

# Mindstorm EV3 –USB-RNDIS connection

Version of Thursday, 31 March 2022

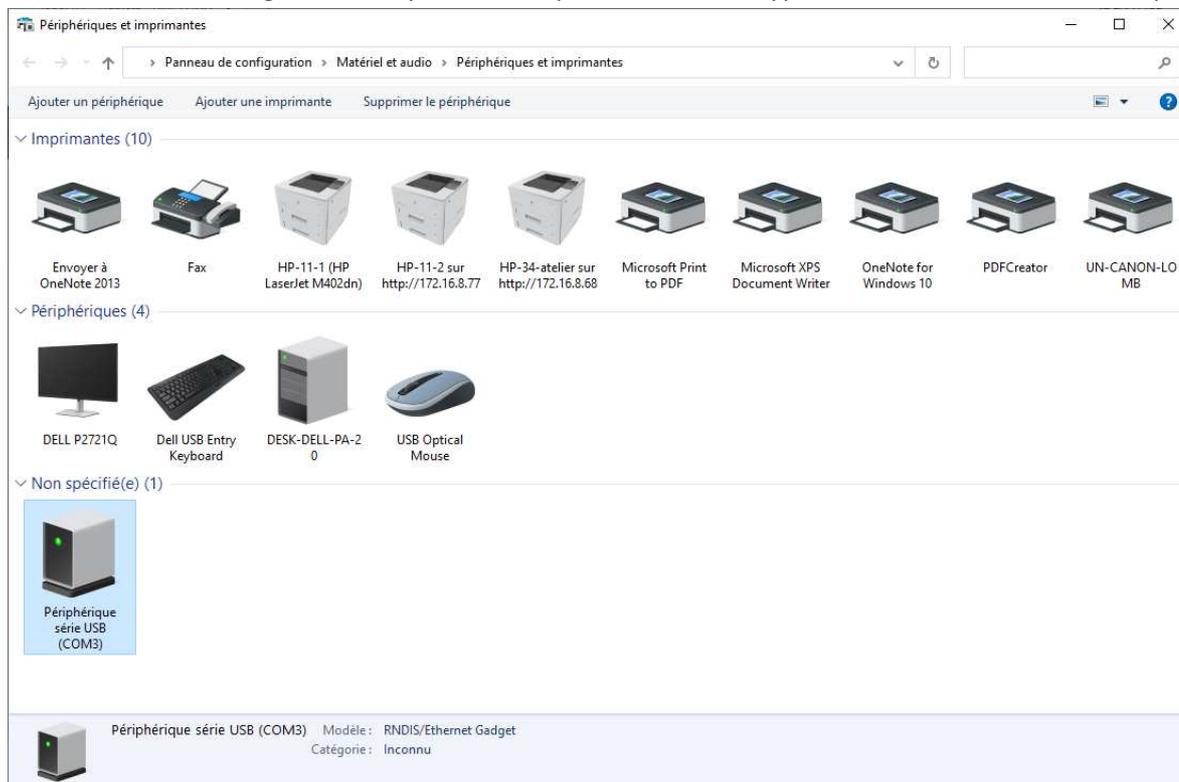
## 1 Connect the EV3 to a USB port by cable

### 1.1 Preamble

You are supposed to have lejos or ev3dev installed on the SD card before launching EV3.

