

# Welcome to Bandwidth Monitor



## What is Bandwidth Monitor ?

*Bandwidth Monitor*, by Idyle Software, is a Windows 98, NT 4.0 and 2000 tool to monitor the bandwidth of a network adapter.

A network adapter can be a regular modem, an ISDN modem, a network card hooked up to a cable modem or xDSL modem, or a network card hooked up the company network or LAN.

*Bandwidth Monitor*, or BWM for short, monitors two important aspects of the network card:

- **Counters:**

The software will display the total number of bytes uploaded and downloaded. This feature is very useful when maintaining bandwidth statistics for a server; and almost invaluable for cable modem and xDSL users whose ISP impose a limit on monthly transfers.

- **Throughput:**

BWM will display the current speed at which data is sent to, or received from the network adapter. These are commonly called "Upload" speed and "Download" speed. This feature allows the user to precisely know what is the real value for upload, download and total speeds of the network adapter.

## Bandwidth Monitor Features

- **Automatic counters reset:**

Most cable modem and xDSL ISPs impose a limit on monthly transfers. This feature will reset BWM's counters at the end of the billing period. This will allow the user to know exactly how much bandwidth he/she's already taken, and how much is left.

- **Warnings:**

The software can display and trigger warnings when the upload, download or total counters reach a specific amount. This will let users with limited bandwidth be aware of the fact they are nearing their limit.

Warnings include a popup window, playing a sound, executing an application or shutting down the computer.

- **Logs:**

BWM can keep a daily log of bandwidth usage. For each day, the software will log the bandwidth used during the day, the total bandwidth used since the beginning of the month (or the ISP's billing period), as well as the maximum speed reached.

**More information about *Bandwidth Monitor***

More information about BWM may be fetched from Idyle Software's web site at <http://www.idyle.com>

## About Bandwidth Monitor



Visit Idyle Software on the Internet at <http://www.idyle.com>

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Les parties ont convenu que cette convention soit rédigée en anglais.  
The parties have agreed that this agreement be drafted in English.

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## **Unhandled Exception**

This dialog appears when an unhandled error appears. It is highly recommended you terminate (exit) the software right away and restart it again.

If you have internet access, please submit a bug report to [support@idyle.com](mailto:support@idyle.com) with the contents of the Unhandled Exception and the steps you took to trigger this error.

## Glossary of terms

- b, bit:** b is the short version of bit. A bit is the smallest unit of quantity for computer data.  
Example: 56 kbits modem, 10 Mbits adapter card  
See also: B, kB, MB, GB
- B, byte:** B is the short version of Byte. A byte is a unit of quantity for computer data.  
Conversion: 1 B = 8 bits.  
Example: a 250-byte file  
See also: b, kB, MB, GB
- download:** a download is a transfer from another machine to your machine. This is also known as sending data.  
Example: when browsing the internet, you are downloading web pages to your computer in order to view them.
- GB, gigabyte:** GB is the short version of Gigabytes. A GB is a unit of quantity for computer data.  
Conversion: 1 GB = 1024 MB = 1048576 kB = 1073741824 bytes.  
Example: my ISP limits me to 6 GB of transfer per month.  
See also: b, B, kB, MB
- kB, kilobyte:** kB is the short version of kilobytes. A kB is a unit of quantity for computer data.  
Conversion: 1 kB = 1024 bytes.  
Example: I reached 5 kB/s on my 33.6 kbits modem with compression.  
See also: b, B, MB, GB
- MB, megabyte:** MB is the short version of Megabytes. A MB is a unit of quantity for computer data.  
Conversion: 1 MB = 1024 kB = 1048576 bytes.  
Example: my Windows swap file is 200 MB.  
See also: b, B, kB, GB
- network adapter:** a network adapter is a piece of equipment hooked on, or inside your computer that allows it to communicate to a network.  
Example: modem, ISDN modem, network card (NIC).
- upload:** an upload is a transfer from your machine to another machine. This is also known as receiving data.  
Example: when sending an e-Mail, you are uploading the e-Mail to the mail server.

