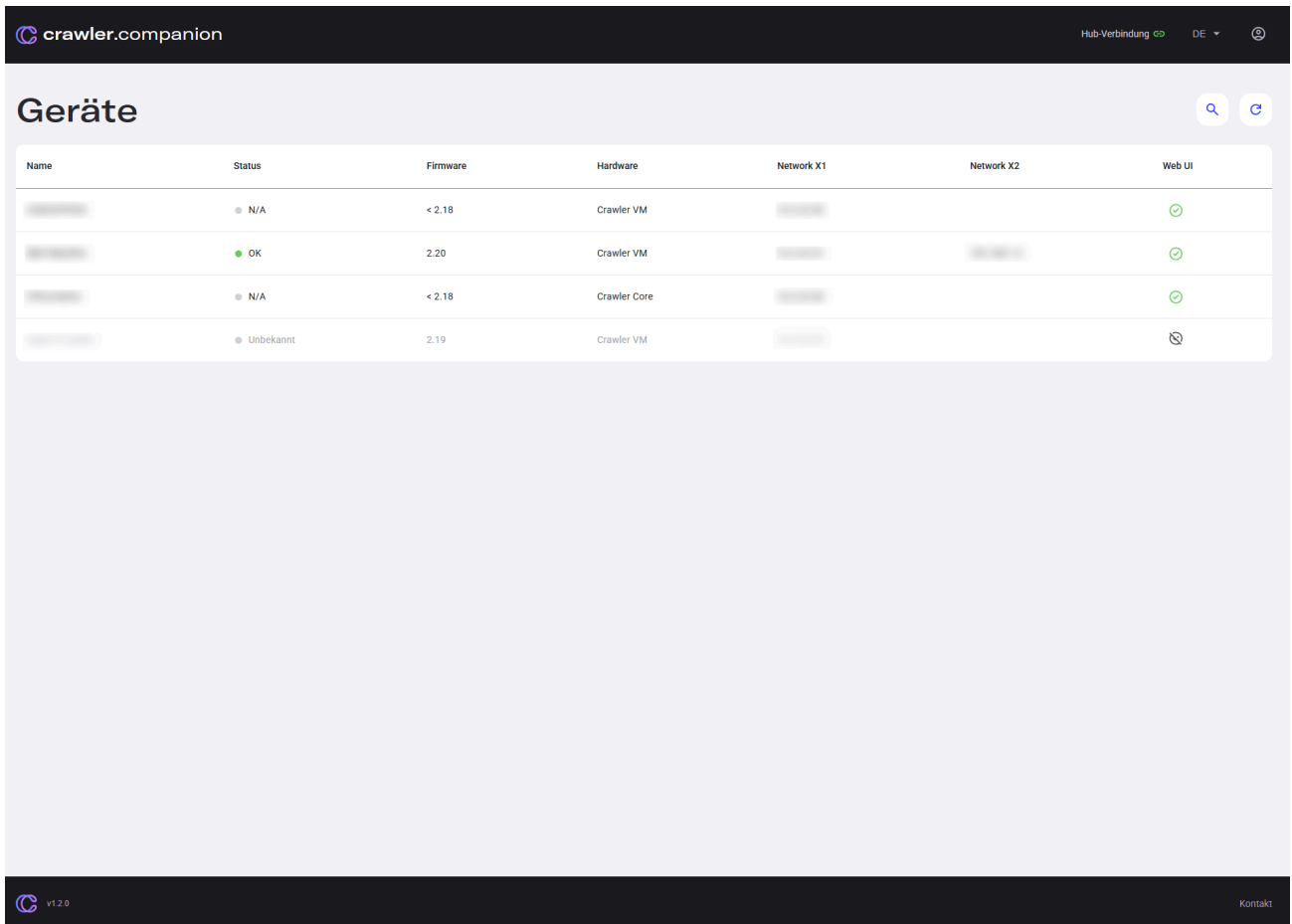




## Documentation





The screenshot shows the 'Geräte' (Devices) page in the crawler.companion application. The page has a dark header with the logo and 'Hub-Verbindung' status. The main content is a table with the following columns: Name, Status, Firmware, Hardware, Network X1, Network X2, and Web UI. There are four rows of device data, each with a green checkmark in the Web UI column. A search icon and a refresh icon are visible in the top right of the table area. The footer shows 'v1.2.0' and 'Kontakt'.

Name	Status	Firmware	Hardware	Network X1	Network X2	Web UI
[Redacted]	N/A	< 2.18	Crawler VM	[Redacted]		✓
[Redacted]	OK	2.20	Crawler VM	[Redacted]	[Redacted]	✓
[Redacted]	N/A	< 2.18	Crawler Core	[Redacted]		✓
[Redacted]	Unbekannt	2.19	Crawler VM	[Redacted]		✗



Crawler.Companion is a Windows desktop application for managing Edge devices on the local network. It covers the full device lifecycle — from discovering and configuring devices that have no IP address yet, to adjusting network settings, installing firmware updates, and exporting data across an entire fleet.

Companion is particularly useful in closed networks without internet access, where devices cannot be managed through Hub. In these environments, Companion provides all configuration and management capabilities entirely over the local network.

Crawler.Companion

Initial configuration of Edge devices on the local network.

The device list shows all Edge devices in the local network — including devices that are already configured as well as new devices that have not yet been set up. Unconfigured devices can be assigned their first network configuration directly from here.

## Functional Scope

[Section titled "Functional Scope"](#)

Device Discovery

Finds all Edge devices in the local network — including unconfigured devices with no known IP address.

#### Initial Configuration

Assigns a first network configuration to newly discovered Edge devices.

#### Network Settings

Adjust and export network settings for multiple devices without accessing each device's web interface individually.

#### Software Updates

Install firmware updates on Edge devices directly from Companion.

#### Data Export

Export data from Edge devices — especially useful in closed local networks.

