

# DPM SERIES MM-WAVE POWER METER



## WEB INTERFACE User reference

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# Contents

<b>1. COPYRIGHT AND STATEMENTS</b>	<b>2</b>
1.1 Copyright information	2
1.2 Other Vendor Product Compatibility Disclaimer	2
<b>2. USER REFERENCE</b>	<b>3</b>
2.1 Connecting to DPM Series Power Meter	3
2.2 PowerMeter Tab	4
2.3 Settings Tab	8

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# 1. COPYRIGHT AND STATEMENTS

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## 1.1 COPYRIGHT INFORMATION

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While every effort has been made to verify operation of this product with many different mm-wave products and communication networks, ELVA-1 makes no claim of compatibility between its products and other vendors' equipment. It is assumed that users have thoroughly evaluated this product's performance in the communications and other engineering environment in which it will be used.

## 2. USER REFERENCE

### 2.1 CONNECTING TO DPM SERIES POWER METER

The DPM could be connected to a local network using a network cable with an RJ-45 connector. A default IP address is pre-configured for the DPM (192.168.127.191), and this IP address can be modified later within the web interface.

1. To connect to the DPM device, enter the DPM's IP address into the browser's address bar [refer to marker #1 in Fig. 1].

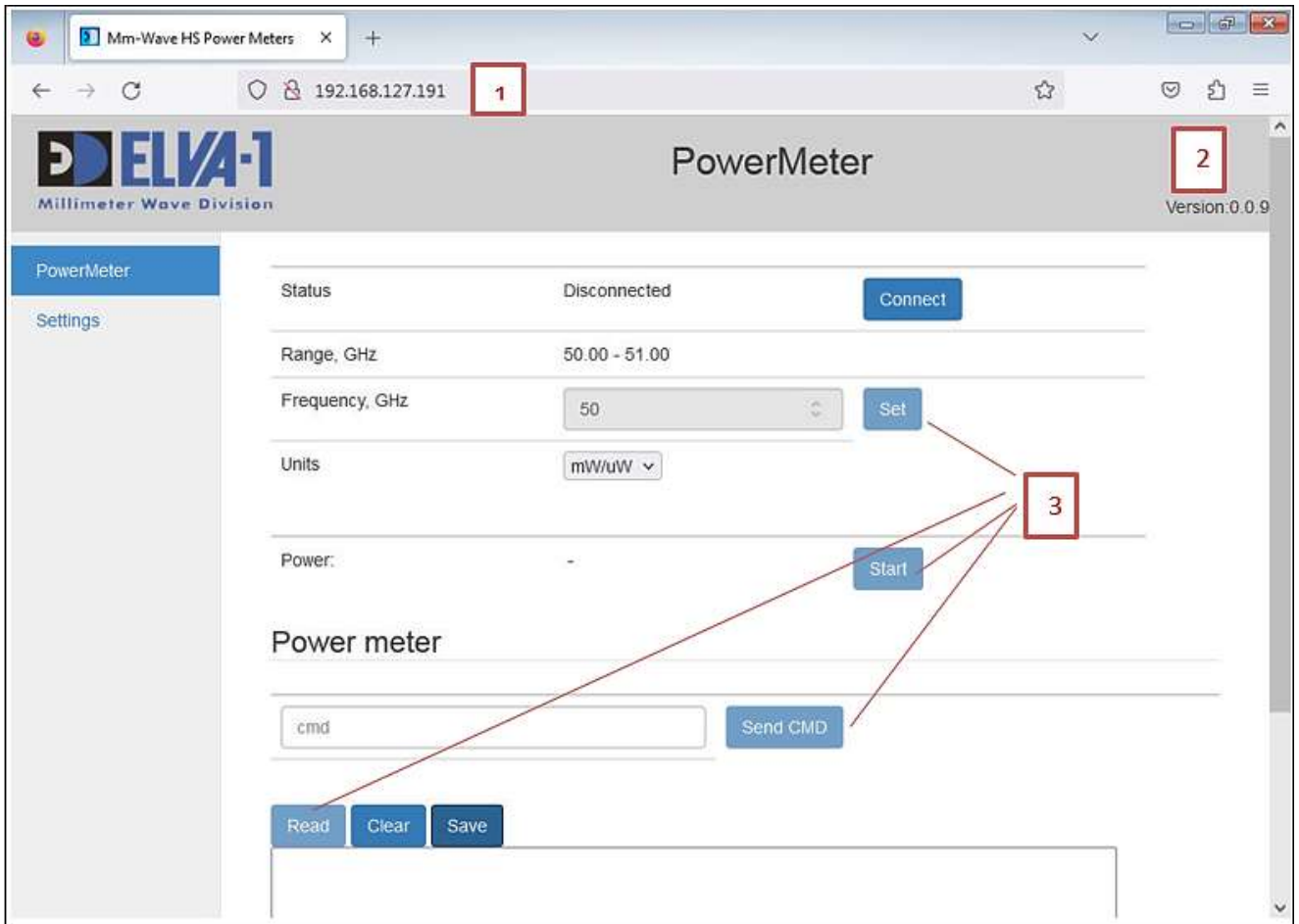


Fig.1 Web interface start page

The software version is indicated in the upper right corner [marker #2, Fig.1]

Please note that not the all buttons are active after the page loads [marker #3, Fig.1]

## 2.2 POWERMETER TAB

- Click the 'Connect' button to proceed. The 'Disconnect' status will change to 'Connect' [refer to marker #1 in Fig. 2], the operating frequency range will be displayed [refer to marker #2 in Fig. 2], and all DPM functions will become available.

