

A **NETMAN**-license may be deactivated online with the license administration. The released license may be reactivated on another target system, for example for another user.

- 1) Find a computer with internet access and open the internet browser
- 2) Click on the link:
<https://qlm2.net/asanetwork/qlmcustomersite>
- 3) License administration opens up
- 4) Choose your language
- 5) Click on
“**Deactivate a License**”
- 6) License deactivation opens up
- 7) Enter the “**activation key**” in the first field. To find your activation key see
[1.5 I forgot my activation key – now what?](#)
- 8) Enter your “**Computer-ID**” in the field below. To find your Computer-ID see
[1.4.1 Step 1: Determine your Computer-ID](#)
- 9) Click on “**Deactivate**”
- 10) If deactivation is successful, the release of the **NETMAN**-license is confirmed:



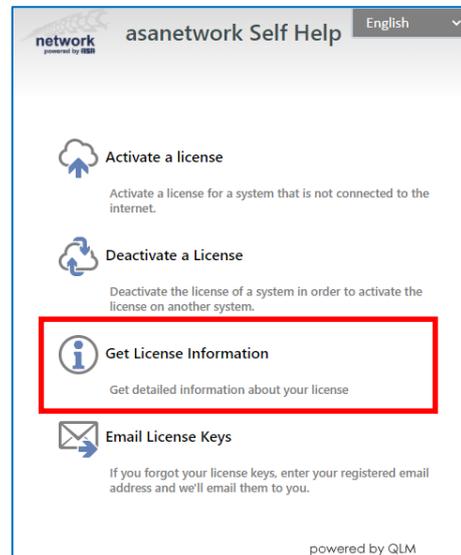
1.7. How to find out on which computers my license is activated

You purchased a **NETMAN**- single license and forgot on which computer the **NETMAN** is installed?

You purchased a **NETMAN**-batch license and want to know on which computers the licenses are installed?

In this case you can retrieve this information in the license administration.

- 1) Find a computer with internet access and open the internet browser
- 2) Click on the link:
<https://qlm2.net/asanetwork/qlmcustomersite>
- 3) License administration opens up
- 4) Choose your language
- 5) Click on
“**Get License Information**”



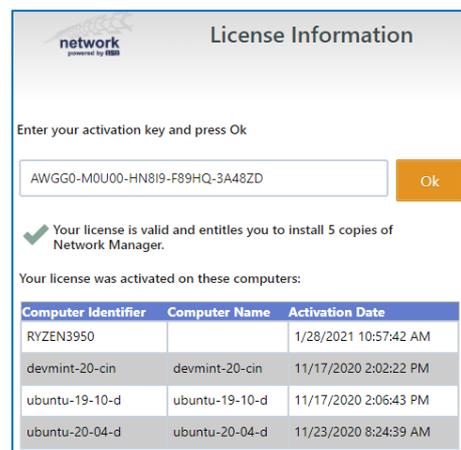
- 6) License Information opens up
- 7) Enter the “**activation key**”.

To find your activation key see
[1.5 I forgot my activation key – now what?](#)

- 8) Click „**OK**”



- 9) The validity of your **activation key** will be checked, and the activated computer will be displayed.
- 10) If you own a **NETMAN**-batch license all activated computers will be displayed.



I.8. The 15 days trial period has expired – now what?

I.8.1. What happens after the 15 days trial period?

- After installation, the **NETMAN** runs 15 days as full version. This is the so-called trial period.
- Within this trial period the **“Workshop-Net”** may be tested free of charge.
- After these 15 days, the trial license **deactivates** itself and the **NETMAN** switches to the so-called **“Demo Mode”**!
- In the “Demo Mode”, a connection with other **“Workshop-Net”**-network participants is not possible anymore.
- But other **NETMAN** in the network will still be recognized in the “Demo Mode”.
- In “Demo-Mode”, the **NETMAN** only allows communication to **“Workshop-Net”**- network participants that are installed on the same computer (see [I.11 What is the purpose of the Demo Mode?](#)).

I.8.2. How to recognize a deactivated NETMAN in the Demo-Mode

- 1) Open the **NETMAN**-user interface on the computer with the running **NETMAN** (see [C User interface](#))
- 2) In the “Status” tab you may find license information **“No license detected, ...”**:

State	✔ Ok
License	✘ No license detected, purchase license online or check for equipment license
Key security	ℹ The NETMAN private key is missing
Operating system	Microsoft Windows 10 Pro 21H2 .NET 6.0.4

Attention:

Please check, whether there are several **NETMAN** installed in the network (see [C.2 Running NETMAN](#)). In this case it is recommended to deinstall multiple **NETMAN**!

