

Track & Trace

User Manuel



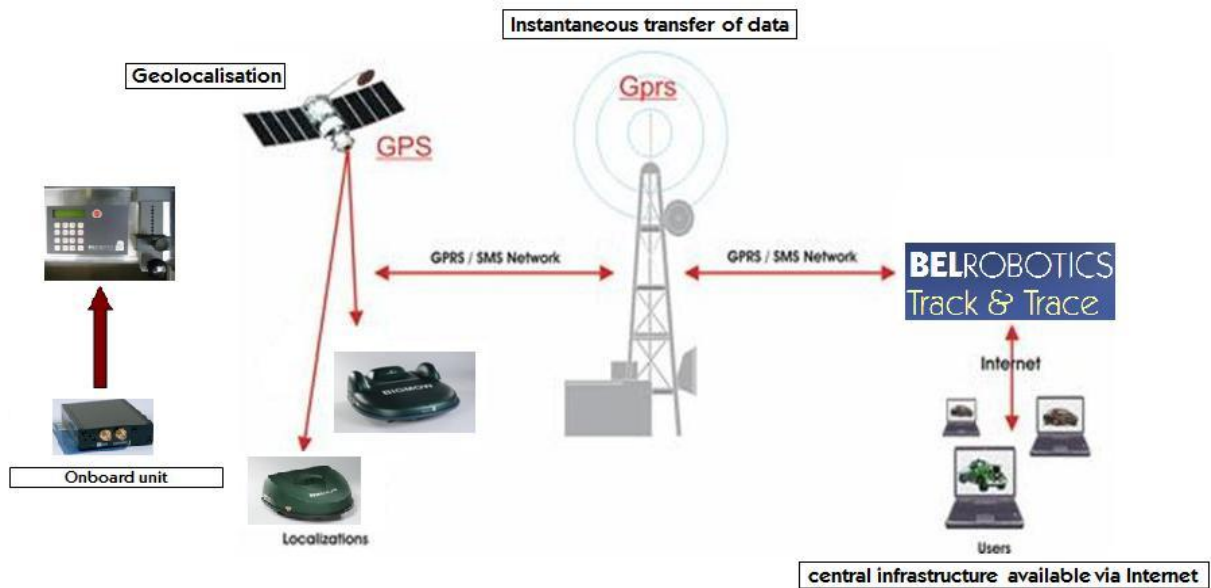
Track & Trace

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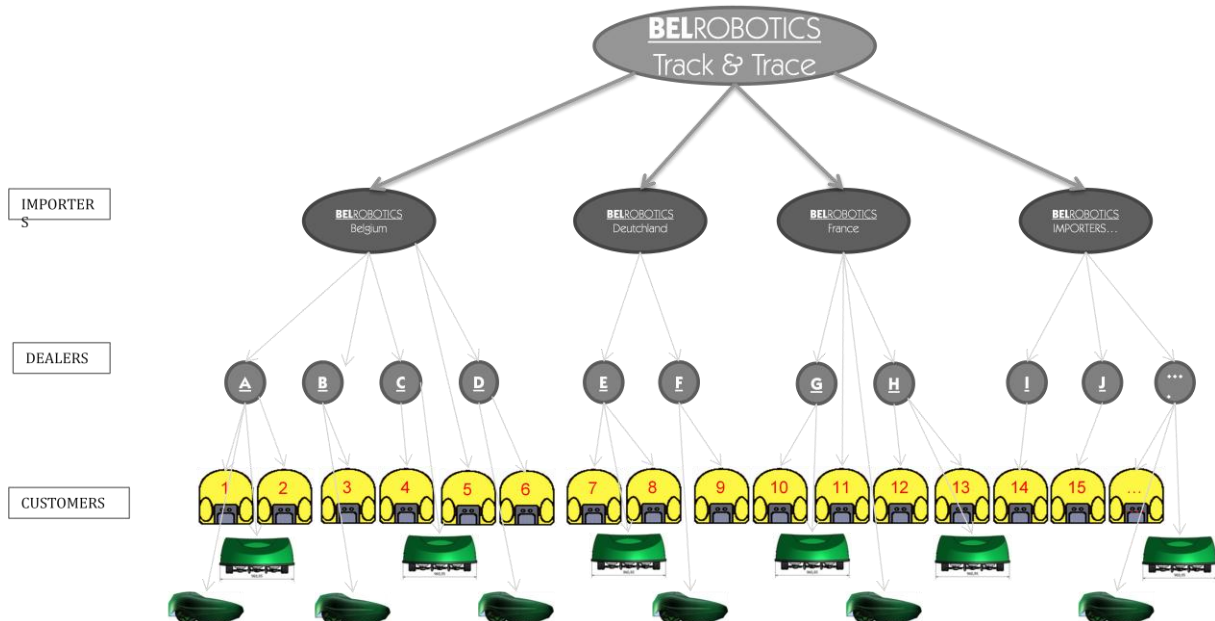
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1. How does it work ?