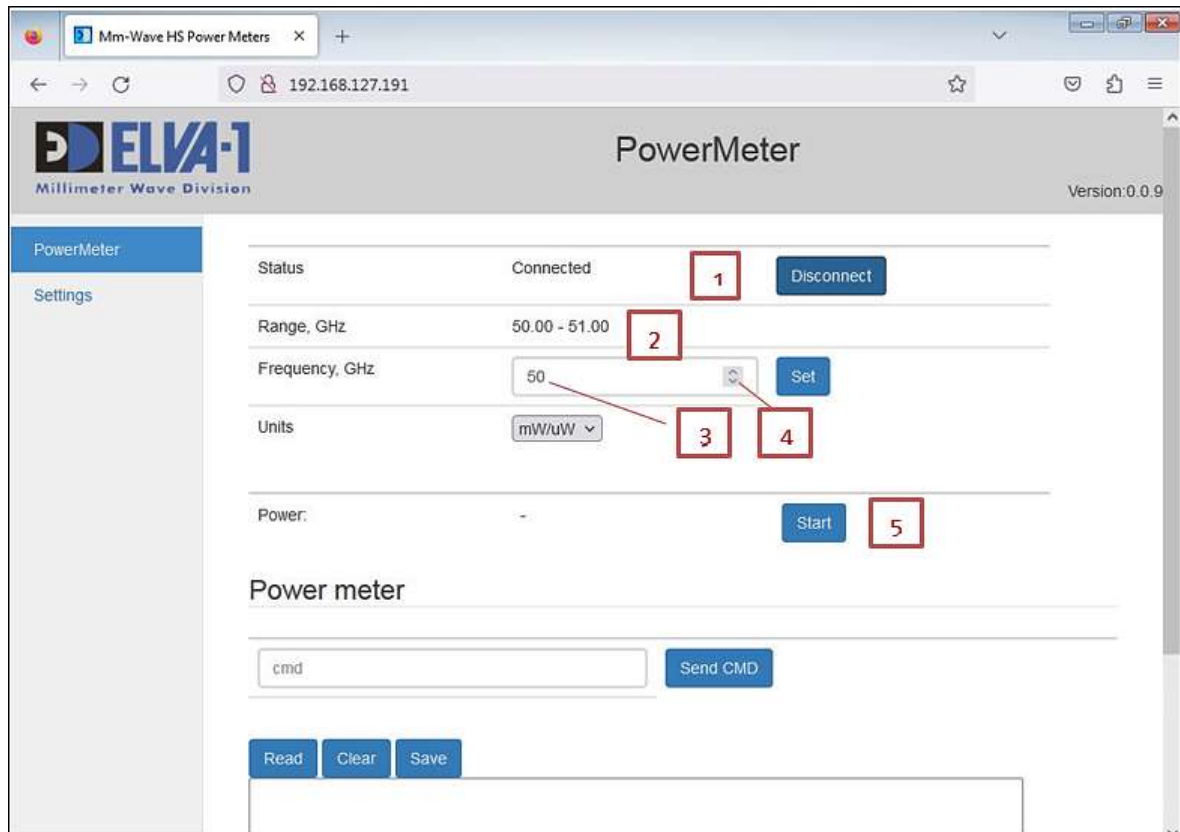


Fig. 2. Web interface after the 'Connect' button has been pressed

- Set the frequency [marker #3, Fig. 2]. There are two ways to do this:
  - Use the arrows to change the frequency by the step specified in Settings [marker #4, Fig. 2].
  - Enter the desired frequency value in the 'Frequency' field and press 'Enter' on the keyboard or click the 'Set' button in the web interface.
- You can change the units of power measurement by selecting from the dropdown list [marker #1, Fig. 3].
- Click the 'Start' button to begin displaying the measured power [marker #5, Fig. 2].
- Click the 'Stop' button to end the measurements [marker #1, Fig. 4].
- You can send a command from the User Manual Appendix list without requiring a line ending symbol. After entering the command in the 'cmd' field [marker #1, Fig. 5], click the 'Send CMD' button [marker #2, Fig. 5].
- The command response will be displayed below [marker #1, Fig. 6].

