

Getting Started

Monitor was designed to verify the status of your connection to the internet. Originally intended for use with the 3Com OfficeConnect Remote Dual Analog router, it can also be used by other routers equipped with a console (serial) port.

When started, Monitor will minimize itself and place an icon in the taskbar. Moving the mouse over the Monitor icon will show what % the failure meter is currently at. Right-clicking the icon will allow you to bring up the main program screen.



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How It Works

Monitor will ping the primary IP address at the interval you specify. On a failure of the primary address, the secondary address will be tried. A bad response from both addresses will increment the failure counter. If the retries value of failures is exceeded, the [failure command string](#) will be sent to the router and the failure count will be reset.

Failure Command String

Enter the commands to be sent to the router. The carat (^) character can be used to generate control characters, i.e. ^m = ENTER.

To cause the 3Com OCRDA router to disconnect, use the string:

```
^M^M^Mhangup interface mod:1^Mhangup interface mod:2^M
```

A delay of 250ms will occur after any control character is transmitted.

Please note that the output comm port is configured to 9600,8,N,1 (non adjustable).

Filling In The Blanks

The screenshot shows a window titled "Monitor" with several sections for configuring ping monitoring:

- Addresses To Ping:** Primary: 192.168.1.1, Secondary: 192.168.1.2, Timeout: 5000 ms, Period: 60 seconds.
- Last Results:** Return Status: 0 [ip success], Round Trip Time: 0 ms.
- Failure Action:** Command String: ^M^M^Mhangup interface mod:1^mhangup interface, Comm Port: 1, Retries: 5, Log File: c:\monitor.log.
- Scheduled Actions:** Four rows, each with a Command String field and a Send At field set to 12:00:00 AM.

Buttons for "PING NOW" and "FAIL TEST" are located on the right side of the window.

Primary and secondary IP address

Enter a valid numeric IP address. (I suggest your ISP's name servers)

Timeout

Number of milliseconds to wait for a ping reply. (Suggest 2000-5000)

Period

Interval at which pings are sent. (Suggest 60)

Return Status

Results of last ping attempt.

Round Trip Time

Elapsed time for ping response to be received.

Failures

Progress meter indicating how long until the [failure command](#) is sent.

Command String

String sent to router when number of consecutive ping failures has been reached. ([See failure command](#))

Comm Port

Port which is connected to the router's console port.
Configured to 9600,8,N,1 (non adjustable)

Retries

Number of ping failures before the [failure command](#) is sent.

Log File

Full pathname of the log file.

PING NOW Button

Click to ping IP's immediately.

FAIL TEST Button

Click to send [failure command](#) string immediately.

COMMAND STRING (Scheduled Commands)

Command sent to router at designated time. (See [failure command](#) for details on string syntax)

Send At

Time to send command string to router. Field disabled if corresponding command string is blank.

Support

Since Monitor is provided as freeware, there is no support. However, you can email me at john@hutchey.com and I may give an answer.

If you need custom modifications, etc. I would be happy to quote you a reasonable price.

