**Amsterdam University
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Rover Rescue System

Manual - Rover

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TODO

2   Requirements

Before installing the Rover software, make sure you have the following software up and running:

- A RaspberryPi B2 (RPI) with newest version of Raspbian.

- An Active internet connection on the RPI.

- An open SSH, see setup below.

3   Installation Guide

This chapter gives a step by step tutorial to get the RSS up and running. After completing the installation, continue reading the usage guide.

3.1   Headless setup procedure

- Step 1: Create an empty file. You can use Notepad on Windows or TextEdit to do so by creating a new file. Just name the file ssh. Save that empty file and dump it into boot partition (microSD).

- Step 2: Create another file name **wpa_supplicant.conf**. This time you need to write a few lines of text for this file. For this file, you need to use the **FULL VERSION** of wpa_supplicant.conf. Meaning you must have the 3 lines of data namely country, **ctrl_interface** and **update_config**.

```
}
country="Your country"
ctrl_interface=DIR=/var/run/wpa_supplicant GROUP=netdev
update_config=1

network={
    ssid="your_real_wifi_ssid"
    scan_ssid=1
    psk="your_real_password"
    key_mgmt=WPA-PSK
}
```

3.2 Installation

To install Rover and its dependencies from your RPI shell prompt, use the following command:

```
$ wget −q https :// git.io/fx0ko −O /tmp/rover && bash /tmp/rover
```

3.3 Manual Installation

Update your system package list:

```
$ sudo apt−get −update −y
```

Upgrade all you installed packages to their latest version:

```
$ sudo apt−get dist−upgrade −y
```

To download and install newest version of Node.js, use the following command:

```
$ curl −sL https :// deb.nodesource.com/setup_8.x | sudo −E bash −
```

Now install it by running:

```
$ sudo apt−get install nodejs −y
```

To compile and install native addons from npm you also need to install build tools:

```
$ sudo apt−get install build−essential −y
```

To download the Rover code you need to install git:

```
$ sudo apt−get install git −y
```

Clone 'Scriptor' using git:

```
$ git clone https :// github.com/RescueOnWheels/Scriptor.git
```

Clone 'Rover' using git:

```
$ git clone https :// github.com/RescueOnWheels/Rover.git −−recursive
```

Open the 'Scriptor' folder and start using the Rover:

```
$ cd Scriptor && ./start.sh all
```

4 Usage

TODO