NGI 1

User Manual
NGI 1 for "Workshop-Net"
Valid from version 1.0

2

A.   CONTENT

Conventions used in the document:

Denomination of the communication standard: **"Workshop-Net"**

Denomination of the application: **NGI**

Important expressions or denominations: "**asanetwork5**"

Hyperlinks: "www.workshop-net.net"

Cross-references within the document: "A Content"

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 NGI 1**" 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
23235	TCP	Data exchange via http
23236	TCP	Data exchange via https

These minimum requirements apply to new and update installations:

- Server 2012 R2 or newer
- Desktop Windows 8.1 or later
- Internet Explorer 10 or alternative browser

The following table lists the directories used:

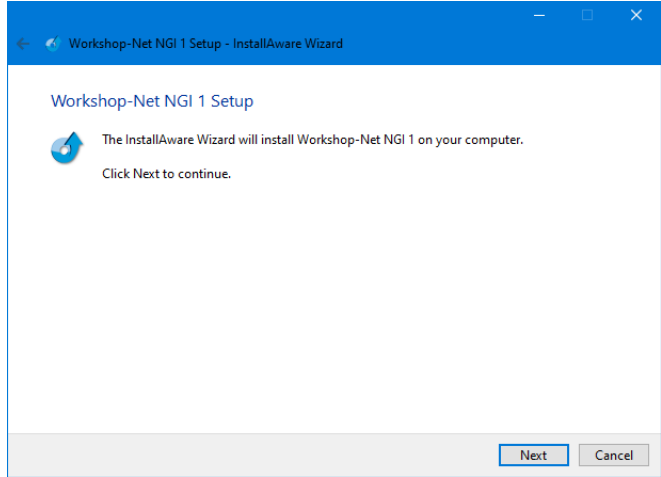| Directory	Remark
C:\Program Files\Workshop-Net\NGI	Binary files
C:\ProgrammData\Workshop-Net\NGI	Data
C:\ProgrammData\Workshop-Net\NGI\Logs	Log files
C:\ProgrammData\Microsoft\Windows\Start Menu\Programs\Workshop-Net	Start menu links

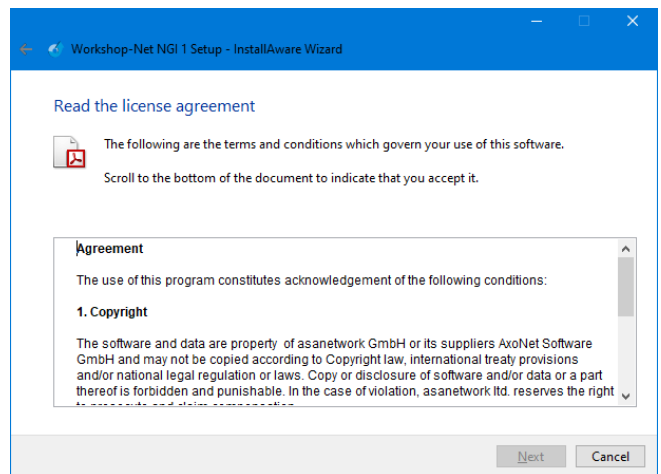## B.1.2. Procedure for new installation/update

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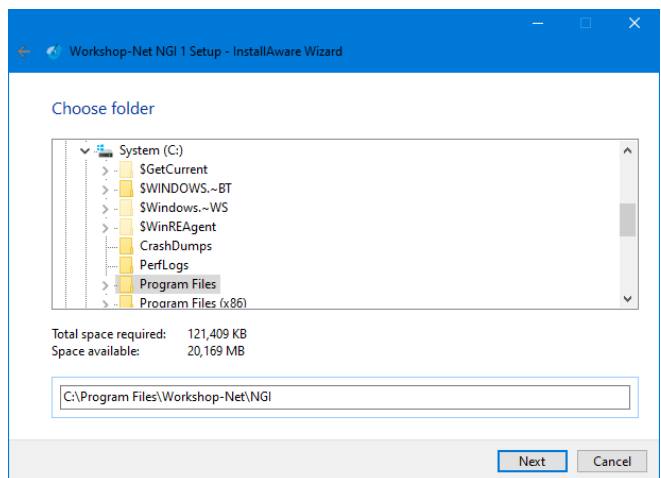
Run the Windows Setup.

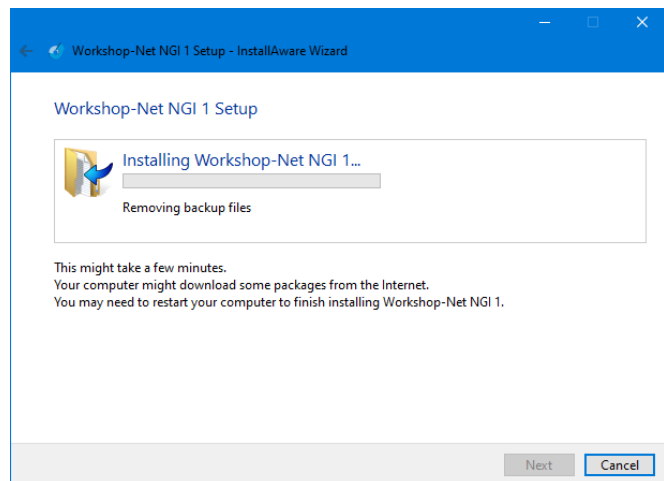A previous version may be removed first.