#### Bulk Management

Manage multiple Edge devices simultaneously instead of accessing each web interface individually.

## Safety Notes

[Section titled "Safety Notes"](#)

#### Network Changes

Incorrect network settings can make devices unreachable. Only edit these if you are familiar with IP addresses and subnet masks.

#### Updates

Ensure stable power supply to the Edge device before installing updates.

#### Same Network Required

Your PC must be in the same local network as the Edge devices.

## Troubleshooting

[Section titled "Troubleshooting"](#)

#### Problem

#### Possible Cause

#### Solution

Device not found

Device off or wrong network

Check power and ensure same subnet as Companion PC

Network setting error

Wrong IP or subnet mask

Verify the IP is unused and in the correct range

No WebUI access

Device has unknown IP

Check current IP in device overview, access manually

Update fails

Network interruption

Check stability; ensure no firewall blocks access

A brief overview of what you can do with Crawler.Companion.

[Device List](#) [Network Settings](#) [Updates](#) [Export](#)

The main view lists all Edge devices found in your local network. Click any device row to open its detail panel, where you can view the device name, hardware type, firmware version, and current network configuration.

The screenshot shows the Crawler.Companion web interface. On the left, a table titled 'Geräte' lists several devices. The second row is highlighted in purple, indicating it is selected. The table columns are Name, Status, Firmware, Hardware, Network X1, Network X2, and Web UI. The selected device has a status of 'OK', firmware version '2.20', and hardware type 'Crawler VM'. On the right, a detailed view of the selected device is shown. It has tabs for 'Details', 'Netzwerk Einstellungen', 'Update', and 'Export'. The 'Allgemein' (General) section shows 'BMK/OKZ' and 'WebUI' with a green checkmark. The 'System' section shows 'Type: VMware Virtual Platform', 'Seriennummer', 'MAC-Adresse 1', and 'MAC-Adresse 2'. The 'Firmware' section shows 'Version: 2.20' and 'Letztes Update: 17.04.2026 15:29'. A 'WebUI' button is visible in the bottom right of the detail panel.



In the device detail panel, navigate to **Network Settings** to adjust the IP configuration of the selected device. You can switch between DHCP and static IP, and set the IP address, subnet mask, and gateway.

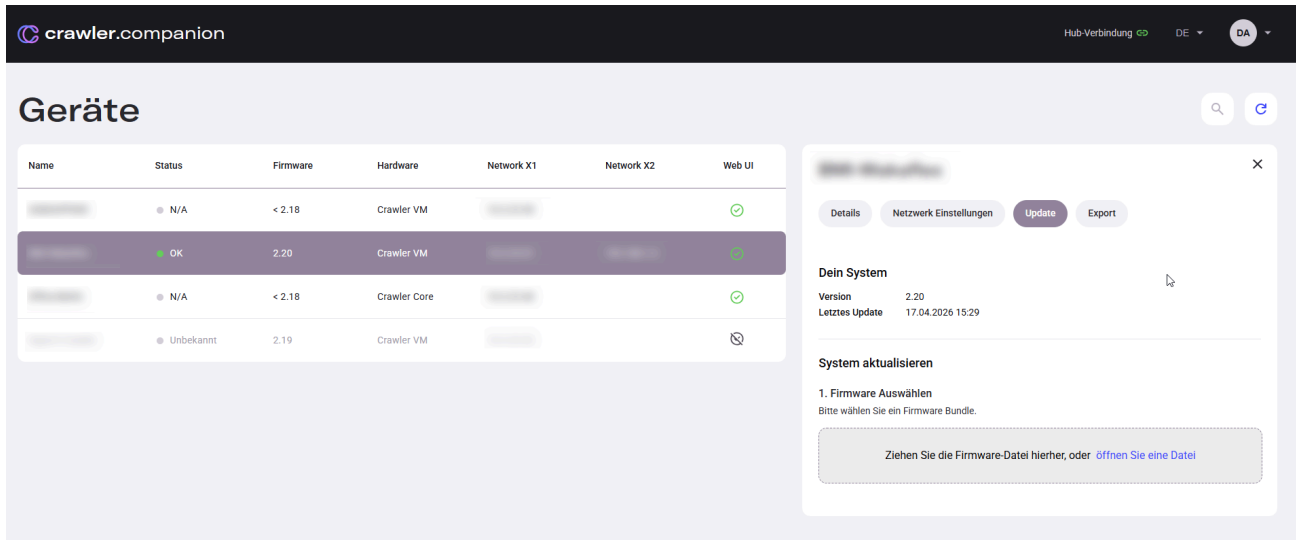
Save your changes — the device will apply the new settings and restart if necessary.

The screenshot shows the Crawler.Companion web interface. On the left, the 'Geräte' table is visible, with the same device as in the previous screenshot highlighted. On the right, the 'Netzwerk Einstellungen' (Network Settings) tab is active. It shows 'Adapter X1' with a green checkmark. Below it, there are radio buttons for 'Statische IP' (selected) and 'DHCP'. Underneath, there are input fields for 'IP-Adresse', 'Netzwerkmaske', and 'Gateway'. A blue pencil icon is visible on the right side of the settings panel.



In the device detail panel, navigate to **Update** to install a new firmware version on the selected device. Select the desired version and start the update.

Make sure the device has a stable power supply during the update.



The screenshot shows the 'crawler.companion' web interface. On the left, a table titled 'Geräte' lists devices with columns for Name, Status, Firmware, Hardware, Network X1, Network X2, and Web UI. One device is highlighted in purple. On the right, a modal window titled 'Dein System' is open, showing system details and an update option.

