



beyond
payment

Ingenico Driver Installer Release Note

ICO-OPE-2012-0022-VG

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1. Document Information

1.1. Evolution follow-up

Revision	Type of modification	Author	Date
1	Initial Revision	L. TOURLONIAS	2011/11/03
2	Add how to enable the force COM feature	G. PERRIO	2011/12/21
3	Update to new NSIS installer	L. TOURLONIAS	2012/01/27
4	Update for installer version 1.2	V. GOMES	2012/03/20

1.2. Objective

This document is the installation guide of the Telium USB Jungo driver.

The Telium USB Jungo driver is intended to be used on cash register and it is not compatible with the following Ingenico development software (due to known limitation of driver):

- LLT
- SAT
- JSAT
- PCToTelium
- SKMT
- Ingedev

1.3. Scope

This document is aimed at every administrator or user who wants to install and use the new USB driver.

2. Important notes

The Telium USB Jungo driver is intended to be used on cash register and it is not compatible with Ingenico development software (due to known limitation of driver). In order to use the development tools one has to use the old Windows driver.

The Telium USB Jungo driver can be installed on the following Microsoft Windows versions (Windows XP 32 bits, Windows Vista 32 and 64 bits, Windows 7 32 and 64 bits). It supports the following Telium terminals USB ID: Sagem Legacy (0x79B/0x0028), Ingenico iPP3xx (0x0B00/0x0060), Ingenico iSC350 (0x0B00/0x0061), Ingenico iSC2xx (0x0B00/0x0062), Ingenico iCT2xx (0x0B00/0x0066)

The Force COM feature provided by the Telium USB Jungo driver makes the TeliumUsbPortUpdater obsolete. This software must not be used when the Jungo driver is installed.

The Telium USB Jungo Driver Installer takes care uninstalling the old Windows driver and TeliumUsbPortUpdater.

The user must have administrator level access in order to install or to uninstall correctly the driver.

The installation process must be executed when no TELIUM terminal is currently connected to the PC.

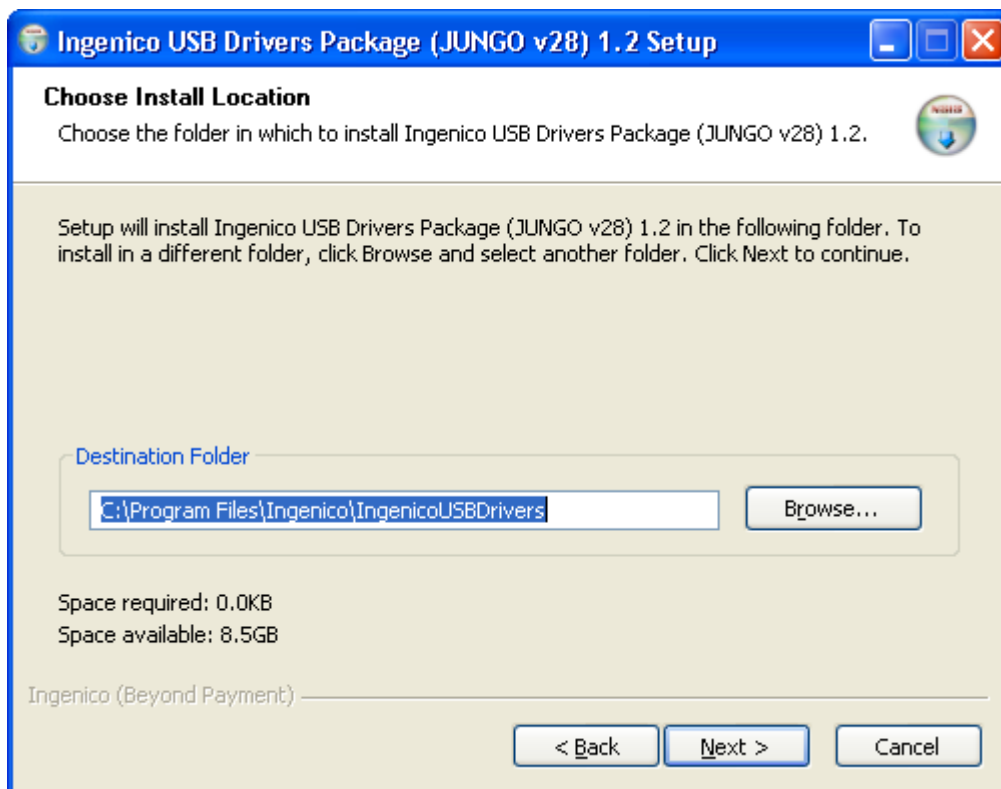
The installer will uninstall all previous versions of the drivers and of TeliumUSBPortUpdater service. This operation takes time to be completed.

3. Installation Process

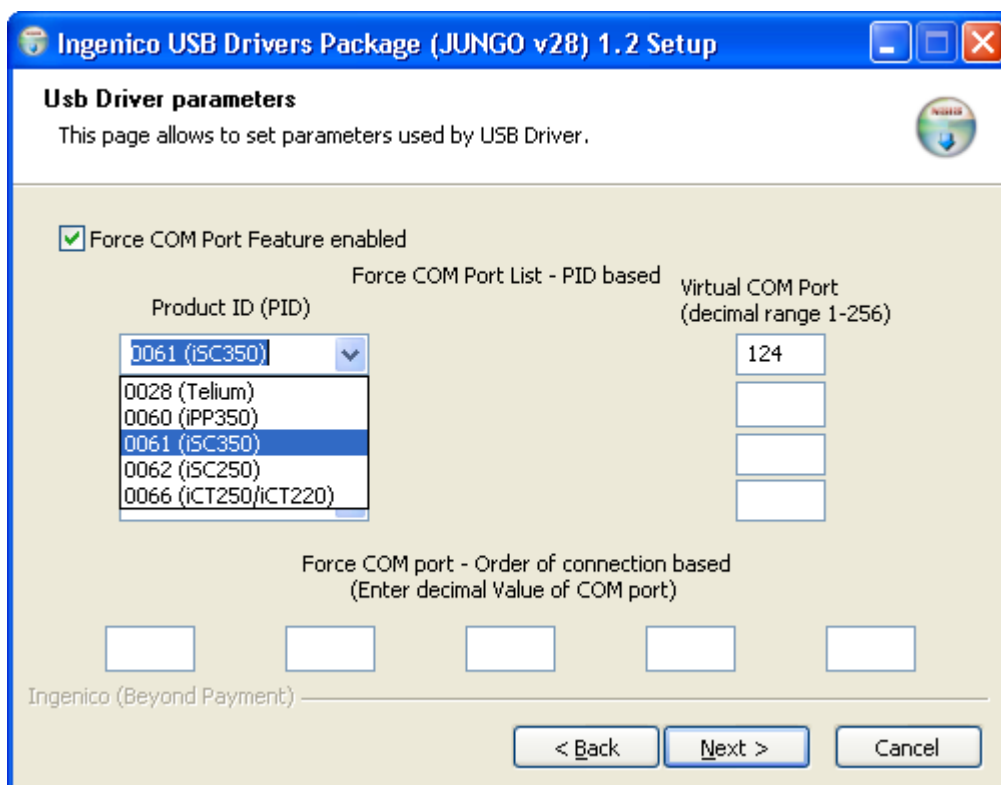
To start the installation process, run the “IngenicoUSBDrivers_XX.YY_setup” executable file (where XX.YY is the version number).