## Bandwidth Monitor Window

The Bandwidth Monitor window displays statistics about the network adapter byte counters and speed.

You can switch to the Statistics Mode by clicking the "Stats" button of the BWM Window. Speed Mode can be activated by clicking the "Speed" button of the BWM Window.

- Statistics Mode (Stats button)

In this mode, BWM will display the byte counters for upload (out), download (in) and total (in+out). Unit is always the Megabyte (MB).

Example:

Upload:	155 MB
Download:	1040 MB
Total:	1195 MB

- Speed Mode (Speed button)

In this mode, BWM will display the current speed at which data is going through the network adapter. Unit may be bytes/second (B/s), kilobytes/second (kB/s), megabytes/second (MB/s) or gigabytes/second (GB/s) depending on the adapter speed.

Example:

Upload:	15 kB/s
Download:	720 kB/s
Total:	735 kB/s

- Graph Mode (Graph button)

In this mode, BWM will display a graphic versus time of one of the available statistics (bytes in/out/total, speed in/out/total). The details for this mode can be configured in Settings->Graph.

# Settings

Settings are separated in seven (7) categories:

- General : startup options for *Bandwidth Monitor*;
- Properties : properties of *Bandwidth Monitor*;
- Graph : properties for the graphic of *Bandwidth Monitor's* Graph Mode;
- Tray Icon/Activity : settings for the tray icon/activity indicator;
- Warnings : warnings for upload, download and total counters;
- Events : events to be triggered when a warning is to be made;
- Log : enable, disable or configure logging options

## General

- Autostart Bandwidth Monitor when I log in  
If enabled, BWM will be started each time you log on your computer. If disabled, BWM will have to manually started.
- Show Bandwidth Monitor Window at startup  
If enabled, BWM will show the window if it was shown last time BWM was closed, and will hide it if it was hidden last time BWM was closed.  
If disabled, BWM will always hide the window. This feature may be useful if you wish BWM to run in a silent, non-obstrusive way.
- Color Scheme  
Bandwidth Monitor's window can use any of these color schemes (Orange, green, silver and blue).
- Language  
You can select your preferred language from the available translations. Events and Warnings translations will take effect after your computer has been restarted.

## Properties

- Adapter to monitor  
If you have multiple network adapters on your machine, this option lets you specify which card BWM should monitor. Please note BWM can only monitor one card at a time.
- Bandwidth Monitor is Always On Top  
If enabled, the BWM Window will be shown on top of all other windows. If disabled, the BWM Window can be hidden behind other windows. When this option is not enabled and the BWM Window is behind other windows, it is possible to bring it to the front by right-clicking BWM's system tray icon.
- Reset Statistics Perdiocally  
If enabled, BWM will periodically reset the statistics. This is especially useful for users who wish to use BWM as a monitor for ISP's authorized transfer limit. Statistics may be reset yearly, monthly, weekly, daily, and more.
- Reset Statistics Now  
If clicked, BWM will query you for the initial values to use, and then reset the statistic counters for the selected adapter.

## Graph

### - Graph Settings

This section lets you configure the type of the graph (Bytes Downloaded, Bytes Uploaded, Bytes Total, Download Speed, Upload Speed, Total Speed).

This dialog is also used to specify the scale of the graphic : the time/duration (in seconds) of the displayed data, and the maximum vertical scale (for example, 1000 kB/s for a Speed graph, or 6000 MB for a Bytes Total graph).

## Tray Icon/Activity

### - Tray Icon Appearance

Bandwidth Monitor always displays a small icon in the system tray notification area. This icon is used to interface with the software.

This icon may be the standard Bandwidth Monitor icon, with no activity indicator. It may also be a mix of the standard Bandwidth Monitor icon with a small activity indicator, or full scale large indicator.



The Activity Indicator works like a Network LED. When there is activity on the selected Network Card, one of the two LEDs (Upload/Download) is activated.

### - Activity Indicator Sensitivity

When the Activity Indicator is enabled through the Tray Icon appearance, the user can adjust its sensitivity.