Name	Status	Firmware	Hardware	Network X1	Network X2	Web UI
	N/A	< 2.18	Crawler VM			✓
	OK	2.20	Crawler VM			✓
	N/A	< 2.18	Crawler Core			✓
	Unbekannt	2.19	Crawler VM			✗

**Dein System**

Version 2.20  
Letztes Update 17.04.2026 15:29

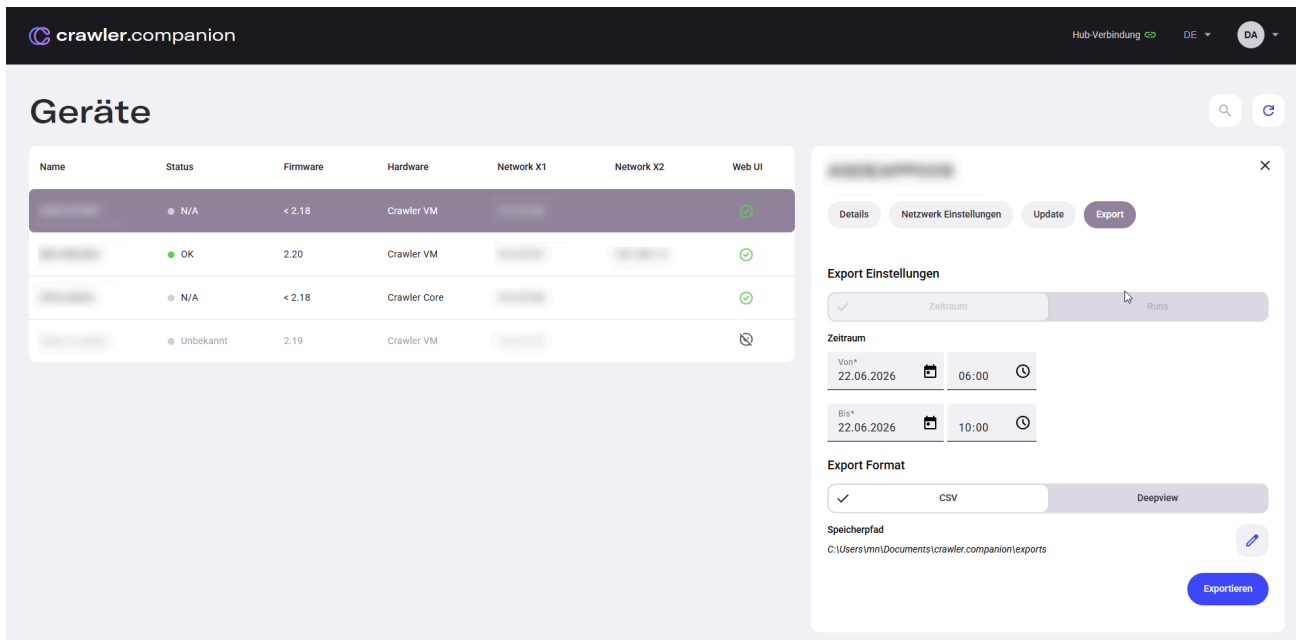
**System aktualisieren**

1. Firmware Auswählen  
Bitte wählen Sie ein Firmware Bundle.

Ziehen Sie die Firmware-Datei hierher, oder [öffnen Sie eine Datei](#)



Companion exports measurement data either by time range or by runs — defined measurement recording sessions stored on the device, each with a clear start and end. Data can be exported as a CSV file or transferred directly to DeepView, a data analysis tool for detailed signal visualization and complex charting.



The screenshot shows the 'crawler.companion' web interface. On the left, the 'Geräte' table is visible. On the right, a modal window titled 'Export Einstellungen' is open, showing export options.

Name	Status	Firmware	Hardware	Network X1	Network X2	Web UI
	N/A	< 2.18	Crawler VM			✓
	OK	2.20	Crawler VM			✓
	N/A	< 2.18	Crawler Core			✓
	Unbekannt	2.19	Crawler VM			✗

**Export Einstellungen**

Zeitraum  Runs

**Zeitraum**

Von\* 22.06.2026 06:00

Bis\* 22.06.2026 10:00

**Export Format**

CSV  Deepview

**Speicherpfad**  
C:\Users\mini\Documents\crawler.companion\exports

**Exportieren**



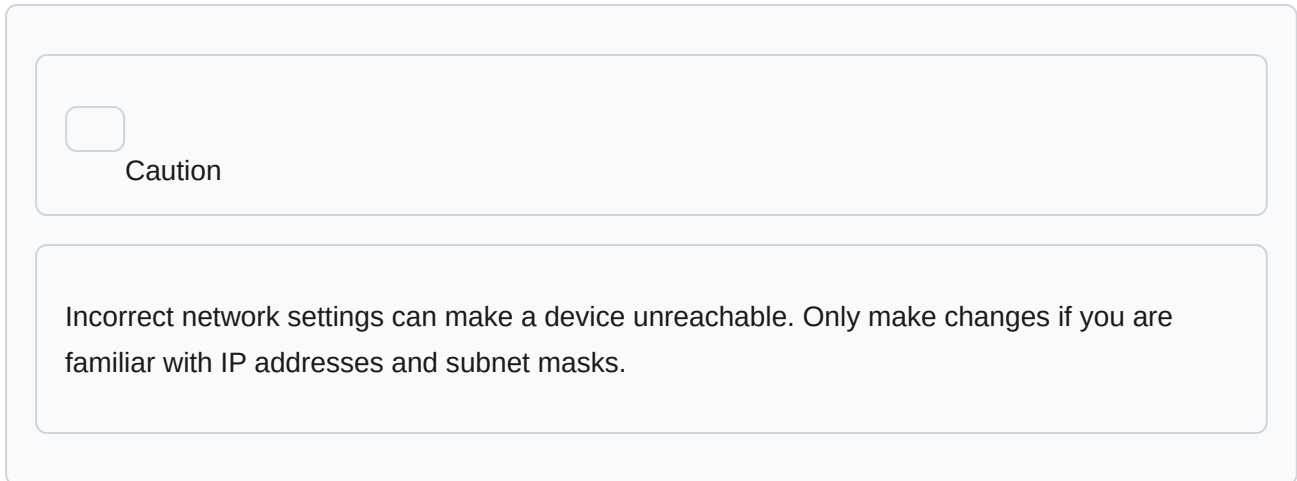
## By Time Range

- **CSV** — Set a start and end time and export all signal data in that range as a CSV file.
- **DeepView** — Transfer signal data for a selected time range directly to DeepView. DeepView opens in your browser after clicking the DeepView button.