This installer can be launched with the graphical interface by double-clicking on the executable file:

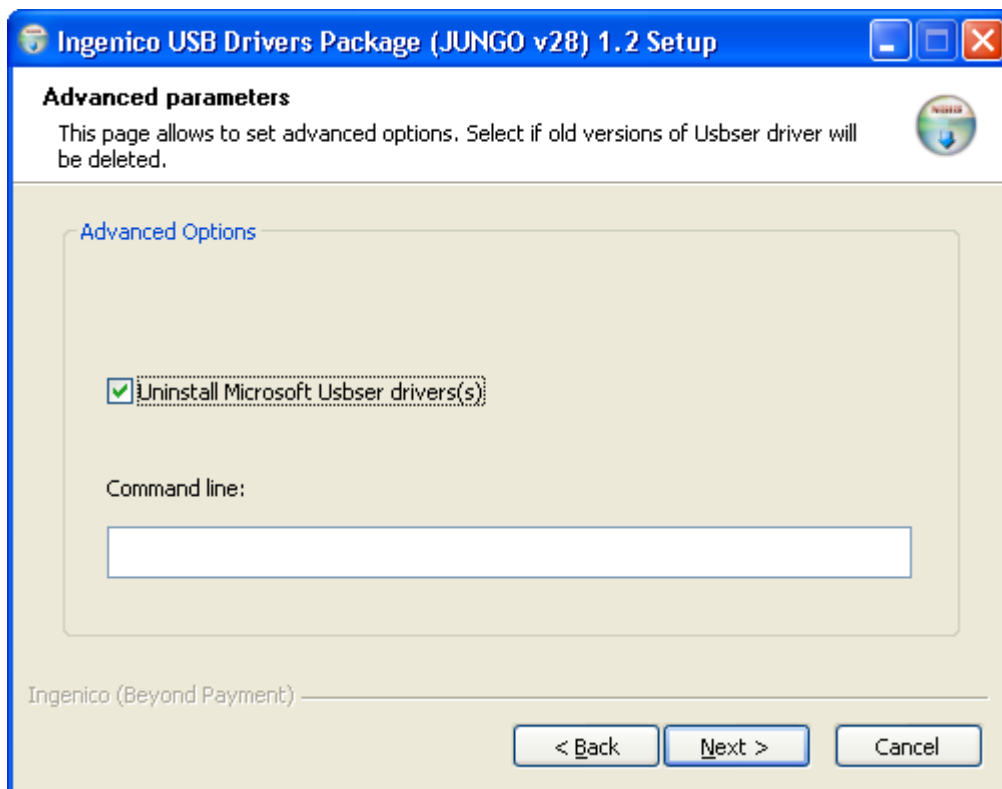




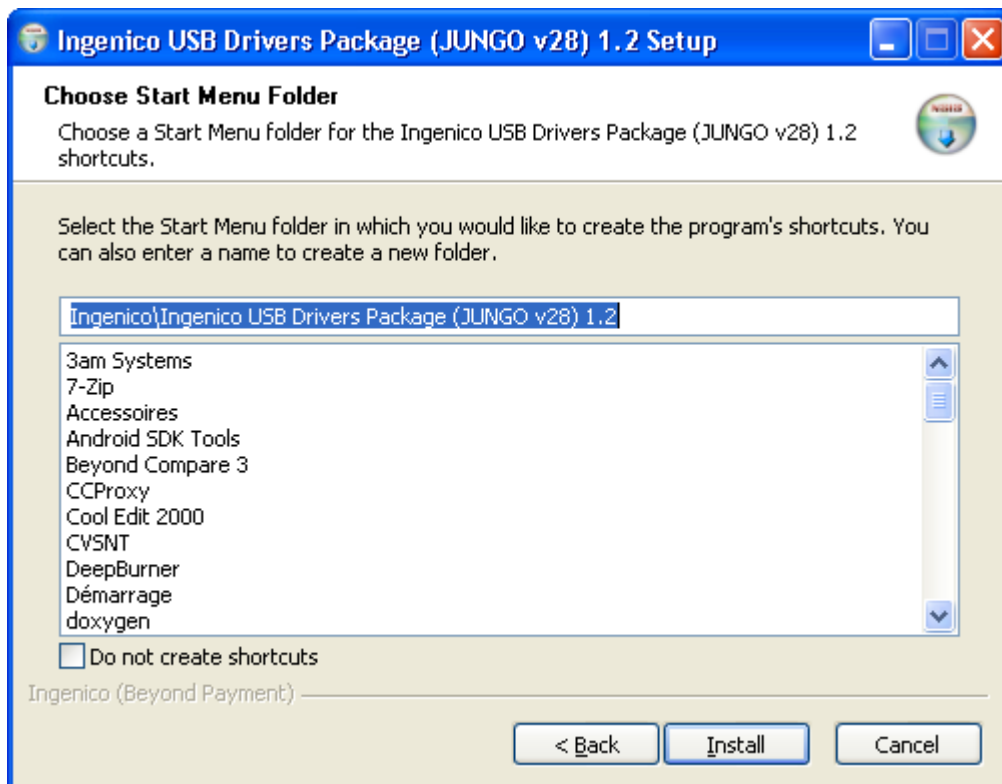
You choose the installation path.



You can set the Force COM Port parameters.



You choose whether to uninstall the old Windows driver or not.



You choose the start menu folder.

It can also be called via the command line with the following parameters which are case sensitive:

IngenicoUSBDrivers_XX.YY_setup [/S] [/? --help] [[/PORT=NNN] [/PID=XXXX:YYY]] [/U --uninstall]

/? --help Display this message.
/S Optional parameter used to indicate the setup must be launched in silent mode
/PORT Optional parameter (COM Port Number in range 1 - 256, e.g.: '12' without 'COM' prefix)
 If PORT is specified, installation is done with the specified port number.
 If PORT is not specified, installation is done with previous port number found in a
 previous installed version (an error is returned if not found).
/PID Optional parameter (Product Identifier on 4 hex digits, e.g.: '0028', '0028' is set by
 default, followed by COM Port number in range 1 - 256)
/U --uninstall Call only the uninstall of old drivers version and exit the program.\$\r\$\n"
/INST_PATH Parameter used to indicate the installation folder
/leave_usbser Don't uninstall Microsoft Usbser driver(s).

If the force COM parameters are not set in the command line, the installer will try to retrieve parameters from TeliumUSBPortUpdate service, and next from a previous version of the Jungo USB Driver.

