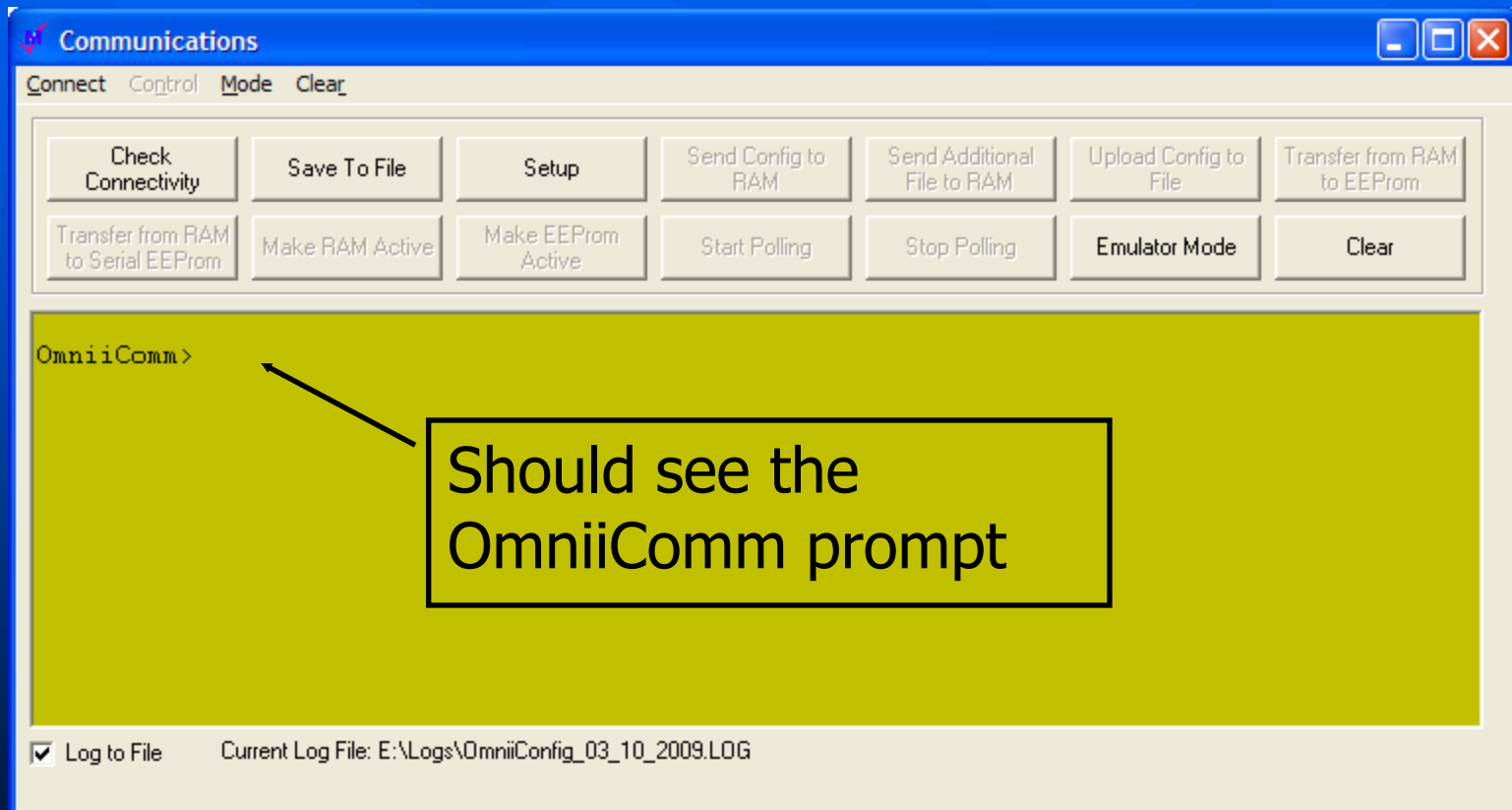


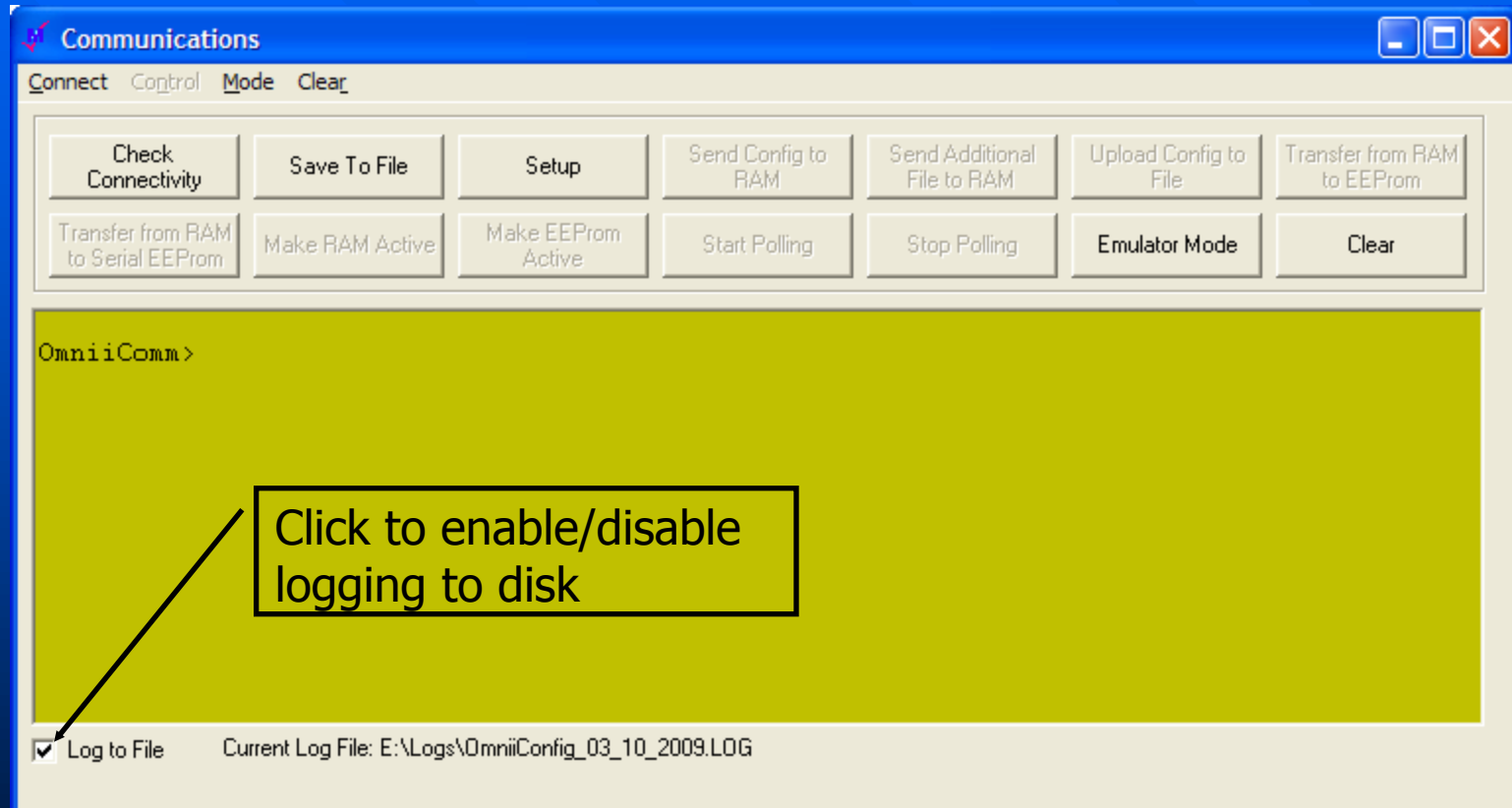
Omni-Config

Debug and Diagnostic Procedures

EMULATOR SCREEN



Log File



Log File Options

- Log File options are read from OmniCfg.INI
- Located in same directory as OmniiConfig program (default is C:\Program Files\Omnii-Config)
- Use Notepad to edit parameters

Log File Parameters

- LogFileFolder = E:\Logs\
■ MaxCharacters = 10000
■ DeleteLogFilesAfterNDays =2
■ LogToFile=True

Debug Commands

type a ? to display

The screenshot shows the OmniiComm software window. At the top, there are menu options: Connect, Control, Mode, and Clear. Below the menu is a grid of buttons for various functions: Check Connectivity, Save To File, Setup, Send Config to RAM, Send Additional File to RAM, Upload Config to File, Transfer from RAM to EEPROM, Transfer from RAM to Serial EEPROM, Make RAM Active, Make EEPROM Active, Start Polling, Stop Polling, Emulator Mode, and Clear.

