

# GTK-GNUTELLA

Current version: 0.96.9

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English 

## The Most Efficient Gnutella Client

gtk-gnutella is a server/client for [Gnutella](#). It runs on Microsoft Windows and every Unix-like system which supports [GTK+](#) (1.2 or above) and [libxml](#). The GNOME desktop environment is not required. It is currently developed and tested under Linux ([Debian](#)) as well as [NetBSD](#). It is known to run at least on Linux, [FreeBSD](#), [NetBSD](#), [Darwin](#), Solaris, Tru64 UNIX (OSF/1), SGI IRIX, BeOS whereas CPU architectures include x86, AMD64, PowerPC, SPARC, MIPS. And of course Microsoft Windows (XP at least).

gtk-gnutella is free open-source software and released under the GNU General Public License (GPL).

gtk-gnutella is not finished yet, but it is fully functional: you may share, search, and download. And it is stable too, users usually just leave it run unattended for days.

All ideas and comments are welcome to the [gtk-gnutella-devel](#) mailing list. Bugs should be reported to the [SourceForge.net Bug Tracker](#)

[We need additional contributors for C development and documentation](#)

## News

### April 1st, 2011 -- Binary for Microsoft Windows Available!

Version 0.96.9 has been ported to Microsoft Windows and is now available for downloading.

All the gtk-gnutella features are available and the program runs on Windows with the same low-CPU and low-memory usage as when running under UNIX-like operating systems, including the gtk-gnutella shell (but then you have to launch it through the command line, not through the GUI by double-clicking on the icon).

Porting was done by your gtk-gnutella development team, by creating a thin POSIX-like layer on top of which the rest of the code can run without changes compared to the UNIX version. Note that this has nothing to do with Cygwin, and the resulting program is a **native** executable not requiring any Cygwin library.

You can download the [installer](#) and the [PGP signature](#) as usual.

Enjoy the quality of gtk-gnutella on Windows!

*gtk-gnutella team*

### 14 March 2011, Version 0.96.9 Released

Version 0.96.9 is the stable yearly release.

#### New Features

- Added UPnP and NAT-PMP support.
- Added a "log" command to the shell to manage logfiles.
- Added --gdb-on-crash switch, auto-activated when no core dumps are possible.
- Configures a crash directory as `~/gtk-gnutella/crashes`.
- [GTK] Added visual feedback for UPnP and NAT-PMP configuration status.

#### Improvements

- Better handling of uploading servers that also publish in the DHT.
- Added Global Host Cache as a last-resort bootstrapping mechanism when UDP is not working.
- Search results from firewalled hosts are now displayed in "dark slate gray"
- Message statistics now include a line per DHT message type instead of aggregating all DHT messages in the same basket.
- Always use ARC4 random number generator.
- Continuous entropy collection to make the random number sequence more random.
- Raised default ultrapeer connections in leaf mode to 4, maximum now being 5.
- ASCII parentheses are no longer considered evil characters and are not stripped from filenames anymore.
- Trailing spaces and periods are stripped from filenames because Windows does not like them.
- When stdout and stderr are different files, critical messages (assertion failures, crashes) are duplicated to stdout.
- [GTK] Added visual feedback icon for the DHT status.
- [GTK] Show green/yellow/red uploading status icons indicating increasing warning levels after which we declare that uploads are stalling.
- [GTK] Show DHT alt-loc queries on a per-file basis.

#### Bug Fixes

- Prevented random crash at shutdown time (improper cleanup ordering).
- Prevent crash when running on linux kernels patched with grsecurity.
- Fixed improper hop count display (always showing 2147483647) in horizon stats.

- Fixed bad GUI status for files: do not say "SHA1 failed" unless it's true.
- Fixed message statistics which were reading payload size from the header instead of relying on what was actually read.
- OOB proxying code was not considering MUID collisions, causing memory leaks.
- Was not always reconnecting to other Gnutella nodes when missing slots.
- Fixed old bug triggered by setting "listen\_port" to 1 multiple times.
- Magnets created from search results did not include push proxies.
- [GTK2] Was not saving tree view column positions in the statistics pane.
- [GTK2] Fixed broken DND so that files can be drag 'n' dropped from local searches and the download view to other desktop apps now.
- [GTK] New users were never able to see the preset filters in the menu.