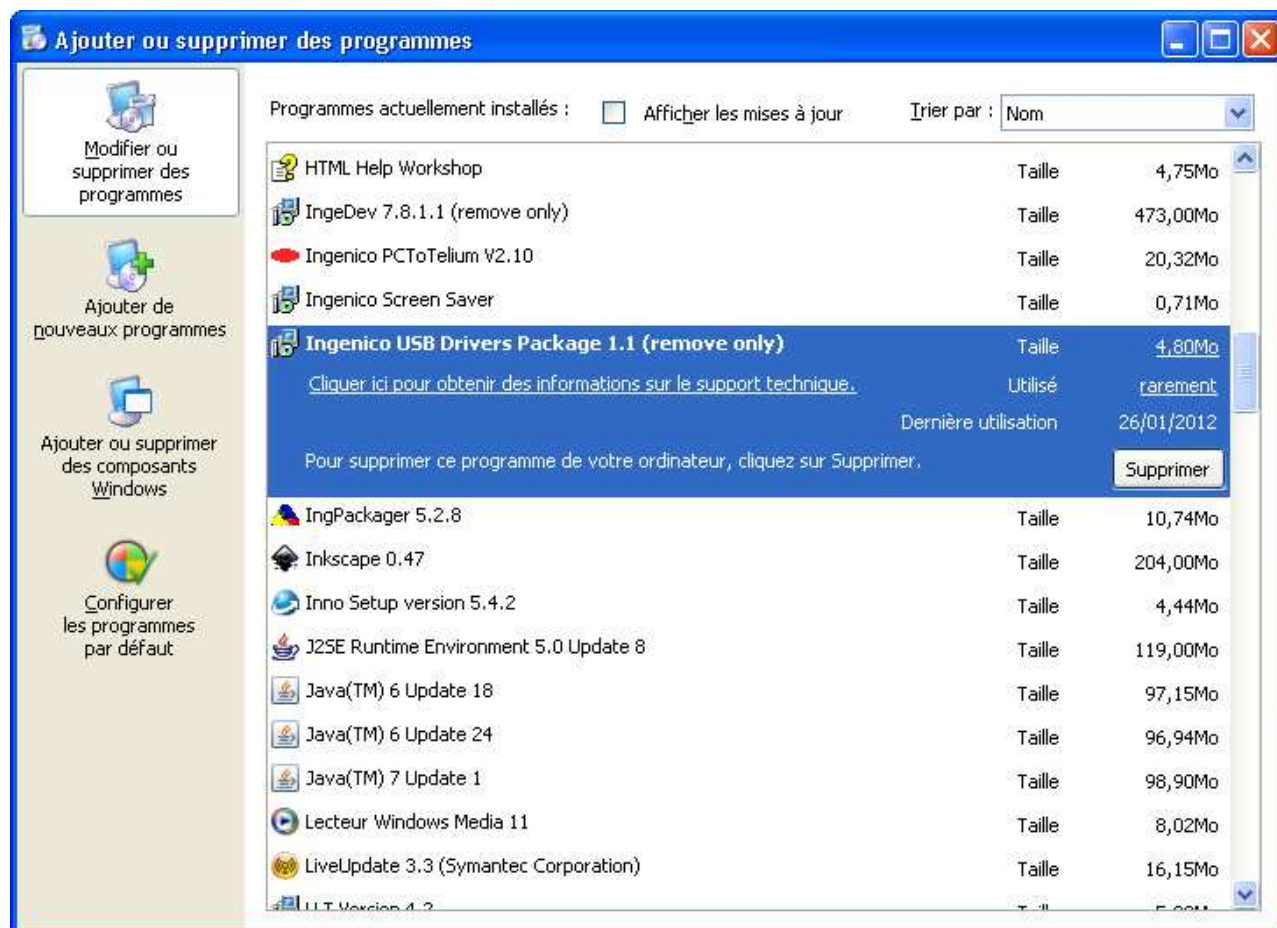
However if the executable is run without any parameters, the force COM feature can be manually enabled (cf. [6.4 - How to manually enable the force COM feature](#)).

The "IngenicoUSBDrivers_XX.YY_setup" executable file returns the following values:

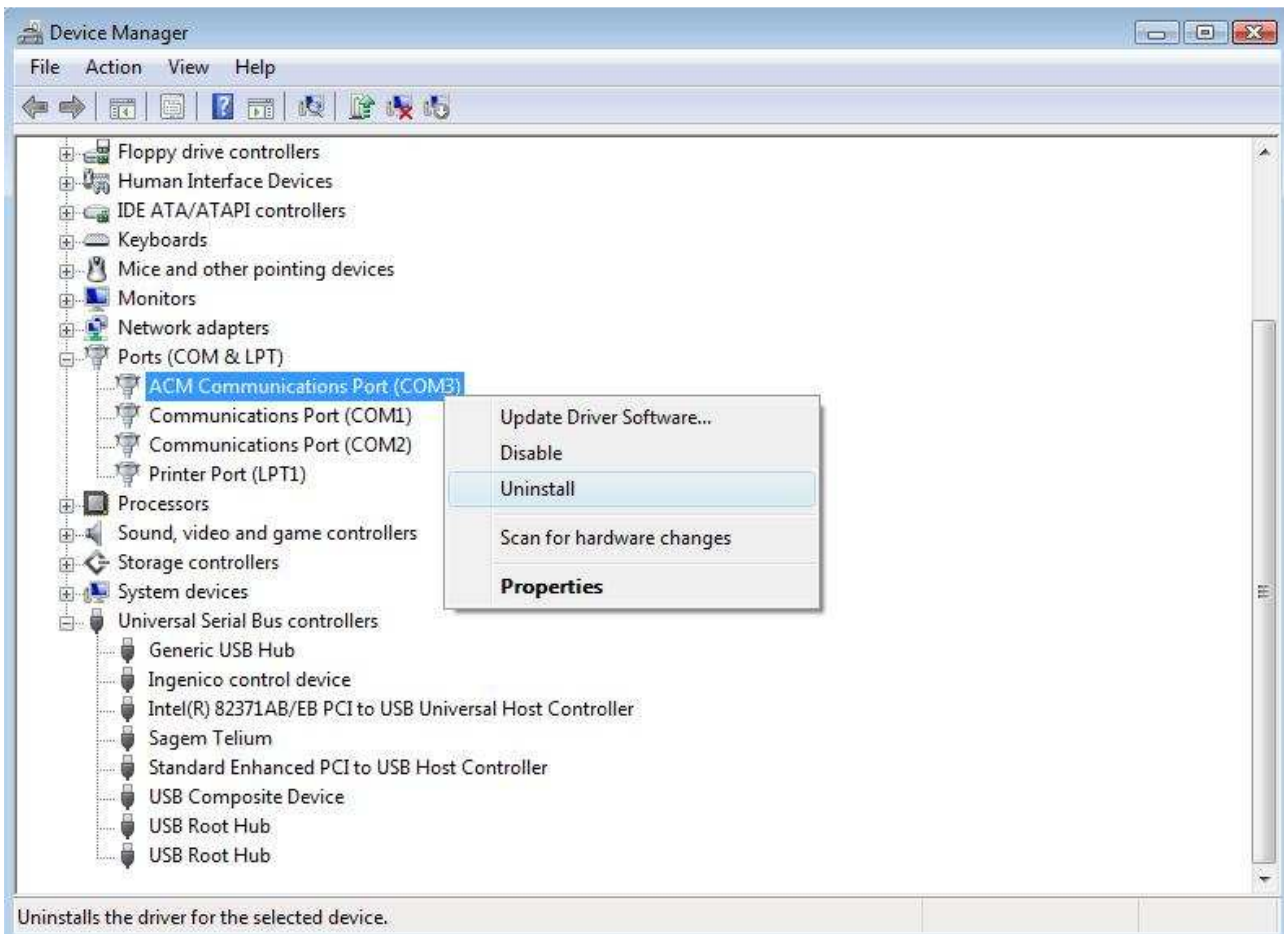
- 0 : the installation is successful
- 1 : the installation needs a reboot of the PC to be completed
- -2 : the installation process has failed or it has been interrupted

