

# Advantys OTB Updating Embedded Software

35015001 02  
03/2007





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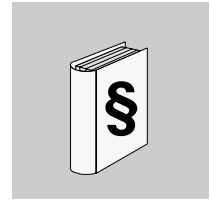
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# Safety Information



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## Important Information

### NOTICE

Read these instructions carefully, and look at the equipment to become familiar with the device before trying to install, operate, or maintain it. The following special messages may appear throughout this documentation or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.



The addition of this symbol to a Danger or Warning safety label indicates that an electrical hazard exists, which will result in personal injury if the instructions are not followed.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

### **DANGER**

DANGER indicates an imminently hazardous situation, which, if not avoided, **will result** in death or serious injury.

### **WARNING**

WARNING indicates a potentially hazardous situation, which, if not avoided, **can result** in death, serious injury, or equipment damage.

### **CAUTION**

CAUTION indicates a potentially hazardous situation, which, if not avoided, **can result** in injury or equipment damage.

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**PLEASE NOTE**

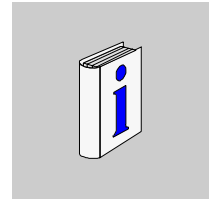
Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

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## About the Book



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### At a Glance

**Document Scope** This guide describes explains how to update embedded software of Advantys OTB modules.

**Validity Note** The present guide applies to Advantys OTB modules with a V2.0 or later version embedded software.

### Related Documents

Title of Documentation	Reference Number
Instruction sheet for OTB modules	1724121
Instruction sheet for TSX CUSB485 converters	35013735

**User Comments** We welcome your comments about this document. You can reach us by e-mail at [techpub@schneider-electric.com](mailto:techpub@schneider-electric.com)

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# Updating Advantys OTB Network Interface Module Hardware

# 1

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## At a Glance

### Introduction

This chapter deals with setting up the hardware and software required to update the embedded software of Advantys OTB modules using the EXECLoader software.

### What's in this Chapter?

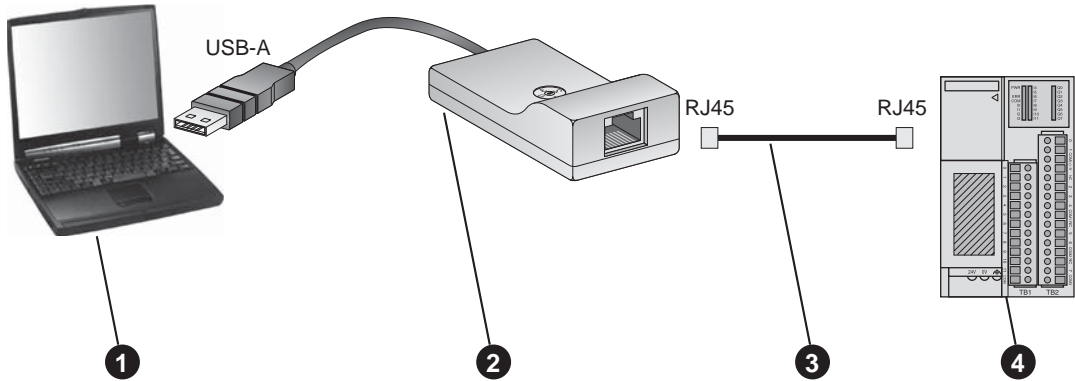
This chapter contains the following topics:

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## Hardware Installation

### Connections

The hardware connections are illustrated in the diagram below:



Number	Description	Reference
1	PC (Windows 2000 or Windows XP)	-
2	USB converter / RS485	TSX CUSB485
3	Network cable RJ45 / RJ45	VW3 A8306R••
4	Advantys OTB network interface module	OTB 1•0DM9LP

**Note:** The TSX CUSB485 converter must be shut down and its encoder wheel set to 0 "TER MULTI"

## Software Installation

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**Introduction** The embedded software updates for Advantys OTB modules are available on the FTX ES0• CD and the <http://www.telemecanique.com> website.

