FBTools

smar

FIRST IN FIELDBUS

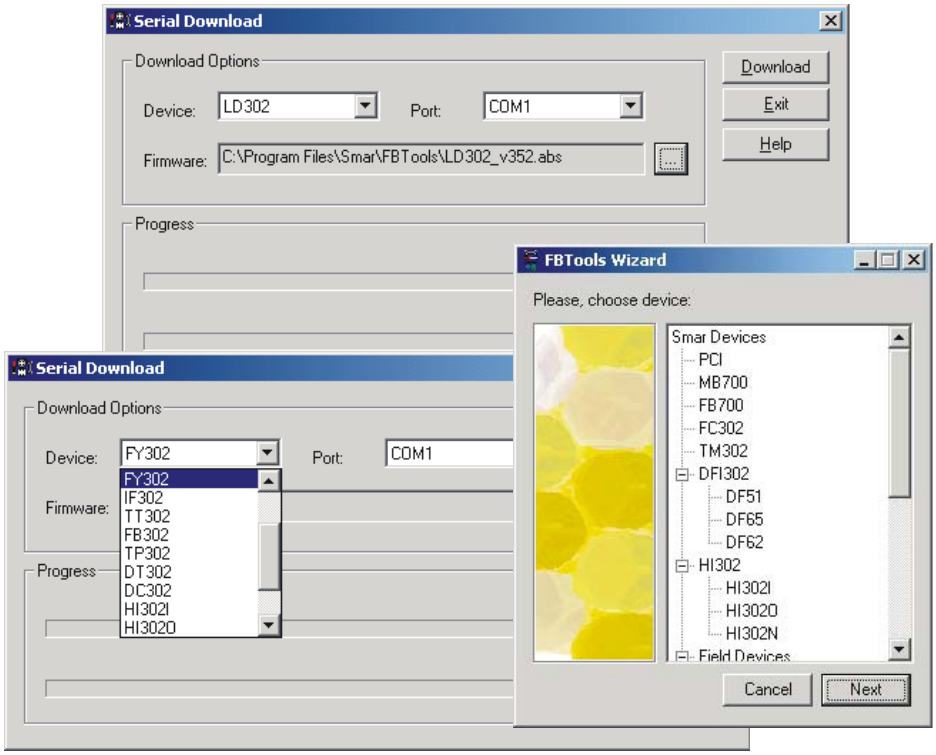
APR / 05

FBTools

VERSION 1.0

FOUNDATION

FBTools



FBTOOLSME

smar

web: www.smar.com

Specifications and information are subject to change without notice.
For the latest updates, please visit the SMAR website above.

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Introduction

FBTools is an utility software used to perform **Firmware Download** on any Smar Fieldbus equipment:

- PCI302 cards
- DFI302 Processors (DF51, DF62, DF65, etc)
- Field Devices
- Gateways (FB700, MB700, HI302,etc)

This allows the user to upgrade the firmware (executable program installed in the FLASH memory) of the equipment using the latest versions provided in SMAR Web Site: www.smar.com

NOTE
The firmware can be downloaded while the equipment is installed and turned on.

Before You Begin

- New firmware can be incompatible with old systems, and vice versa. Please contact Smar Technical Support if you are not sure about the compatibility with your current system.

Warning

- Equipment functionality **WILL STOP** (Function Blocks execution, links, supervision, scheduling, Fieldbus communication, etc.) while its firmware is being downloaded.
- Before proceeding to the next step, **CERTIFY THAT YOUR PROCESS WILL BE STABLE** under any condition described in this procedure.

How to Download a Firmware

1. Run *FBTools Wizard.exe*, choose a device, and then click the *Finish* button.
2. Depending on the chosen device (DFI302, PCI302 Card, Field Device or Gateways), follow the specific steps.