4. Uninstall process

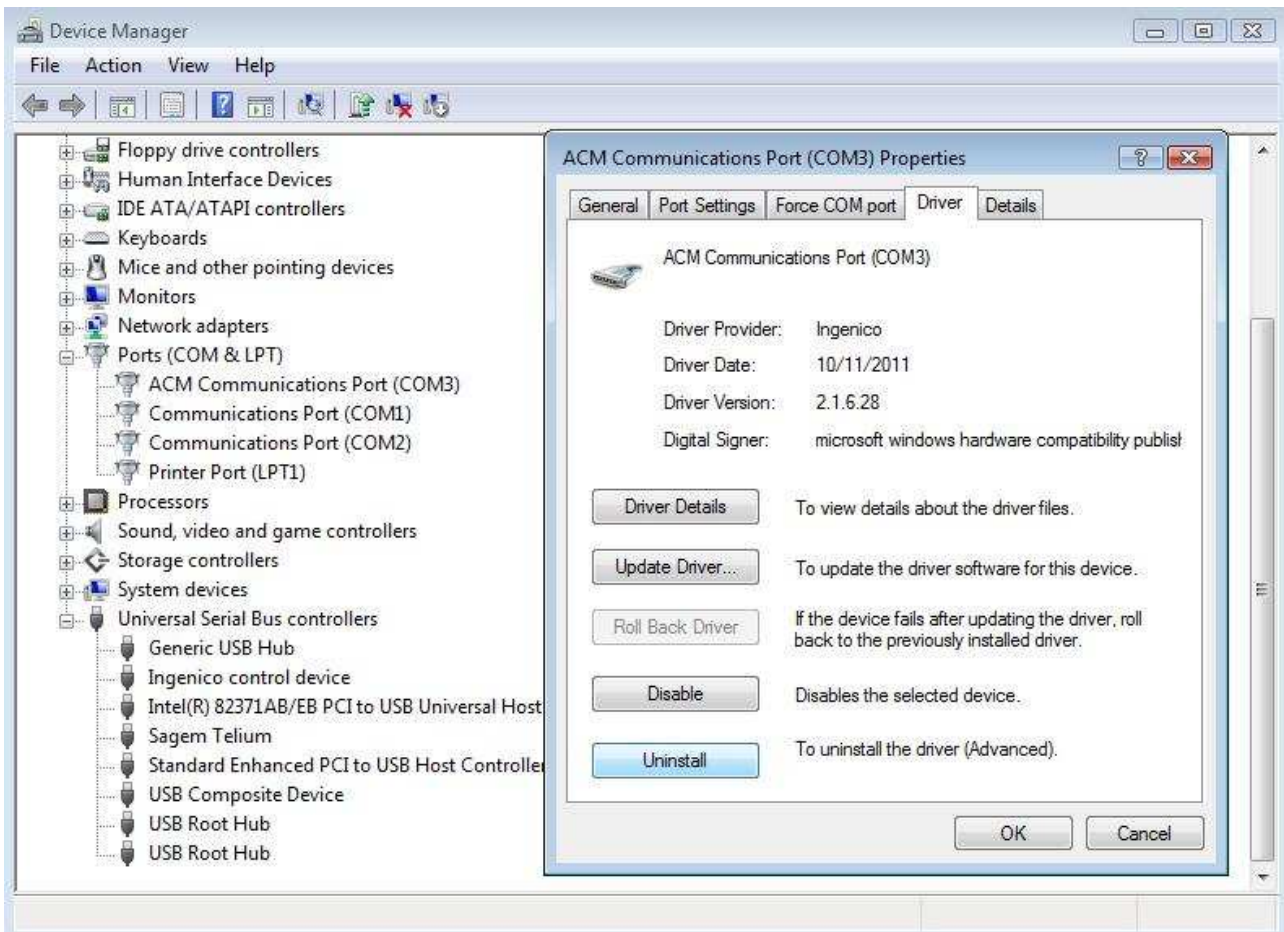
To uninstall the Ingenico USB Driver one has to go to the add/remove programs in the control panel and remove the Ingenico USB Drivers Package xx.yy (remove only) item:



One must not try to uninstall through the device manager since it is either ineffective or incomplete. On Windows XP it has no effect and on Windows Vista and Windows 7 it doesn't uninstall the driver completely.



Do not try to uninstall through this menu.



Do not try to uninstall through this menu.

5. Evolutions

Hereafter are briefly described USB Jungo driver's evolutions.

5.1. Version 2.1.6.30 (certified for NER Only):

Reset USB port after 3 consecutives reading errors.

USB ID supported:

0x079B/0x0028 – Sagem Telium

0x0B00/0x0061 – Ingenico iSC350

5.2. Version 2.1.6.28 (certified):

Recover when any IOCTL returns USBD_STATUS_DEV_NOT_RESPONDING.

USB ID supported:

0x079B/0x0028 – Sagem Telium

0x0B00/0x0060 – Ingenico iPP3xx

0x0B00/0x0061 – Ingenico iSC350

0x0B00/0x0062 – Ingenico iSC2xx

0x0B00/0x0066 – Ingenico iCT2xx

5.3. Version 2.1.6.27:

Recover when GET_BAUD_RATE IOCTL failed.

5.4. Version 2.1.6.26:

Fix flush issue when closing the port.


5.5. Version 2.1.6.25:

Implement FlushFileBuffers function.

5.6. Version 2.1.6.24 (Certified):

Initial version of Jungo driver

USB ID supported:

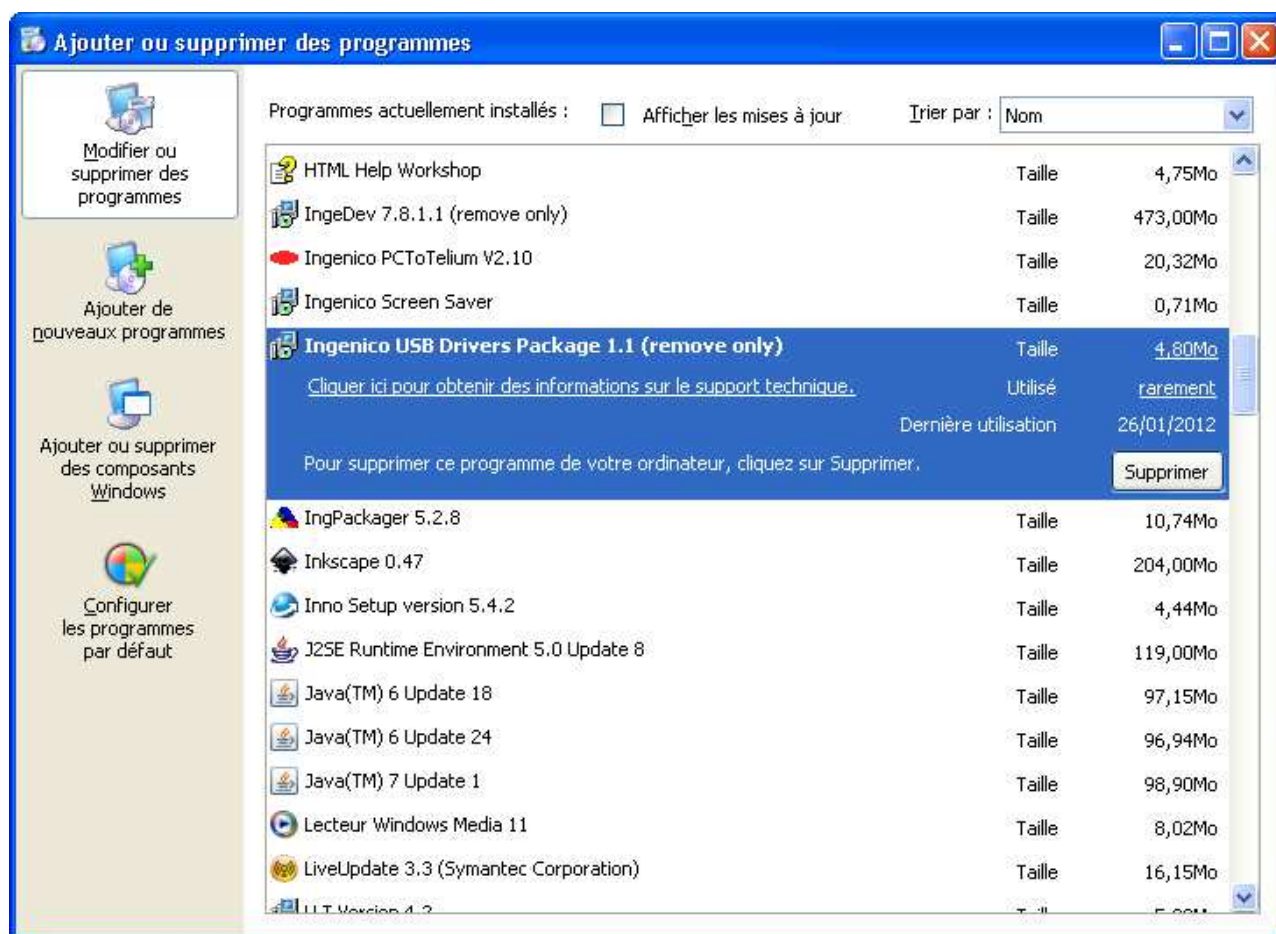
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0x0B00/0x0060 – Ingenico iPP3xx
0x0B00/0x0061 – Ingenico iSC350