The main area of the window displays the following text:

```
OmniiComm>
          DEBUG COMMANDS
Type the command letter followed by optional fields as shown in the example
Do not enter any spaces or dashes. They are added automatically to make the entry more
readable
The / key will abort any entry

^Q Quit polling
^S Start polling
B nn dump dataBase nn=datatype                B 04
C xxxx examine/Change Serial EEPROM xxxx=address  C 0000 55
D xxxx yyyy Dump and area of memory xxxx=start, yyyy=end  D 1000-1100
E xxxx Examine/change EEPROM xxxx=address        E F800 55
F xxxx yyyy hh Fill and area of memory          F 7F00-7FFF 00
  xxxx=start addx, yyyy=end addx, hh=fill pattern
I display Information                            I
L Load a S19 file                                L
M xxxx examine/change RAM Memory xxxx=address    M 7F00 00
N nn examine/change RAM page nn=RAM Page         N 07
P xxxx yyyy make .S19 file xxxx=start, yyyy=end  P 7000-7FFF
R Restart                                         R
S xxxx yyyy nnnn Save bytes in EEPROM           S 7000 F800 0800
  xxxx=source addx, yyyy=dest, addx, nnnn=num bytes
T n d f Trace serial port                       T 3 R A
  n=connector, d=direction (T,R,B), f=format (H,A)
V xxxx View 16 bytes xxxx=address in Hex        V 7F00
  Space advances 16, Backspace back 16
  Semicolon Repeats, Enter terminates
W xxxx yyyy nnnn Write bytes to serial EEPROM   W 6000 0000 2000
  xxxx=source addx, yyyy=dest, addx, nnnn=num bytes
X stop serial port monitor
```

At the bottom of the window, there is a checkbox for "Log to File" which is checked, and the text "Current Log File: E:\Logs\OmniiConfig_03_10_2009.LOG".

Data Entry

- Do not type any spaces or dashes
- Spaces and dashes are added automatically to make entries easier to read
- Lower case is converted to upper case
- A backslash character will abort an entry
- The Enter key will usually end a function

T—Trace Function

- Displays serial communication activity for any port
- Type T to start
- then the connector number
- then the direction (T for transmit, R for receive or B for both)
- then the format (H for hex or A for ASCII)
- Example T 2 RH =Trace on connector P2, look at the Receive side and display in hex
- Type X to stop

B—Database

- Displays current content of the database
- Type B to start
- then the database data type number
- Example B 01= Display the current values of all the configured points in Data Type 01
- The Data Type Number is shown at the start of each line on the Database Extension Table

Data Type Number

For CPASR4
protocol Data
Type 01 is
Analog Input

Full Report	
0. Digital Input Wds	3
1. Analog Input	6
2. Meters-4 byte	1
3. Digital Output Wds	0
4. Analog Output	0
5. Calc. Integer	0
6. 4-Byte Setpoint	0
7. Data type 07	0
8. Tank Data	0
9. Internal Status	0
10. Latched Status	0
11. Data type 11	0
12. Data type 12	0
13. Data type 13	0
14. Data type 14	0
15. Data type 15	0
16. Data type 16	0
20. Frozen Meters	0
21. Frozen Analogs	0

WriteProtocol: CA CPASR-4

V—View Memory

- Displays 16 bytes of memory in both hex and ASCII format
- Type V to start
- then the starting address in hex
- Example V 7F00 = Display 16 bytes of data starting at RAM address 7F00 (typically error locations)
- Pressing the Space bar will show the next 16 locations
- Pressing the Backspace key will show the previous 16
- Pressing the Semi-colon will show the same 16 again
- Pressing Enter will terminate the function

F—Fill Memory

- Used to initialize an area of memory with a specified hex value
- Type F to start
- then the starting hex address
- then the ending hex address
- then the hex value to fill with
- Example F 7F00-7FFF 00 = Fill all memory from 7F00 to 7FFF with the value 00

M—Modify Memory

USE WITH CAUTION!

- Used to examine and optionally change a single memory location
- Type M to start
- then the hex memory address
- Example M 7000 = display the current contents of memory location 7000 (hex)
- Pressing the Space bar will advance to the next address
- Pressing the Backspace key will show the previous address
- Pressing the Semi-colon key will show the same address
- Typing a new 2-digit hex value will change the data and advance to the next address

I—Information

- Used to display information about your configuration
- Type I to start (no other parameters)
- The firmware Revision Level is the last 4 digits of the software part number
- The Firmware Release date is shown
- The Gate Array (internal hardware) Version is shown
- The presence or absence of two types of EEPROM
- The currently loaded Configuration File name