### 1.2 USB/RNDIS

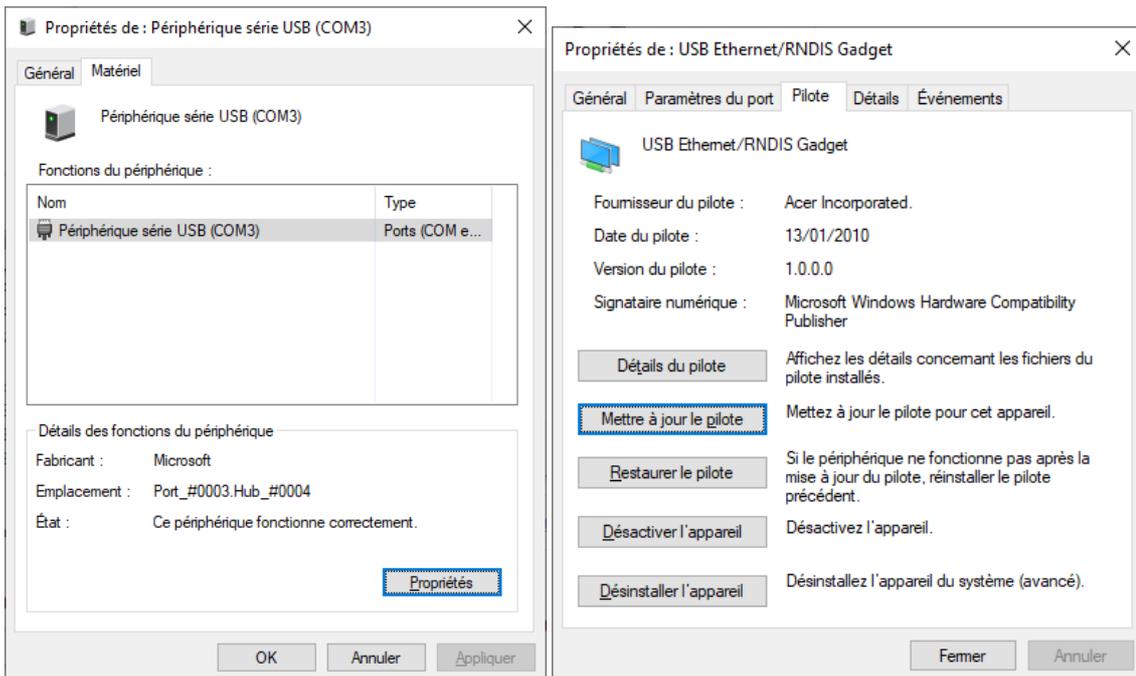
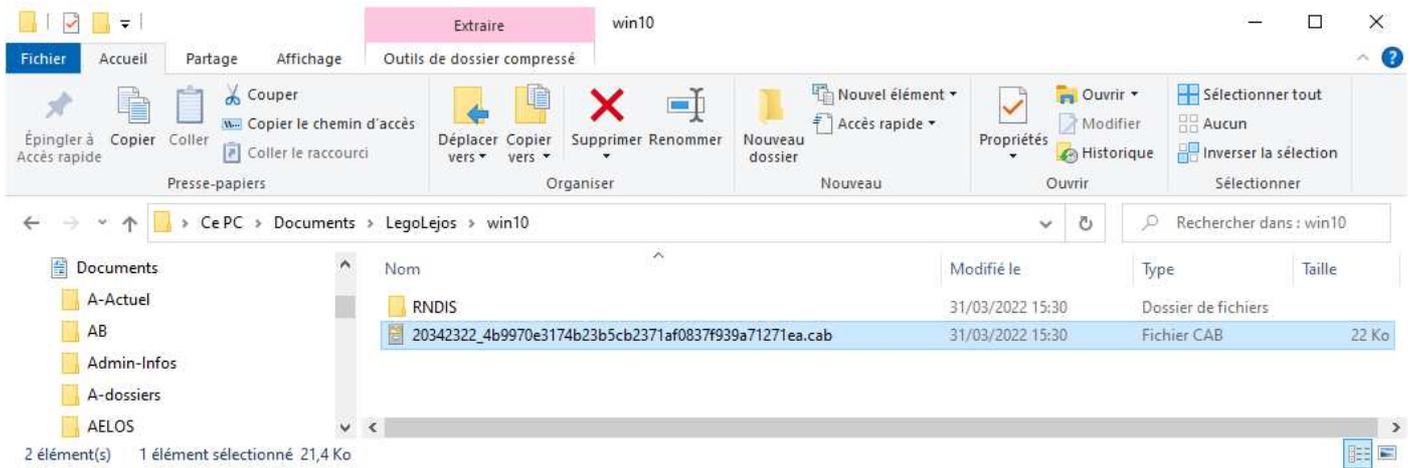
- Connect the EV3 device to the PC using the dedicated cable
- The driver is being installed by windows update but it is of type COM instead of RNDIS as expected



The driver is not the good one despite mentioned to be up-to-date.