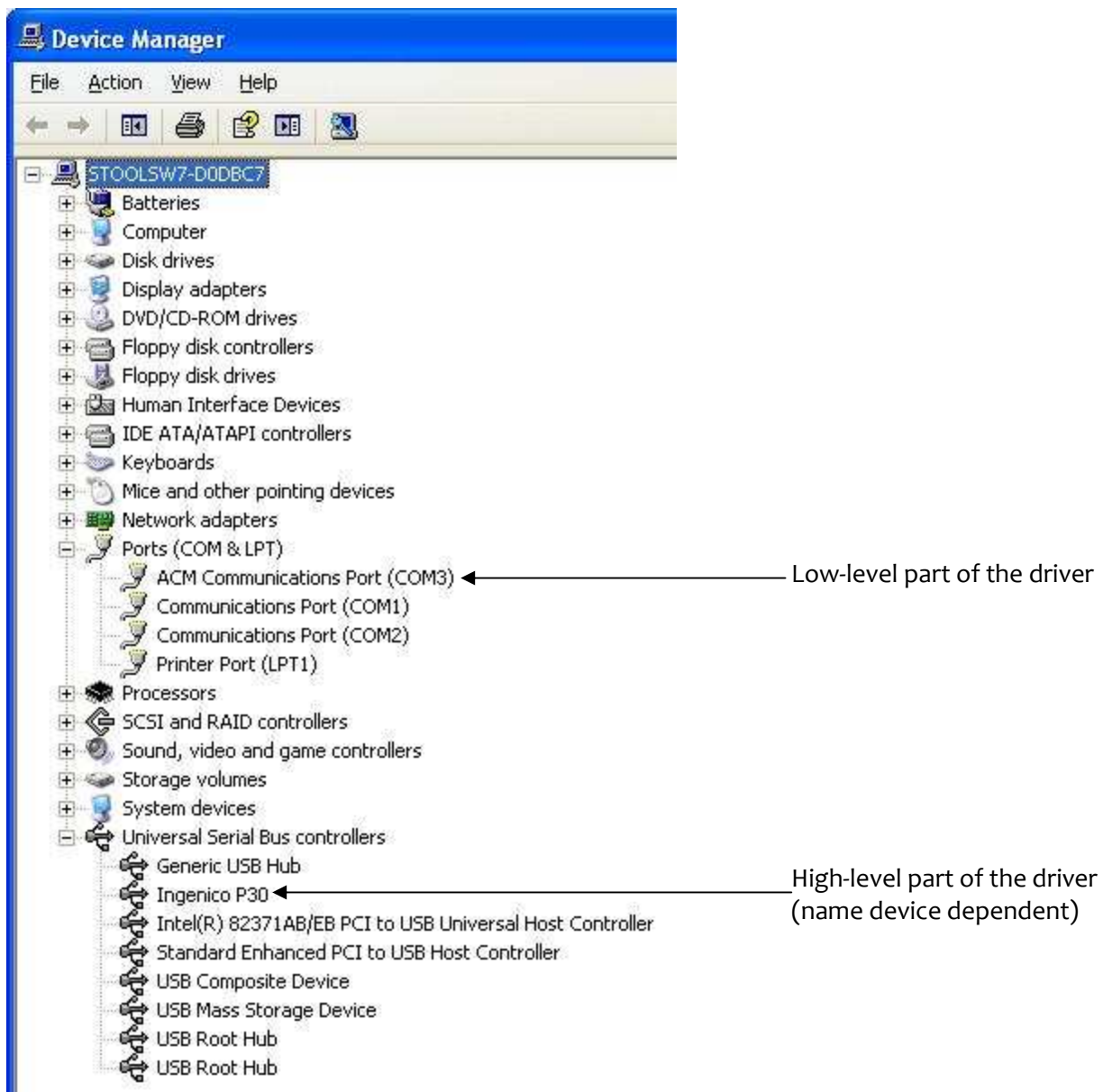
6. Frequently asked questions

6.1. How can I know that the driver is installed?

The easiest way of knowing whether the driver is installed or not is to check the “add/remove programs” window under the control panel. If the driver was installed with the installer there is the item “Ingenico USB Drivers Package xx.yy (remove only).



If the driver was not installed with the installer, one must find in the Device Manager the following new hardware.