This sensitivity adjustment may be used, for example, to choose how much traffic is necessary for the indicator to light up. A default value of 2 is preset. A higher value will require more traffic on the network interface to light up the indicator, whereas a lower value will light up the indicator as soon as any amount (even very small) of traffic is detected on the network interface.

## Warnings

### - Enable upload bandwidth (out) warning

If enabled, BWM will trigger a warning event if the upload bytes counters reach the specified limit (in MB).

### - Enable download bandwidth (in) warning

If enabled, BWM will trigger a warning event if the download bytes counters reach the specified limit (in MB).

### - Enable total bandwidth (in+out) warning

If enabled, BWM will trigger a warning event if the total bytes counter reach the specified limit (in MB).

### - Repeat Warnings

If enabled, BWM will repeat warnings every number of hours.

## Events

### - Popup a window

If enabled, BWM will popup a window when a warning is triggered.

- Play a sound

If enabled, BWM will play a sound (wave file) when a warning is triggered. The wave file to be played can be selected by clicking the "... " button.

- Execute a program

If enabled, BWM will run a program when a warning is triggered. The executable to be ran can be selected by clicking the "... " button.

- Shutdown computer

If enabled, BWM will force a computer shutdown 60 seconds after warning has been triggered. Please note any non-saved data in opened applications could be lost during a forced shutdown.

## Log

- Keep a daily log of bandwidth usage

If enabled, BWM will keep a daily log of bandwidth usage. Each day, BWM will add a log entry containing the bandwidth usage for the day, the bandwidth usage since the beginning of the month (or the beginning of the stats period if periodic reset is enabled), and the maximum speed reached for the day.

You can also choose the location of the log file by clicking the "... " button.

## Details

Bandwidth Monitor can show a more detailed view of the transmission counters and adapter speed.

To show details, right-click the Bandwidth Monitor window or system-tray icon, and select "Details".

Bandwidth Monitor's Detailed View shows:

### - Current

Speed, Download : The current download speed (receiving data) of the interface, available in GB/s, MB/s, kB/s and B/s

Speed, Upload : The current upload speed (sending data) of the interface, available in GB/s, MB/s, kB/s and B/s

### - Daily

Received : The quantity of information downloaded (received) for the current day, available in GB, MB, kB and B

Sent : The quantity of information uploaded (sent) for the current day, available in GB, MB, kB and B

Speed, Download, Max : The maximum download speed (receiving data) achieved during the current day, available in GB/s, MB/s, kB/s and B/s

Speed, Upload, Max : The maximum upload speed (sending data) achieved during the current day, available in GB/s, MB/s, kB/s and B/s

Speed, Total, Max : The maximum total speed (receiving + sending) achieved during the current day, available in GB/s, MB/s, kB/s and B/s

### - Global

Received : The total quantity of information downloaded (received), available in GB, MB, kB and B. This counter can be reset once or periodically in "Settings", "Properties" (see Settings).

Sent : The total quantity of information uploaded (sent), available in GB, MB, kB and B. This counter can be reset once or periodically in "Settings", "Properties" (see Settings).

The columns of the Detailed View may be resized, so you can easily "hide" columns which are of no relevance (for example, the GB/s column for a 33.6kbps modem)

# History

Bandwidth Monitor keeps track of daily counters, and offers the possibility to build a history of these counters.

To view an adapter's history, right-click the Bandwidth Monitor window or system tray icon, and select "History".

Please follow these steps to view the history of your network adapter :

## **History Type**

This dialog lets you choose the kind of history you would like to view. Available options are Yearly, Monthly and Daily.

The Yearly History will show all counters for each year of the history range.

The Monthly History will show all counters for each month of the history range.

The Daily History will show all counters for each day of the history range.

## **Values**

This part of the History window will show all values, according to the history type that was selected previously.

Click the "Save/Export" button to save these values to a text-file as a comma-separated file (CSV format) or fixed-length columns format. Both these formats maybe later imported in a software such as MS Excel for further processing.

## **Graph**

This part of the History window displays a graphic of all Received, Sent and Total counters, according to the history type that was selected previously.

Click the "Print" button to print this graphic.