#### 1.2.1 convert USB/COM in USB/RNDIS under windows10

get the cab file [here](#).



Update the driver (Mettre à jour le pilote in french) by the downloded cab file.

### Windows a mis à jour vos pilotes

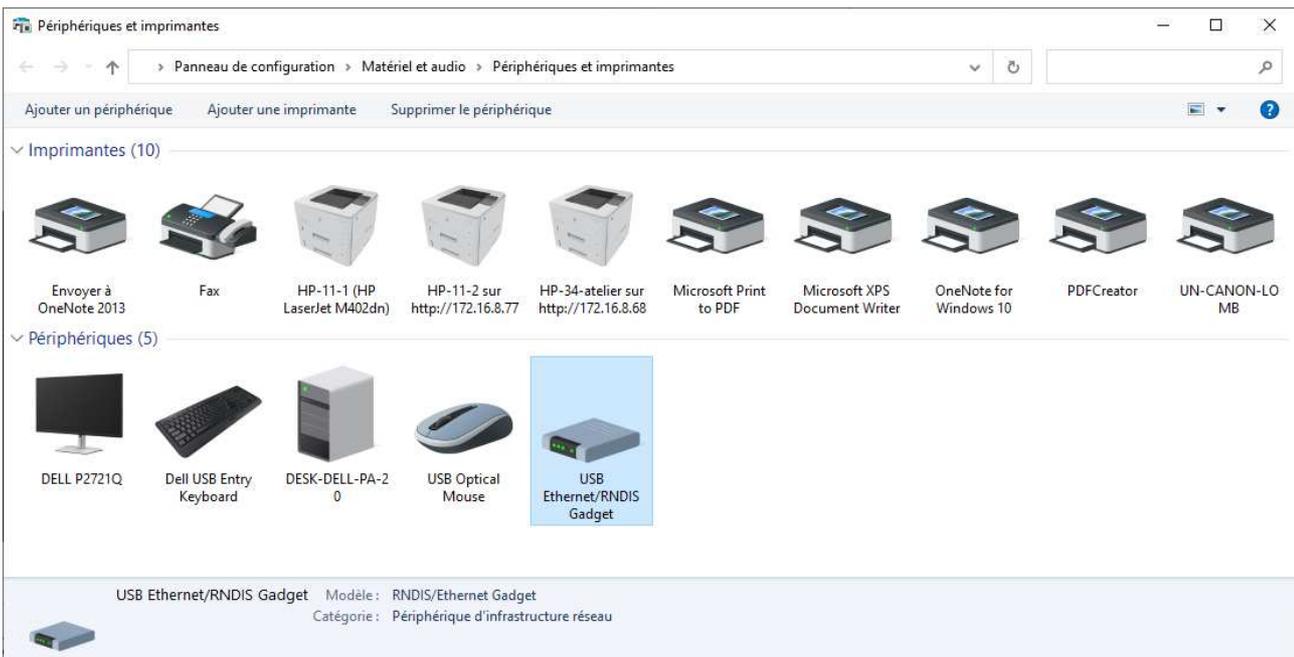
Windows a terminé l'installation des pilotes pour cet appareil :