1.8.3. How to reactivate the NETMAN out of the Demo Mode

With the following measures the **NETMAN** may be reactivated from the Demo Mode:

- Purchase a **NETMAN**-license online and reactivate the **NETMAN** (see [F Purchase and activate chargeable license](#))
- Activate the free of charge ASA-LiveStream-License (see [G Activate free of charge ASA-LiveStream license](#))
- **Re-activate** the **NETMAN** for 30 minutes to check if a free device license may be used, do the following:
 - 1) Open the **NETMAN**-user interface on the computer with the running **NETMAN** (see [C User interface](#))
 - 2) Open the tab “**License**”
 - 3) Click on “**Check equipment license**”

The screenshot shows the 'License' tab in the NETMAN user interface. At the top, there are navigation tabs: Status, Configuration, License (selected), M2M, and Help. Below the tabs, a message indicates 'License No license detected, purchase license online or check for equipment license'. A section titled 'Buy a license online' contains a button 'Click here to order online'. The 'License activation' section has three main parts: 1) 'Activation key for online activation' with a text input field containing 'activation key' and a help icon; 2) 'Your Computer ID is' with the value 'RYZEN3950' and instructions to use offline activation if online fails; 3) 'Computer key for offline activation' with a text input field containing 'computer key' and a help icon. Below this is the 'ASA-LiveStream-License' section with a checkbox for 'ASA-LiveStream support' which is unchecked. At the bottom, a 'Check equipment license' button is highlighted with a red box, and a message states 'You have 30 minutes to activate authorized equipment and register the license'. The footer shows 'Copyright © AxoNet Software GmbH 2017-2022'.

- 4) **NETMAN** is available again for 30 minutes in full mode
- 5) Try to activate within 30 minutes a free of charge equipment license (see [E Activate free of charge equipment license](#)).

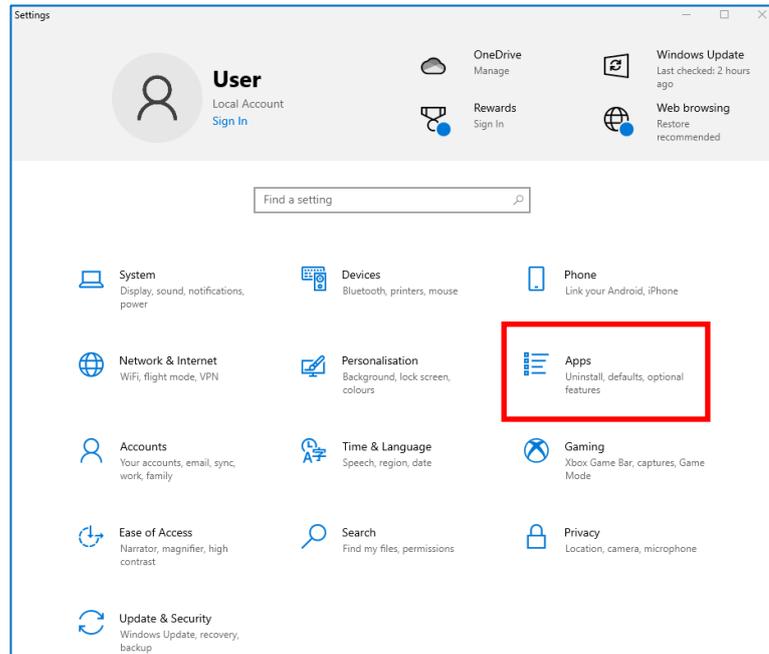
Note:

The Re-activation of the **NETMAN** may be repeated as often as required.

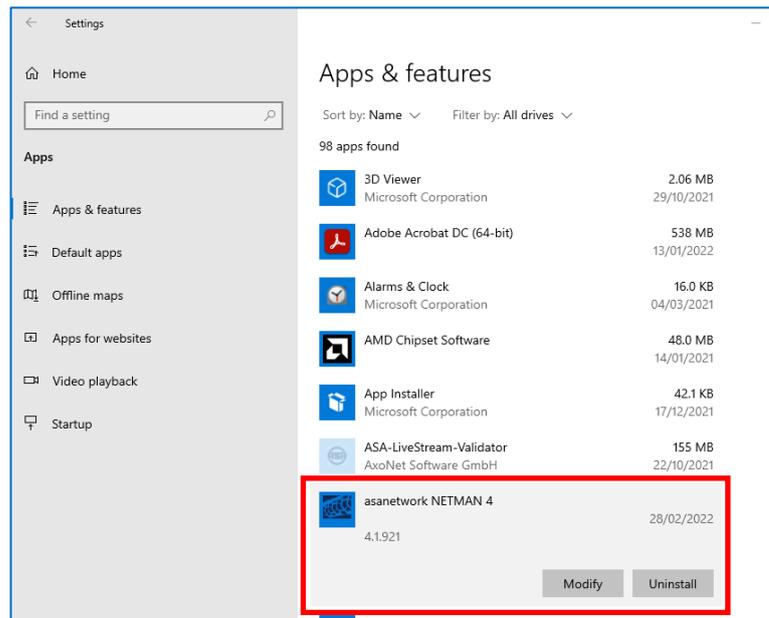
I.9. How to deinstall my NETMAN

I.9.1. Deinstallation Windows

- 1) Open the Windows **"Settings"**
- 2) Choose the section **"Apps"**



- 3) Look for the app **"NETMAN"**
- 4) Click on the button **"Deinstall"**
- 5) Follow the instructions



1.9.2. Deinstallation Linux

In case your operating system is Linux, please use the following command to deinstall the **NETMAN**:

For Debian resp. Ubuntu:

```
$ sudo apt remove asa-netman
```

For Fedora resp. CentOS resp. RHEL:

```
$ sudo yum remove asa-netman
```

For openSUSE:

```
$ sudo zypper remove asa-netman
```

I.10. How to move the NETMAN to another system

I.10.1. Move the NETMAN in four steps

When moving the **NETMAN** from one computer to another target computer also the **NETMAN**-license must be transferred to this target computer.

