



NUMEN BOX SOHO Release v. 1.2.0
Release note - 17.10.2022

Thank you for buying Numen Box Soho (Release version 0.0.1). These release note provide the information you need about the product features.

In Numentech we are working to create a secure ecosystem with the focus on our customer: balancing high quality and simplicity, to allow you aim the full control of your cybersecurity protection. Our Numen Box SOHO is a hybrid network security solution powered by blockchain technologies. This product combines the NGFW technology with a distributed intelligence infrastructure that allows customers to register specific traffic logs (relevant for cyber threats detection) and, in case of cyber-attack, enables legal evidence to be collected.

For the development of Numen Box SOHO, we have developed our own operating system Numen BSD, which is based on [FreeBSD](#) operating system. Our IPS/IDS engine is based on [Suricata](#), which quickly identifies, stops, and evaluates even the most sophisticated cyber-attacks. Our Firewall system is based on [OPNsense](#) which has been adapted and modified to match the designed features of our product.

Main Features:

1. Protect your network through IPS/IDS
2. Protect your network through Firewall
3. VPN Client
4. Certificate
5. Manage devices
6. Customize WIFI setting
7. Analyse network reports
8. Keep the software updated & save settings backup
9. Give remote control to Customer Service

The Numen Dashboard is the Numen Box interface. Note that some of these features, will be available only as settings options for advanced users (you can choose whether you want to login as a basic or advanced user).

There you can:

1. Protect your network through IPS/IDS

IPS is acronym for Intrusion Prevention System. It is network security software that looks for malicious activity and establishes a security policy, blocking or allowing filtered traffic. IDS is acronym for Intrusion Detection System. It is a system that monitors network traffic and generate alerts when a suspicious activity or incidence is detected.

- Threats detected and blocked

In the Dashboard homepage you can visualize data about threats detected and blocked, in the last 24h, 7 or 30 days.

- Customizable IPS

Our IPS is customizable according to your specific needs. You will be able to check which rules are enable, and you can disable the ones that are limiting and generate alerts when a suspicious activity or incidence is detected. Rules will be always update automatically from our servers. Furthermore, you can add new rules based on SSL/Fingerprint, to create a completely customized protection.

2. Protect your network through Firewall

A firewall is network security software that analyses incoming and outgoing network traffic, designed to block unauthorized access.

- Ports management

Port management is essential for communication between Numen Box and external devices (server, endpoint, IoT devices, which use a specific port for establish and manage a communication). Everything should be an automatic process, but some applications require certain ports to be open manually. Also, when setting up a server inside a Numen Box managed network, opening ports is essential to give access for clients to the mentioned server.

- Block devices

You will be able to block access to your network based on its MAC address.

3. VPN Client

Numen Box offers the possibility to set a VPN (Virtual Private Network) connection. The supported configurations standards (or protocols) are Wireguard and OpenVPN.

- The Wireguard client accepts configuration input as plane text file. In case to opt for manual configuration, the requested fields must be manually filled.
- The OpenVPN client accepts configuration input as a file (.ovpn). Fields can be configured manually as well.

4. Certificate

This feature allows the user to configure their certificates, which are currently required to configure VPN Clients.

- Add a new certificate.
- Edit an existing certificate.
- Delete a certificate.

5. Manage devices

Numen Box offers the possibility to check the devices connected to the network, classify them for type and enable/disable the access to the protected network.

- Connected devices
 - Visualise devices connected in real time.
 - Visualise the devices connected over time, since the last reset.
 - Classify device by category (by changing name and type).
 - Block/Unblock devices access to the network.

6. Customize WIFI setting

Since we have hidden all the technical complexity of Wi-Fi configuration, behind a user-friendly interface, you will be setting the most important aspect of your Wi-Fi. Furthermore, if you need more privacy and security, you can also hide the network or turn off it, when you do not use it.

- SSID (network name) & Password

It is recommendable to change Wi-Fi name and password as soon as possible, after starting use Numen Box.

- Wi-Fi standards

By switching between 2.4 and 5Ghz, you will be able to improve the coverage (higher for 2.4Ghz) or the speed (higher for 5Ghz) of the wifi connection.

- Channel

By default, Numen Box chooses a Wifi channel automatically, however you can choose between 2.4GHz channels or 5GHz channels, interference, and gain bandwidth quality.

- Encryption & Wireless security protocol

Numen Box has compatibility with the latest and most secure encryption and security protocols. For compatibility, older encryption, and security protocols (e.g., TKIP and WAP) are supported as well.

7. Analyse network reports

Numen Box generates different reports, which help you to visualize:

- Health

- System:

The System section collects sensor data related to system usage, such as memory use, processes, and CPU temperature.

- Packets:
The Packets section collects the number of packets per second traveling to and from a certain interface (LAN, WAN or Wi-Fi).
- Traffic:
The Traffic section collects traffic data for each of the interfaces (LAN, WAN, Wi-Fi).
- Traffic
 - You will be able to analyse these threats detected and blocked, grouped by categories.
 - On live traffic reports IN/OUT
- Blockchain
The table shown contains the information recorded in the logs of your Numen Box. Logs are selected and collected according to the specific requirements, based on the application of relevance criteria in cyber security standards

8. Keep the software updated & save settings backup

Keeping the system updated with the latest software version available and having automatic backup of the system configuration is the recommended option, but both functionalities can be disabled from the Dashboard, at "Settings->Update".

9. Give remote control to Customer Service

For any issue which is not solvable through consulting our FAQ section, user can contact our support services using the direct chat channel. The support service, to solve the problem, may request the remote access to manage the settings of your Numen Box. For this, there is a button in Settings->Remote assistance that generates a pin number. Handing this number to the customer service access to remote control of the Numen Box for a configurable amount of time.