USB Ethernet/RNDIS Gadget

Fermer

The EV3 device is now recognized as a RNDIS device

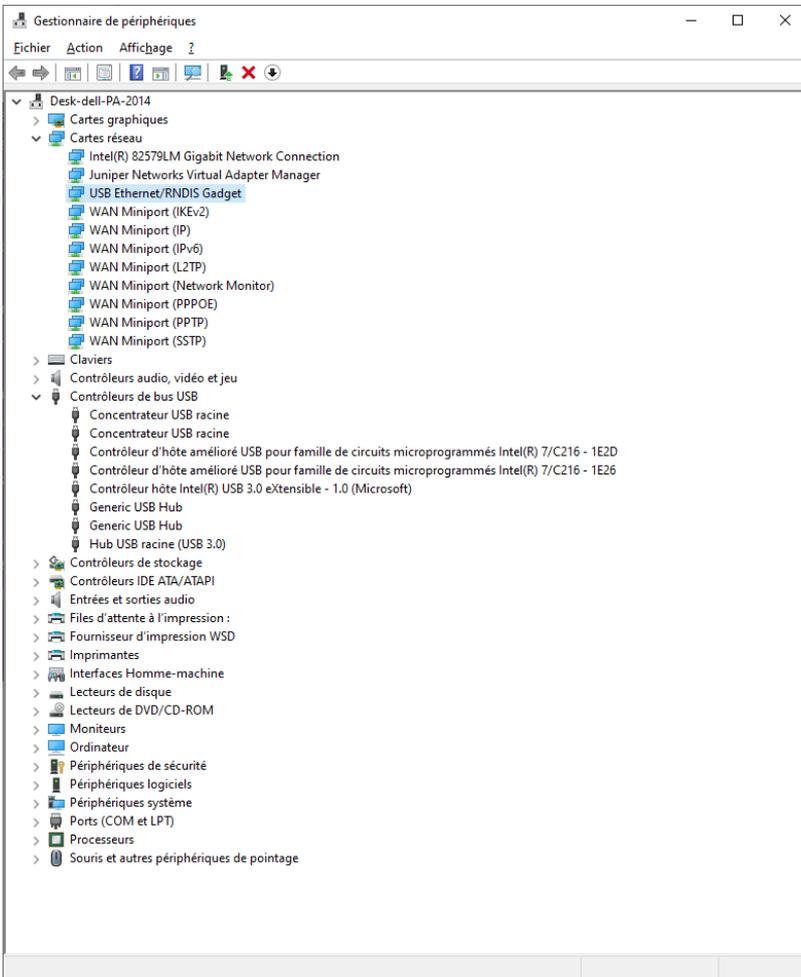


The screenshot shows the Windows Device Manager window titled "Périphériques et imprimantes". The breadcrumb path is "Panneau de configuration > Matériel et audio > Périphériques et imprimantes". There are three buttons at the top: "Ajouter un périphérique", "Ajouter une imprimante", and "Supprimer le périphérique".

Under the "Imprimantes (10)" section, there are ten printer icons with labels: "Envoyer à OneNote 2013", "Fax", "HP-11-1 (HP LaserJet M402dn)", "HP-11-2 sur http://172.16.8.77", "HP-34-atelier sur http://172.16.8.68", "Microsoft Print to PDF", "Microsoft XPS Document Writer", "OneNote for Windows 10", "PDFCreator", and "UN-CANON-LO MB".