Accept the license terms:

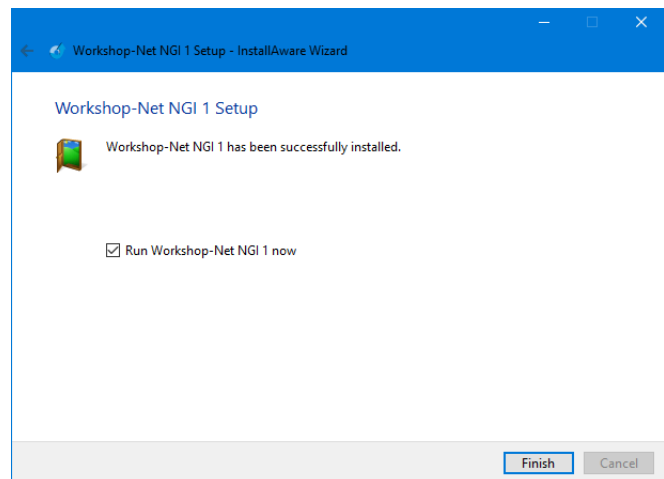Always use the suggested installation path if possible:

Click "**Next**", installation is running…

Wait until the installation is finished.

After clicking on "**Finish**" the standard browser starts with the address
http://localhost:23235/

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

B.1.3.   Protect NGI from unauthorized access

With completion of the initial NGI - installation the settings are automatically protected from unauthorized access.

After installation the settings can only be changed after authentication with an administrative account.

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\asanetwork Netman.Net

Example: NGI-1.0.0.40-x64-rel.exe /s TARGETDIR=x:\mynetman /l=c:\netman_install.log

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B.2.   Linux-Installation

B.2.1.   General Information

On Linux, a service (daemon) with the name "**ngi.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
23235	TCP	Data exchange via http
23236	TCP	Data exchange via https

These minimum requirements apply to new and update installations:

PC-Hardware

- Ubuntu 16.04 or newer
- Debian 9 or newere
- CentOS/RHEL 7 or newer
- Fedora 28 or newer
- openSUSE Leap 15 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/ngi	Binary files
/etc/ngi	Settings
/var/lib/ngi	Data
/var/logs/ngi	Log files

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

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

```
$ sudo dpkg -i ./ NGI-1.0.0.bbbb-x64-rel.deb
```

bbbb = actual build number

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

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

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

```
$ sudo dnf install ./ NGI-1.0.0.bbbb-x64-rel.rpm
```

bbbb = actual build number

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

```
$ sudo yum install ./ NGI-1.0.0.bbbb-x64-rel.rpm
```

After installation, the service must be activated and started:

```
$ sudo systemctl enable ngi.service
$ sudo systemctl start ngi.service
```

The firewall is automatically configured for the current zone.

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

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

```
$ sudo zypper install ./ NGI-1.0.0.bbbb-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 ngi.service
$ sudo systemctl start ngi.service
```

The firewall is automatically configured for the current zone.

B.2.5.   Debian based systems (RASPIAN on ARM-Hardware Raspberry Pi 3/4) 32 Bit

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

```
$ sudo dpkg -i ./NGI-1.0.0.bbbb-arm-rel.deb
```

bbbb = actual build number

No further actions are needed. The service starts automatically.

B.2.6.   Debian based systems (RASPIAN on ARM-Hardware Raspberry Pi 3/4) 64 Bit

Download the Debian-ARM64-Package (.deb) and install or update with this command_

```
$ sudo dpkg -i ./NGI-1.0.0.bbbb-arm64-rel.deb
```

bbbb = actual build number

No further actions are needed. The service starts automatically.

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
23235	TCP	Data exchange via http
23236	TCP	Data exchange via https

These minimum requirements apply to new and update installations:

- Synology DSM 7 or newer on INTEL-platform

Note:
The ARM-platform will be not supported under Synology DSM

The following table lists the directories used:

Directory	Remark
/var/packages/workshop-net-ngi	Binary files
/var/packages/workshop-net-ngi/etc	Settings
/var/packages/workshop-net-ngi/var	Data
/var/packages/workshop-net-ngi/var/log	Log files