## By Runs

- **CSV** — Select one or more completed runs to export each as a separate CSV file.
- **DeepView** — Transfer one or more completed runs directly to DeepView for analysis.

Use `Crawler.Companion` to switch an Edge device between DHCP and static IP, or to update its network address.



### 1. Select a device

Click on the device you want to configure in the device list.

### 2. Open the Network Settings tab

In the detail panel on the right, click the **Netzwerk Einstellungen** tab.

### 3. Choose an IP mode

Select either **DHCP** (the device receives its IP automatically from a router) or **Statische IP** (fixed IP address).

### 4. Enter network values (*Static IP only*)

If you selected **Statische IP**, enter the following values:

- **IP-Adresse** — e.g. `192.168.1.50`
- **Subnetzmaske** — e.g. `255.255.255.0`
- **Gateway** — e.g. `192.168.1.1`

### 5. Save the settings

Click **Speichern**. The device applies the new configuration and restarts. It will be reachable at the new IP address afterwards.

Export measurement data directly from Crawler.Companion to a CSV file — no browser or access to the device's web interface needed.



#### Step 1

Select a device

Click on the device in the list to open its detail panel.



#### Step 2

Open "Export" tab

In the detail panel, click the **Export** tab.



#### Step 3

Set time range

Set **From** and **To** with date and time.



#### Step 4

Select CSV

Under **Export Format**, select **CSV**.



#### Step 5

Check save path

Check the **save path** — pencil icon to change it.



#### Step 6

Start export

Click **Export**. The CSV file is saved.

The screenshot displays the 'crawler.companion' web interface. At the top left, the logo and name 'crawler.companion' are visible. The top right shows 'Hub-Verbindung' with a green status icon and 'DE' with a dropdown arrow. The main heading is 'Geräte'. Below it is a table with columns: Name, Status, Firmware, Hardware, Network X1, Network X2, and Web UI. Three rows of device data are shown. A modal window titled 'Export Einstellungen' is open on the right, featuring tabs for 'Details', 'Netzwerk Einstellungen', 'Update', and 'Export'. The 'Export' tab is active. It includes a 'Zeitraum' (Time Range) section with 'Von\*' (17.06.2026 07:00) and 'Bis\*' (17.06.2026 11:00) fields. The 'Export Format' section has 'CSV' selected over 'Deepview'. The 'Speicherpfad' (Storage Path) is 'C:\Users\m\Documents\crawler.companion\exports'. An 'Exportieren' button is at the bottom right of the modal. The footer shows 'v1.2.0' on the left and 'Kontakt' on the right.

Name	Status	Firmware	Hardware	Network X1	Network X2	Web UI
[Redacted]	N/A	< 2.18	Crawler VM	[Redacted]	[Redacted]	[Redacted]
[Redacted]	N/A	< 2.18	Crawler Core	[Redacted]	[Redacted]	[Green Checkmark]
[Redacted]	OK	2.20	Crawler VM	[Redacted]	[Redacted]	[Green Checkmark]



Crawler.Companion automatically scans the local network for Edge devices when it starts. No manual configuration is required to find a device.

### 1. Connect to the same network

Make sure your PC is connected to the same local network (subnet) as the Edge devices you want to find.