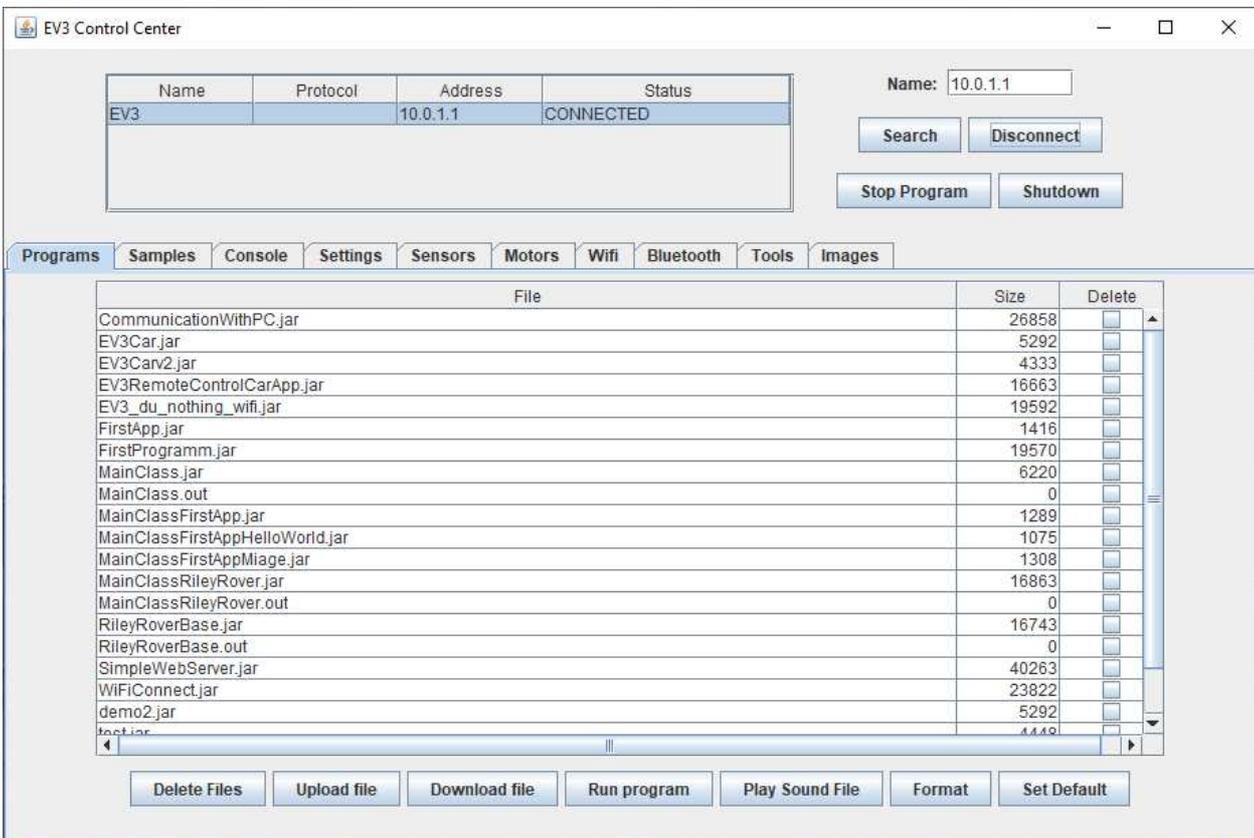
Under the "Périphériques (5)" section, there are five device icons. The "USB Ethernet/RNDIS Gadget" icon is highlighted with a blue background. The other devices are "DELL P2721Q", "Dell USB Entry Keyboard", "DESK-DELL-PA-2 0", and "USB Optical Mouse".

At the bottom, a detailed view of the "USB Ethernet/RNDIS Gadget" is shown with the following information:  
Modèle: RNDIS/Ethernet Gadget  
Catégorie: Périphérique d'infrastructure réseau