a. Schematic



b. Organization



2. Principel

- a. Localisation GPS of the machines.
- b. SMS Communication (SMS receive on a registered number)
 - "power OFF" by the user
 - "power OFF" by the machine, in alarm
 - Batterie discharged
 - out of virtual geo fence (géo fence is an configured option)
- c. Communication by GPRS with the plateforme and including records of several 'event'
 - ON/OFF
 - Géo Fence (configured option)
 - Battery voltage
 - The data of the machine. You can use the download file in the DTS software.
 - Automatic record the data after an alarm.
 - The dealer can have the last data from the machine = easy for after sale.
 - The module download the data on each machine.
- d. User Communication
 - Historic download via the plateforme by the SMS 'Mowerdata'
 - Using the software 'Dealer Tools Suite' Belrobotics (since DTS3.6 version)

3. Configuration / GSM Communication

a. Introduction, module

- Each module is identify :
 - By an IMEI number,
 - By a GSM number,
 - By the serial number of the machine
- On the plateform, the module is identify by:
 - 2 first letters : Country
 - 4 last numbers of the IMEI
 - Letters of the kind of machine : BM, PM, GMT2, GMT1, BP
 - 3 of 4 numbers of the serial
 - Exemple : BE-1234-BM568
- Each module have a specific GSM number (i.e. 0032497123456) you can find it :
 - On the module
 - On the warranty certificate delivery with the machine. A copy of this document must send at Belrobotics to activate the module.

b. Link module – N° STN1

- Send a SMS to the module : **000000STN1=003247512345**
 - **003247512345** is the number linked to the machine
 - **0032**, is the international dialing code : 0032 for Belgium
 - **47512345**, is the gsm number without the '0' .

c. SMS Messages send to the module

- **MOWERDATA** : download the data of the machine (historic)

→ Automatic SMS answer from the module :

MOWERDATA ID=625116777 22/07/10 16:54:16 REQUEST RECEIVED
<http://maps.google.com/maps?q=50.73389,4.58769&spn=0.05636,0.011996&t=k&hl=en>

- ID = IMEI of the module
- 22/07/2010 16:54:16 = date and hour of the received message
- Google Maps link



The machine must be power 'on' to download the data



- **POSITION** : For the instant position of the machine

→ Automatic SMS answer from the module:

POSITION ID=625116777 22/07/10 10:43:02
<http://maps.google.com/maps?q=50.73398,4.58812&spn=0.05636,0.011996&t=k&hl=en>

- ID = IMEI of the module
- 22/07/2010 16:54:16 = date and hour of the received message
- Google Maps link

4. SMS alert from the module

a. **Alert 11** = Machine power off

- After a machine alarm
- After a user power off
-
- *SMS from the module :*

Alert11 ID=625625017 22/07/10 17:14:40 Lat=50.67945 Lon=4.85132 Sp=0 He=190
Km=32.6 Tr=32.6 Batt=27.6V Temp=0.0C O=0010 I=0000 NW=20610 313152