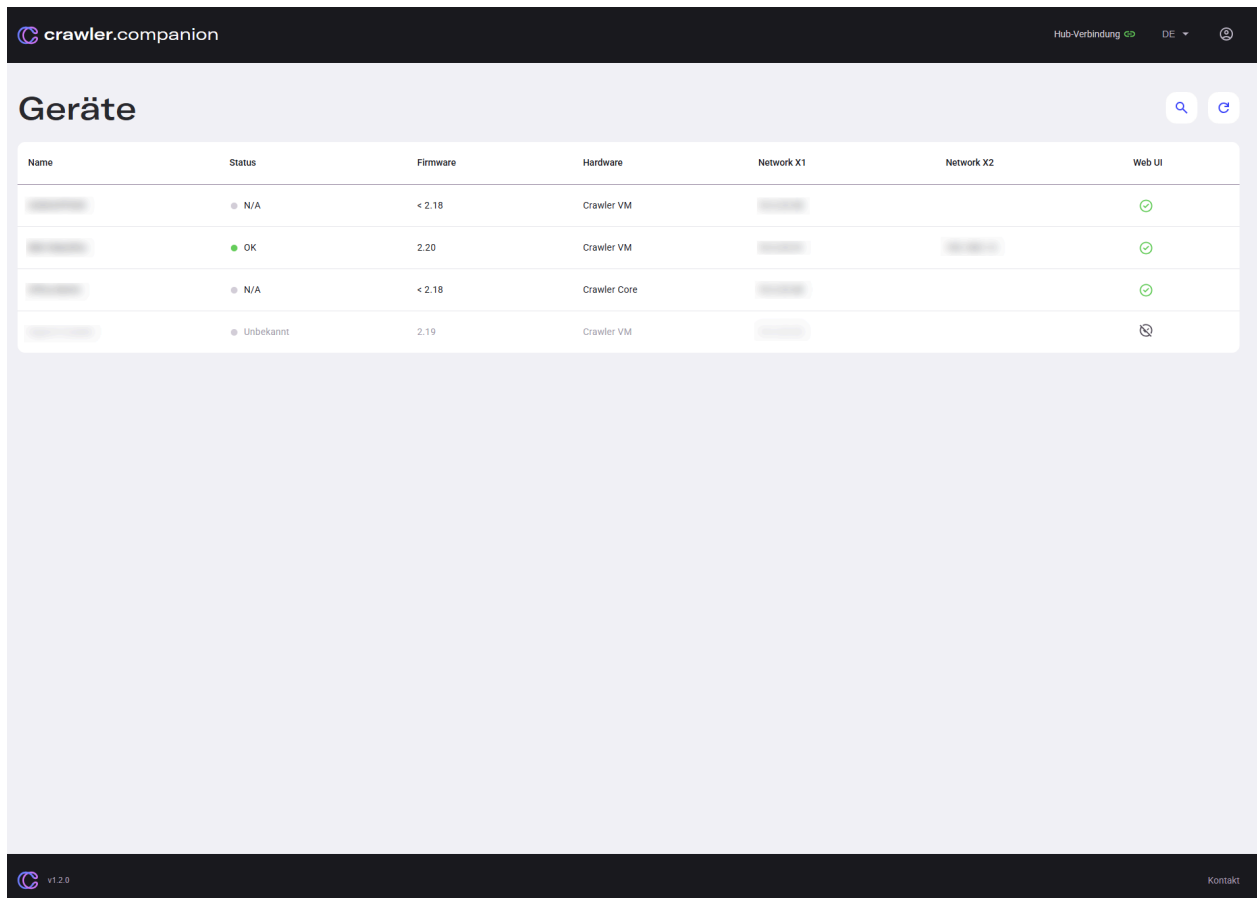
### 2. Open Companion

Launch Crawler.Companion. It immediately begins scanning for devices — no further action is needed.

### 3. Check the device list

All discovered Edge devices appear in the main device list with their name, hardware type, firmware version, and network information.

Unconfigured devices are shown with status **N/A** — they can be selected and configured directly from here.



The screenshot shows the Crawler.Companion web interface. At the top, there is a header with the logo and the text "crawler.companion". On the right side of the header, there is a status indicator "Hub-Verbindung" with a green double-checkmark icon and a language dropdown menu set to "DE". Below the header, the main content area is titled "Geräte" (Devices). There is a search icon and a refresh icon in the top right corner of this section. The main part of the interface is a table with the following columns: Name, Status, Firmware, Hardware, Network X1, Network X2, and Web UI. The table contains four rows of data:

Name	Status	Firmware	Hardware	Network X1	Network X2	Web UI
[Redacted]	N/A	< 2.18	Crawler VM	[Redacted]		✓
[Redacted]	OK	2.20	Crawler VM	[Redacted]	[Redacted]	✓
[Redacted]	N/A	< 2.18	Crawler Core	[Redacted]		✓
[Redacted]	Unbekannt	2.19	Crawler VM	[Redacted]		✗

At the bottom of the interface, there is a footer with the version number "v1.2.0" on the left and the word "Kontakt" on the right.



### 4. Select a device

Click any row to open the device detail panel on the right side.



Note

If a device does not appear, check that it is powered on and connected to the same subnet as your PC. Devices on a different subnet are not reachable via local network scan.

Each Edge device has a built-in web interface for advanced configuration. Crawler.Companion provides a shortcut to open it without needing to know the device's IP address.

### 1. Select a device

Click on the device whose web interface you want to open in the device list.

### 2. Click “Web Interface”

In the detail panel on the right, click the **Web Interface** button. Your default browser opens and navigates directly to the device's web interface.

### 3. Log in

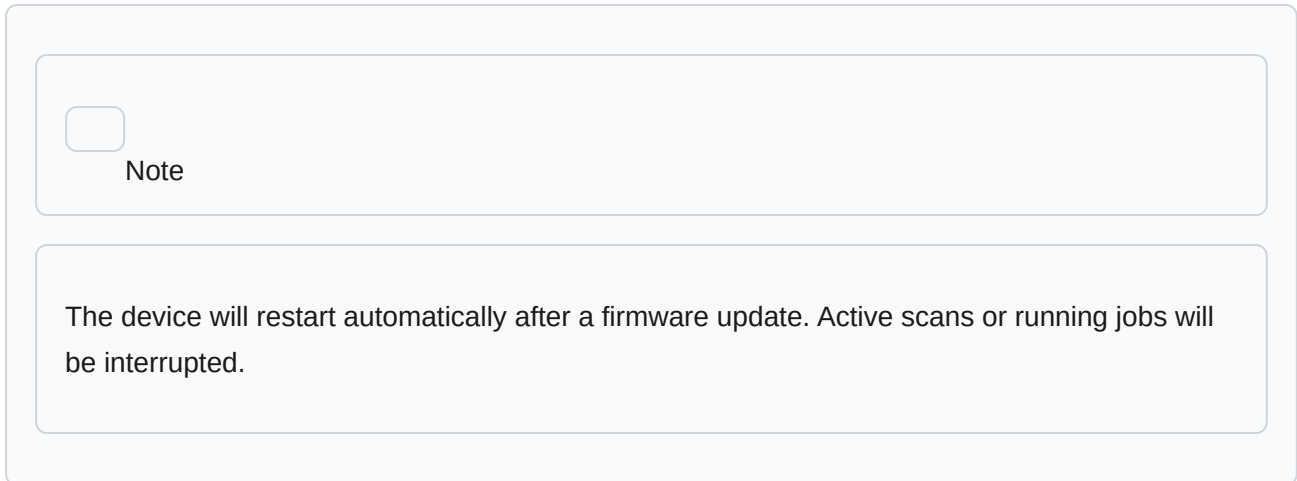
Enter the login credentials for the device. The default credentials are printed on the device label or provided in the device documentation.



#### Note

Your PC must be on the same network as the device for the web interface to load. If the browser shows an error, check that the device appears in the Companion device list and is reachable.

Crawler.Companion lets you update the firmware of connected Edge devices directly from the application.