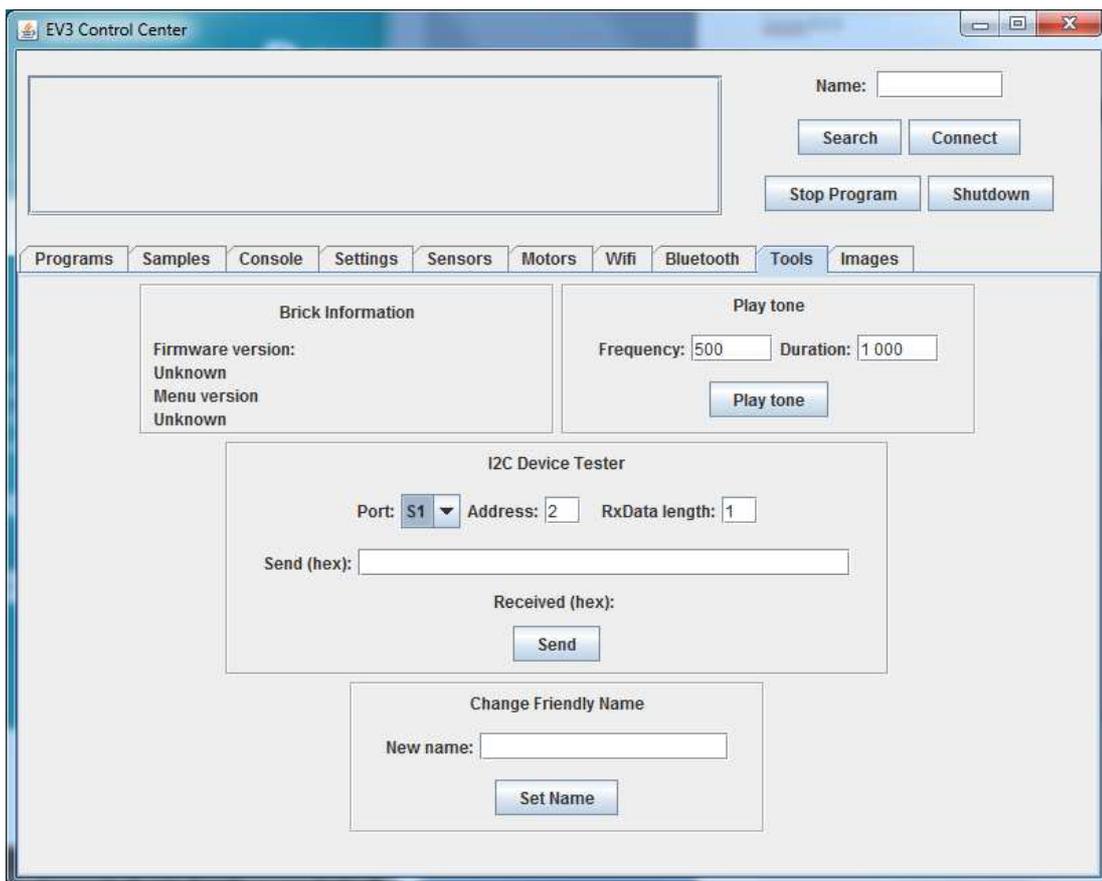


## 1.2.2 EV3 lookup

On the EV3 control center search the 10.0.1.1 address (default EV3 address) and then connect