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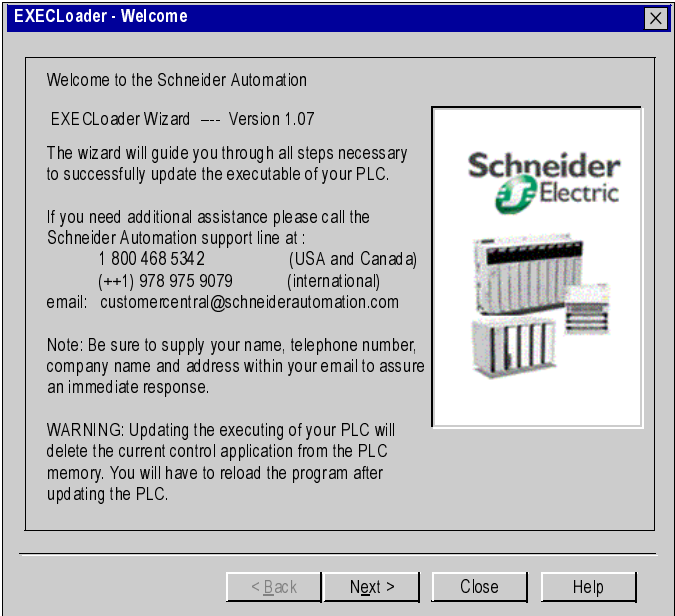
**Installation** The EXECLoader software is not installed by default during installation of the Advantys Configuration Tool. To install EXECLoader, you must select the **Complete** or **Custom** installation of the Advantys Configuration Tool.

**Note:** If Advantys Configuration Tool has been installed without EXECLoader, re-launch the Advantys Configuration Tool installation program and choose the **Modify option**.

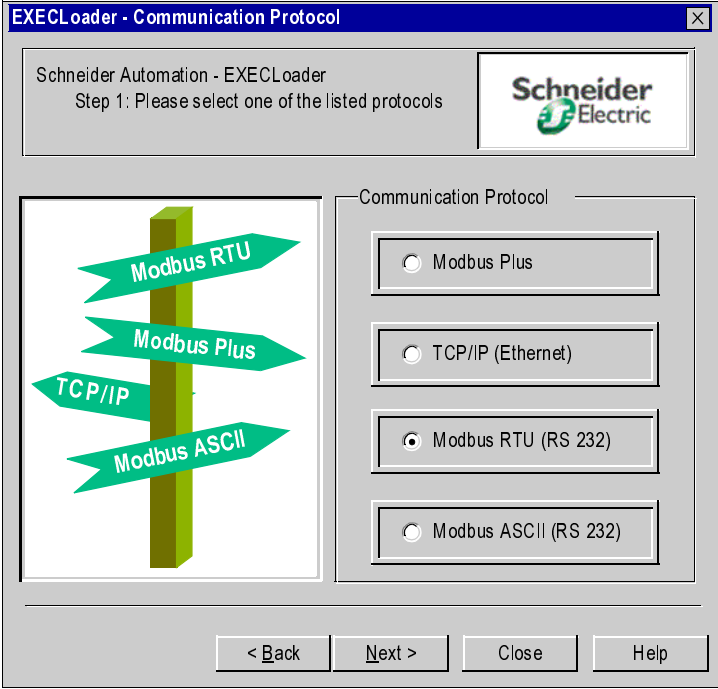
To update the embedded software of an Advantys OTB module, carefully follow the steps below.

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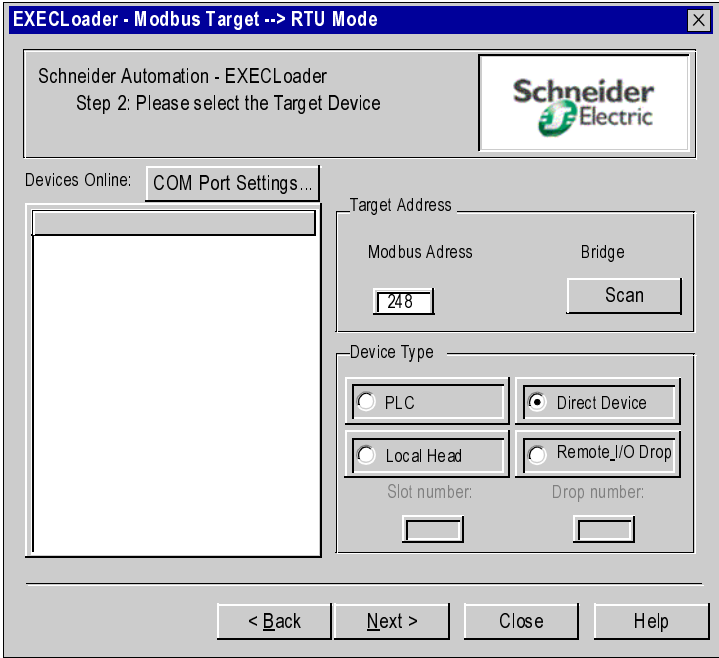
**Launching  
EXECLoader**

