

## QUICK REFERENCE GUIDE TO REPLACING CPU II+ MEFs IN THE GCP 4000

Document Number SIG-QG-07-01  
Version B.1

### WARNING

DURING MODULE CHANGE OUT, SOFTWARE CHANGE, REBOOT, AND CALIBRATION PROCEDURES, WARNING DEVICES MAY NOT OPERATE AS INTENDED. TAKE ALTERNATE MEANS TO WARN PEDESTRIANS, EMPLOYEES AND VEHICULAR TRAFFIC.

### NOTE

Verify that replacement MEFs are compatible with the currently installed MCF.

1. Copy the replacement MEF files to the laptop in a folder in the C:\Safetran\DT directory or another convenient folder on the PC which will be used to install the software.
2. Connect the serial cable between the PC and the CPU module DIAG (CP) port. This port is used to install the communications processor MEF (file format is ngcxx\_xx.mef).

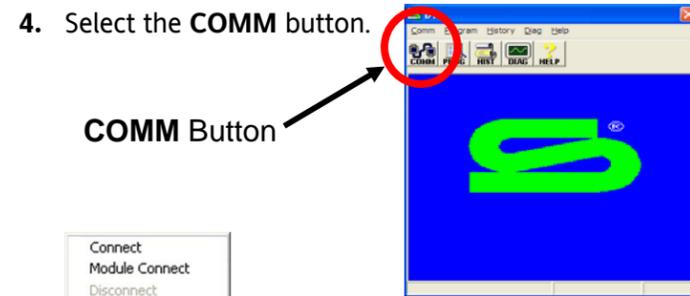
DIAG (CP) Port



3. Open the DT software by double clicking on the DT icon on the desktop, or by double clicking on the DT.exe file found in C:\SAFETRAN\DT\.

### NOTE

DT screens may vary slightly depending on version used.