B.3.2. Installing NGI

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

Click "**Browse**" and select the .spk package:
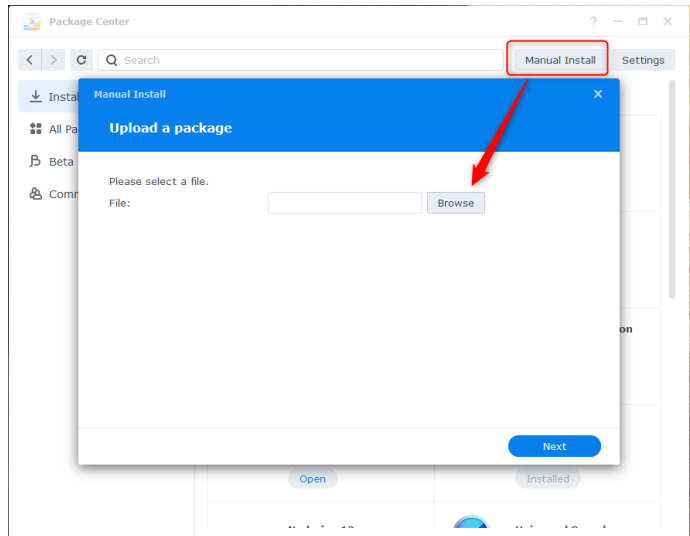
When you have selected the .spk-file,
confirm with "**Next**":
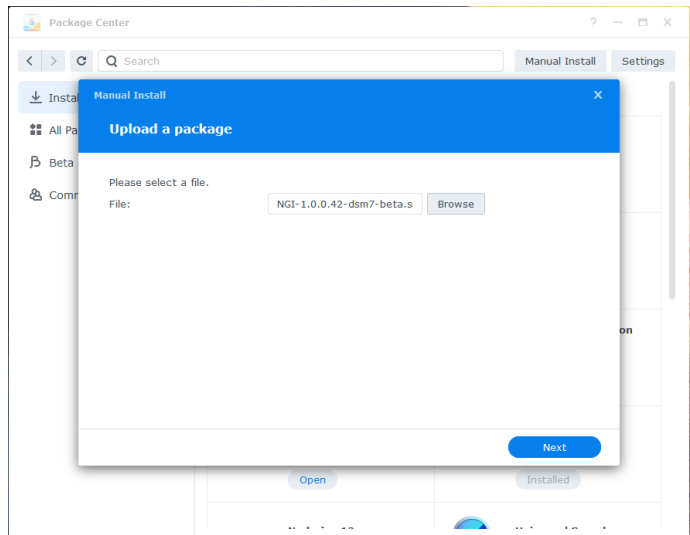
Confirm with "**Agree**":
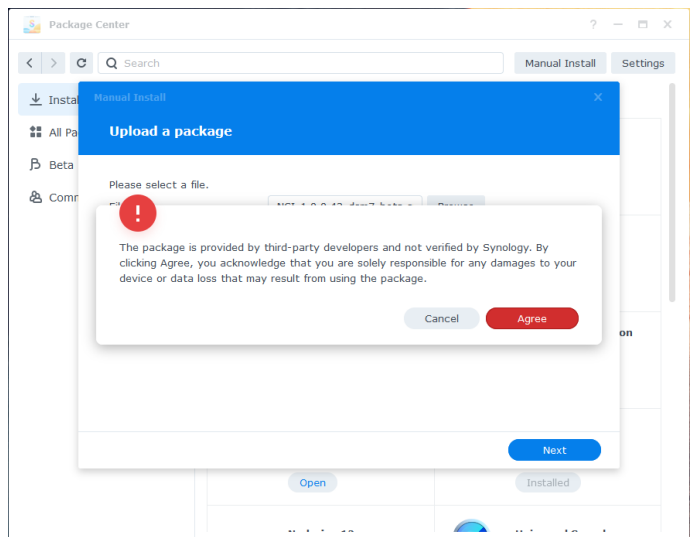
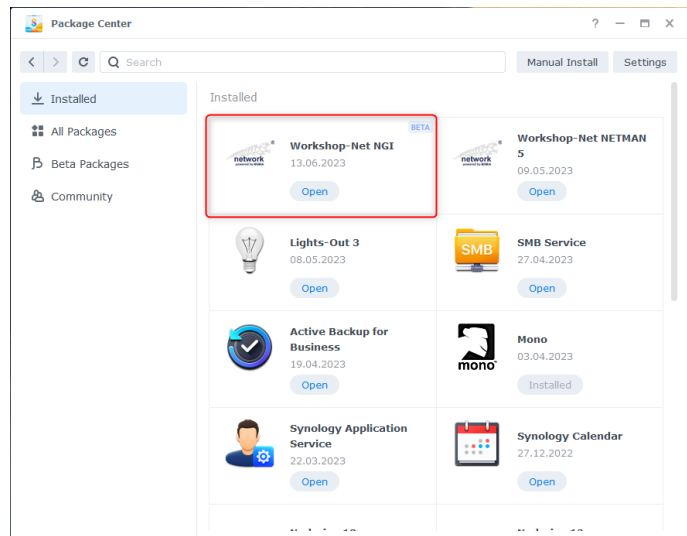Click "**Next**" and accept the license:
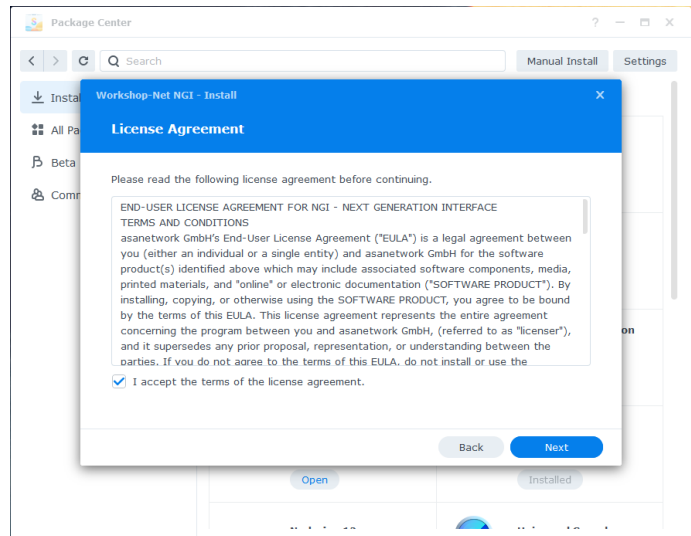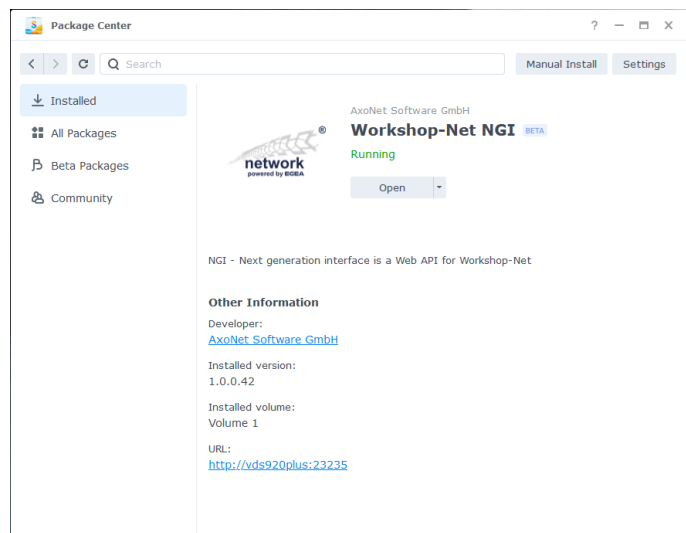