### 1.2.3 If lejos control style do not find the EV3 device



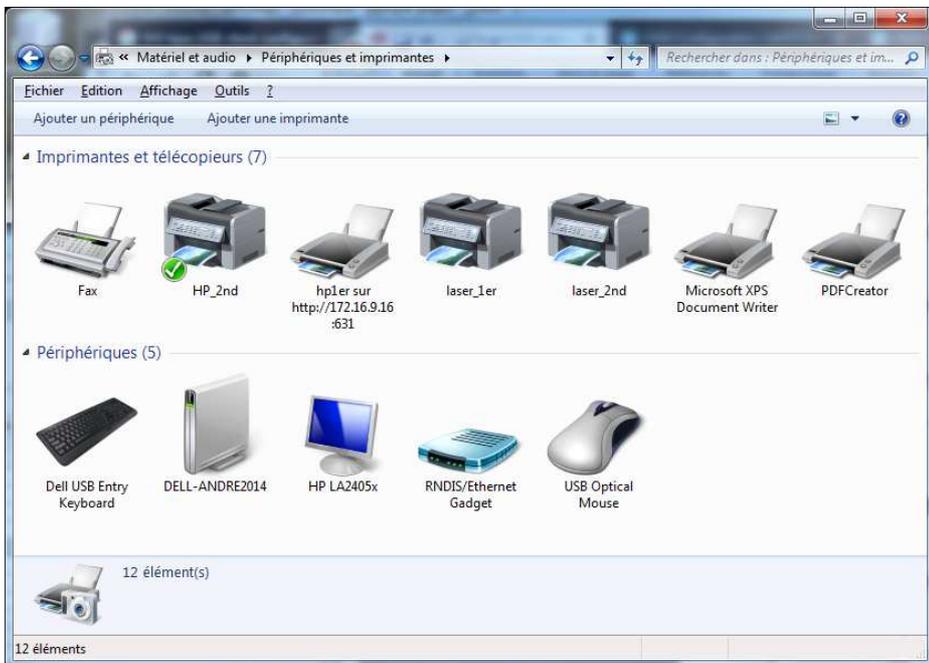
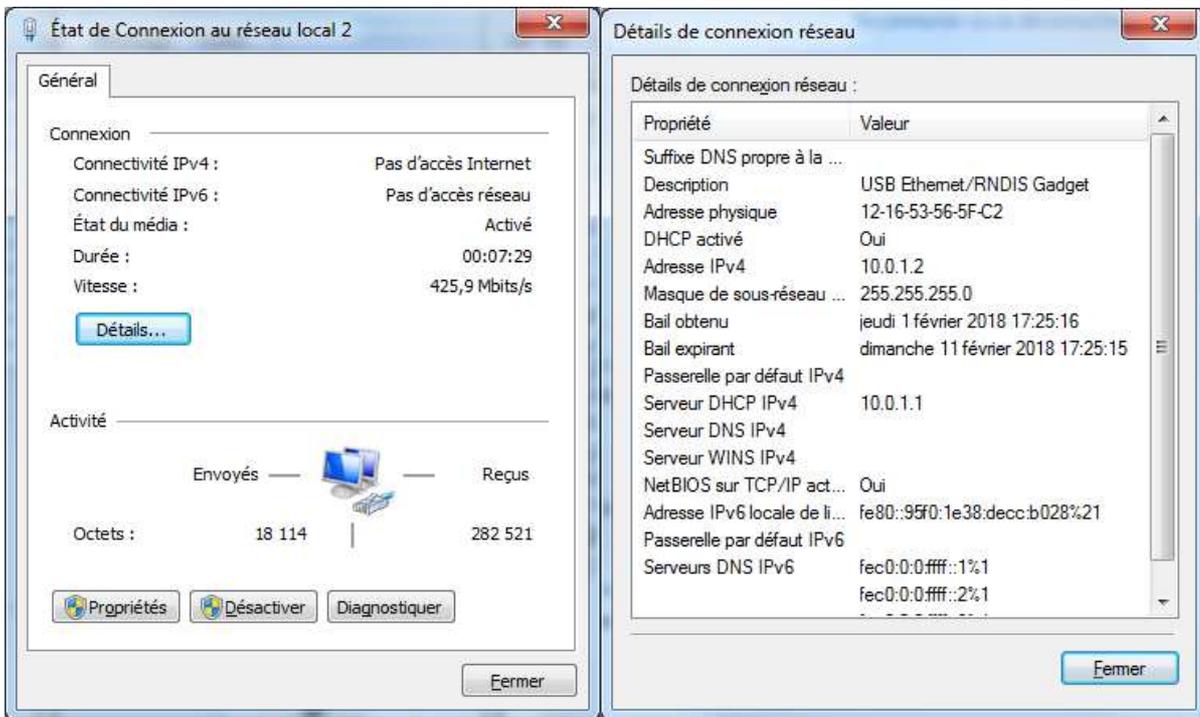
#### Search



Change manually the IP address on the PAN menu / ~~USB-client~~ / 7.8 Access Point

<https://lejosnews.wordpress.com/2015/02/11/pan-configuration/>

and the windows 10 network parameters



Proceed again step 1.2.2