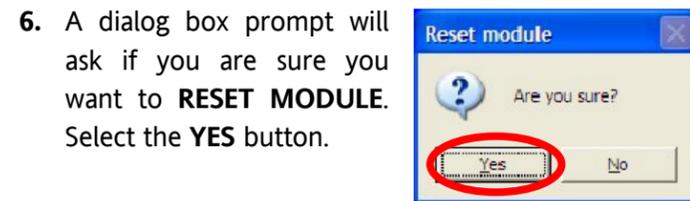


4. Select the **COMM** button.

COMM Button

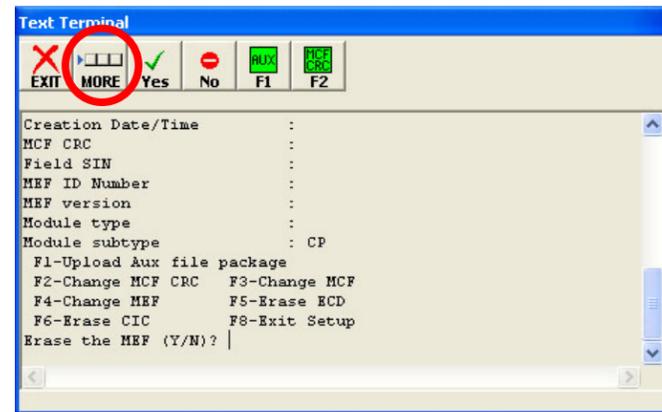


5. A menu will appear. Select **Install Software**.

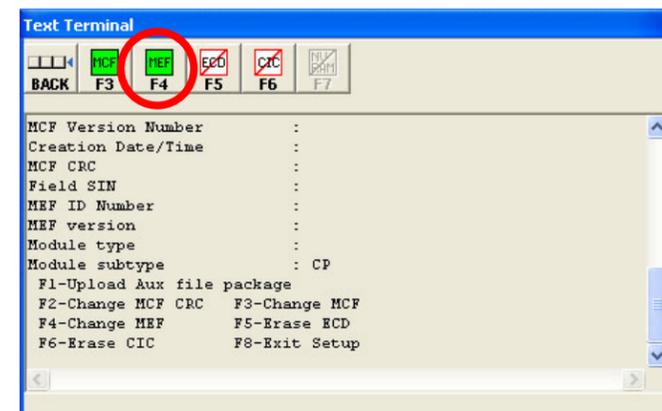


6. A dialog box prompt will ask if you are sure you want to **RESET MODULE**. Select the **YES** button.

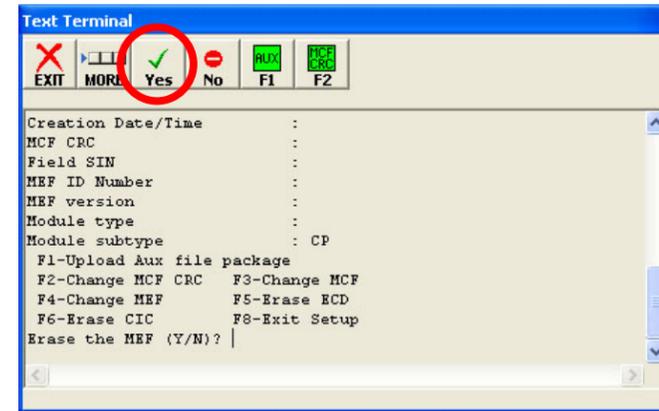
7. The following Text Terminal screen will appear. Select the **MORE** button.



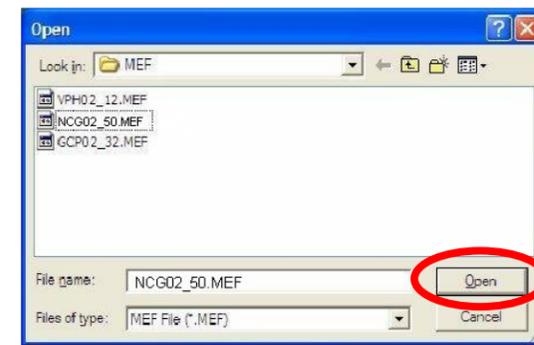
8. Select the **MEF/F4** button.



9. At the **Erase the MEF (Y/N)?** prompt, type **Y** or select the **YES** button.

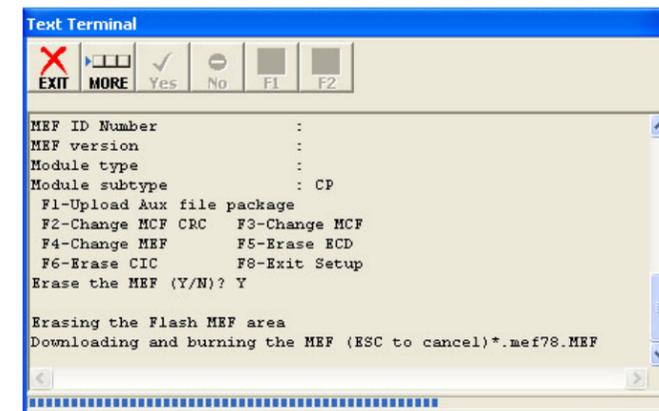


10. After erasing the previous MEF, the following dialog box will appear.

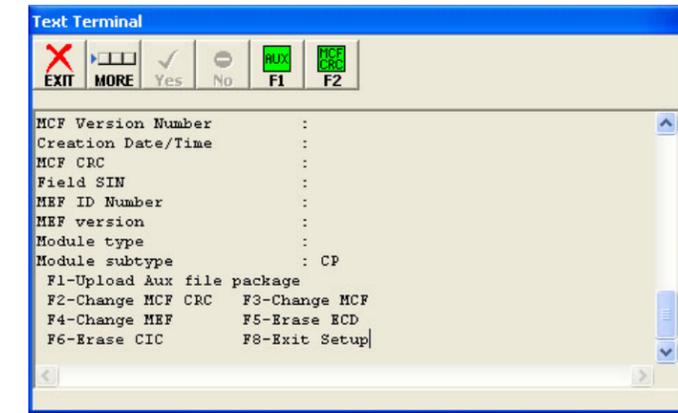


11. Select the file to be installed, (**NCG02\_50.MEF** in this example). Select the **Open** button. The file installation may take a few minutes.

12. While the file is downloading, progress will be indicated on the bottom line of the window.



13. When complete, the DT returns to the following screen.



The software installation on the DIAG (CP) port is complete. Next, the software will be installed on the VLP port. This port is used to install the vital processor MEF (file format is vphxx\_xx.mef)