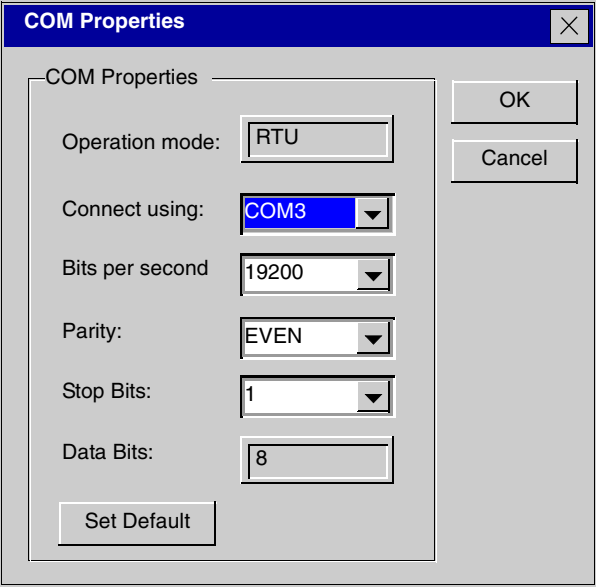
Step	Action
1	<p>Launch the software via <b>Start → Programs → Schneider Electric → Advantys → Firmware Loader</b>.</p> <p><b>Result :</b> The welcome window below appears.</p> 
2	<p>Click to the next step by clicking <b>Next&gt;</b>.</p>

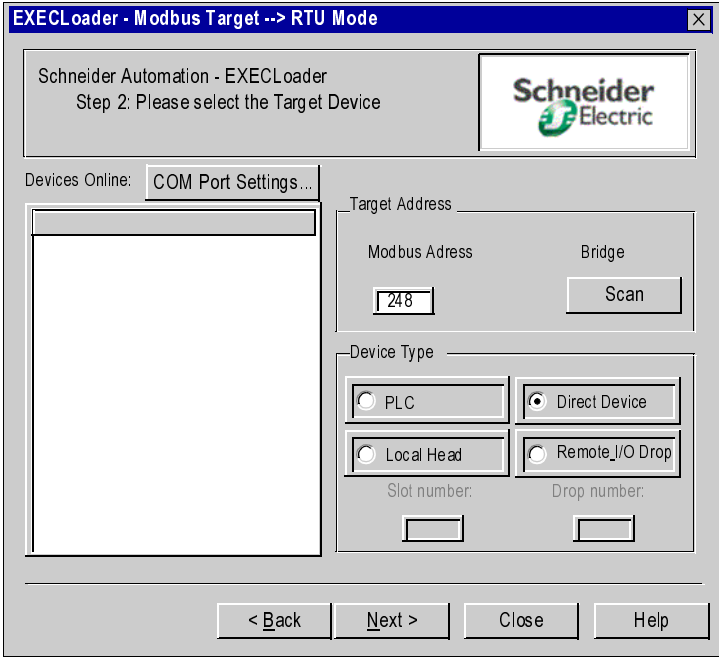
## Choosing The Protocol

Step	Action
1	<p>The <b>Communication Protocol</b> window opens up:</p> 
2	Choose <b>Modbus RTU (RS232)</b> .
3	Click to the next step by clicking <b>Next&gt;</b> .

