IXON router manual for operating Top Cleaner

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1. Foreword

Dear client

Your Top Cleaner greenhouse deck cleaner is equipped with a 4G router that allows you to remotely control and monitor the machine. When the Top Cleaner gives an error message, a push notification will be sent to the connected devices.

The router is already equipped with an activated SIM card. The prepaid SIM card with global coverage is provided with 2GB data credit and should be upgraded by you in time.

2. Installing application

2.1. Download app

Download the IXON application for IOS or Android and install the app on your mobile device.

(click on the images below)

2.2. Entering account information

There is a sticker in the door of the control box on the platform with your login information as shown below:

remote+xxx@vdwaay.nl
DnuTTbwILkhj

Open the IXON app and enter your login details. *Tip* multiple people can sign up with the same login details.

3. Starting up router

Make sure the electrical power on the machine is on. The 4G router will now automatically connect to an available network. This will take a few minutes. The router has two LEDs which will first flash red.
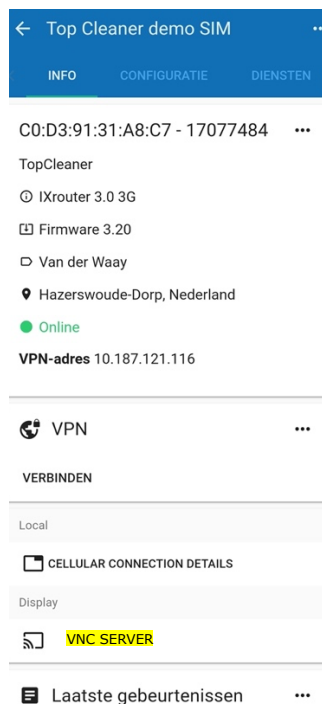Once the router has a good connection, both LEDs on the router will be on solid blue.

If the LEDs continue to flash red or blue, see troubleshooting router.

4. Connecting to the Top Cleaner operation display

In the app, press VNC SERVER to connect to the machine and take over the operation display.
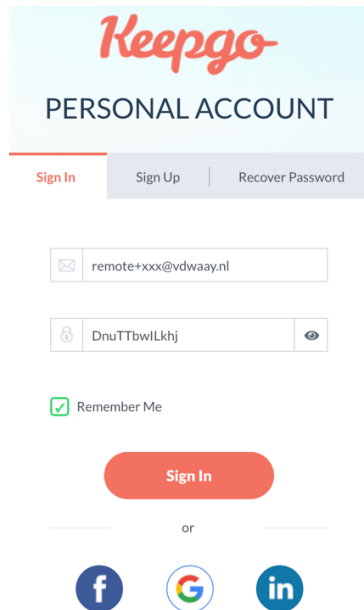
5. Your SIM card

Your Keepgo sim card with global coverage comes with a data bundle of 2GB. The credit has an unlimited shelf life, provided you purchase new data at least once a year. You do this as follows:

5.1. My account at Keepgo plaform

Go to the Keepgo website and press My Account.
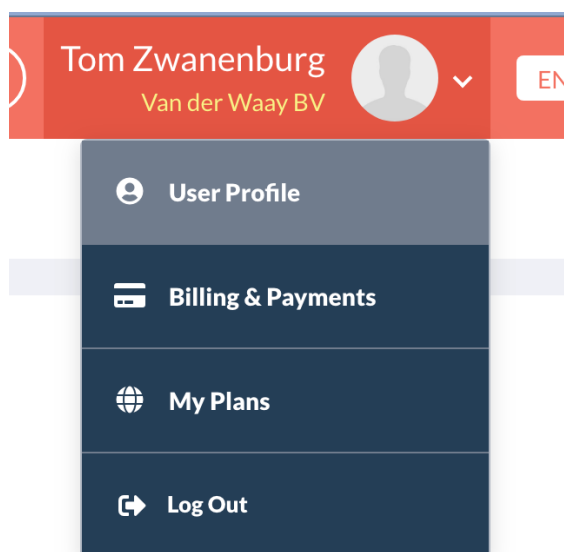Login with the email address and password as shown on the sticker in the door of switchboard platform.