### 1. Select a device

Click on the device you want to update in the device list.

### 2. Open the Firmware tab

In the detail panel on the right, click the **Firmware** tab. The current firmware version of the device is shown here.

### 3. Select a firmware file

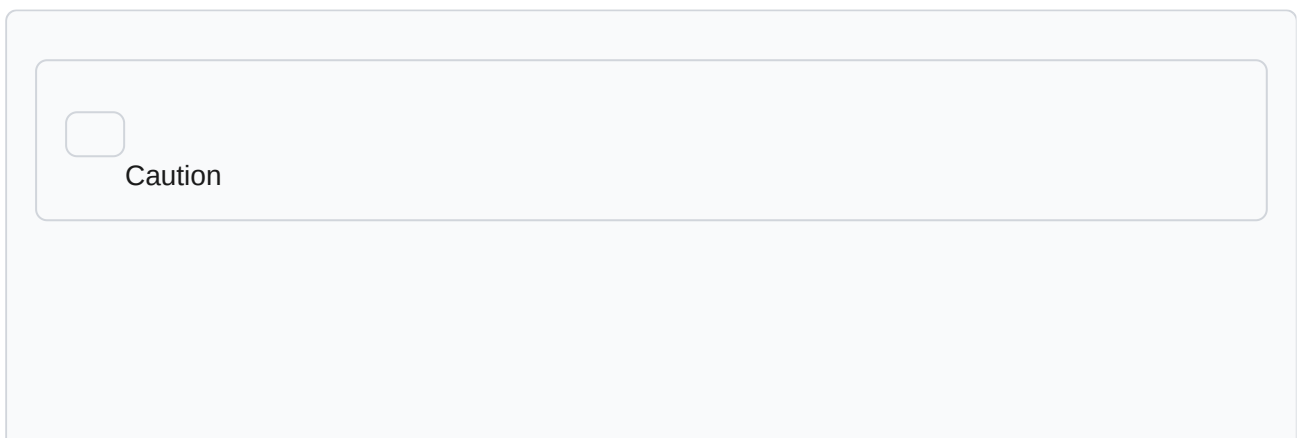
Click **Durchsuchen** and choose the firmware update file ( `.bin` ) you received from Invisyne.

### 4. Start the update

Click **Update starten**. A progress indicator appears while the firmware is transferred to the device.

### 5. Wait for the device to restart

The device restarts automatically once the update is complete. It reappears in the device list after a few seconds with the new firmware version.



Do not close Crawler.Companion and do not disconnect the device from the network during the update. An interrupted update can leave the device in an unusable state.

## View and Edit Device Details

[Section titled “View and Edit Device Details”](#)

After clicking on a device, the “Details” tab opens:

Field	Meaning
Name	Name of the device
Status	Status
WebUI	Link to the web interface of the Edge
Firmware	Currently installed version (e.g., ≤2.18) and last update.
MAC 1/2	Read-out addresses (X1 / X2).
Serial Number	Read out when available.

- **Check technical details:** After selecting a device, the customer can view all relevant technical data that goes beyond the standard overview. This may include internal serial numbers, hardware type, or specific configuration IDs.
- **Edit device name (option):** In this view, the customer has the option to change the device name on the network to simplify identification. They enter the new name and save the change.

## Search

[Section titled "Search"](#)

What the customer can do:

- **Targeted search:** With many devices, the customer can use the search and filter functions to reduce the device list to relevant entries.

## Filter

[Section titled "Filter"](#)

- **Filter by criteria:** The customer can filter devices by various criteria, such as device status (e.g., display only "Online" devices) or software version.
- **Adjust filtered view:** The filter dialog allows entering specific values (e.g., only devices with software version "V1.0.0.1") to precisely adjust the display.
- **Apply filter:** After selecting the criteria, the customer applies the filter to display only matching devices in the main table.



## “Update” Tab

[Section titled “Update” Tab](#)

1. **“Select Firmware”** → File drop zone opens Explorer/Finder.
2. **Drag bundle (ZIP) in** → Companion checks header.
3. **“Upload & Start”** → Progress bar appears.
4. **After successful flash:** Device restarts, version string updates.

- **Check software version:** The customer immediately sees which software version is currently installed on the Edge device and can determine whether a newer version is available.
- **Select update files:** They can select a new update file (e.g., a firmware package) that has either already been downloaded or is to be loaded from an external server (depending on the implementation).
- **Start update:** With a click on “Install update,” the process begins. This allows the customer to keep the Edge devices up to date quickly and securely (important for security and new features).

The Crawler.Companion software is an intuitive tool that facilitates local management of your Edge devices. Below you will find a description of the main functions based on the application's interface.

## Interface Overview and Device Discovery

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[↗ Section titled "Interface Overview and Device Discovery"](#)

- **Find devices immediately:** After starting the application, all Edge devices found in the local network are automatically listed in the central table.
- **View important data:** The customer receives at a glance an overview of the most important device data such as the device name, current IP address, status (e.g., "Online"), and installed software version.
- **Select devices:** By clicking on a device in the list, the customer can select it and access all specific management functions (details, network, update, export) via the right side of the interface.

•

## Change Language Settings

[🔗](#) Section titled “Change Language Settings”

- **Adjust language:** Via a settings menu, the customer can easily switch the display language of the Crawler.Companion software.
- **Make selection:** The interface shows a list of available languages (in the example German and English). The customer selects the desired language from the list and confirms the selection. The application then switches accordingly.

## “Network” Tab

[Section titled ““Network” Tab”](#)

- **Checkbox “Use as primary adapter”** → Determines via which port Companion responds.
- **Configuration mode**
  - **DHCP:** Device obtains IP automatically.
  - **Static:** IP, netmask, gateway can be entered freely.
- **DNS server** optional.
- **Save** → Device reboots with new values.