## Communication Configuration

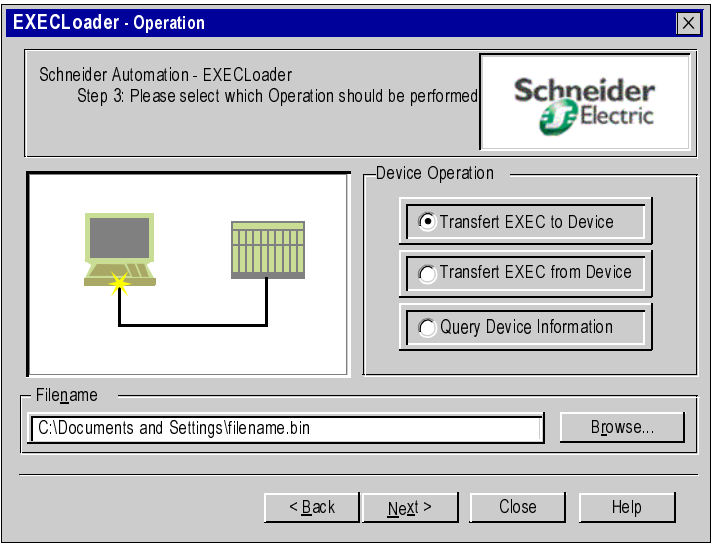
Step	Action
1	<p>The <b>Modbus Target --&gt; RTU Mode</b> window opens up:</p> 
2	Enter <b>248</b> in the <b>Modbus Address</b> field.
3	In the <b>Device Type</b> zone choose <b>Direct Device</b> .
4	Click <b>COM Port Settings</b> .

Step	Action
5	<p>The <b>COM Properties</b> window opens up:</p>  <p>Configure the parameters as indicated below.</p> <p><b>Note:</b> Choose the port on which the OTB is connected. Click <b>OK</b> to continue.</p>

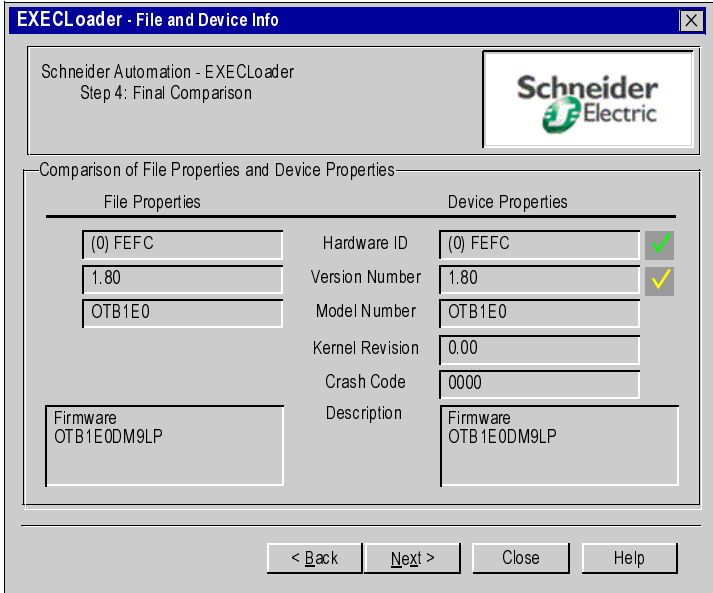


Step	Action
6	<p>The <b>Modbus Target --&gt; RTU Mode</b> window opens up:</p>  <p>Click to the next step by clicking <b>Next&gt;</b>.</p>

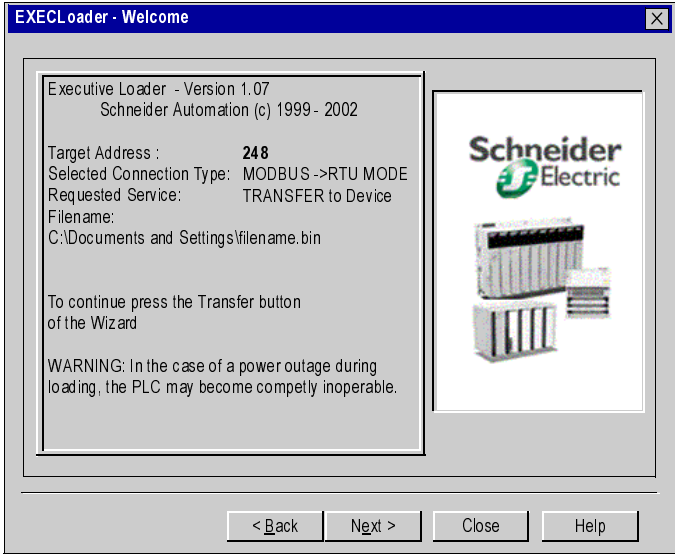
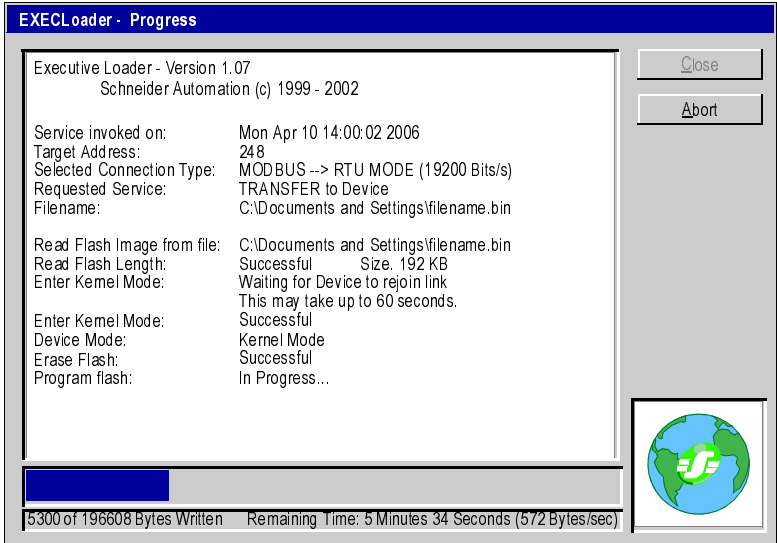