Click on "**Apply**":

Installation is running…

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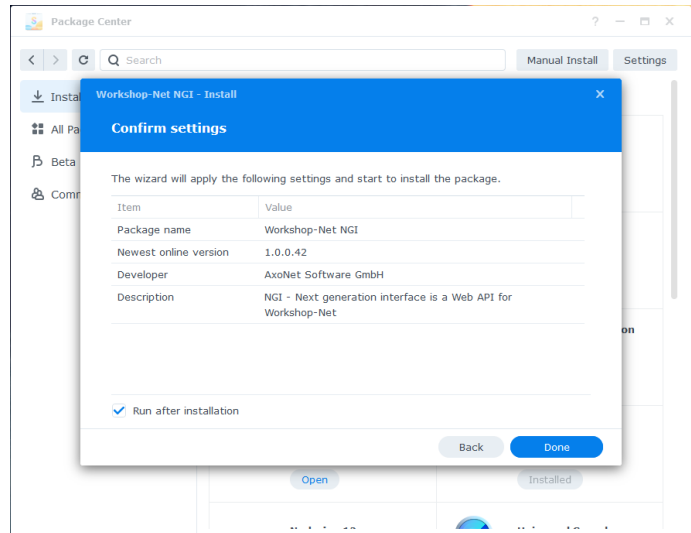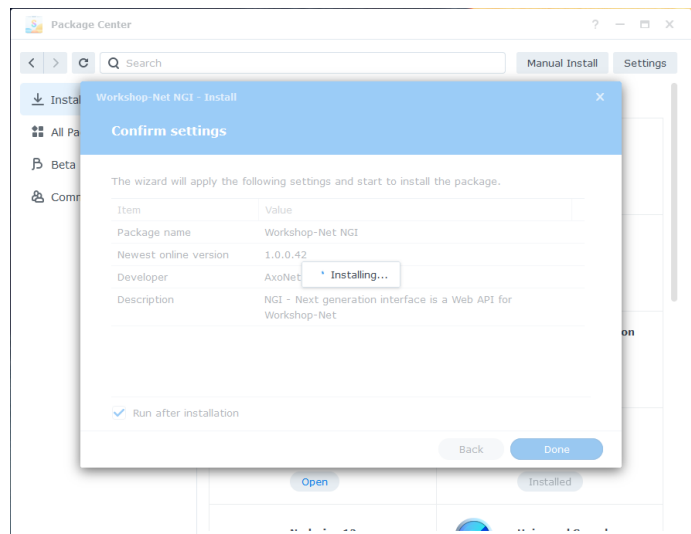
After installation, **NGI** is displayed under the installed packages:

Click on the logo or text to see more details:

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

More about this in the next section.