14. Select the **EXIT** button, then the **CLOSE** button to return to the DT screen.

15. Remove the cable from the DIAG port and connect it to the VLP port.

VLP Port

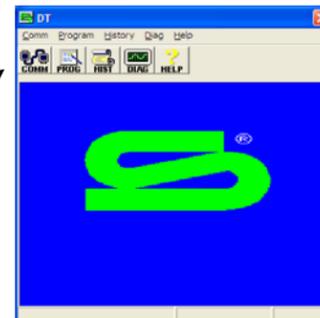


16. Select the **COMM** button.

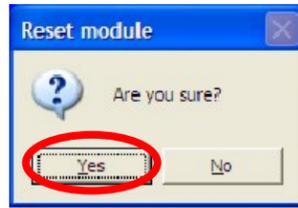
COMM Button



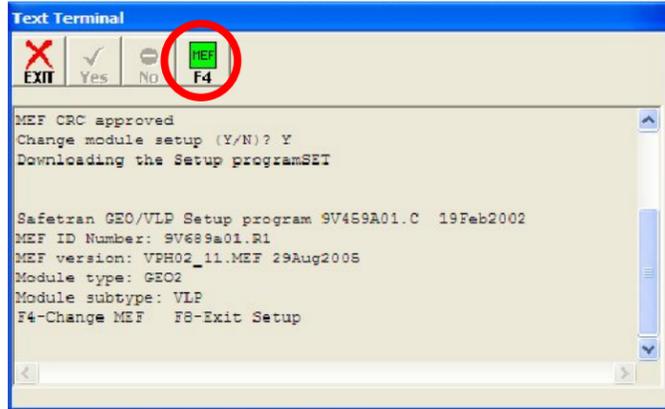
17. A menu will appear. Select **Install Software**.



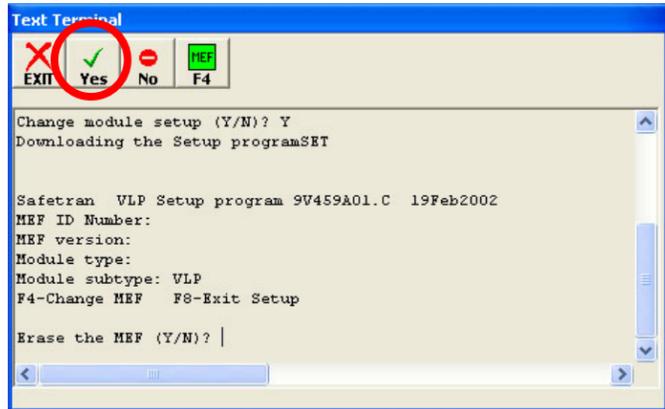
18. A dialog box prompt will ask if you are sure you want to **RESET MODULE**. Select the **YES** button.



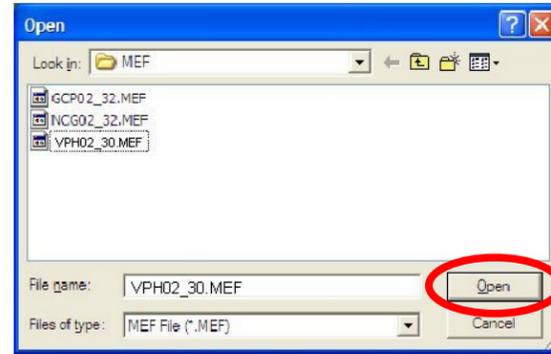
19. The following screen will appear. Select the **F4** button.



20. At the **Erase the MEF (Y/N)?** prompt, type **Y** or select the **Yes** button.

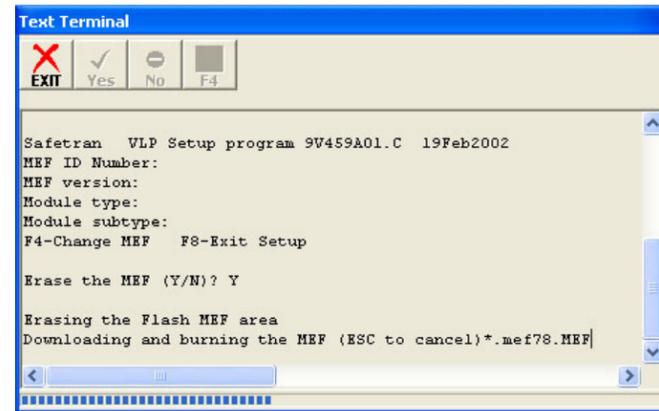


21. After erasing the previous MEF, the following window will appear.



22. Select the file to be installed, (**VPH02\_30.MEF** in this example). Select the **Open** button. The file installation may take a few minutes.

23. While the file is downloading, progress will be indicated on the bottom line of the window.



24. When the download is complete, select the **EXIT** button, then the **CLOSE** button to return to the DT screen.

**WARNING**

**AFTER DOWNLOADING MEFS, INITIAL PROGRAMMING OR PROGRAMMING CHANGES, TESTS MUST BE PERFORMED TO VERIFY PROPER OPERATION OF THE GCP SYSTEM PRIOR TO PLACING THE SYSTEM IN SERVICE.**