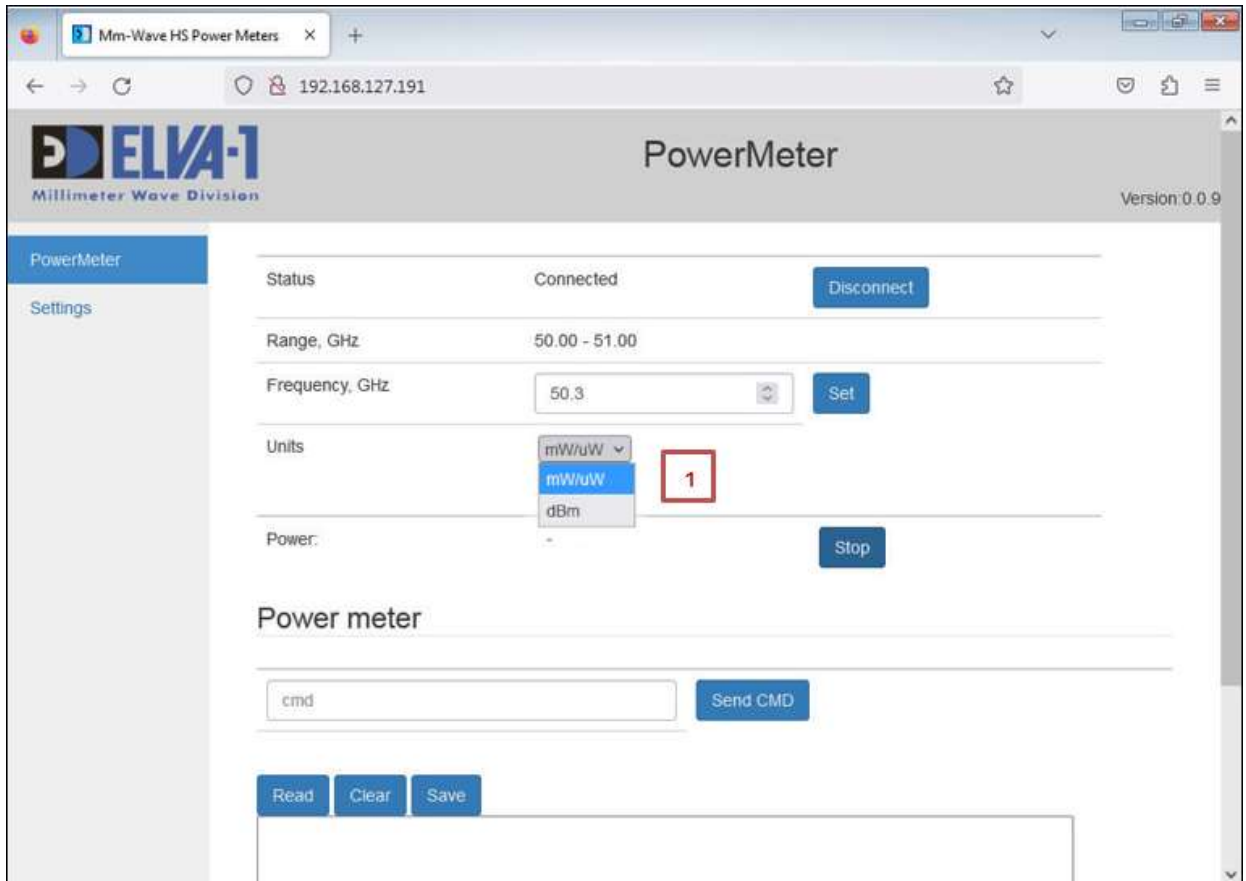


Fig.3. Changing the units of power measurement

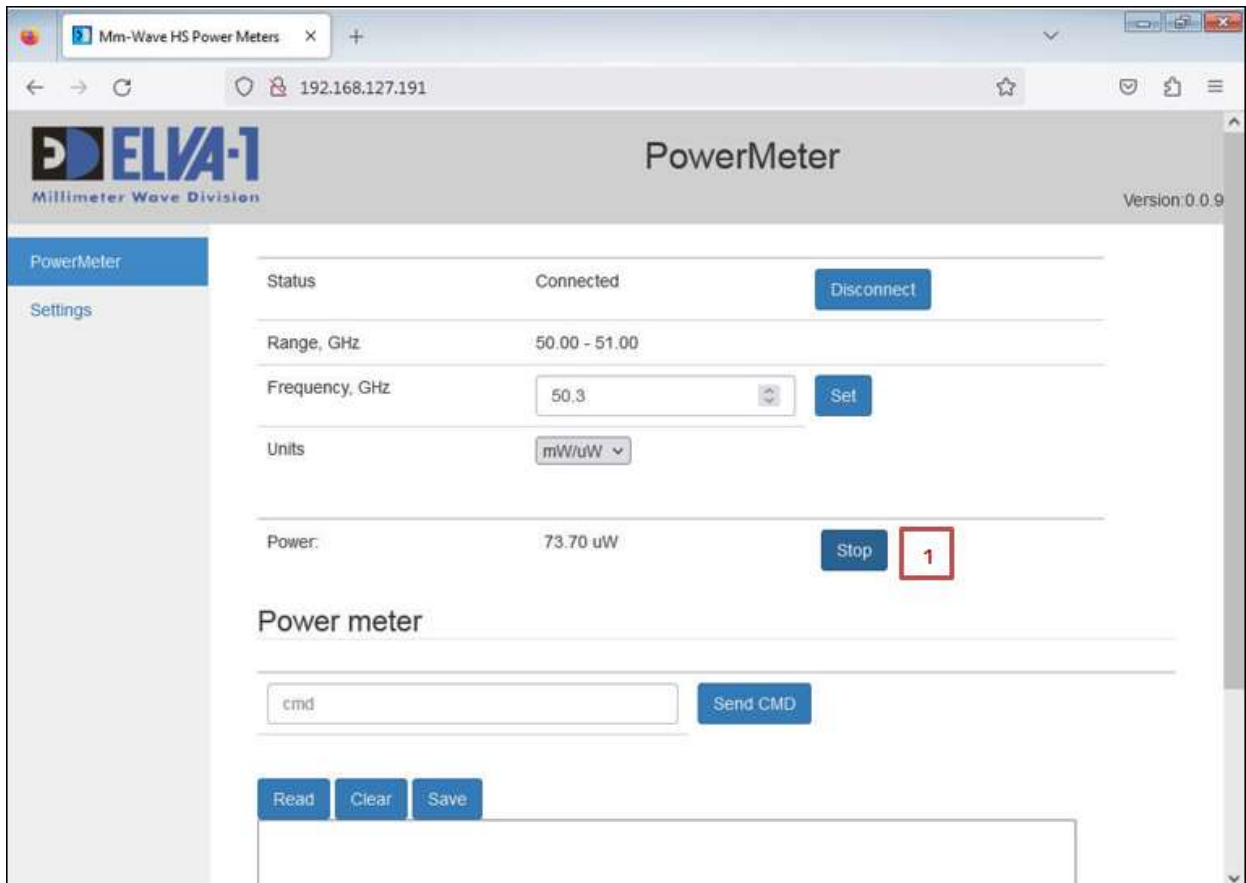


Fig.4. Power measurement during operation

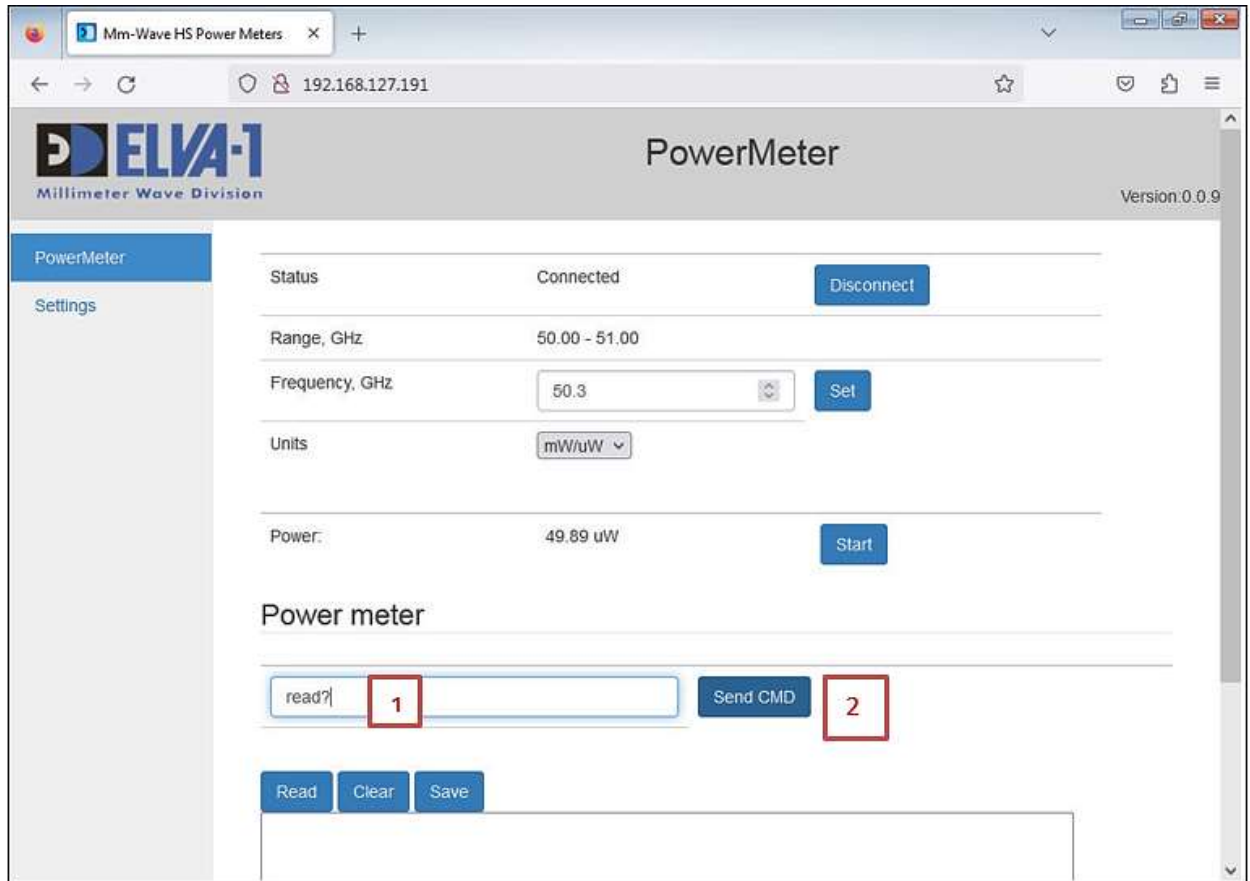


Fig.5. Using command line (CMD)