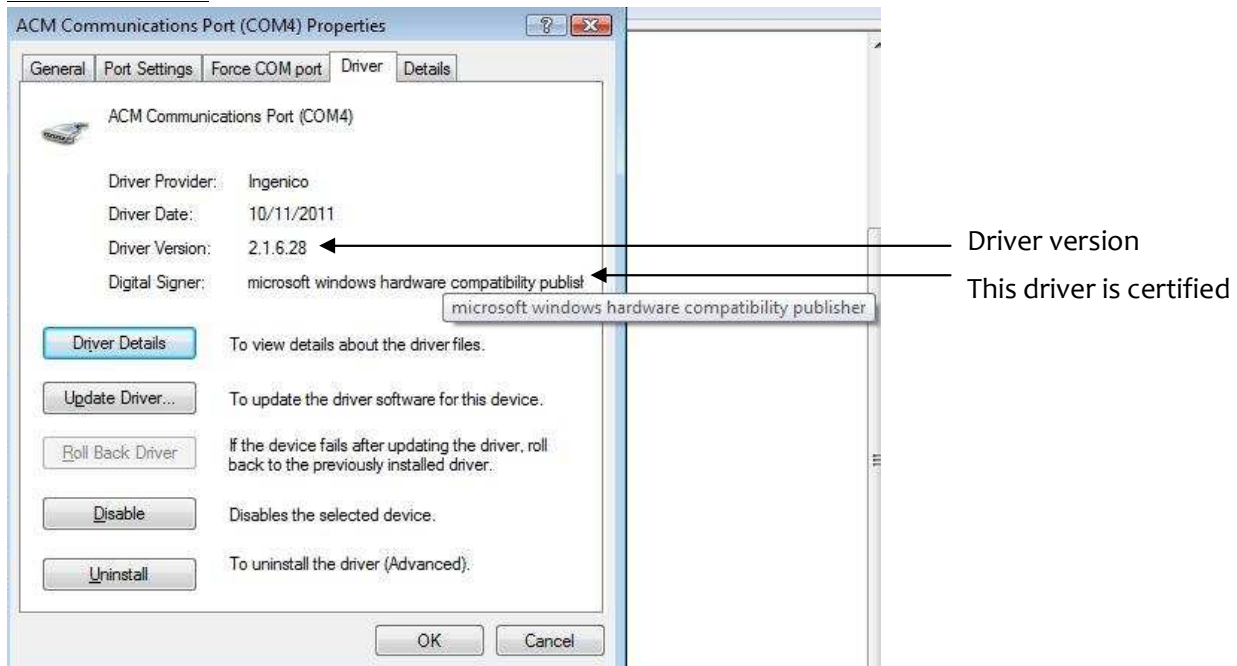


6.2. How can I know which version of the driver I used?

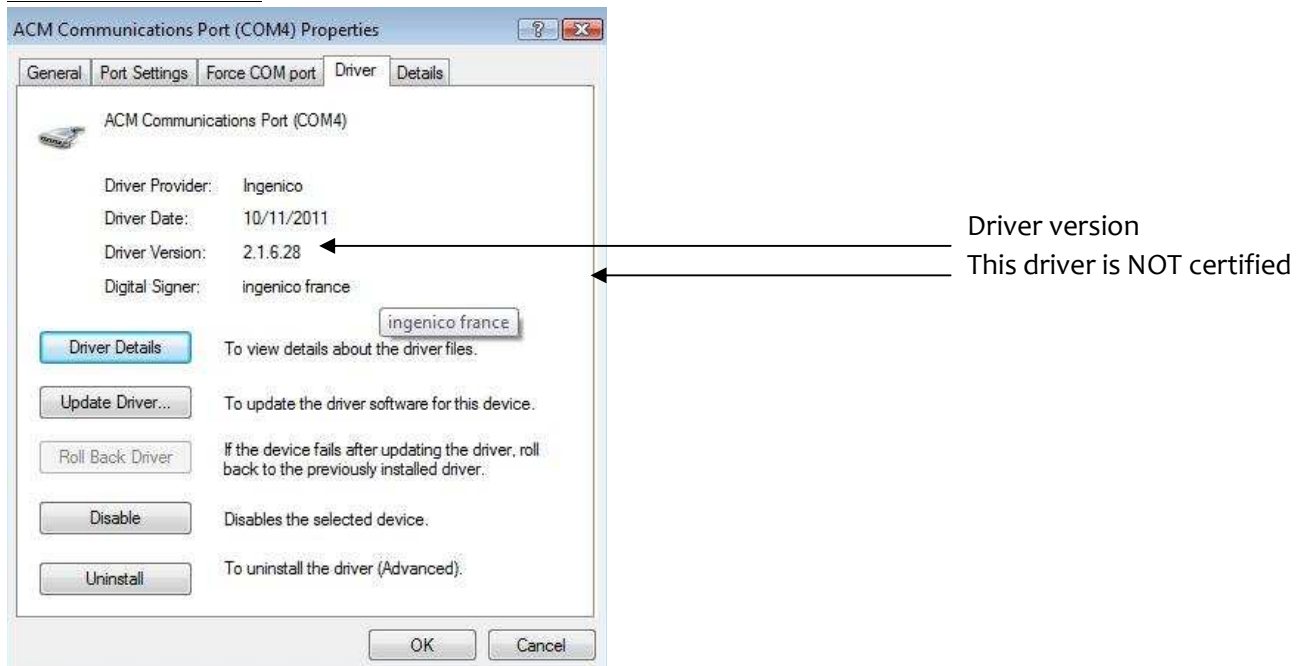
In the Device Manager, one can find all required information in the driver properties (any part of the driver, low-level and high-level are the same).

If there is no “Force COM port” category it means this is not the Jungo driver but the old Windows driver.

Certified Driver:



Not Certified Driver:



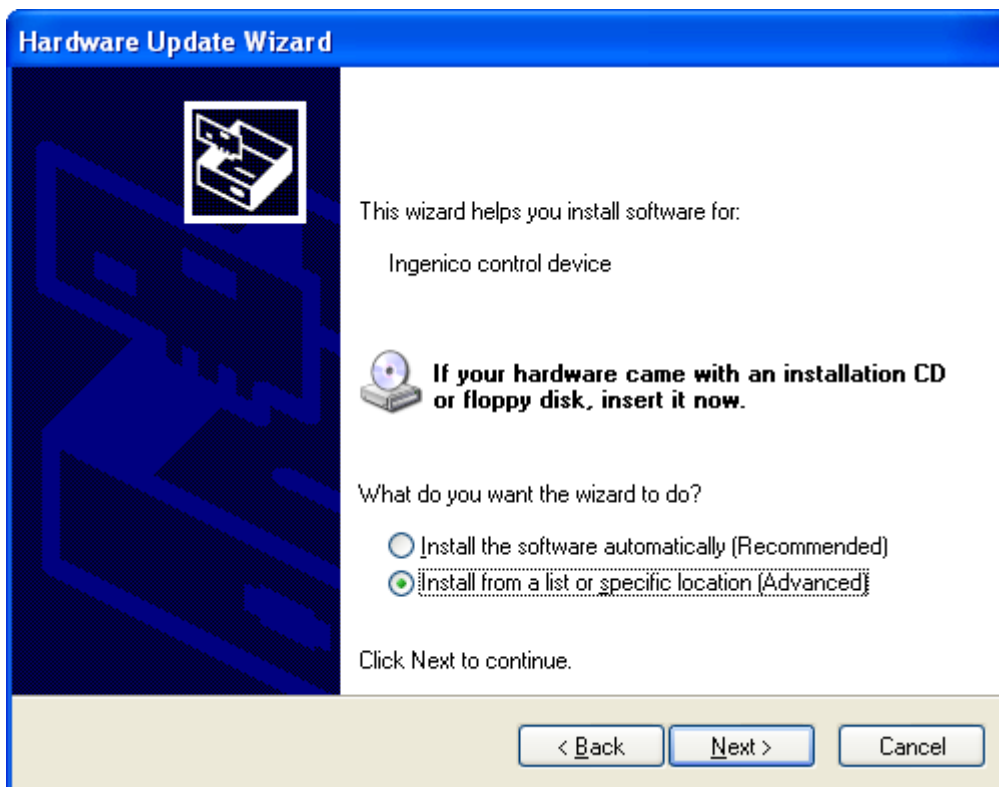
6.3. How can I use my previous driver again?

If you were using LLT and you just installed the new Jungo driver or if you have another driver (not distributed by Ingenico) which has been overwritten by this new driver, it's possible to recover the previous state without uninstalling the driver.

