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WattsOn-Mark II E4 Module Firmware Recovery Procedure

Requirements:

- A Windows PC with an Ethernet port
- Physical access to a WattsOn-Mark II meter with the E4 module (model W2-E4-xx)
- ETport firmware file(with filename "etport-e4-X.XX.frm", where X.XX is a version number)

Setup:

The procedure makes use of the "TFTP Client" optional Windows feature. If it is not enabled (or if it's unknown whether it is enabled or not) for a particular PC, follow the following setup steps. This only needs to be done once.

Note that the following steps describes the procedure on Windows 10. It may be slightly different for other operating system versions.

- 1. Click on the Windows icon in the taskbar to open the menu.
- 2. Type "Turn Windows features on or off", and press the Enter key.
- 3. Find "TFTP Client" in the list, and check the box next to it.
- 4. Click OK, and click through the wizard to install it.

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Turn V	/indows features on or off			?
To turn a	feature on, select its check box. To turn a	a feature o	off, clear it	ts
check bo	ox. A filled box means that only part of the	e feature i	s turned	on.
	Simple TCPIP services (i.e. echo, daytim	ne etc)		^
• 🗆	SMB 1.0/CIFS File Sharing Support			
\checkmark	SMB Direct			
	Telnet Client			
	TFTP Client			
	Virtual Machine Platform			
	Windows Hypervisor Platform			
	Windows Identity Foundation 3.5			
± 🗹	Windows PowerShell 2.0			
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	Windows Projected File System			
	Windows Sandbox			×
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Procedure:

- 1. Disconnect power from the meter.
- 2. Set the meter's rotary switch to the "8" position.



- 3. Connect the Ethernet port of the meter **directly** to the PC's ethernet port (i.e., do not connect it through a router).
- 4. Apply power to the meter.
- 5. Click on the Windows icon in the taskbar to open the menu. Type "Ethernet settings", and press the Enter key. Click "Change adapter settings".



6. Right click on your ethernet adapter, and click "Properties."

7. Click on "Internet Protocol Version 4 (TCP/IPv4) and click the "Properties" button.

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 - Record the existing settings somewhere so that they can be easily restored later. Click "Use the following IP address:", and enter the following values into each field, and click OK:

IP address: **10.10.10.11** Subnet mask: **255.0.0.0** Default gateway: **10.10.10.10**

Internet Protocol Version 4 (TCP//P	v4) Properties	2
General		
You can get IP settings assigned as this capability. Otherwise, you need for the appropriate IP settings.	tomatically if your network supports of to ask your network administrator	
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(ii)Up the following IP address:		
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gitemate ONS server:	4 4 4	
Ueldate settings upon exit	Adgement	ĺ
	OK Cancel	

9. Open a command prompt. Click on the Windows icon in the taskbar to open the menu, type "Command Prompt", and press the Enter key.

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10. Type the following command into the command prompt, and press the Enter key:

- 11. Wait for the transfer to complete. Once it has completed, wait an additional 3 minutes for the device to apply the update. Do not disconnect power from the meter during this time (the procedure can be safely restarted if the device loses power unintentionally).
- 12. Set the meter's rotary switch back to the "1" position.
- 13. Power cycle the meter.