C. USER INTERFACE

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

At the local machine with: http://localhost:23235/

The following NGI – user interface (tab: "**Status**") appears in the browser

---
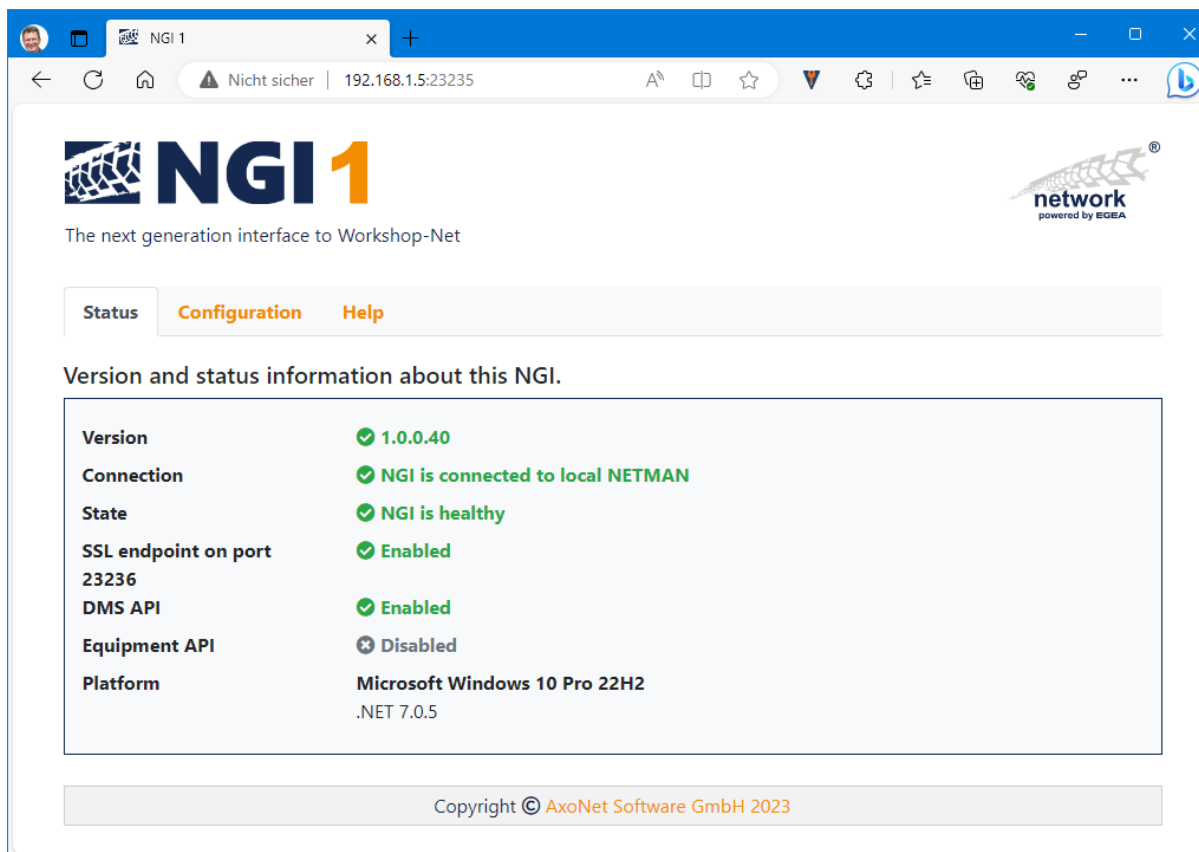
Note:
After installation, add the **NGI** – bookmark with "Strg-D" in the browser!

C.1. Version Indicator

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

Item: 2311
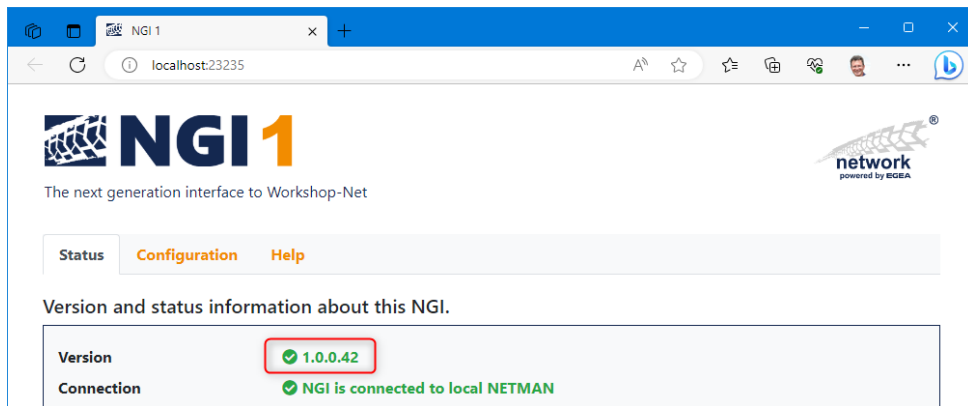
C.1.1. New version available

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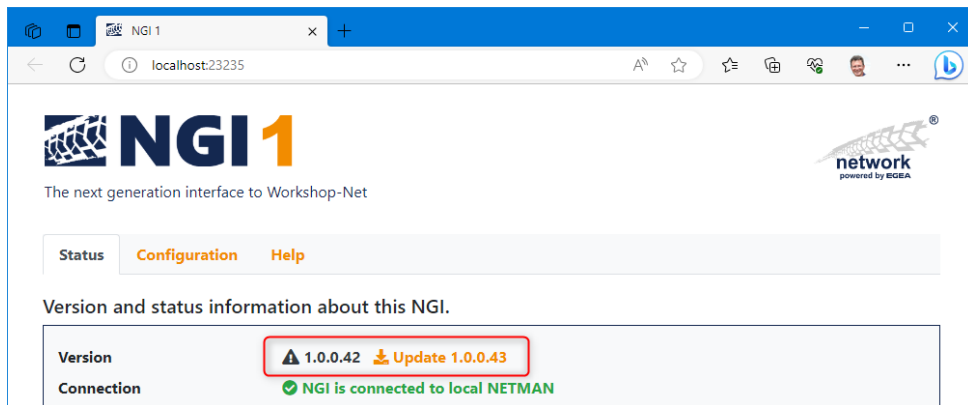
Note:

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.
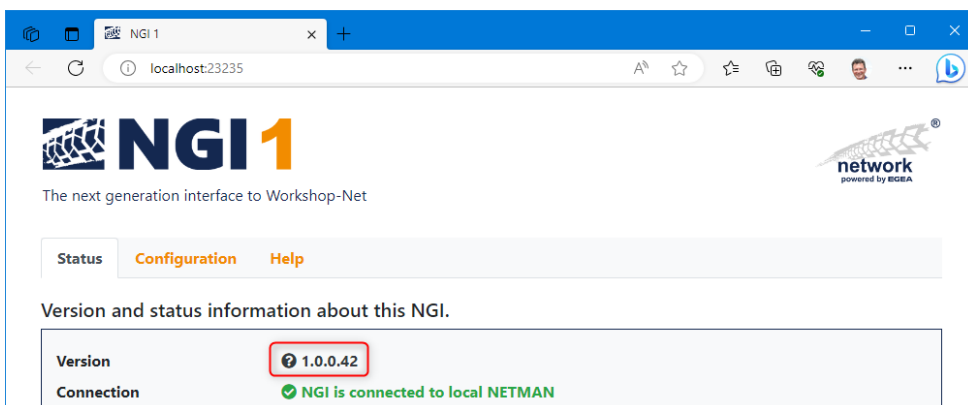
D.   CONFIGURATIONS

You may switch to the settings via the "**Configuration**" tab:
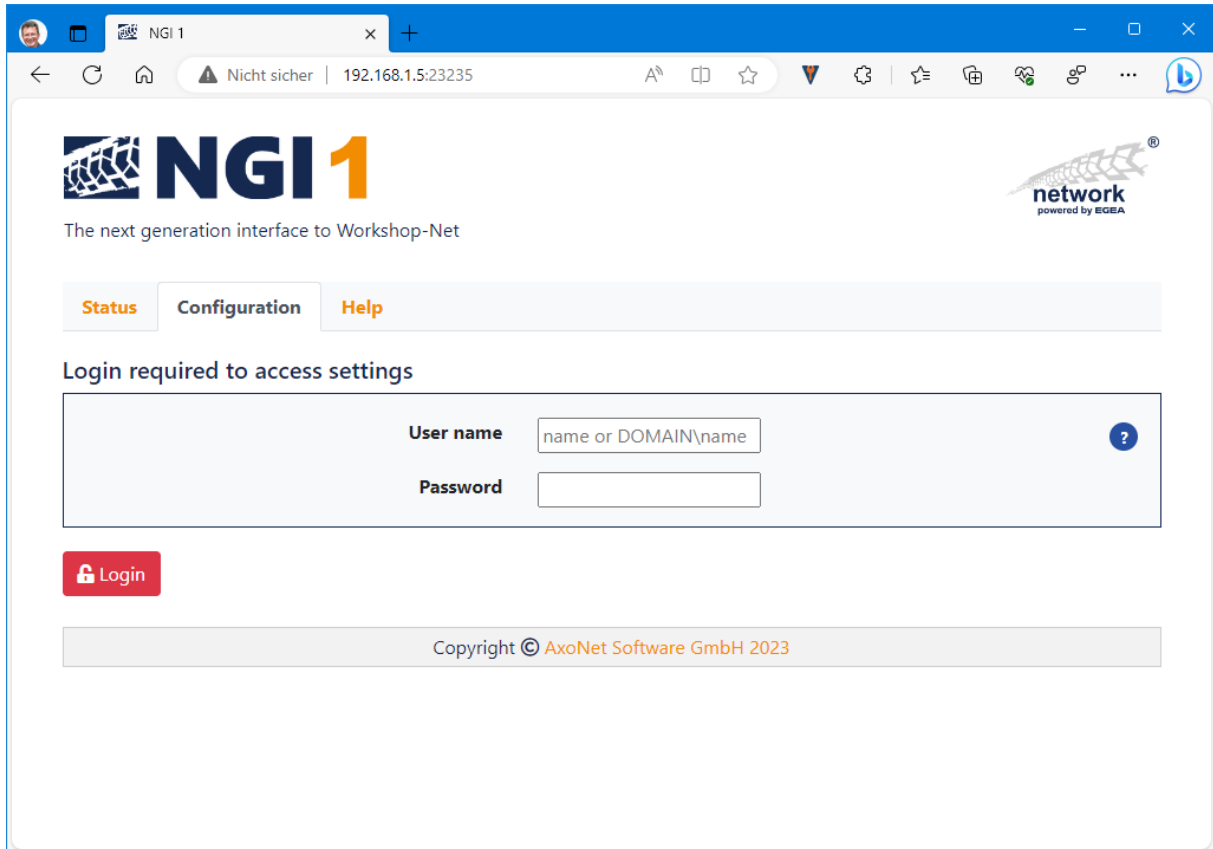
Settings require an administrative authentication first!

