Irrigation Caddy

Web Based Sprinkler Control System

Firmware Upgrade Instructions

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Firmware Upgrade

Steps:

- 1. Make sure the IrrigationCaddy device is powered off.
- 2. Download the Firmware from the IrrigationCaddy website at <u>http://irrigationcaddy.com</u> and put it in a directory on your system. The firmware comes packaged as a zip file, you will have to unzip the file onto your system.
- 3. From the IrrigationCaddy website, download the <u>Firmware Upgrade Utility</u> (<u>http://irrigationcaddy.com/docs/ENC_Loader.zip</u>).
- 4. Once downloaded, unzip the "ENC_Loader.zip" to a directory on your windows system.
- 5. Open your Windows Explorer, and navigate to the location where you unziped the utility

🕌 C:\temp\ICFirmwareUpgradeUtil\ENC_Loader		
Eile Edit View Favorites Tools Help		\odot
🕞 Back 🗸 🐑 🖌 🥋 Search 🖺 Folders 🛛 🚯 🗡 🎾 📰 🗸		
Address C:\temp\ICFirmwareUpgradeUtil\ENC_Loader		💌 🏓 Go
Name 🔺 Size Type Date Modified		
ENC_loader.exe 471 KB Application 7/14/2009 9:36 AM		
ENC_Loader.INI		
Click Here		
2 objects	471 KB	🛀 My Computer
Illustration 1: Run the Firmware Upgrade Utility		

6. The firmware upgrade utility will open. Then click on the "Capture Target" button.

🎢 LIA Loader Utility		×
File Erase Erase Data Erase Program	Target address: 230.10.10.11]
Record to Program: ? Program Record LIA Response: Clear Data Display	Click Here Configure LIA Modify IF Address Update Capture Target Locate LIA Reset LIA Stop Capture Read LIA	

Illustration 2: Capture the device for programming

7. Power the IrrigationCaddy device ON. The firmware upgrade utility should detect the device, and capture it.

🕡 LIA Loader Utility	
File	LIA Status: 0400 multicast IP packet processed Control PDU Seq #: 46 Data PDU Seq #: 00
Record to Program: Program Program Progra	IIA ID: E802 IP address: 192.168.2.200 LIA Status: 4400 multicast IP packet processed in loader mode Control PDU Seq #: 47 Data PDU Seq #: 00
LIA Response:	Configure LIA E802
Clear Data Display	Capture Target Locate LIA Reset LIA Stop Capture Read LIA

Illustration 3: Status changes when the device is captured

8. Click on the "File" button, and navigate to the location where you have stored the firmware

Open			<u>?×</u>
Look in: 🔒	1.161	💽 🧿 🚺 📑	-
ICEth-1.1b	Select the HEX file		
File <u>n</u> ame:		•	<u>O</u> pen
Files of type:	*.hex	•	Cancel

Illustration 4: Firmware HEX file 9. Once you have select the desired firmware file, click on the "**Program**" button.

🕡 LIA Loader Utility		×
LTA Loader Utility Image: C:\projects\PIC\Releases\1.1b1\ICEth-1.1b1.hex Erase Erase Erase Erase Erase Erase Erase Program Program Record LIA Response: Click Here	LIA Status: 0400 multicast IP packet processed Control PDU Seq #: 46 Data PDU Seq #: 00 LIA ID: E802 IP address: 192.168.2.200 LIA Status: 4400 multicast IP packet processed in loader mode Control PDU Seq #: 47 Data PDU Seq #: 00	
	Modify IP Address 192.168.2.200 Update	
<u> </u>	Capture Target Locate LIA Reset LIA	
Clear Data Display	Stop Capture Read LIA	

Illustration 5: Program the device with the new firmware

10. You will see the title bar flash with status information. Once finished programming, the status window will indicate so.

🎢 LIA Loader Utility	×
File C:\projects\PIC\Releases\1.1b1\\CEth-1.1b1.hex Erase Erase Data Erase Program Record to Program: ? Program Record LIA Response: Image: Image	Programming from C:\projects\PIC\Releases\1.1b1\ICEth- 1.1b1_bev Programming Complete HA ID: E802 IF address: 192.168.2.200 LIA Status: 4408 multicast IP packet processed in loader mode finished programing file Control PDU Seq #: 6216 Data PDU Seq #: 00 Configure LIA E802 Modify IP Address 192.168.2.200 Update Capture Target Locate LIA Reset LIA Stop Capture Read LIA

Illustration 6: Status changes when the Device has been successfully programmed

11. At this point the device has been reprogrammed, and you can release the device by clicking on the "**Reset LIA**" button, or closing the firmware upgrade utility.

🎢 LIA Loader Utility	
File C:\projects\PIC\Releases\1.1b1\ICEth-1.1b1.hex Erase Erase Data Erase Program Record to Program: ? LIA Response: Program Record Click Here Configure	ng from cs\PIC\Releases\1.1b1\ICEth- ng Complete E802 s: 192.168.2.200 s: 4408 st IP packet processed er mode d programing file DU Seq #: 6216 Seq #: 00 VIA
Clear Data Display	arget Locate LIA Reset LIA

12. Depending on the firmware you are uploading, the user interface files might also have to be upgraded. To do so, make sure the device is powered ON. Then go to http://irrigationcaddy/mpfsupload



Illustration 7: User interface upload

13. Use the "**Browse**" button to navigate to the user interface file location. The user interface file comes bundled with the firmware file, and it has a ".**bin**" extension.

Choose file					? ×
Look jn) 1.1b1		•	G 🖬 📑 🎫-	
My Recent Documents Desktop	.svn ICEth-1.1b1.hex ICEth-1.1b1.zip				
My Documents		Select the .bin file	1		
My Network Places	File <u>n</u> ame:	ii-1.1b1.bin		•	<u>O</u> pen
	Files of <u>type</u> :	All Files (*.*)		•	Cancel

Illustration 8: Select the user interface upgrade file

- 1. Click on the "Upload" button.
- 2. Once uploaded, close the browser and start a new browser to test the changes. (this is not required, but it will clear the cache, therefore showing the new user interface).

Troubleshooting

- If after the firmware / User Interface upgrade the device behaves erraticaly (i.e the web pages do not render properly, or you get numbers running across the screen) follow the following steps.
 - 1. Turn the device power OFF, then ON again
 - 2. Open a new browser, and enter the following URL:

http://irrigationcaddy/index.htm?reset

NOTE: A **"reset**" would cause your scheduling information to be lost, and all zone times will be reset to zero

- 3. If you still have issues, try reuploading the user interface file (the .bin file) by going to: http://irrigationcaddy/mpfsupload
- The device does not respond to <u>http://irrigationcaddy</u> anymore
- 1. Open a DOS prompt from the computer you are trying to access the IC device, and type the following:

nbtstat -R

2. Now, open a new browser and try again going to http://irrigationcaddy