USB
TECHNICAL NOTE

From EDI 3.00A and ComET 2.00A, the user can communicate with an ETEL device using USB.

From EDI 4.22A and ComET 4.22A, a new USB driver is available:
- AccurET USB driver uses standard FTDI driver. When other devices using the same driver are installed on the computer, it can generate conflicts with AccurET USB driver (The symptom is the USB communication becoming very slow). To solve this issue, the new AccurET USB driver has been renamed. Therefore, it cannot be overwritten by another device driver. This request a complete re-installation of the AccurET USB driver. By using the new AccurET USB driver, it's mandatory to use at least EDI-4.22A and/or ComET-4.22A. For backwards compatibility, EDI-4.22A and ComET.4.22A are able to use old USB driver

1. INSTALLING USB DRIVER

USB ETEL devices can be used on Windows 7/8/10, **32 bits operating systems.**
From EDI 3.10A or ComET 2.05A, USB is also available for Windows 7/8/10 64 bits.

Installation on Windows 7/8/10:

1. Plug in your USB ETEL device

2. Depending on your Windows version, you can or not have a message indicating that Windows cannot install a driver automatically.

3. In any case, go in Control panel -> System -> Device manager

4. You will see an "AccurET device". Right-click on it and choose "Update driver"

5. Choose the second option "Find a driver on my computer"

6. Select the folder:
   ```
   driver\Win7-8 or Win10\usb\....
   ```
   of your ComET installation directory. Press next

7. Choose the second option "Find a driver on my computer"

8. When the assistant starts, choose the option "Display the list of available drivers…"

9. Choose "Other peripheral"

10. After that, choose to install from a "provided disk"

11. Select the folder
    ```
    driver\Win7-8 or Win10\usb\Win_32and64bits
    ```
    of your ComET installation directory

12. Windows will install the needed driver.

2. UPGRADING USB DRIVER

To upgrade properly the AccurET USB driver, process as follow:

Installation on Windows 7/8/10:

1. Plug in your USB ETEL device

2. Depending on your Windows version, you can or not have a message indicating that Windows cannot install a driver automatically.

3. In any case, go in Control panel -> System -> Device manager

4. You will see an "AccurET device". Right-click on it and choose "Uninstall device"

5. Check the box to remove the device driver and Uninstall it

6. Reinstall the new driver. Right click and choose "Scan for new hardware"

7. You will see an "AccurET device". Right-click on it and choose "Update driver"

8. Browse the ComET driver directory corresponding to your Windows version: driver\Win7-8 or Win10\usb\.... Press next

9. The driver installation starts and display a message when it's done.

3. OPENING USB DEVICE

The general syntax, when opening an EDI driver is:

dsa_open_u(DSA_DEVICE *dev, char_cp url);

The parameter « url » specifies the type of driver to be used and has the following general syntax:

etb : <driver> :<axis>

For a USB ETEL device, the driver has the following syntax:

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Examples:

Opening drive 0 connected Through USB:

```
DSA_DRIVE *drv = NULL;

int err;

if (err = dsa_create_drive(&drv))

        goto _error;

if (err = dsa_open(drv, "etb:USB:0");

        goto _error;
```

It is possible to open many USB devices but each device must have its own drive number.

By opening many USB devices, EDI will act as a "master". But be aware that no synchronisation between USB devices will be done. If you send a command to many devices, EDI will send it to each device one after the other.

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