- **Set IP mode:** The customer can determine how the device obtains its IP address:
  - **DHCP:** The address is automatically assigned by the network.
  - **Static IP:** The customer can assign a fixed, manual address.
- **Assign static addresses:** If the customer selects Static IP, they can enter the necessary parameters themselves:
  - **IP Address** (Unique network address)
  - **Subnet Mask** (Determines the address range of the local network)
  - **Gateway** (Router address for communication outside the local network)
- **Apply configuration:** After entering the data, the customer saves it. The device adopts the new settings, which is important for permanent reachability.



## Access to the WebUI

[Section titled "Access to the WebUI"](#)

- **Direct access to configuration:** The Crawler.Companion offers a button (e.g., a globe or browser icon) through which the customer can launch the WebUI (Web User Interface) of the selected Edge device directly from the application.
- **Quick connection:** This saves manually entering the IP address in the browser and enables quick switching to detailed, browser-based management of the device.



## 1.2.0

[Section titled "1.2.0"](#)

2026-06-24

### ◆ Highlights

[Section titled "Highlights"](#)

Version 1.2.0 enables optional login via Invisyne Hub for use with DeepView and stores session data securely on the local machine. Runs can now be uploaded to a DeepView workspace and analysed there. A display error on the updater page for failed updates has also been fixed.

---

### ↑ New Features

[Section titled "New Features"](#)

- Hub Login  
Login is performed using Hub credentials. The login page follows the Hub design. Login credentials are stored locally in encrypted form, so they are retained when the application is reopened.
- DeepView Integration  
Runs and time-period based data exports can be uploaded directly from Companion into the customer's own DeepView workspace.

### ✓ Bug Fixes

[Section titled "Bug Fixes"](#)

- Updater page showed incorrect success status  
After a failed crawler update, the updater page incorrectly displayed "successful" while the main view correctly showed the failure. The status is now displayed consistently across both views.

---

### Requirements

[Section titled "Requirements"](#)

- A DeepView subscription is required for the DeepView integration.

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## 1.1.0

[Section titled “1.1.0”](#)

2026-04-16

## ◆ Highlights

[Section titled “Highlights”](#)

Version 1.1.0 adds a run data export to Companion: measurement data can be downloaded as a CSV file over a defined time period.

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## ↑ New Features

[Section titled “New Features”](#)

- Run Data Export  
Measurement data can be downloaded as a CSV file via a new run export.
- New CSV Export Format  
All CSV exports (run export and timeframe export) use a unified wide-table format from version 1.1.0 onwards: one time column followed by one column per configured measurement data point. Two header rows — one with short names and one with the full data point path — allow unambiguous identification of identically named data points. The column separator is “;”, the decimal separator is “.”. The format is optimised for direct use in Excel. The timeframe export no longer splits output across multiple files — all data is written to a single file.

## ✓ Bug Fixes

[Section titled “Bug Fixes”](#)

None.

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## Requirements

[Section titled “Requirements”](#)

- Runs are only available on Crawlers running version 2.21 or later.

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## 1.0.2

[Section titled “1.0.2”](#)

2026-03-27

## ◆ Highlights

[Section titled “Highlights”](#)

First release of Invisyne Companion — a Windows desktop application for local management of Invisyne Edge devices on the network. Devices on the same local network are automatically discovered and displayed in a unified device list.

## ↑ New Features

[Section titled “New Features”](#)

- **Device Discovery**  
Automatic search and listing of all Invisyne Edge devices on the same local network. Devices can be found and identified without manual IP entry.
- **Local Management**  
Network parameters (IP address, DNS, gateway) can be set directly. Live status and technical device data are accessible; direct navigation to the device’s WebUI is available.
- **Firmware & Software Updates**  
Firmware and software updates can be installed directly on Edge devices.
- **Measurement Data Export**  
Configured measurement data points can be exported as CSV over a selectable timeframe. If the export timeframe exceeds the configurable maximum file duration, multiple files are created automatically. The CSV files use a custom format with time, signal, and value columns.

## ✓ Bug Fixes

[Section titled “Bug Fixes”](#)

- **Device Discovery on All Network Adapters**  
Crawlers were not reliably discovered on systems with multiple network adapters. Discovery now runs stably on all available adapters without Windows Firewall conflicts.

## Requirements

[Section titled “Requirements”](#)

Requirement	Details
Operating System	Windows 10, 11
Network	PC must be physically on the same network as the Edge device

Requirement	Details
Compatibility	Crawler version 2.18 or later required for the updater and full network configuration