- ID = IMEI of the module
- 22/07/2010 16:54:16 = date and hour of the received message
- Latitude (Lat) & Longitude (Lon)
- Sp = Speed in km/h
- Batt = Voltage of the machine machine :Volts
- He, Km, Tr, Temp,O, I, NW : Don't care about that information (no use)

b. **Alert 40** : machine Battery empty

- *SMS from the module :*

Alert40 ID=625639166 19/07/10 00:52:46 Lat=50.65308 Lon=4.77678 Sp=0 He=243 Km=0.0
Tr=0.0 Batt=18.9V Temp=0.0C O=0010 I=0000 NW=20610 313127

- ID = IMEI of the module
- 22/07/2010 16:54:16 = date and hour of the received message
- Latitude (Lat) & Longitude (Lon)
- Sp = Speed in km/h
- Batt = Voltage of the machine machine :Volts
- He, Km, Tr, Temp,O, I, NW : Don't care about that information (no use)

5. Plateforme Track & Trace

a. Dealer access request

- The access will be activated once the warranty certificate is received by Belrobotics.
- Each Dealer has one access for all their machine
 - An access for the end user is available. See below.

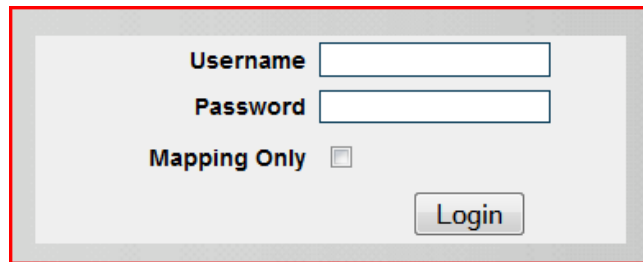
b. User access request

- All the coordinates of the end user must be filled in on the certificate.

c. Platform Access

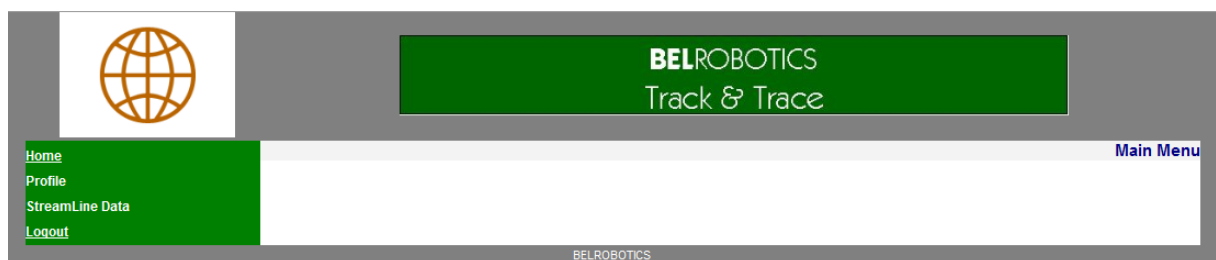
Internet address : <http://track.yourstreamline.com>

→ Login

A login form with a red border. It contains two input fields: 'Username' and 'Password'. Below the 'Password' field is a checkbox labeled 'Mapping Only'. At the bottom right of the form is a 'Login' button.

Fill in the username and the password.

→ Plateforme

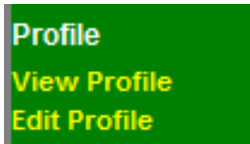


d. Menu

→ Home

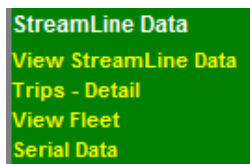
Return to the main Menu

→ Profile



- View Profile : User information
- Edit Profile : Change user information

→ Data



- View Data : event historic
- Trip - détail: event historic with a link Google Earth
- View fleet : Check all your machine in a map
- Serial Data : Download of history (read by DTS software)

→ Logout