5.2. Change account details

We recommend changing your account information immediately. Go to user profile and change your name, email address and password there.

Name

Change your name. Your name will be displayed in your
Personal Account and will be used to contact you.

Name

Your own (company) name ✏️

Email

Change your email address. After you enter your email
address, you will need to confirm it.

Email

Your email@address ✏️

Password

Keep in mind that in order to keep your account safe, we don't
allow you to use any recently used passwords.

Current Password

Your password ✏️

5.3.   Upgrading data credit

Press Lines

Keepgo

‹

**Get up to
5GB FREE!**

\+ **Add a new line**
Download eSIM

Lines
Lifetime Plan

🛒 **Buy A Line** 🗗
for family and friends
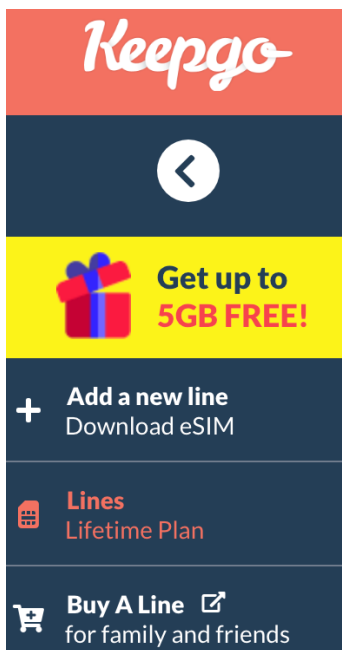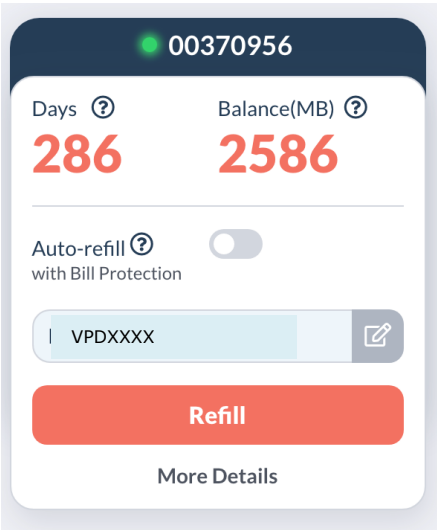
You will now see your SIM card details, with the remaining data balance.
The name entered is the serial number of the platform. We advise you not to change this name.

Press Refill and purchase data credit.

Please note, we recommend monitoring data usage in the beginning so you don't purchase data bundles that are too large. After all, you will need to top up again within a year.
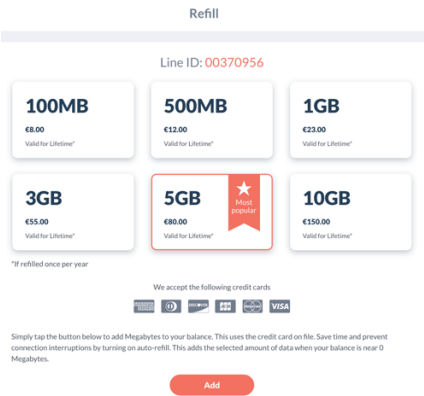
6. Troubleshoot

It may happen that a connection to the router cannot be made. This can have several causes.
The Ixon router is equipped with two indication LEDs, both of which can change color and also
blink in a certain pattern.
Each color and flashing pattern has a meaning which is explained below (in English only).