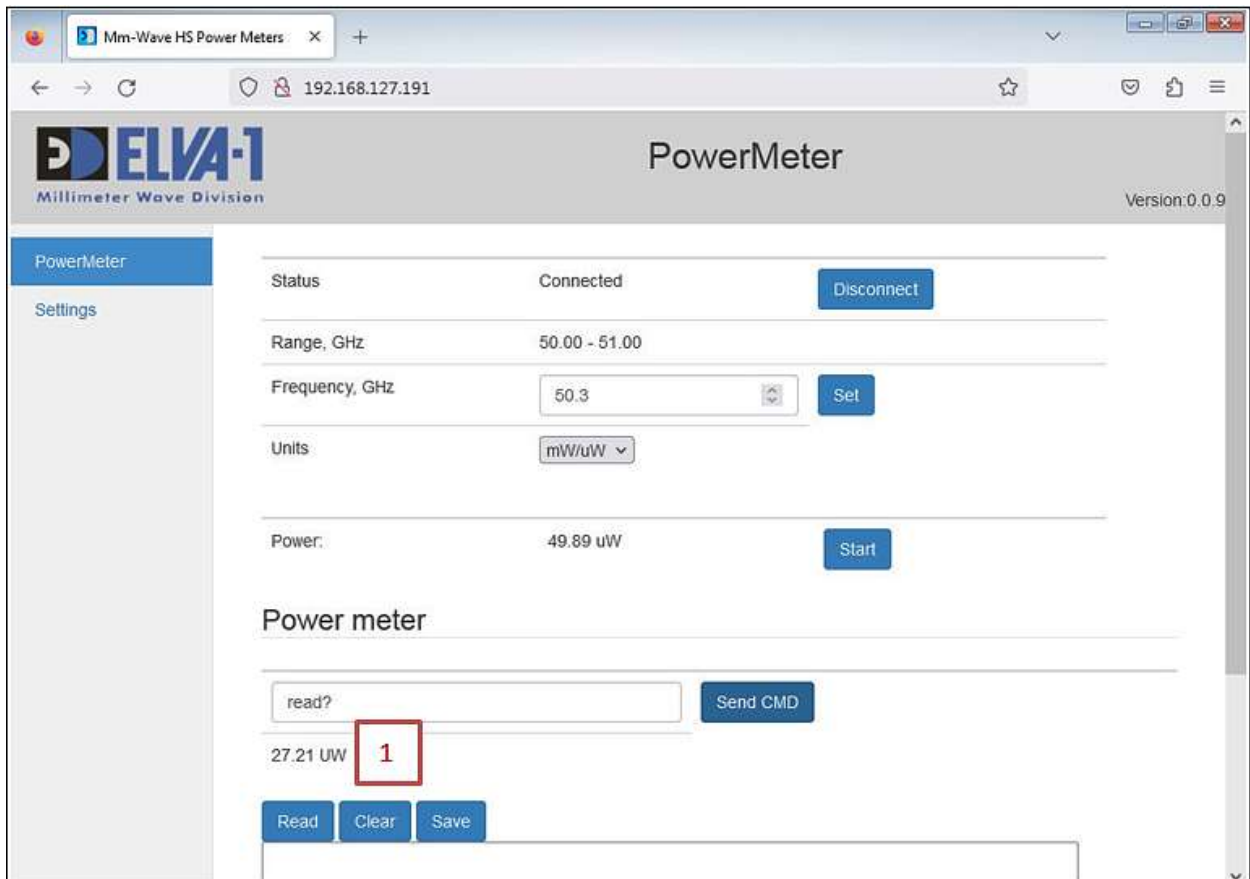


Fig.6. Command response

## 9. Read/Clear/Save buttons and measurement result textarea:

The following functions are assigned to the buttons below,

- **Clear:** This option clears the contents of the measurement result textarea. Note that this textarea may not be empty at first start; this is not an error and is associated with testing and configuring the device. For correct operation, click the 'Clear' button [marker #1, Fig. 7].
- **Read:** To display the set frequency and measured power value in the textarea, click 'Read' [marker #2, Fig. 7]. To display multiple measurements, simply press the 'Read' button successively.
- **Save:** Values displayed in the measurement result textarea can be saved to a file using the 'Save' button [marker #3, Fig. 7]. Refer to the dialog box shown in Fig. 8 for further details.

