Advantys OTB Updating Embedded Software

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Safety Information



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

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



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

Updating Advantys OTB Network Interface Module Hardware

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This chapter deals with setting up the hardwar embedded software of Advantys OTB module	
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	embedded software of Advantys OTB module This chapter contains the following topics: Topic

Hardware Installation



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

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

Launching EXECLoader

Step	Action
1	Launch the software via Start → Programs → Schneider Electric → Advantys → Firmware Loader. Result : The welcome window below appears.
	Welcome to the Schneider Automation EXE CL oader Wizard Version 1.07 The wizard will guide you through all steps necessary to successfully update the executable of your PLC. If you need additional assistance please call the Schneider Automation support line at : 1 800 468 5342 (USA and Canada) (++1) 978 975 9079 (international) email: customercentral@schneiderautomation.com Note: Be sure to supply your name, telephone number, company name and address within your email to assure an immediate response. WARNING: Updating the executing of your PLC will delete the current control application from the PLC memory. You will have to reload the program after updating the PLC.
2	Click to the next step by clicking Next >.





Step	Action
1	The Modbus Target> RTU Mode window opens up:
	EXECLoader - Modbus Target> RTU Mode
	Schneider Automation - EXECLoader Step 2: Please select the Target Device
	Devices Online: COM Port Settings
	Modbus Adress Bridge
	Scan
	Device Type
	PLC Direct Device
	C Local Head
	Slot number: Drop number:
	< <u>B</u> ack <u>N</u> ext > Close Help
2	Enter 248 in the Modbus Address field.
3	In the Device Type zone choose Direct Device.
4	Click COM Port Settings.

Communication

Step	Action			
5	The COM	Properties window ope	ens up:	
		COM Properties		X
		COM Properties –		ок
		Operation mode:	RTU	Cancel
		Connect using:	COM3	
		Bits per second	19200 🔻	
		Parity:	EVEN -	
		Stop Bits:	1	
		Data Bits:	8	
		Set Default		

Step	Action
6	The Modbus Target> RTU Mode window opens up: EXECL oader - Modbus Target> RTU Mode X
	EXECLoader - Modbus Target> RTU Mode × Schneider Automation - EXECLoader Schneider Automation - EXECLoader Step 2: Please select the Target Device Schneider
	Devices Online: COM Port Settings Target Address Modbus Adress Bridge 248 Scan Device Type Device Type Device Type C Direct Device C Local Head Remote_I/O Drop Slot number: Drop number: C Drop numbe
	< <u>B</u> ack <u>N</u> ext > Close Help
	Click to the next step by clicking Next >.

Operation

Step	Action		
1	The Operation window appears:		
	EXECLoader - Operation		
	Schneider Automation - EXECLoader Step 3: Please select which Operation should be performed		
	Device Operation		
	© Transfert EXEC to Device		
	Transfert EXEC from Device		
	C Query Device Information		
	Filename		
	C:\Documents and Settings\filename.bin Browse		
	< <u>B</u> ack <u>Nex</u> t > Close Help		
2	Select Transfer EXEC to Device.		
	Note: The Filename field must contain the *.bin file of the embedded software. The Browse button is used to find the *.bin file on the PC.		
3	Click to the next step by clicking Next .		

Downloading		
The Embedded Software	Step	Action
Sollware	1	The File and Device Info window appears: EXECLoader - File and Device Info
		Schneider Automation - EXECLoader Step 4: Final Comparison
		Comparison of File Properties and Device Properties File Properties Device Properties
		(0) FEFC Hardware ID (0) FEFC 1.80 Version Number 1.80 OTB1E0 Model Number OTB1E0
		Kernel Revision 0.00 Crash Code 0000 Firmware Description Firmware
		OTB1E0DM9LP
		< <u>B</u> æck <u>Nex</u> t > Close Help
		You can view information relating to the selected file and the information displayed on the polled module on this page.
	2	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 Next to continue.

Step	Action
3	The following window appears:
	EXECL oader - Welcome
	Executive Loader - Version 1.07 Schneider Automation (c) 1999 - 2002
	Target Address : 248 Selected Connection Type: MODBUS ->RTU MODE Requested Service: TRANSFER to Device Filename: C:\Documents and Settings\filename.bin
	To continue press the Transfer button of the Wizard WARNING: In the case of a power outage during
	loading, the PLC may become competly inoperable.
	< <u>Back</u> Next > Close Help
	Click Next to continue.
4	The following window appears:
	EXECL oader - Progress Executive Loader - Version 1.07 Close
	Executive Loader - Version 1.07 Schneider Automation (c) 1999 - 2002
	Service invoked on: Mon Apr 10 14:00:02 2006 Target Address: 248 Selected Connection Type: MODBUS> RTU MODE (19200 Bits/s) Requested Service: TRANSFER to Device Filename: C:\Documents and Settings\filename.bin
	Read Flash Image from file: C:\Documents and Settings\filename.bin Read Flash Length: Successful Size. 192 KB Enter Kemel Mode: Waiting for Device to rejoin link This may take up to 60 seconds. Enter Kemel Mode: Successful
	Device Mode: Kernel Mode Erase Flash: Successful Program flash: In Progress
	5300 of 196608 Bytes Written Remaining Time: 5 Minutes 34 Seconds (572 Bytes/sec)
	The embedded software is downloading in the OTB module.

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	The window below appears when the embedded software download is complete:
	EXECLoader - Progress
	Executive Loader - Version 1.07 Close Schneider Automation (c) 1999 - 2002 Abort Service invoked on: Mon Apr 10 14:00:02 2006 Target Address: 248 Selected Connection Type: MODBUS> RTU MODE (19200 Bits/s)
	Requested Service: TRANSFER to Device Filename: C:\Documents and Settings\filename.bin
	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. 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 The transfer operation completed SUCCESSFULLY
	196608 Bytes Written Remaining Time: Done (580 Bytes/sec)
	196608 Bytes Written Remaining Time: Done (580 Bytes/sec)
6	Click Close to quit EXECLoaderl.

End of Update

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