NUMEN BOX SOHO Release v. 2.1.0
Release note – 27.06.2023

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.

Numen Box SOHO is a network protection solution, an NGFW (Next Generation Firewall), which, in addition to inspecting network traffic and blocking intrusion attempts, allows you to collect evidence with legal value in the event of an attack on your digital environment. Designed for micro, small and medium-sized companies, Numen Box SOHO is equipped with a Plug&Play system and constantly updated detection intelligence, which guarantees the total operability of your equipment and the protection of your network.

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 Server.
4. VPN Client [OpenVPN, WireGuard].
5. Certificate.
6. Connected devices management.
7. Customizable Wi-Fi setting.
8. Analysis reports.
9. Update and Backup configurations.
10. Remote control for the assistance service

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

1. Protection through IPS/IDS.

IPS stands for Intrusion Prevention System. It is a network security software that looks for malicious activities and establishes a security policy, blocking or allowing filtered traffic.

IDS stands for Intrusion Detection System. It is a system that monitors network traffic and generates alerts when suspicious activity or incidents are detected.

- Threats detected and blocked.

On the main Dashboard page, you can view data on detected and blocked threats, over the last 24h, 7 or 30 days.

- Customizable IPS.

Our IPS is customizable according to your specific needs. You can check which rules are enabled, disable ones that are limiting, and generate alerts when suspicious activity or incidents are detected. Rules will always be updated automatically from our servers.

2. Protection through Firewall.

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

- Port management

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

- Block devices

You can block access to your network based on its MAC address.

3. VPN Server.

This functionality offers the possibility to configure a VPN server on the Numen Box, to access the protected network.

Through the Numen Box Dashboard, users can easily create a VPN, generate all the necessary configurations for the management of identities and access to the network.

This type of solution is particularly functional for those companies that have remote work teams that need to access the organisation's resources. It is helpful in any other situation in which, being outside the protected network, the traffic needs to be filtered by our IPS/IDS.

Currently, the VPN Server is developed with the WireGuard protocol. It is one of the most modern protocols, which provides more speed, simplicity, and better behaviour with re-connections (roaming).

4. VPN Client [WireGuard, OpenVPN].

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.

5. 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.

6. Connected devices management.

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.
- Viewing devices connected in real time.
- Viewing the history of the connected devices over time since the last reset.
- Classifying the devices by category (by changing name and type).
- Blocking/unblocking a device's access to the network.

7. Customizable Wi-Fi setting.

We have simplified 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.

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

- Wi-Fi standards
Switching between 2.4 and 5Ghz, can improve the coverage (higher for 2.4Ghz) or the speed (higher for 5Ghz) of the Wi-Fi connection.

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

- Encryption & Wireless security protocol
Numen Box is compatible with the latest and most secure encryption and security protocols. For compatibility, older encryption, and security protocols (e.g., TKIP and WAP) are also supported.

8. 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, Wi-Fi, VPN Server, VPN Clients).
  - Traffic History:
    The Traffic section collects traffic data for each of the interfaces (LAN, WAN, Wi-Fi, VPN Server, VPN Clients).

- Traffic
  - Analyse threats detected and blocked, grouped by categories.
  - Live IN/OUT traffic reports visualization

9. **Update & backup of configurations.**

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".

10. **Remote control for the assistance 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.