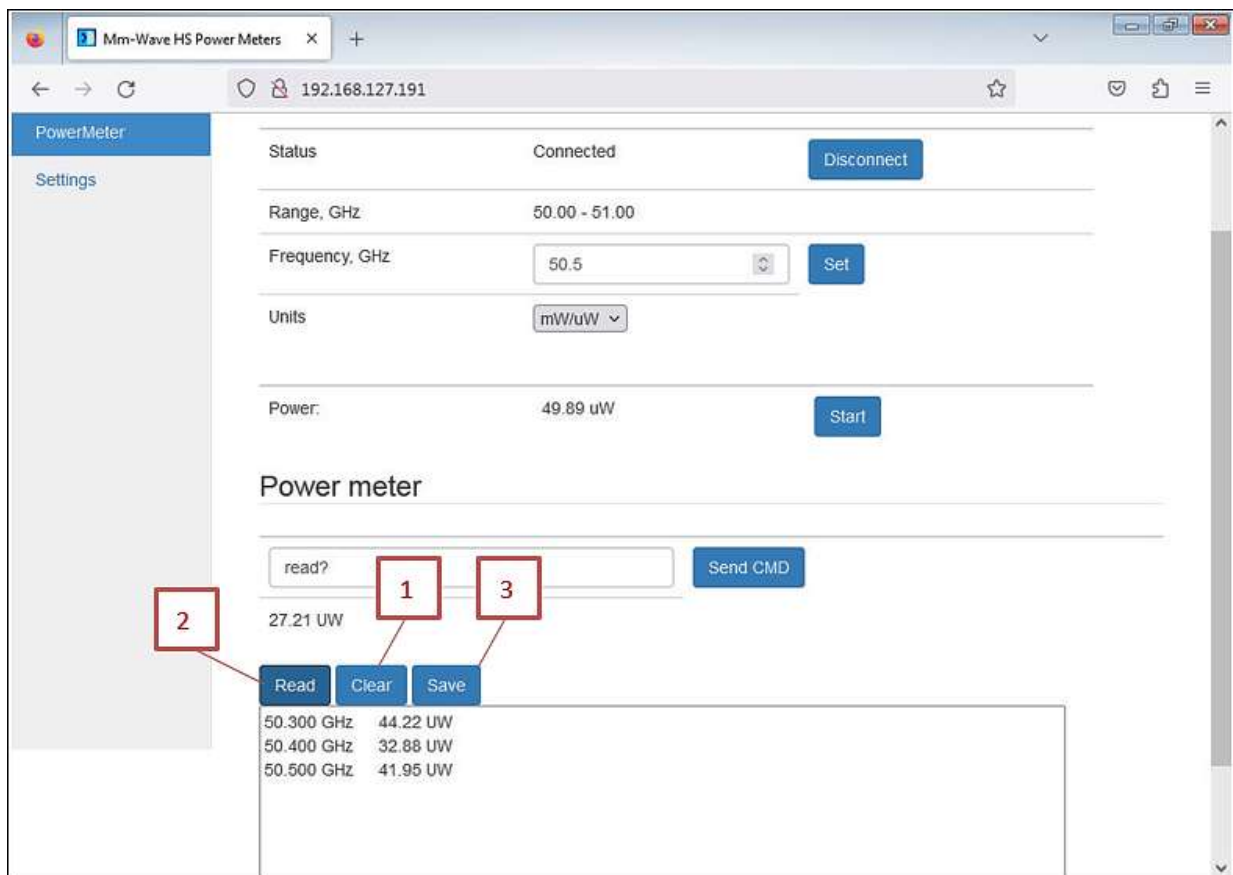


Fig.7. Read/Clear/Save buttons



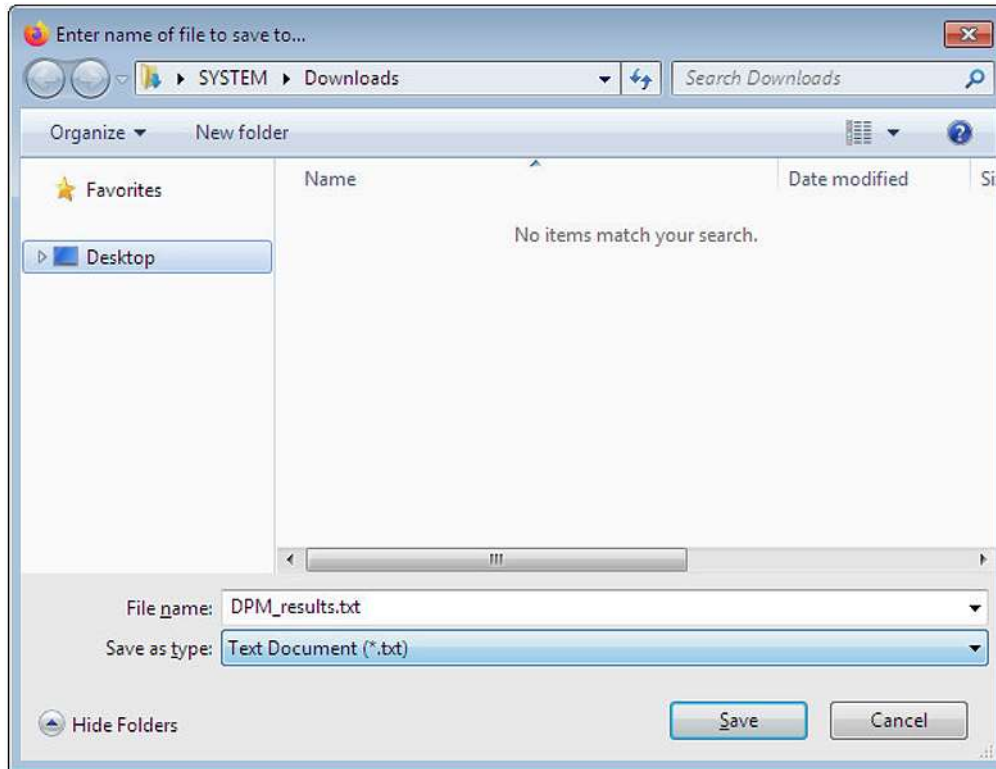


Fig.8. File Save dialog box

## 2.3 SETTINGS TAB

The following controls are available at the 'Settings' tab:

### 1. **IP** [marker #1, Fig. 9]:

- The default DPM IP address is 192.168.127.191. To change the IP address on your choice, enter the desired value from the keyboard [marker #2, Fig. 9] and press the 'Set' button [marker #3, Fig. 9]. An error dialog box will appear [Fig. 10].

Enter the new DPM IP address in the browser address bar [marker #1, Fig. 1].

### 2. **Step**:

- This setting determines the frequency tuning step using arrows [marker #4, Fig. 2]. You can select values from the dropdown list [Fig. 11].

### 3. **Average Count**:

- This parameter represents the number of measurement averages used in power calculations. The range of values is 1-250, with a default value of 50, and a recommended value of 50 [Fig. 12].

### 4. **FECC Table 1/2** [marker #4, Fig. 11]

- These tables contain calibration coefficients used to account for frequency-dependent sensitivity of the detector. Usually, one mode (Tab1=Tab2) is provided in the DPM, while the other mode is used in DPMs with or without additional attenuators and couplers.

### 5. **Beeper** [marker #5, Fig. 11]:

- When switched ON, the device emits a beep sound each time it requests an action.

### 6. **Software Update** [marker #6, Fig. 11]:

- To perform a software update, press the 'Browse' button [marker #7, Fig. 11] to select the update file.

- In the software update dialog box, select the file [marker #1, Fig. 13], and click the 'Open' button [marker #2, Fig. 13]. The file must be named "dpm.zip."

- Then, click the 'Submit Query' button [marker #8, Fig. 11]. Subsequently, an information page will appear [Fig. 14]. Please wait until DPM device restarts.

- The end of the update process is indicated by a blinking symbol '\*' on the DPM display [Fig. 15] (if there was no connection with the DPM) or its disappearance (if the connect button was pressed).

**\*\*Note\*\***: There is a 'Connect' button on the PowerMeter tab. The firmware can be updated with or without this button pressed. If 'Connect' is pressed, the DPM display shows an '\*' indicating remote operation mode. Option: if the DPM has been placed in remote mode by pressing the 'Connect' button on the PowerMeter tab, the end of the update process is indicated by the disappearance of the '\*' symbol on the display. If the DPM has been in Manual mode, the end of update is indicated by the appearance of the '\*' symbol and its continued disappearance.

- Afterward, reload the web page by entering the DPM IP in the address bar [marker #1, Fig. 1].