Signal LED (.ᵢᵢᵢ)

■■■■■■■■■■	Blinking blue	This means the cellular module is being initialized. Please wait for the IXrouter to finish. You will see a different LED status shortly.
■ ■ ■ ■ ■ ■	Blinking red **one** pulse	This means the IXrouter is unable to connect to the network: 1) An incorrect APN 2) No reception 3) No internet data 4) Sim card is not yet activated or unlocked
■■ ■■ ■■ ■■	Blinking red **two** pulses	This means the IXrouter can't unlock the SIM card. The PIN code may be incorrect or the PUK code may be required.
■■■■ ■■■■ ■	Blinking red **four** pulses	This means the SIM card is invalid or missing.
■■■■■■■	Solid red	This means the IXrouter is connected, but has poor reception.
■■■■■■■	Solid purple	This means the IXrouter is connected, and has medium reception.
■■■■■■■	Solid blue	This means the IXrouter is connected, and has good reception.

Activity LED (ACT)

![red solid]	Solid red	This means the IXrouter is booting or not registered. If you've already registered the IXrouter, please wait a minute for the IXrouter to finish booting. You will see a different LED status shortly.
![red one pulse]	Blinking red **one** pulse	This means the IXrouter is waiting for internet access: 1) No internet data 2) Sim card is not yet activated or unlocked 3) The network may require confirmation or login via a webportal before you're actually given internet access, which the IXrouter is unable to do 4) The local IT department may choose to only allow internet access to specific devices, based on i.e. the MAC address or IP address
![red three pulses]	Blinking red **three** pulses	
![red four pulses]	Blinking red **four** pulses	This means the router was removed from the IXON Cloud, and you'll have to register it again via USB flash drive.
![red five pulses]	Blinking red **five** pulses	This means the router was previously registered at your company on the IXON Cloud. You'll have to remove the old registration first and then register it again via USB flash drive.
![blue one pulse]	Blinking blue **one** pulse	This means the IXrouter is connecting to the IXON Cloud. You will see a different LED status shortly.
![blue two pulses]	Blinking blue **two** pulses	This means the IXrouter is setting up a VPN connection. The IXrouter may be prevented/blocked from setting up a VPN connection if this takes longer than 2 minutes.
![blue solid]	Solid blue	This means the IXrouter has an active VPN connection to the IXON Cloud. The device is online on the IXON Cloud.

7.Using a SIM card from another provider

Please note *that replacing the Keepgo SIM card for any SIM card will result in the inability to connect to the Top Cleaner!*

7.1.   Which sim card is needed

- Format: 2FF
- Suitable for data only
- Make sure you know the APN name. Check with your provider.

7.2.   Modify router configuration

Before inserting the new SIM card into the router, the configuration of the router needs to be adjusted. Follow the steps below:

1. Turn off the power to the machine
2. Insert the included USB stick into a computer

3. Open the file on the USB stick
4. Change the APN name and, if necessary, the PIN as highlighted below

```
Router information:
IXrouter
Version:    3.0
Wan:       C0:D3:91:32:57:77
Lan:       C0:D3:91:32:57:78
Serial:    17099354

Linux release:
DISTRIB_ID='IXrouter3'
DISTRIB_RELEASE='0.16.2'
DISTRIB_REVISION='r7989-82fbd85747'
DISTRIB_TARGET='ramips/mt7621'
DISTRIB_ARCH='mipsel_24kc'
DISTRIB_DESCRIPTION='IXrouter3 0.16.2 r1'
DISTRIB_TAINTS='no-all busybox'

IXagent release:
IXrouter3/0.16.2 (IXrouter; 3.0 4Q3) OpenWRT/r1.r7989-82fbd85747 IXagent/0.5.17 (WiFi) (libixagent/0.9.1;
OpenSSL/1.0.2u; OpenVPN/2.4.5 [OCC] [OpenSSL/1.0.2u via --version]; stunnel/5.41; libixlogger/0.4.6)

IXagent configuration:
ixrouter.wan.multiwan_policy=eth_cell_wifi
ixrouter.wan.3g_apn=internet.keepgo
ixrouter.wan.3g_pincode=0000
```

5. Save the changes
6. Switch on the power at the machine
7. Wait two minutes so that the router can start up again
8. Insert the USB stick into the router
9. Switch off the machine power after 5 minutes
10. Insert your new SIM card into the router. You should hear a click.
11. Switch the power back on