This relocation is divided into four steps:

- 1) Deactivate the **NETMAN**-license on the previously used computer
(see [I.6 How to deactivate my NETMAN-License](#))
- 2) Deinstall the **NETMAN** from the previously used computer
(see [I.9 How to deinstall my NETMAN](#))
- 3) Install the **NETMAN** on the target computer
(see [B Installation](#))
- 4) Reactivate the **NETMAN**-license on the target computer
(see [F.2 Activate the License](#))

Note:

If you use the free of charge equipment license, the relocation of the **NETMAN** will be easier.

Perform only:

Step 2) “Deinstall the **NETMAN** from the previously used computer” and
Step 3) “Install the **NETMAN** on the target computer”.

In conclusion, activate a free of charge equipment license once again.
(See [E Activate free of charge equipment license](#))

Note:

When moving the **NETMAN**, the internal database of the old **NETMAN** will be lost. All the orders, results, as well as ever registered participants and services stored in the database will then be lost. In [I.10.2 Porting of the internal NETMAN Database](#) is described, how the internal **NETMAN** database may be relocated also.

Note:

When moving an older **NETMAN** version, please check after installation of the **NETMAN** on the target computer, whether you can use a free of charge equipment license.
(See [E Activate free of charge equipment license](#))

I.10.2. Porting of the internal NETMAN Database

All orders, results, as well as ever registered participants and services are stored in the internal database of the **NETMAN**.

For further information navigate to [D.2 Setting "Built in data storage service"](#), as well as [D.3 Database-Aging](#).

When moving the **NETMAN** as described in [I.10.1 Move the NETMAN in four steps](#), the internal database of the **NETMAN** will be lost.

To avoid this, you must transfer the internal database-files from the previously used computer to the target computer manually, **after** deinstalling the **NETMAN** from the previously used computer (see [I.9 How to deinstall my NETMAN](#)).

The following database directories are used:

Directory	Operating system
C:\ProgrammData\Workshop-Net\NETMAN\DB	Windows
/var/lib/asanetwork	All Linux-Distributions

Proceed as follows when porting the **NETMAN** database:

- 1) First port the **NETMAN** from the previously used computer to the target computer (see [I.10.1 Move the NETMAN in four steps](#))
- 2) Stop the „**Workshop-Net NETMAN 6**“ service at the target computer:
 - Under Windows: Start the Windows-App "Services" and stop the service „**Workshop-Net NETMAN 6**“
 - Under Linux stop the service with:

```
$ sudo systemctl stop asa-netman.service
```

- 3) Copy all files from the database directory (see table above) of the previously used computer to the identical directory of the target computer
- 4) Restart the „**Workshop-Net NETMAN 6**“ – service again
 - Under Windows: Start the Windows app "Services" and start the service „**Workshop-Net NETMAN 6**“
 - Under Linux start the service with:

```
$ sudo systemctl start asa-netman.service
```

I.11. What is the purpose of the Demo Mode?

- In the Demo Mode the **NETMAN** is only suitable for a demonstration of **“Workshop-Net”** exclusively by **licensees** of the **“Workshop-Net”** – standard.
- **Licensees** of the **“Workshop-Net”** – standard are equipment manufacturers as well as administrative software providers (DMS), which offer a **“Workshop-Net”** – gateway within their products.
- For this purpose, in addition to the **NETMAN**, an administrative software and a workshop equipment must be installed on a demonstration notebook to simulate the workflow of a workshop order, from order entry to order completion.
- Only licensees of the **“Workshop-Net”** have access to the so-called **“SDK-Tools”**. Any workshop equipment as well as administrative software may be simulated with the SDK-Tools.

I.11.1. When and how will the Demo Mode be activated?

- After installation, the **NETMAN** runs 15 days as full version. This is the so-called trial period.
- Within this trial period the **“Workshop-Net”** may be tested free of charge
- After these 15 days, the trial license **deactivates** itself and the **NETMAN** switches to the so-called **“Demo Mode”**!
- In Demo-Mode, the **NETMAN** only allows communication to **“Workshop-Net”**- network participants that are installed on the same computer.

I.11.2. How to recognize a deactivated NETMAN in the Demo-Mode

- 6) Open the **NETMAN**-user interface on the computer with the running **NETMAN** (see [C User interface](#))
- 7) In the **“Status”** tab you may find the license information **“No license detected ...”**

State	✔ Ok
License	✘ No license detected, purchase license online or check for equipment license
Key security	ℹ The NETMAN private key is missing
Operating system	Microsoft Windows 10 Pro 21H2 .NET 6.0.4

J. COMPANY INFORMATION

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