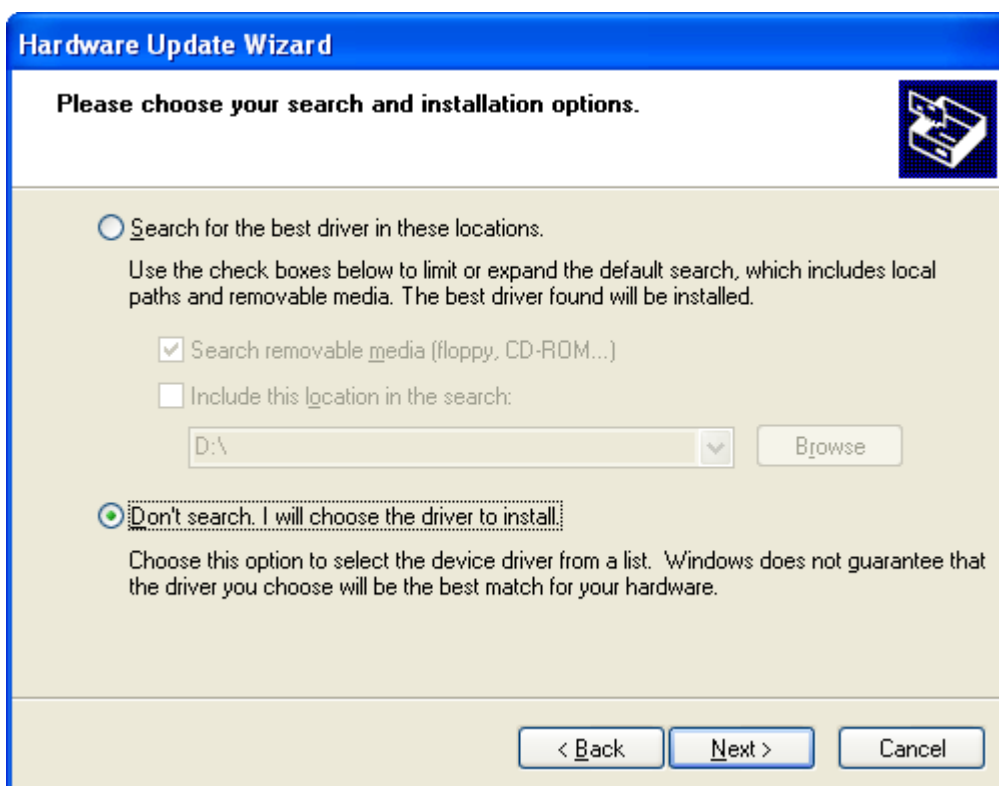
In the properties of the high-level part of the driver (the one under Universal Serial Bus controllers in the Device Manager), go in the driver tab and click on "Update Driver...", and follow the instructions.



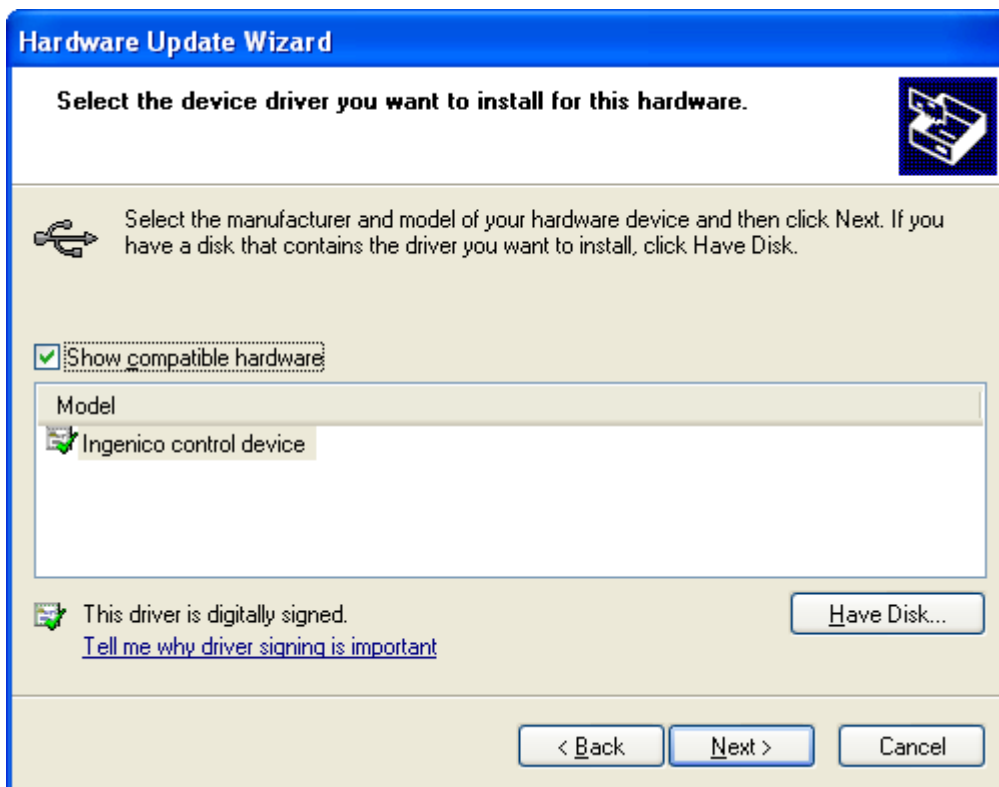
Click No.



Select Install from a list or specific location (Advanced) and click Next.