Field Devices

- LD302
- FI302
- FP302
- FY302
- IF302
- TT302
- FB302
- DC302
- DT302
- LD292
- FR302
- TP302

1. Choose a serial port.

2. Connect the FDI302 (Firmware Download Interface) to the PC serial port chosen in item 1 and to the equipment.

Figure 1 – Firmware Download Interface

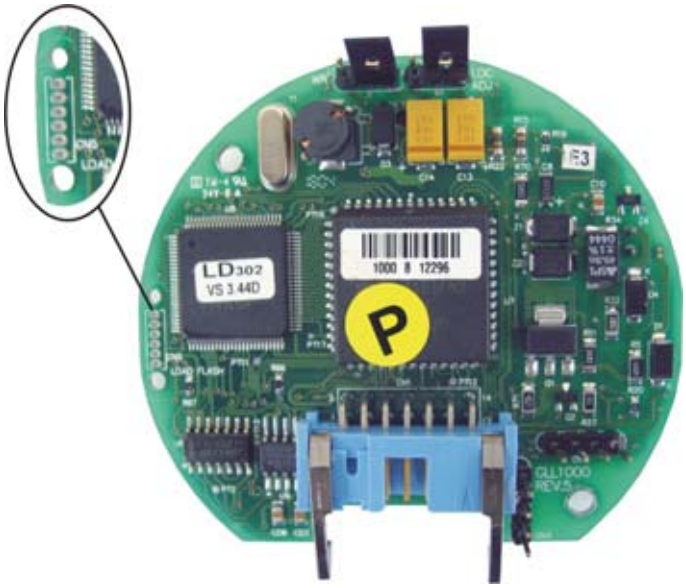


Figure 2 – Field Device's Connection Point with the FDI302

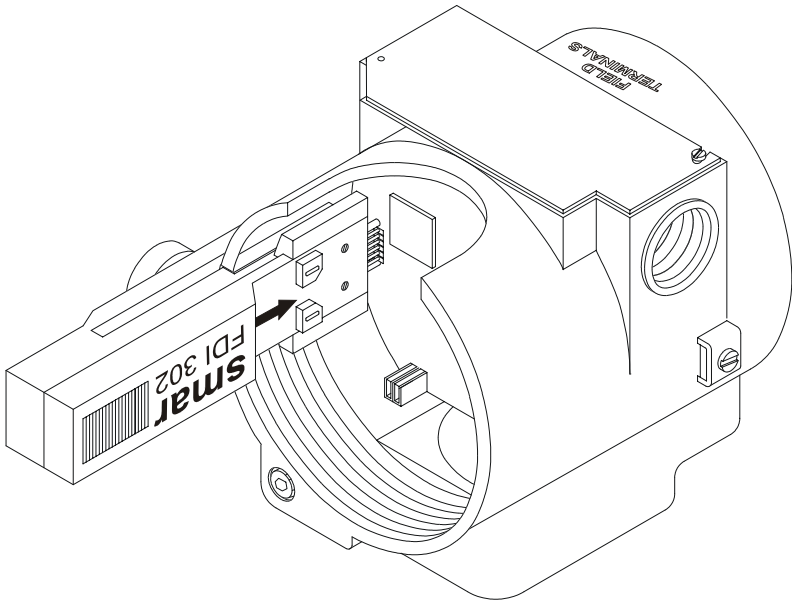
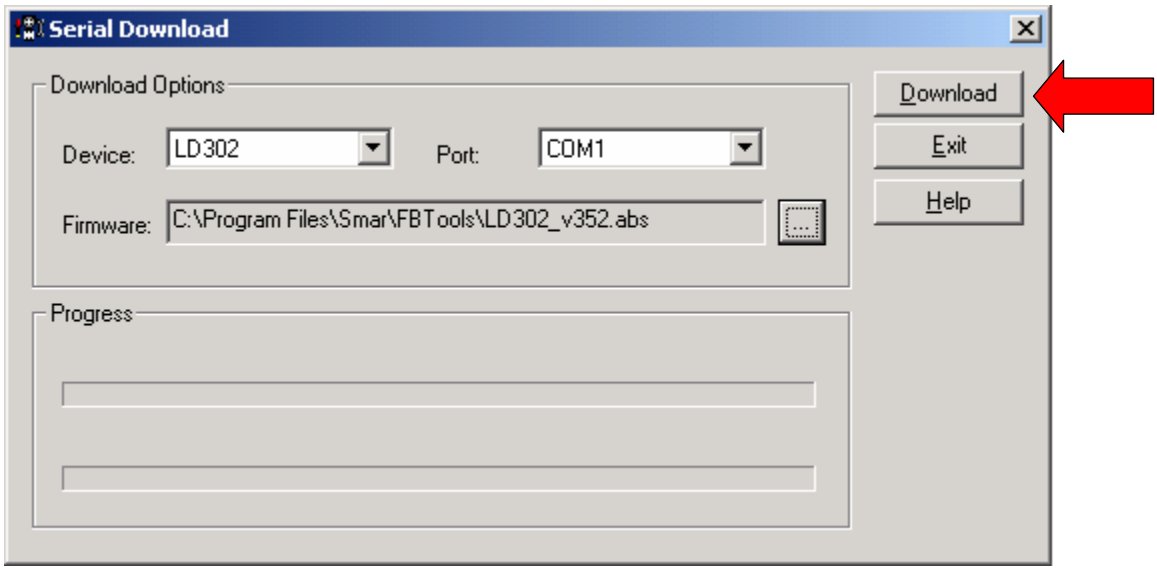


Figure 3 – Interface connected to the device

3. Select and open a <*namexx*>.ABS file (where *name* is the Field Device name - e.g. LD302 and xx is the firmware version).

4. Click the **Download** button to start the firmware download.



5. When the download is complete disconnect the FDI302.

6. Reset the Field Device.

NOTES
• Certify that no other application or resident program in the PC is using the I/O port or IRQ of the selected serial port. • After resetting, the Field Device will automatically execute a factory initialization procedure (**Fact Init** appears on the display), if necessary.

PCI302, DFI302 and Gateways

- PCI302
- DFI302 Processors (DF51, DF62, DF65, etc)
- FB700
- MB700
- FC302 (AuditFlow)
- TM302
- HI302
  - HI302I
  - HI302O
  - HI302N

To update the firmware, please refer to the equipment user's manual.