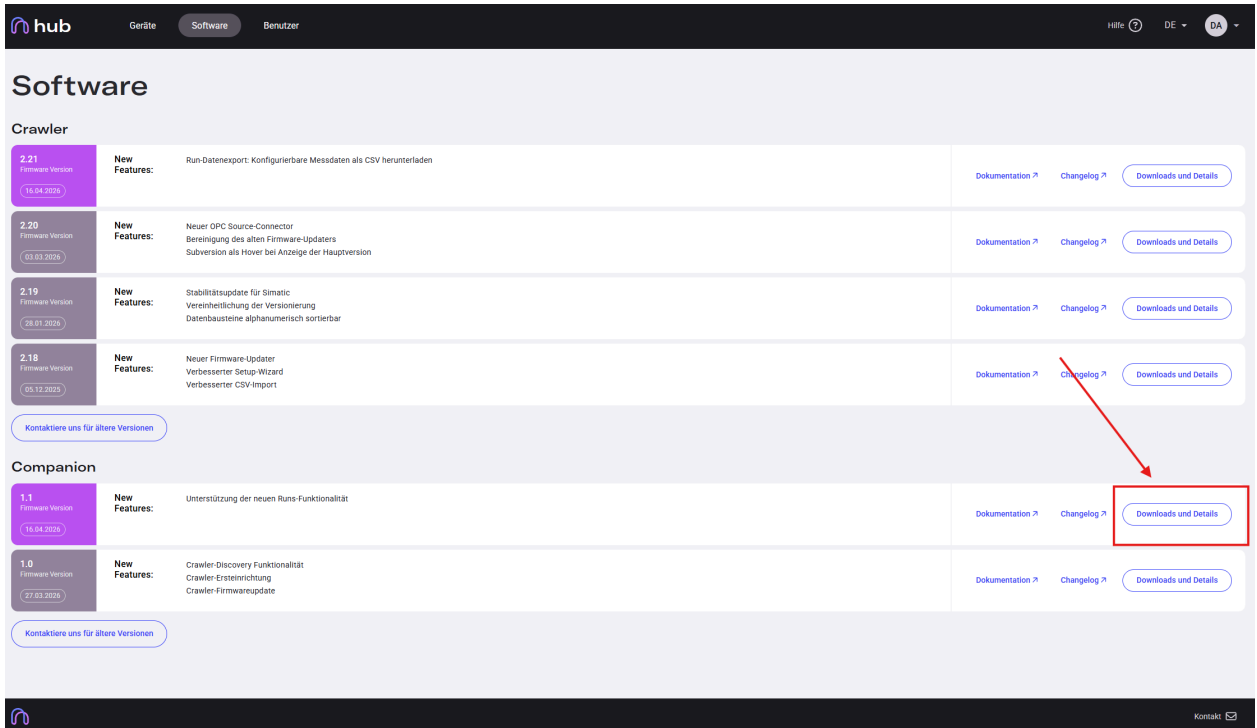
The complete Companion documentation is available as a PDF for offline reading or printing.

[Download Companion Documentation \(PDF\)](#)

Crawler.Companion does not require a traditional installation. Download the `.exe` file from the Hub and run it directly.

## 1. Hub login → Software

Log in at [hub.invisyne.com](https://hub.invisyne.com) and navigate to the **Software** section. Locate the Companion version you want to use and click **Downloads und Details**.



The screenshot shows the 'Software' section of the Invisyne Hub. It is divided into two main categories: 'Crawler' and 'Companion'. Each category lists several versions with their respective release dates and new features. For each version, there are three links: 'Dokumentation', 'Changelog', and 'Downloads und Details'. A red arrow points to the 'Downloads und Details' link for version 1.1 of the Companion software, which is also highlighted with a red box.

Version	Release Date	New Features	Dokumentation	Changelog	Downloads und Details
<b>Crawler</b>					
2.21	16.04.2025	Run-Datenexport: Konfigurierbare Messdaten als CSV herunterladen	Dokumentation ↗	Changelog ↗	Downloads und Details
2.20	01.03.2025	Neuer OPC Source-Connector Bereinigung des alten Firmware-Update-Subversion als Hover bei Anzeige der Hauptversion	Dokumentation ↗	Changelog ↗	Downloads und Details
2.19	28.01.2025	Stabilitätsupdate für Simatic Vereinheitlichung der Versionsierung Datenbausteine alphanumerisch sortierbar	Dokumentation ↗	Changelog ↗	Downloads und Details
2.18	05.12.2024	Neuer Firmware-Updater Verbessertes Setup-Wizard Verbessertes CSV-Import	Dokumentation ↗	Changelog ↗	Downloads und Details
<a href="#">Kontaktiere uns für ältere Versionen</a>					
<b>Companion</b>					
1.1	16.04.2025	Unterstützung der neuen Run- Funktionalität	Dokumentation ↗	Changelog ↗	Downloads und Details
1.0	27.03.2025	Crawler-Discovery Funktionalität Crawler-Erstenrichtung Crawler-Firmwareupdate	Dokumentation ↗	Changelog ↗	Downloads und Details
<a href="#">Kontaktiere uns für ältere Versionen</a>					



## 2. Download the file

On the version detail page, click the **Download** button on the right side. A ZIP archive (e.g. `crawler.companion-v1.2.0.zip`) will be saved to your computer.

The screenshot shows the 'Firmware Version 1.1' page on the Invisyne Companion website. The page is divided into several sections: 'Neue Features' (New Features), 'Versionshistorie' (Version History), 'Release Notes — Companion 1.1.0', 'Highlights', 'New Features', 'Bug Fixes', and 'Requirements'. On the right side, there are two boxes: 'Downloads' and 'Dokumentation'. The 'Downloads' box contains a blue button labeled 'Download (6.25 MB)'. A red box highlights this button, and a red arrow points from the 'Release Notes' section to it. The 'Dokumentation' box contains a link to 'Dokumentation →'.



### 3. Extract and run

Extract the ZIP archive and double-click the `.exe` file inside.

The screenshot shows a Windows File Explorer window with the address bar set to 'Downloads > crawler.companion-v1.2.0.zip'. The window displays a table of files extracted from the ZIP archive:

Name	Typ	Komprimierte Größe	Kennwortgeschützt	Größe	Verhältnis	Änderungsdatum
crawler.companion-v1.2.0.exe	Anwendung	9.003 KB	Nein	22.041 KB	60%	12.05.2026 13:56



### 4. On Windows: confirm the security prompt

Windows SmartScreen may block the launch. Click **Weitere Informationen** (More info).



Then click **Trotzdem ausführen** (Run anyway).



## 5. Companion opens

Crawler.Companion is now running.

To ensure smooth operation of Crawler.Companion, the following minimum requirements must be met:

Category	Minimum	Recommended
Operating System	Windows 10 (64-bit)	Windows 11 (64-bit)
Processor (CPU)		
Memory (RAM)		
Hard Disk Space		
Network		
Required Software	WebView2 (supported on Windows 10 SAC 1709 and newer)	Included by default

## Software Prerequisites

[Section titled "Software Prerequisites"](#)

- Local administrator rights are required for installation and for functions that affect network traffic (e.g., device discovery).
- The firewall must allow Companion to communicate via the required discovery port (by default a UDP port).