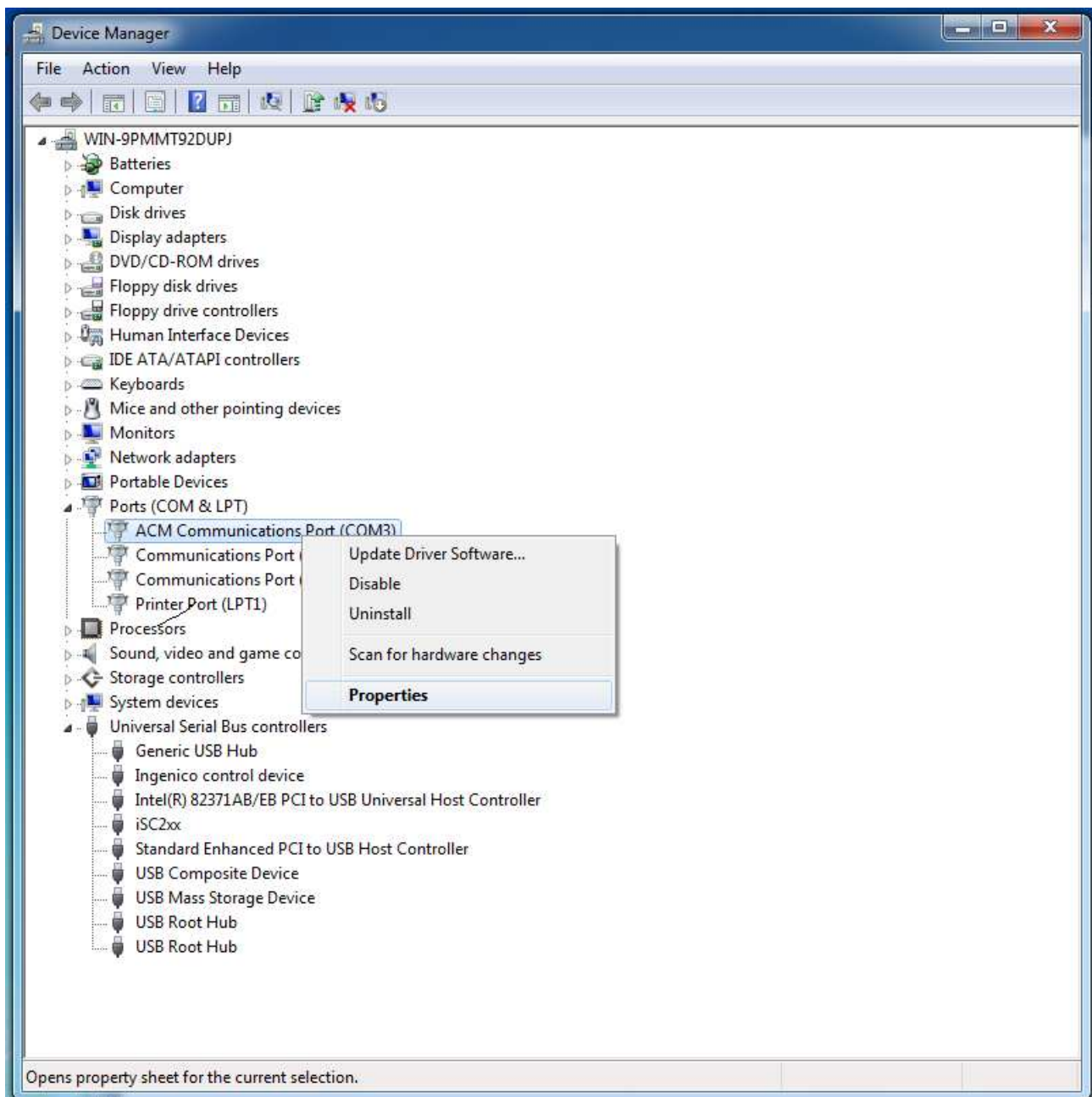
Select "Do not research" and click Next

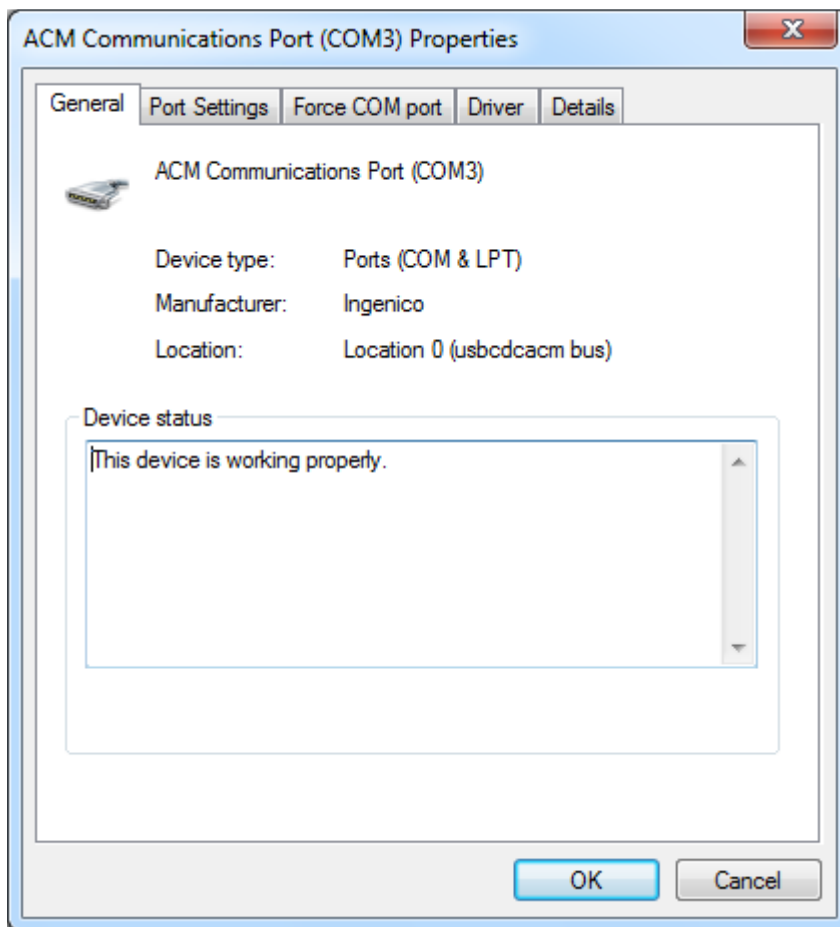


Select your driver and click Next.

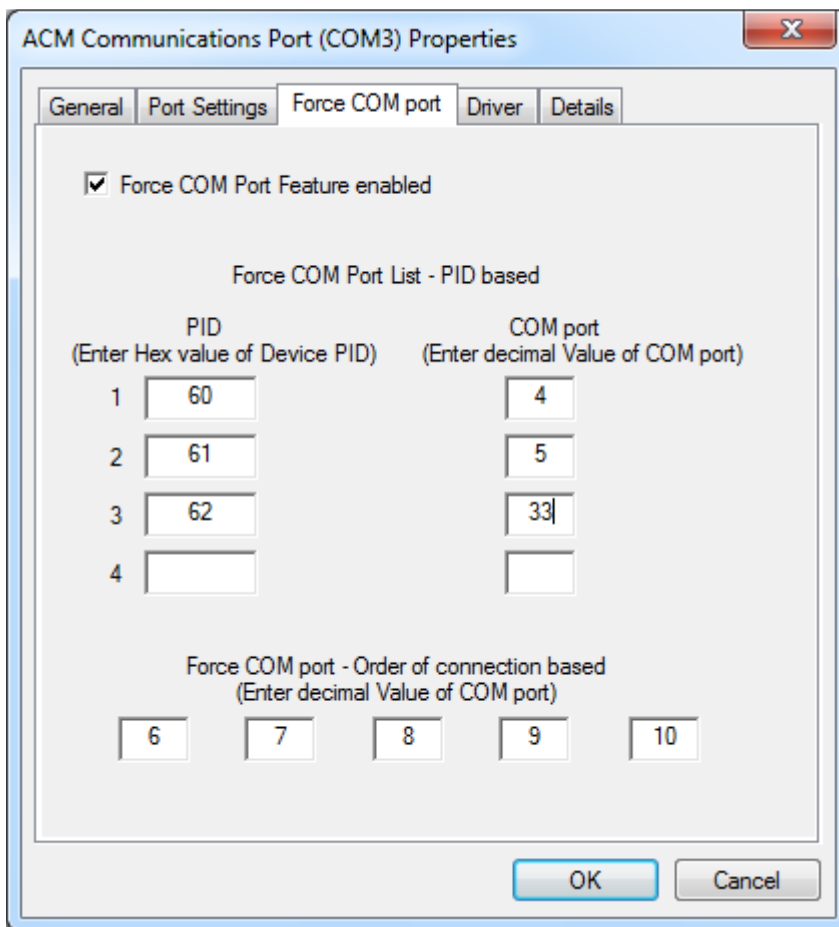
6.4. How to manually enable the force COM feature

In the device manager, right click on ACM Communications Port then Properties.





In “Force COM port”:



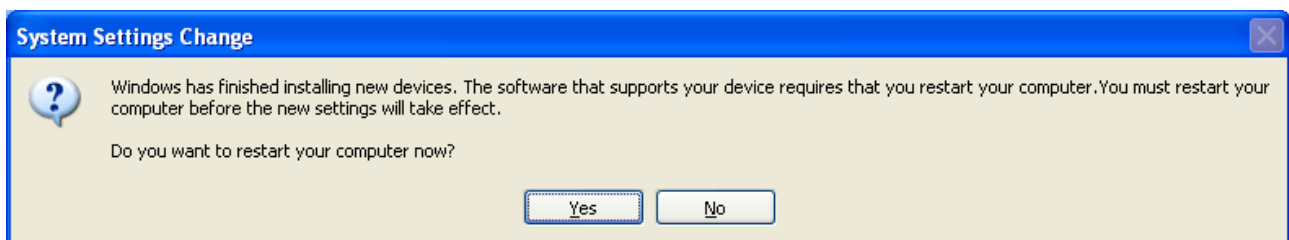
A PID of 61 corresponds to an iSC350.


A PID of 62 corresponds to an iSC250.

You can set a COM port for a particular PID and below you can choose which COM port will be used for unknown PIDs.

6.5. Why the window “System Settings Change” is displayed?

The window “System Setting Change” is displayed requesting to restart the computer when the PID of the terminal currently connected to the PC is not listed in the parameters of the “force COM port” feature when enabled.



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To remove this window, the PID of the terminal must be specified from the configuration panel of “force COM port” feature or a default COM port must be set.