#### Under the Hood

- Fresh bogus IP lists and geo IP database.
- Updated SPAM detection rules.
- Updated Gnutella bootstrapping logic due to changing environments.
- Cached DHT security tokens are now regularly expired.
- Tuned DHT maintenance traffic down, using statistical methods to further avoid needless RPCs.
- Clear empty databases at startup, attempt to shrink them otherwise.
- Fixed uninitialized memory read detected by valgrind.
- Made SDBM more robust when facing errors.
- Errors encountered during SDBM operation are now reported at exit time.
- If I/O errors were detected during operations of a persisted DB, request key checking at next startup.
- Added CPU frequency scaling detection (Linux and Windows only) to be able to properly determine whether we are overloading the CPU.
- Removed ShareMonkey URL support: they went out of business.
- Use the DHT routing table as a source for new node addresses when the host caches are depleted, before attempting to contact the UHCs.
- Throttle UDP pings so that we do not bombard a single host with many requests.
- Limit Gnutella connection attempts to a given host to one per 2 minutes.
- DHT routing table size now adjusts dynamically, lowering maintenance traffic.
- Throttle received DHT lookups as a precaution against abuse from rogue nodes.
- At startup time, sort cached host entries to put the most recent ones first.
- Optimized QRP table merging loop.
- Improved behaviour when facing stalling uploads.
- Only send "DHT" in Gnutella pongs if the DHT runs in active mode.
- Implemented DHT attack-prevention rules to guard against Sybil attacks.
- Added arc4random() default implementation for systems without it.
- Robustified query hit parsing so that we can filter out invalid hits.
- [GTK2] Completely migrated GtkFileSelection to GtkFileChooser.

#### Integrity checks for the source tarball

Size: 16669486 bytes  
 urn:bitprint:JOJFJI6VCURXPTTFVTYJ3BMMFMF3JSSQ.MLDGSRTHG3J7OPVBHRRZ2XKVK5M7MBNGQDMEWVA  
 SHA1 (gtk-gnutella-0.96.9.tar.bz2) = 4b9254a3d5152377ce65acf09d858c2b0bb4ca50

[PGP Signature](#) (286 bytes)

Thanks to everyone who contributed to this bug-fix release in the form of feedback, bug reports or patches.

*gtk-gnutella team*

#### 21 March 2010, Version 0.96.8 Released

Version 0.96.8 is a stable release, containing *critical* bug fixes for the previous release 0.96.7

#### Bug Fixes

- Removed an obsolete assertion now that gtk-gnutella supports NOPE DHT values. This was causing a crash each time a NOPE value was received in response to push-proxies queries in the DHT.
- Fixed memory alignment problem for non-forgiving CPU architectures.
- The virtual memory manager would crash when the kernel starts allocating pages in zones we wrongly thought were already used.
- Fixed long-standing bug in the Query Routing Table protocol where a RESET message with the wrong table size could sometimes be sent, causing the remote node to close the connection.
- Make sure an ultrapeer is not publishing NOPE values in the DHT if support for the DHT was disabled by user, which would be triggering a fatal assertion failure.

#### Under the Hood

- Fixed Makefile to ensure proper compilation under Gentoo's build scripts.
- Push-proxy client support now makes sure there is a space after a leading GET or HEAD word in the HTTP request.
- The DIME parsing layer now given more information in case of an error.
- Let THEX downloads peruse any supplied Content-Length information from the server (applicable only when the output is not chunked).
- The VMM layer is now smarter at identifying foreign pages when allocating blocks larger than a single page.
- When sending BYE messages, do not shutdown the socket layer if using TLS.
- Compilation cleanup for SunOS, Sun Studio, and versions of GTK < 2.5.0.

#### Limitations

They are really identical to the ones present in version 0.96.7.

- DHT code is currently sub-optimal for firewalled hosts.
- Manual bandwidth tuning is currently necessary to allow for efficient DHT usage. Allow at least 8 KiB/s out, 15 KiB/s out being better. Also increase the lookup bandwidth to 32 KiB/s in and 6 KiB/s out, the defaults of 8 KiB/s in and 2 KiB/s out being very conservative.
- DHT is enabled by default with a fixed (manually tunable) configuration. There is no auto-tuning and no adaptation to traffic conditions yet. You need to explicitly disable the DHT if you don't want to benefit from it.

**Integrity checks for the source tarball**

Size: 16275481 bytes  
urn:bitprint:6KCK5T6JYBJF5T4AHRIF5C55CPA3K423.7DFFFGSMPZMLZFG7OLLOBFSKBX2PKYHJTTYAMDA  
SHA1 (gtk-gnutella-0.96.7.tar.bz2) = f284aecfc9c0525ecf803c505e8bbd13c1b5735b

[PGP Signature](#) (286 bytes)

Thanks to everyone who contributed to this bug-fix release in the form of feedback, bug reports or patches.

*gtk-gnutella team*

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