

BONDIX S.A.NE

RELEASE NOTES

October 2022

Bondix S.A.NE Clients are downward compatible, meaning newer builds can be operated with older server versions and still function well. In order to fully benefit from all new features to their full extend though, we recommend you update your Bondix S.A.NE server to the latest version. Please find more information on how to do that at the end of this document.

You can find and download the correct Bondix S.A.NE for your device here: [Bondix S.A.NE Releases](#).

NEW FEATURES

TCP Transport Mode

With this October release, TCP transport mode is now available and can be enabled clientside by selecting the appropriate channel preset. It utilizes (unencrypted) TCP instead of UDP for data transport. The TCP Transport Mode may improve performance with high-bandwidth links, at the cost of increased latency.

Determent of Search Engines

Search engines can be very nosy and thus can pose a security risk. To prevent indexing by search engines, a "robots.txt" and meta tags have been added as standard to your Bondix S.A.NE Client and/or Server.

DNS Record Alternatives

To increase the accessibility and reliability of your Bondix S.A.NE setups, you can now use multiple IPs for alternative servers in your server DNS records. This ensures your infrastructure to be accessible even if one or more of your servers fail or are attacked.

IMPROVEMENTS

Client

- Client now supports Teltonika Firmware Release 07.02.7.

FIXES

Client/Server

- An issue where packets were not sent under certain conditions has been fixed. It would cause packets not to be sent but be marked as such, resulting in self-inflicted packet loss.

INSTALLATION OF BONDIX S.A.NE SERVER

1 Preparations

To install the Bondix S.A.NE Server, you will need a few minutes of stable Internet, a web browser, and possibly some coffee or tea.

1.1 Supported browsers

The following browsers have been tested to function properly with Bondix S.A.NE:

- Google Chrome
- MS Edge
- Mozilla Firefox

1.2 Installing the Linux VM (Ubuntu 20.4)



For the installation, you will need root rights.

Set your firewalls to the following settings:

S.A.NE server port shares

- TCP: 443, 80
- UDP: 44343

SSH (Optional): 22

Make sure your server has a public static IP and is reachable from the Internet.

Execute the following script in the terminal window of your server to download the latest version of the S.A.NE server:

```
wget https://releases.bondix.dev/endpoint/install-bondix-server.sh
```

```
System information as of Sun 27 Feb 2022 10:12:14 AM UTC

System load:  0.0          Processes:           103
Usage of /:   7.6% of 18.47GB Users logged in:      1
Memory usage: 7%          IPv4 address for eth0: 49.12.238.202
Swap usage:  0%          IPv6 address for eth0: 2a01:4f8:c0c:7273::1

0 updates can be applied immediately.

The list of available updates is more than a week old.
To check for new updates run: sudo apt update

Last login: Sun Feb 27 10:09:35 2022 from 5.10.4.168
root@ubuntu-2gb-nbg1-1:~# wget https://releases.bondix.dev/endpoint/install-bondix-server.sh
--2022-02-27 10:17:19-- https://releases.bondix.dev/endpoint/install-bondix-server.sh
Resolving releases.bondix.dev (releases.bondix.dev)... 85.235.65.227
Connecting to releases.bondix.dev (releases.bondix.dev)|85.235.65.227|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 3930 (3.8K) [application/octet-stream]
Saving to: 'install-bondix-server.sh'

install-bondix-server.sh      100%[=====] 3.84K  --.-KB/s  in 0s

2022-02-27 10:17:19 (468 MB/s) - 'install-bondix-server.sh' saved [3930/3930]

root@ubuntu-2gb-nbg1-1:~# |
```

To start the installation, enter the following commands:

```
chmod a+x install-bondix-server.sh
sudo ./install-bondix-server.sh
```

Confirm all the following prompts with the Enter key for a standard installation.

```
root@ubuntu-2gb-nbg1-1:~# chmod a+x install-bondix-server.sh
root@ubuntu-2gb-nbg1-1:~# sudo ./install-bondix-server.sh
Bondix S.A.NE Server Installation 0.1
=====
Installation Directory [/opt/bondix]:
Network interface for outgoing traffic [eth0]:
Downloading server package...
Extracting files...
Generating certificate...

Creating systemd service
Created symlink /etc/systemd/system/multi-user.target.wants/bondix.service → /etc/systemd/system/bondix.service.

Please copy your license.json file to /opt/bondix/server to complete the installation.
Afterwards, run 'systemctl restart bondix'. Without a license, the server will eventually stop working.

Web interface:
  https://49.12.238.202/      User: admin    Password: Vz1stfe/vI4IhQ7i
Real-Time tunnel monitor & debug settings:
  https://49.12.238.202/config Password: Vz1stfe/vI4IhQ7i

You can change your credentials by editing /etc/saneserver.json

Done!
root@ubuntu-2gb-nbg1-1:~#
```

After completing the installation, you can reach the S.A.NE server web interface at the IP address shown. Log in with the username “admin” and the password previously generated during installation.

A screenshot of the Bondix web interface login form. It has a light gray background. At the top, it says "Username" and "Password" in a small font. Below "Username" is a text input field containing "admin". Below "Password" is a text input field with masked characters (dots). To the right of the password field is a small icon for toggling password visibility. At the bottom right is a dark gray button with the text "Login". At the bottom left, the text "Login failed" is displayed in a small font.