

MdmStats is a program to monitor and display statistics available from CenturyLink ADSL/VDSL compatible modems (single line and bonded pair). Statistics include downstream and upstream Data Rate, SNR, Attenuation, Power, FEC Errors, and CRC Errors. These statistics are sampled at 3-second intervals and logged to a file (MdmStats.dat for single line modems and MdmStats1.dat/MdmStats2.dat for bonded pair modems). These statistics can then be displayed over selectable periods of time and duration in graphical form with MdmGraph. MdmStats creates an icon in the Windows taskbar system tray/notification area. Hovering the mouse pointer over this icon displays current SNR, FEC, and CRC values. Left double-clicking this icon alternately displays and hides the MdmStats program window. Right-clicking this icon gives access to all MdmStats features. Closing the MdmStats window hides the program window. To terminate MdmStats, use File -> Exit.

MdmStats Main Menu options:

File -> Save : Save the most recent Telnet data received to a TXT file
File -> View : Display the most recent Telnet data received on screen
File -> Exit : Terminate MdmStats

Edit -> Options : Configure MdmStats options
Edit -> Sound : Enable/Disable Sound (Beep on Errors)

Help -> About : Display the program version date

MdmStats Tray Icon Right-Click Menu options:

Show/Hide MdmStats : Show/Hide MdmStats program window
Graph Line 1 : Launch MdmGraph with Line 1 statistics
Graph Line 2 : Launch MdmGraph with Line 2 statistics
Reset Line 1 : Reset Line 1 statistics
Reset Line 2 : Reset Line 2 statistics
Start/Stop : Start/Stop statistics collection
Save : Save the most recent Telnet data received to a TXT file
View : Display the most recent Telnet data received on screen
Options : Configure MdmStats options
Sound : Enable/Disable Sound (Beep on Errors)
About : Display the program version date
Exit : Terminate MdmStats

Before using MdmStats, the modem must have its Telnet interface enabled. Using a web browser, log into the modem and go to Advanced Setup -> Remote Console, select Telnet Enabled, and set the Telnet Password. Then configure MdmStats at Edit -> Options. To have MdmStats run automatically when Windows is booted, create a shortcut to MdmStats.exe in the Startup folder of the Windows Start menu.

MdmGraph is a program to graphically display the data files produced by MdmStats. MdmGraph displays SNR levels horizontally while FEC and CRC errors are displayed vertically. Average SNR values and FEC/CRC error totals are displayed at the top of the graph along with a legend. Times and dates are displayed at the bottom of the graph. The upper scrollbar controls the duration of the data displayed while the lower scrollbar controls the specific interval. The display is auto-scaling and the window is resizable. View options allow displaying/masking the various modem statistics.

MdmGraph Main Menu options:

File -> Open : Open a new data file to display
File -> Save : Save the current display to a JPG file
File -> Exit : Terminate MdmGraph

View -> Refresh : Redisplay the original graph
View -> SNR Dn : Display/Mask SNR Dn information
View -> SNR Up : Display/Mask SNR Up information
View -> FEC Dn : Display/Mask FEC Dn information
View -> FEC Up : Display/Mask FEC Up information
View -> CRC Dn : Display/Mask CRC Dn information
View -> CRC Up : Display/Mask CRC Up information
View -> All : Select all display options
View -> None : Clear all display options
View -> SNR : Select only SNR display options
View -> FEC : Select only FEC display options
View -> CRC : Select only CRC display options
View -> ERR : Select only ERR display options

Help -> About : Display the program version date