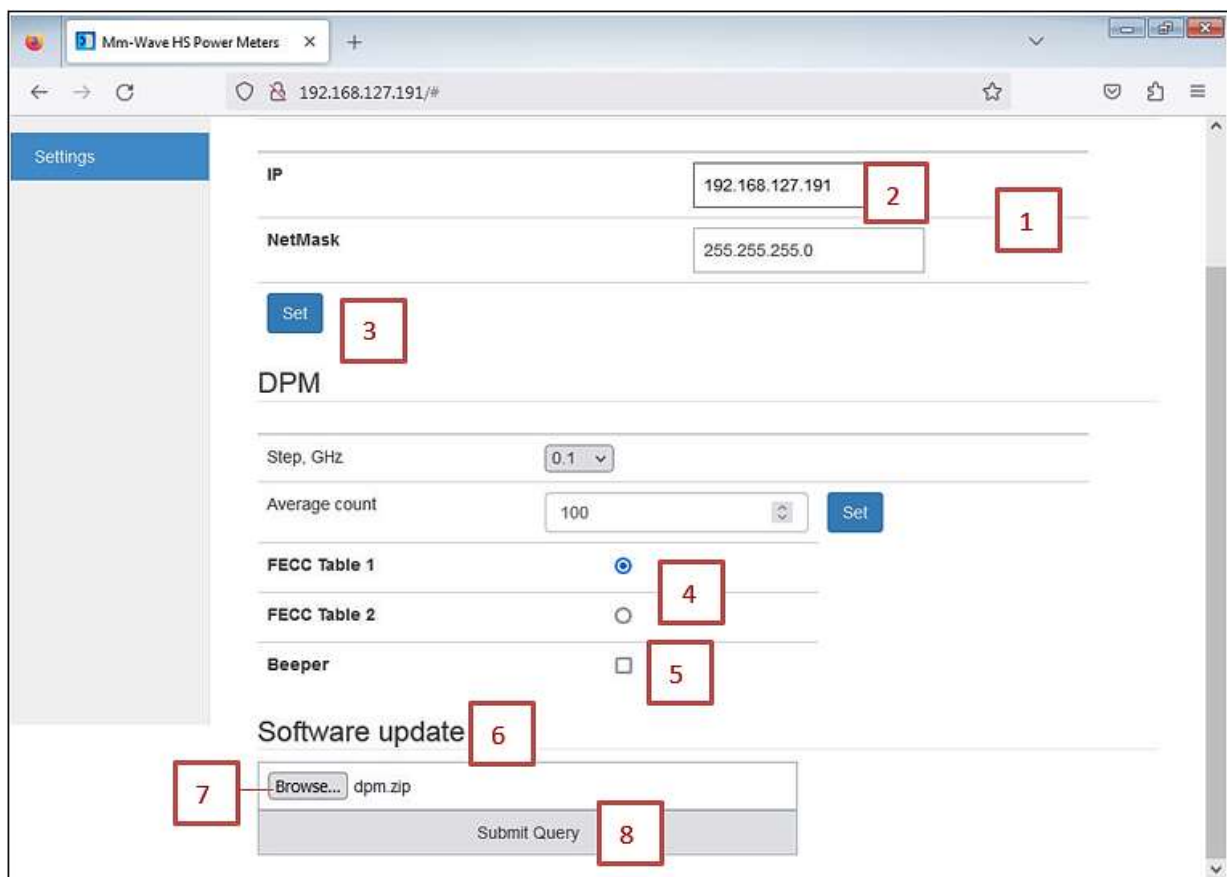


Fig.9. Settings tab controls

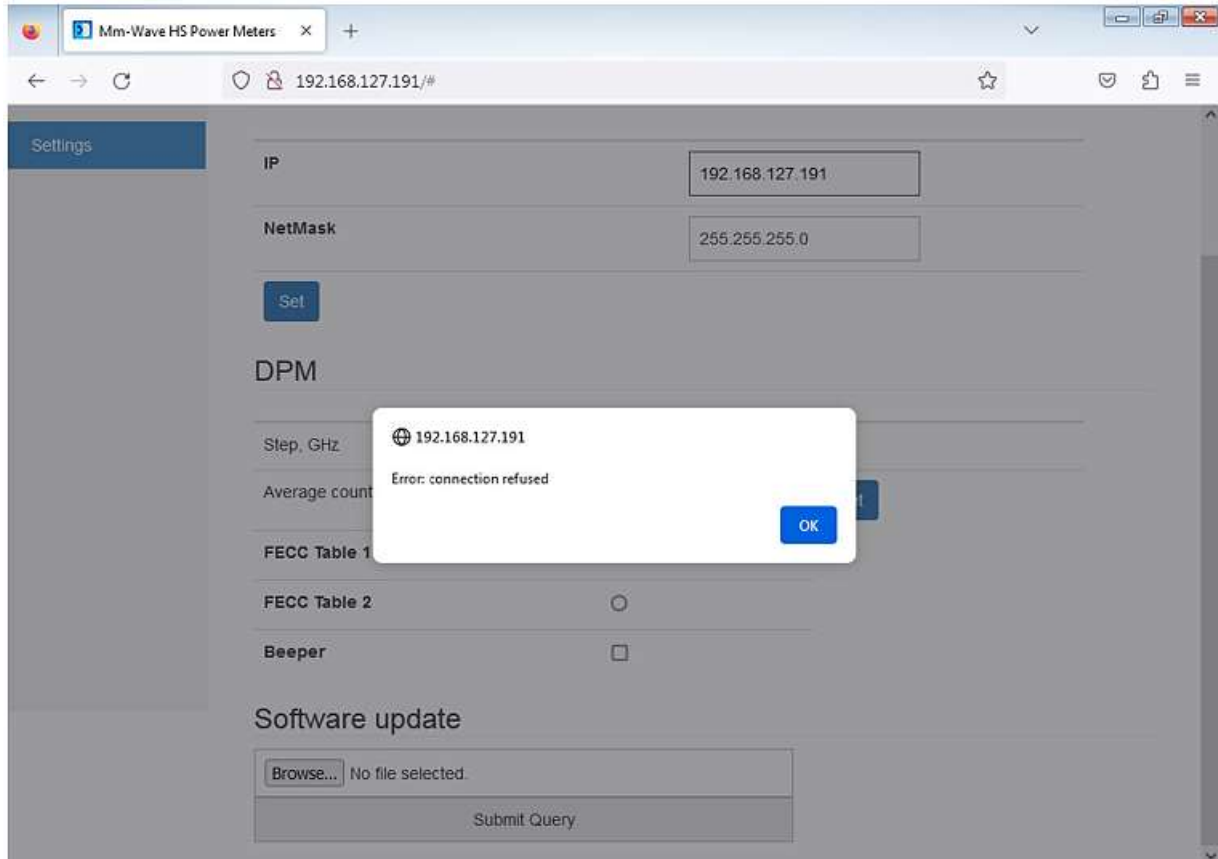


Fig.10. Connection error message

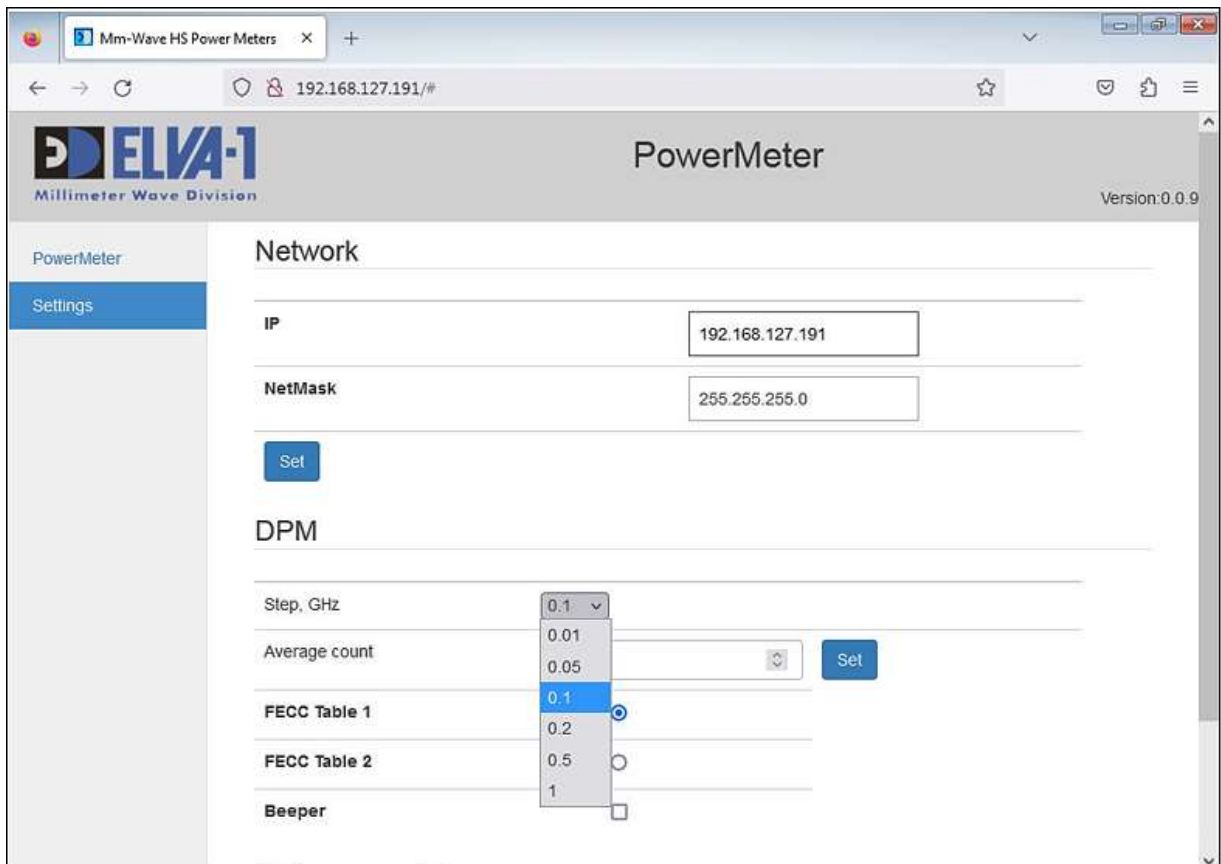