**Operation**

Step	Action
1	<p>The <b>Operation</b> window appears:</p> 
2	<p>Select <b>Transfer EXEC to Device</b>.</p> <p><b>Note:</b> The <b>Filename</b> field must contain the *.bin file of the embedded software. The <b>Browse...</b> button is used to find the *.bin file on the PC.</p>
3	<p>Click to the next step by clicking <b>Next</b>.</p>

**Downloading  
The Embedded  
Software**

Step	Action
1	<p>The <b>File and Device Info</b> window appears:</p>  <p>You can view information relating to the selected file and the information displayed on the polled module on this page.</p>
2	<p>To be able to update the embedded software, both check marks must be green  or yellow . If one of the 2 check marks is red, the file and the product are incompatible. Click <b>Next</b> to continue.</p>


Step	Action
3	<p>The following window appears:</p>  <p>Click <b>Next</b> to continue.</p>
4	<p>The following window appears:</p>  <p>The embedded software is downloading in the OTB module.</p>

## ! CAUTION

### UNEXPECTED EQUIPMENT OPERATION

Do not interrupt the download process before completion. The OTB will no longer operate if the download was unsuccessful.

**Failure to follow this instruction can result in injury or equipment damage.**

Step	Action
5	<p>The window below appears when the embedded software download is complete:</p> <div style="border: 1px solid gray; padding: 5px;"> <div style="background-color: #000080; color: white; padding: 2px; font-weight: bold;">EXECLoader - Progress</div> <div style="border: 1px solid gray; padding: 5px; margin-top: 5px;"> <p>Executive Loader - Version 1.07 Schneider Automation (c) 1999 - 2002</p> <p>Service invoked on: Mon Apr 10 14:00:02 2006 Target Address: 248 Selected Connection Type: MODBUS --&gt; RTU MODE (19200 Bits/s) Requested Service: TRANSFER to Device Filename: C:\Documents and Settings\filename.bin</p> <p>Read Flash Image from file: C:\Documents and Settings\filename.bin Read Flash Length: Successful Size: 192 KB Enter Kernel Mode: Waiting for Device to rejoin link This may take up to 60 seconds.</p> <p>Enter Kernel Mode: Successful Device Mode: Kernel Mode Erase Flash: Successful Program Flash: Successful Exit Kernel Mode: Waiting for Device to rejoin link... This may take up to 60 seconds Exit Kernel Mode: Successful</p> <p>The transfer operation completed SUCCESSFULLY</p> </div> <div style="text-align: right; margin-top: 5px;"> <input type="button" value="Close"/>   <input type="button" value="Abort"/> </div> <div style="text-align: right; margin-top: 10px;">  </div> <div style="background-color: #000080; height: 15px; width: 100%; margin-top: 5px;"></div> <div style="display: flex; justify-content: space-between; font-size: small; margin-top: 5px;"> <span>196608 Bytes Written</span> <span>Remaining Time: Done (580 Bytes/sec)</span> </div> </div>

### End of Update

The embedded software of the Advantys OTB module is now updated.