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INSTRUCTIONS

How to use WinFPI to download flash in to a 2000R or REF550 relay.

- 1. Prior to all flash firmware procedures, upload and save to file all 2000R settings using WinECP.
- 2. Connect the communication cable to the front communications port. Use a standard 9 pin cable with a null modem connector for ALL 2000Rs except the 2000R OCI version and REF550. ABB recommends to use a computer with a NATIVE SERIAL port or an EXPRESSCARD-to-SERIAL converter. Please note that some USB-to-SERIAL converters will not work properly with the flashing procedure.
- 3. Open WinFPI. This can be accessed from within WinECP at File, WinFPI or from the desktop Start, Programs, ABB Applications, WinFPI.

FPI status, version 1.07					×
File Relay Advanced Help					
Relay Port Boot ROM		2			
Monitor Version Unknown	Current Relay Status	DISCONNECTED			
Class Type Class 2000R 💌	File Info:				
Unit Type	Name: C:\DPU2000R\or	utv535_13.cbi	-	Browse	
	Class Type: 2000R	Unit Type:	DPU		
App version: Unknown	App Version: VE 35	Style	SMT.F		
Style: Unknown	App 70/30/1. 170.00		Iouri		
PC Port	COM1	F		1	
Baud Rate	9600		DownLoad		
riame	None, 8, 1		FXIT	-	
Relay Address	1		Lenit .		
Catalog: Uni	nown				

4. Verify that the settings in the "Current Communication" settings box are set for proper communication with the relay.

- 5. Select the appropriate file to download to the relay. This file must have the ".cbi" file extension. If it has the ".abs" extension, then go to step 6. If it is a ".cbi" file then proceed to step 7.
- 6. From the WinFPI main menu bar, click on "File" and select "Compress S-Record File". A "Select S-Record File" box will pop up. Select the appropriate .abs file and press Open. The compression will take 2-3 seconds and the following box will appear.



Press OK, then "out.log" box will appear:

• (03/08/2013 14:39:46
	SXBIN32 V2.11 started
	Desides
	Warning, SRecord Address Out of Range, Will be Skipped
	Actual:00200b14_Min:00100000_Max:0017ffff SReportFunder-2.0pt/sReportAddresse-200b14_Ringsr/Distor
	00 00
	Compressing
	Compressing
	ID INFO HEADER RECORD
	Starting Urrset or input Binary ID Record: 0x400 Size of Input Binary ID Record: 0x10, 16
	Size of Output ASCII ID Header: 0xf1 241
	Contents of ASCII ID Header:
	reamble: UINGUUNG ProductClass: 2000B
'' F	RelayType: DPU
ł	NotherboardType: SMT-F
\	/ersion: V5.34 DuileManchan 2
t F	sullainumber: 3 BeleasedSoftware: True
_ 10	ReleaseDate: Fri Mar 08 14:39:43 2013



FPI status, version 1.07		×
File Relay Advanced Help		
Relay Port Boot ROM Monitor Version Unknown Class Type Class 2000R 💌	Current Relay Status DISCONNECTED File Info: Name: C:\DPU2000R\outv535_13.cbi	
App Version: Unknown Style: Unknown	Class Type: 2000R Unit Type: DPU App Version: V5.35 Style SMT-F	
Current Commur PC Port Baud Rate Frame Relay Address Catalog: Unit	Icom COM1 9600 None, 8, 1 EXIT nown	

7. Once the .cbi file is selected, press the "DOWNLOAD" button.

8. A "WAIT" box will appear and relay will reset itself and start the download process. "2000R Monitor" will be shown on first line of display.

VAIT	×
Preparing File to Download.	
Please WAIT!!	

- 9. The first step is the erasing of the old flash. The display will show "Flash Memory Erase in Progress", Then "Flash Memory Erase is Completed". This step takes about 5 seconds.
- 10. The next step is the downloading of the new flash. The display will show "XMODEM DOWNLOAD DOWNLOADING".

(During steps 8 and 9, a "WAIT" box will be shown in the lower taskbar. This can be maximized. It will show a status bar.)

11. When the download has been completed, the following box will appear:



Press OK. The relay will show "preparing to Run Application" on the display. The relay will then reboot and show "Self Test Failure" in the bottom line of the display and the Normal LED will be off. (See Note#1 for Monitor Versions below 2.0)

12. Hit System Reset on the 2000R relay. (Note on OCI DPU2000R and REF550 units, System Reset is accomplished by pressing the function keys F4 and F5 simultaneously for one second.) This will reset the relay and return it to a normal state

Note: The "Self test Failure" message is caused by a new feature that has been added. There is now a clock battery check. Since the NVRAM is now cleared out, when the relay reboots, it checks the value of the clock battery in NVRAM and finds it is zero. The relay then checks the clock battery and puts this value in NVRAM. When the relay is reset, it now has a value to check and returns to a normal state.

The NORMAL LED will now be on. The relay is now ready to be used.

Note#1 (For relays with a Monitor Version below 2.0)

For some older relays with a Monitor Version below 2.0 the following message will appear after clicking the OK.



The relay display will show "XMODEM DOWNLOAD Completed" Reboot the relay using the System Reset button. The relay will reboot with the relay display showing "Self Test Failure" Reboot the relay again using the System Reset button. The relay will reboot once again with the Normal light green.