Fig.11. Frequency tuning step values

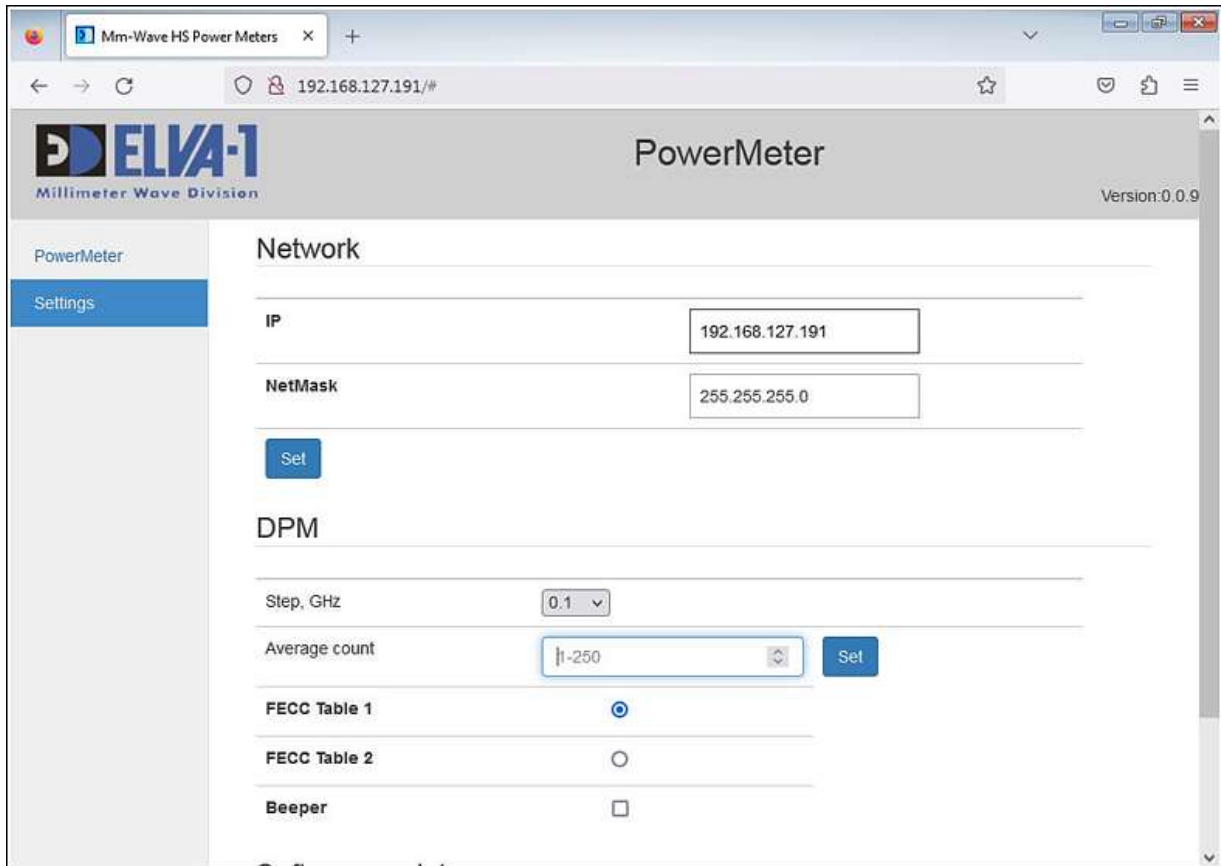


Fig.12. Average count setup

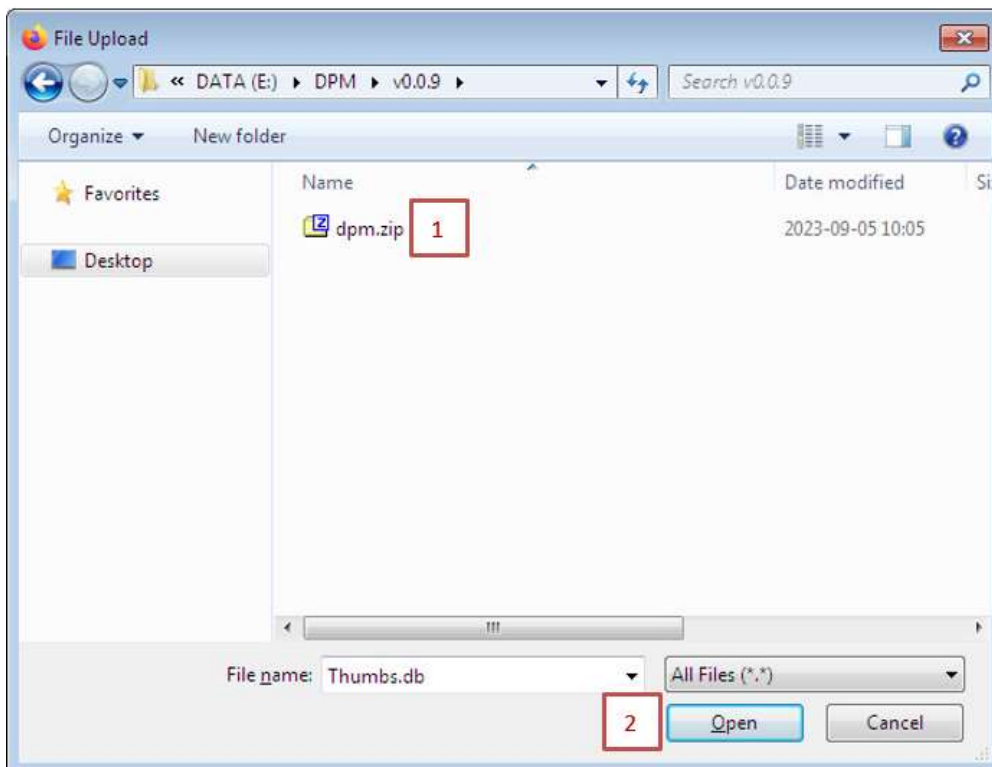


Fig.13. Software update dialog box