Use your local or domain admin account.

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

D.1. Basic settings

D.1.1. Language

Select your language here. A service restart may be necessary to see all translations.

D.1.2. Log Level

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, use the tab "Help" in the user interface and klick 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.

D.1.3. DMS-API

Enable/disable the DMS-API here.

Updates from Workshop-Net equipment is automatically redistributed (default).

D.1.4. Equipment-API

Enable/disable the Equipment-API here.

D.1.5. Cleanup outdated orders

After the set time, obsolete order data is removed from NGI and Workshop-Net.

D.1.6. Cleanup outdated results

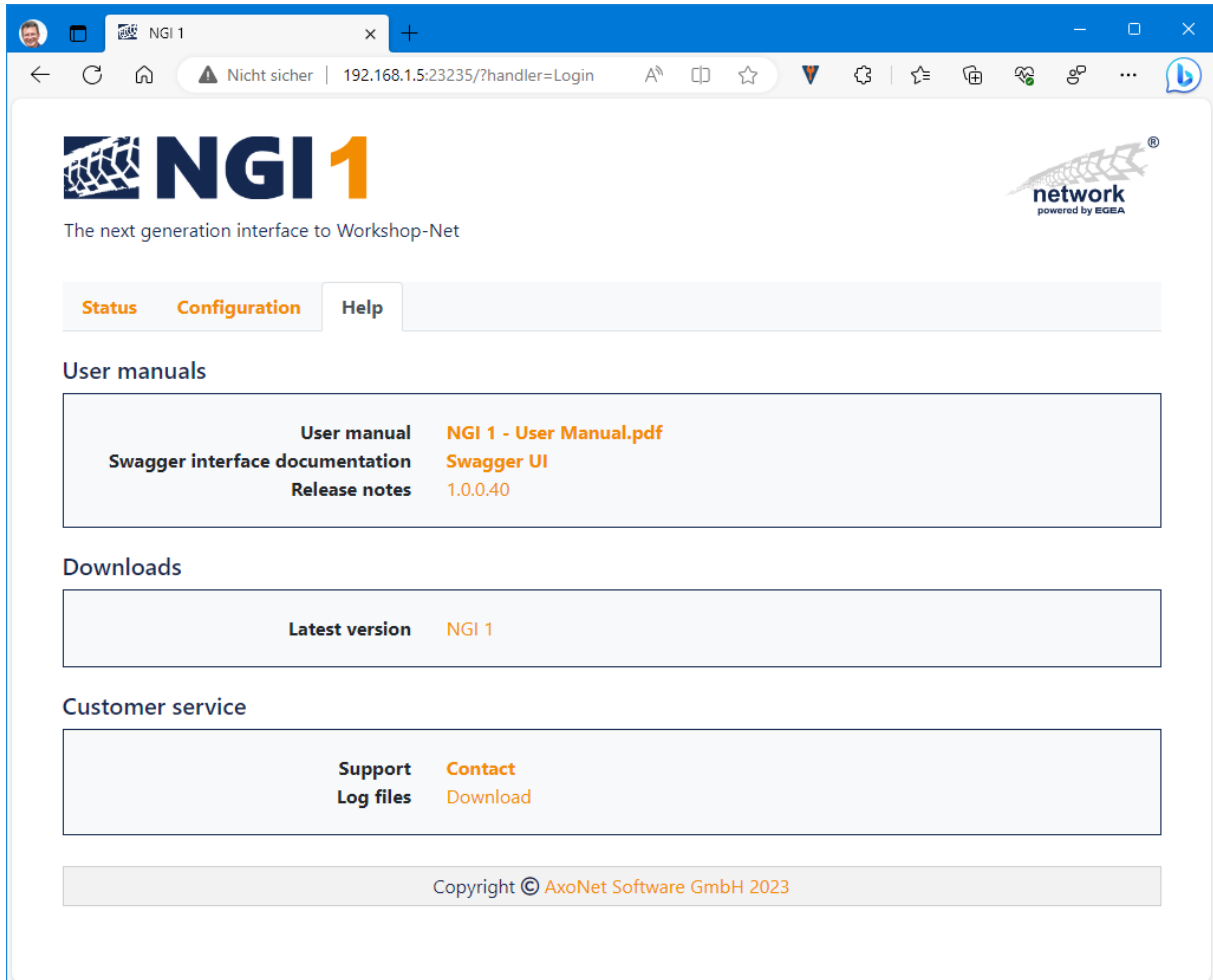After the set time, obsolete result data is removed from NGI.

D.2. SSL endpoint

NGI can provide secure access via https. To do this, a suitable certificate must be selected from the local certificate store.

If no suitable certificate is available in the local certificate store, a certificate in PFX format can be uploaded. The certificate must contain the private key and is usually protected with a password.

D.3. Help

The tab "Help" contains links for user manuals, API documentation and the link to download the log files.
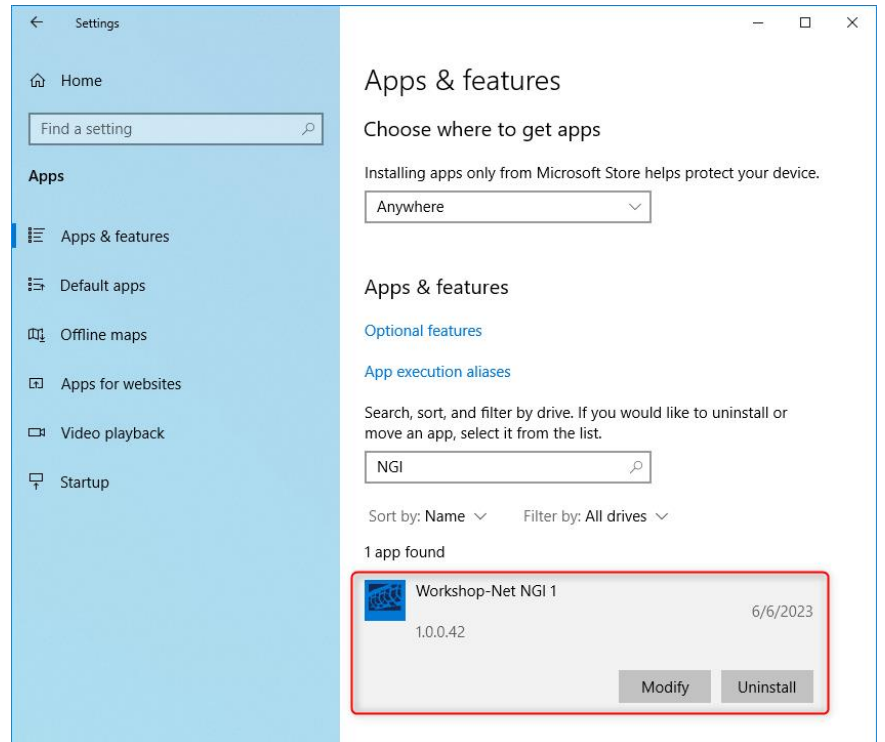
D.4. How to deinstall NGI

D.4.1. Deinstallation Windows

1) Open the Windows "**Settings**"

2) Choose the section "**Apps**"
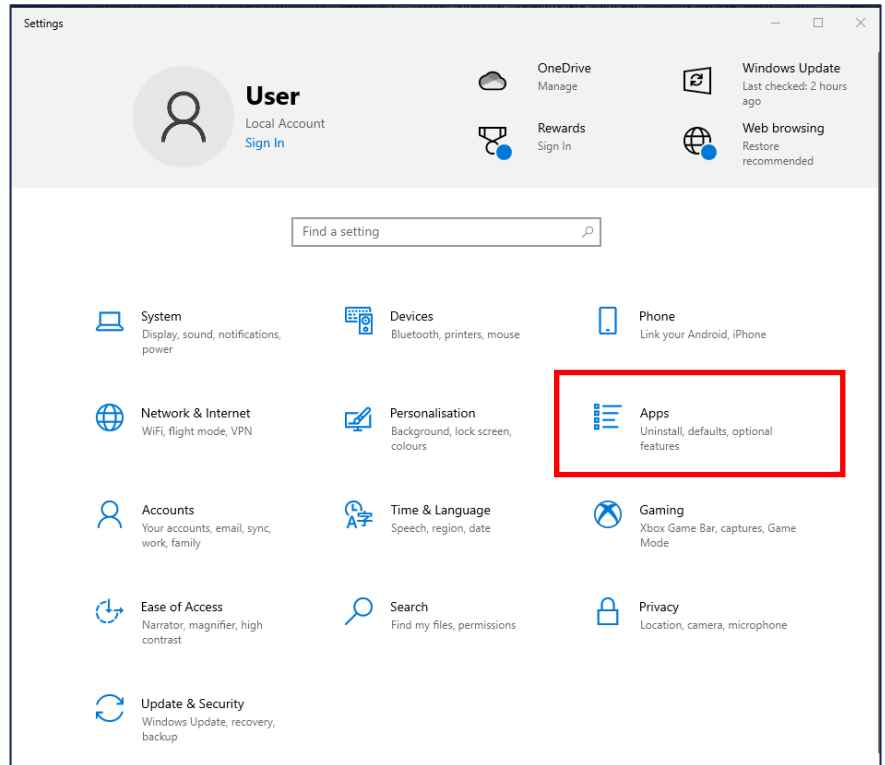
3) Look for the app "**NGI**"

4) Click on the button "**Deinstall**"

5) Follow the instructions

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D.4.2. 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 ngi
```

For Fedora resp. CentOS resp. RHEL:

```
$ sudo yum remove ngi
```

For openSUSE:

```
$ sudo zypper remove ngi
```

E.   COMPANY INFORMATION

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