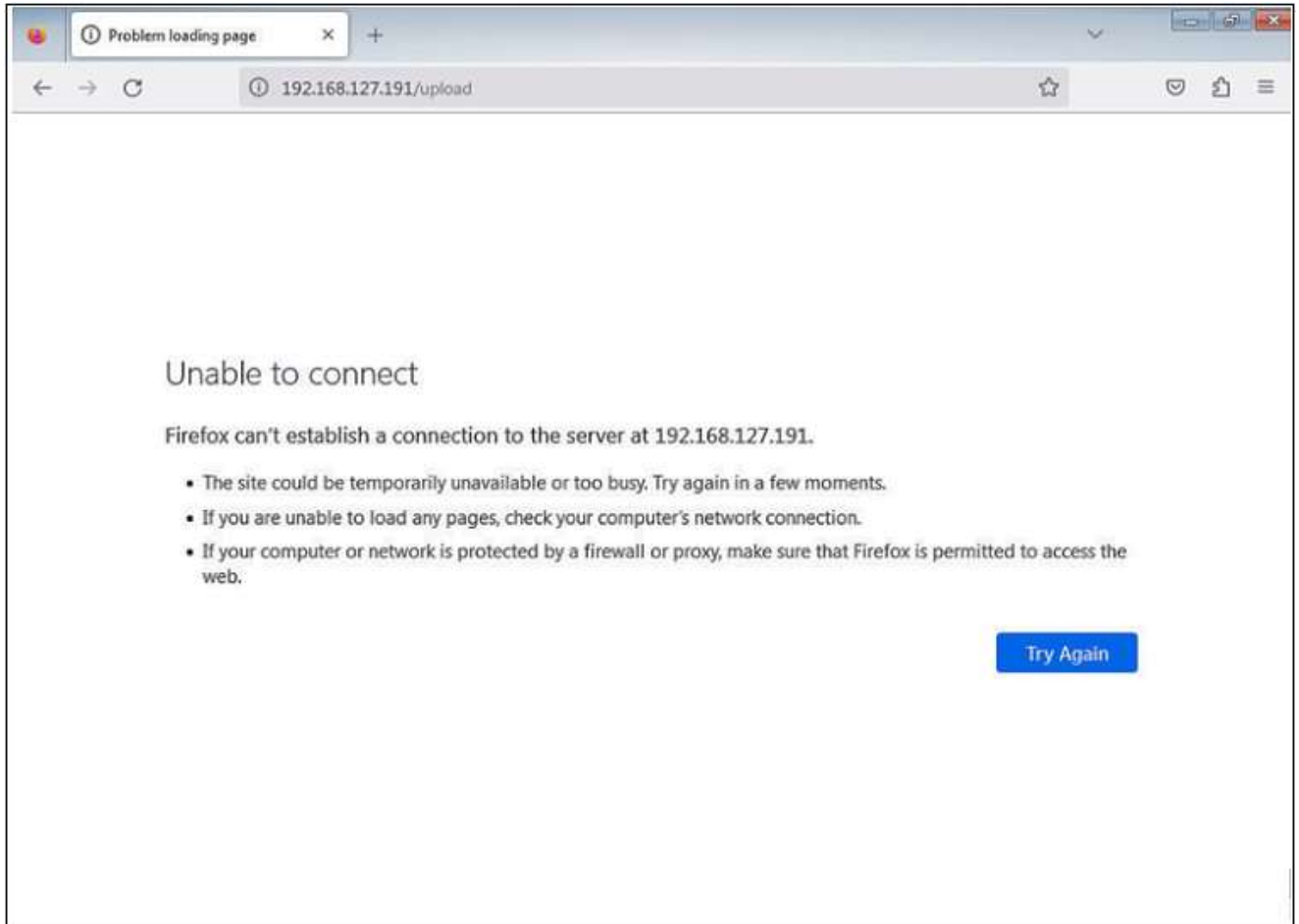


Fig.14. Information page after software update



Fig.15. Check for symbol \* on the DPM display

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